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# QUARTERLY REPORT NO. 5

APRIL – JUNE 2006



**JUNE 2006**

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**Photo credit:** Akbar Ario Digdo, ESP Yogyakarta/Central Java.

**Caption:**

Standing tall and rising spirit: The children of Sutopati Village in Magelang, around 42 km (26 miles) west of the Special District of Yogyakarta. Immediately after the 6.2 magnitude earthquake that hit Yogyakarta and vicinities on 27 May 2006, ESP conducted a water supply and sanitation assessment, as well as development and distribution of a series of Earthquake Quick Response Base Maps. ESP is pleased to help bring back the smile and hope of those affected by the earthquake and ongoing activity of Mt Merapi such as the Sutopati children.

For more about this, please read the Cover Story on Page I.

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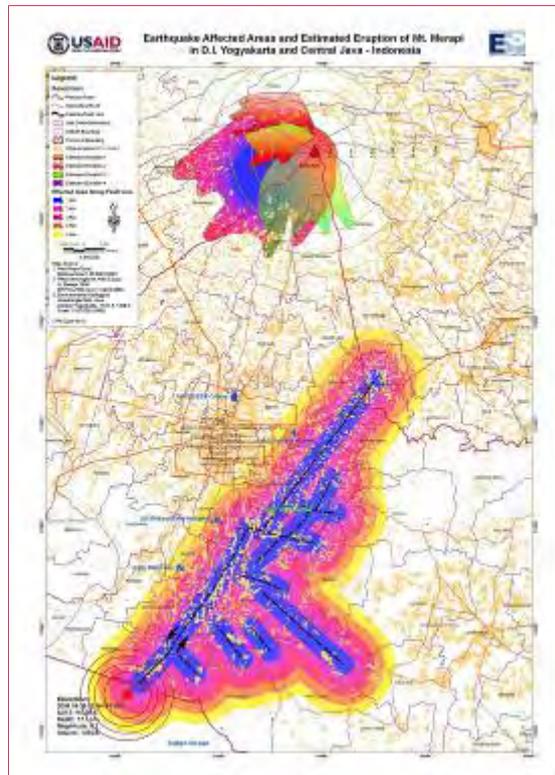


# COVER STORY

## ESP SUPPORTS EARTHQUAKE RELIEF EFFORTS IN YOGYAKARTA AND CENTRAL JAVA

**National.** On Saturday morning, May 27, a 6.2 magnitude earthquake struck Yogyakarta and Central Java, killing nearly 6,000 people, severely injuring more than 30,000, and destroying more than 150,000 homes, schools, health centers and other buildings. The ESP program responded quickly to this emergency, providing technical support in water and sanitation as well as mapping and geographic information systems (GIS). ESP also used this opportunity to work with USAID partners from the Basic Human Services and Education programs to strengthen collaboration for on-going and future work in Yogyakarta and Central Java.

Immediately after the earthquake, ESP water and sanitation specialists conducted a water supply assessment in Bantul, Sleman, and Yogyakarta Municipality. The piped water supply in Bantul District was badly affected by the earthquake, with 10 out of 13 deep wells not functioning due to electricity failure or damage. In Yogyakarta Municipality, only 2 of 35 deep wells in Yogyakarta were not functioning due to electricity failure, and repair of pipe leaks and other minor damages were on-going. There is some concern that shallow wells reportedly have dried up due to shifts in the aquifer. The water supply system in Sleman was functioning normally. As a result of this assessment, ESP plans to provide technical support to the Bantul municipal water company to repair damage and resume –and then expand – water delivery to the people of Bantul. Additionally, ESP conducted a sanitation assessment in Yogyakarta Municipality. Within days after the earthquake there was a ten-fold increase in solid waste volume in hospitals, as reported by the Dinas Lingkungan Hidup (District Environment Institution). Medical waste continued to be treated by incinerators at each hospital. The incinerator in Surosutan village, with capacity of 3.5 cubic meters, was heavily damaged. Clearing of debris has been difficult due to the lack of equipment, and human resources.



MAP BY NOFALDI, ESP YOGYAKARTA/CENTRAL JAVA

**Earthquake affected areas and estimated eruption of Mt. Merapi in Yogyakarta and Central Java.**



ONI AFGHONI, ESP YOGYAKARTA/CENTRAL JAVA

**ESP staff members are conducting water supply assessment in Bantul municipal water company following the earthquake.**

ESP also supported earthquake relief coordination through the development and distribution of a series of Earthquake Quick Response Base Maps. The series includes a base map at 1:100,000 scale for the entire region, as well as at 1:50,000 scale maps for the most effected districts of Bantul and Klaten. These maps provide information on roads, administrative boundaries down to the sub-village (dusun) level, areas of high population density and areas impacted by the earthquake.

These maps have quickly become primary base maps for GOI agencies, international and domestic NGOs, US and other military medical operations, and the emerging UN

Information Management Unit. More than 60 sets of maps and 100 CD-ROMs with the maps were distributed by June 3. The maps are being used for general coordination meetings, daily sector coordination meetings, emergency medical treatment provision, and Ministry of Health mobile clinic and immunization program coordination.

As earthquake relief and recovery transitions to reconstruction, ESP looks forward to working with USAID partners from the BHS and Education programs on an integrated program of human services support in Jogonalan sub-district, Klaten. ESP has conducted a site visit to Jogonalan, visiting schools and preparing a map that shows the location of USAID's DBE (Decentralized Basic Education) supported schools. ESP is now working with the DBE programs to integrate ESP technical assistance in health and hygiene behavior change, water and sanitation, and watershed management and biodiversity conservation into integrated activities for primary and middle schools in Jogonalan. It is expected that USAID BHS partners (Aman Tirta Safe Water System and Health Services Program) will also be involved in this.



PHOTO BY DON BASON

**Children of an elementary school in Jogonalan, Klaten, Central Java are temporarily studying under a tent provided by USAID.**

In addition to the earthquake, the provinces of Central Java and Yogyakarta have also been coping with increased volcanic activity of Mt. Merapi, which has been at its highest alert level

for over one month. Mt. Merapi has been spewing out lava, pyroclastic flows and ash, causing over 20,000 people to evacuate their homes in a 4-5 kilometer radius around the volcano. In early May, water and sanitation specialists conducted a rapid assessment of the eight largest temporary shelters to identify problems and make recommendations to improve clean water, sanitation, solid waste and drainage. ESP's GIS specialist also worked closely with American scientists from the United States Geological Survey (USGS) to prepare critically needed maps of the volcanic hazard zones and estimate affected populations residing in these zones. These maps proved to be instrumental to scientists studying Merapi as well as local government agencies and international relief agencies that coordinated the evacuations of affected populations.

ESP is saddened by the destruction and loss of life wrought by the May 27 earthquake, especially as a number of ESP's own staff lost homes and loved ones in this disaster. ESP is pleased that we were able to bring our expertise in water and sanitation as well as mapping and GIS to help make a difference to the lives of those affected by the earthquake and ongoing activity of Mount Merapi, and we look forward to working with our USAID partners and others through the reconstruction process.



## SECTION I

# INTRODUCTION AND SUMMARY

## INTRODUCTION

*USAID's Environmental Services Program (ESP) promotes better health through improved water resources management and expanded access to clean water and sanitation services.*

This Quarterly Progress Report for ESP is submitted to the United States Agency for International Development (USAID) by Development Alternatives, Inc. (DAI) in accordance with Article II, Section G, Reports (as modified) of Contract No. 497-M-00-05-00005-00, originally executed January 11, 2005. This document represents Quarterly Progress Report No. 5 of the Environmental Services Program, for the period April 1 through June 30, 2006. This report provides information on the execution of program activities in the regions covered by ESP. Copies of this report are also provided to Government of Indonesia steering committee members, other relevant programs of USAID, as well as subcontractors and partners of the ESP Program per the distribution list attached to the transmittal letter.

Section I of this report provides the reader with an executive-style summary of the program and its achievements from April 1 through June 30, 2006, and contains the following sections:

- Section I.1**    **ESP Overview**
- Section I.2**    **Summary of Quarterly Achievements**

## BAGIAN I

# PENGANTAR DAN RINGKASAN

## PENGANTAR

*Environmental Services Program (ESP, Program Layanan Jasa Lingkungan) USAID mendorong tercapainya kesehatan yang lebih baik melalui perbaikan pengelolaan sumber daya air dan perluasan akses untuk memperoleh layanan sanitasi dan air bersih.*

*Laporan Kemajuan Triwulan untuk ESP ini disampaikan oleh Development Alternatives, Inc. kepada United States Agency for International Development berdasarkan Pasal II, Bab G, Laporan-Laporan (sesuai revisi) dari Kontrak No. 497-M-00-05-00005-00, tertanggal 11 Januari 2005. Dokumen ini merupakan Laporan Kemajuan Triwulan No. 5 dari Environmental Services Program untuk periode 1 April sampai 30 Juni 2006. Laporan ini memberikan informasi pelaksanaan program di berbagai daerah kerja ESP. Salinan laporan ini juga disampaikan kepada anggota komite pengarah dari Pemerintah Indonesia, program USAID lain yang terkait, dan juga bagi subkontraktor dan mitra Program ESP, sesuai daftar distribusi yang dilampirkan pada surat pengiriman.*

*Bagian I dari laporan ini berisi ringkasan eksekutif mengenai program dan keberhasilan pencapaiannya dari 1 April sampai 30 Juni 2006.*

- Bagian I.1**    **Sekilas ESP**
- Bagian I.2**    **Ringkasan Keberhasilan Pencapaian Triwulan Ini**

Section 2 describes integrated program activities in each region in greater detail. The final two sections provide an update on national initiatives and program management (Section 3), and program monitoring and evaluation (Section 4).

*Bagian 2 menjelaskan aktivitas program terpadu di masing-masing wilayah secara lebih terperinci. Dua bagian selanjutnya memberikan informasi terbaru mengenai inisiatif-inisiatif nasional dan manajemen program (Bagian 3), dan pemantauan serta evaluasi program (Bagian 4)*

**SECTION I.1.**

## ESP OVERVIEW

### THE ENVIRONMENTAL SERVICES PROGRAM

ESP works with government, private sector, NGOs, community groups and other stakeholders to improve the management of water resources and broaden the distribution of safe water to urban dwellers by strengthening watershed management and delivery of key environmental services, including clean water supply, wastewater collection and treatment and solid waste management in Indonesia. The period of the project is from December 2004 through September 2009 including an initial transition from previous programs.

ESP is a five-year project which was developed by USAID/Indonesia to improve sustainable management of water resources and improve access to clean water. ESP activities are focused on nine High Priority Integrated Provinces: Nanggroe Aceh Darussalam, North Sumatra, West Sumatra, East Java, Central Java/Yogyakarta, West Java/Banten and DKI Jakarta. ESP also supports a limited set of activities in four Special Concern Imperative Areas: Balikpapan, Manado, Manokwari and Jayapura. This initiative supports activities in the following three key areas:

- Improving health by increasing access to clean water and sanitation services;
- Improved watershed management and protection of water resources;
- Increasing the production and distribution of clean water.

**BAGIAN I.1.**

## SEKILAS ESP

### ENVIRONMENTAL SERVICES PROGRAM (PROGRAM LAYANAN JASA LINGKUNGAN)

*ESP bekerja sama dengan pemerintah, sektor swasta, LSM, kelompok masyarakat dan para pemangku kepentingan lainnya untuk meningkatkan pengelolaan sumber daya air dan memperluas distribusi air yang aman untuk penduduk perkotaan melalui perbaikan pengelolaan daerah aliran air sungai dan penyediaan jasa lingkungan, termasuk pasokan air bersih, penampungan serta pengolahan air limbah dan pengelolaan limbah padat di Indonesia. Periode pelaksanaan proyek ini adalah sejak Desember 2004 sampai September 2009 yang juga meliputi masa transisi awal dari program sebelumnya.*

*ESP adalah proyek lima tahun yang dikembangkan USAID/Indonesia untuk meningkatkan pengelolaan sumber daya air yang berkelanjutan dan memperbaiki akses terhadap air bersih. Kegiatan ESP difokuskan pada sembilan provinsi utama: Nanggroe Aceh Darussalam, Sumatra Utara, Sumatra Barat, Jawa Timur, Jawa Tengah/DI Yogyakarta, Jawa Barat/Banten dan DKI Jakarta. ESP juga mendukung beberapa kegiatan terbatas di empat Wilayah Perhatian Khusus: Balikpapan, Manado, Manokwari dan Jayapura. Program ini menjalankan kegiatan dalam tiga bidang utama berikut ini:*

- *Meningkatkan kesehatan dengan memperluas jangkauan layanan sanitasi dan air bersih;*
- *Meningkatkan pengelolaan daerah aliran sungai dan perlindungan sumber daya air;*
- *Meningkatkan produksi dan distribusi air bersih.*

The ESP program provides technical assistance and related services to impact USAID's **Strategic Objective No. 2, Higher Quality Basic Human Services Utilized (BHS)**.

BHS focuses on the interdependence of health and the environment and their impact on health outcomes. To achieve this, USAID will increase access and utilization of key health and environmental services, particularly to users currently underserved or not served at all.

### OBJECTIVES OF THE ESP PROGRAM

In accordance with Section C of the Contract, ESP will work with the Government of Indonesia, the private sector, NGOs, community groups and other stakeholders to strengthen watershed management and the key environmental services through four interrelated project objectives:

1. Strengthen the capacity of communities, governments, the private sector, local institutions, and NGOs to advocate for expanded delivery of key environmental services through improved water resources and protected areas management;
2. To expand opportunities for communities, NGOs, private sector and universities to participate more effectively in local management of water resources and delivery of key environmental services;
3. To strengthen biodiversity conservation through improving understanding and appreciation for the linkage between protected and forested areas and the delivery of key environmental services; and
4. To improve health and livelihoods of Indonesians through improved and expanded access to key environmental services (namely water supply, wastewater collection and treatment, and solid waste management) through

*Program ESP menyediakan bantuan teknis dan pelayanan yang terkait guna memenuhi Tujuan Strategis No. 2 USAID yakni Pelaksanaan Layanan Kebutuhan Dasar Manusia dengan Kualitas yang Lebih Tinggi (Higher Quality Basic Human Services Utilized - BHS). BHS memusatkan perhatian pada interaksi saling tergantung antara lingkungan dan kesehatan serta dampaknya terhadap tingkat kesehatan masyarakat. Untuk mencapai hal ini, USAID akan meningkatkan akses dan pemanfaatan layanan-layanan pokok lingkungan dan kesehatan, khususnya bagi masyarakat yang kurang terlayani atau sama sekali belum merasakan layanan tersebut.*

### TUJUAN PROGRAM ESP

*Merujuk pada Bagian C dalam kontrak, ESP akan membina kerja sama dengan Pemerintah Indonesia, sektor swasta, LSM, kelompok masyarakat dan para pemangku kepentingan lainnya untuk memperbaiki pengelolaan daerah aliran sungai dan layanan pokok lingkungan melalui empat tujuan proyek ini yang semuanya saling berhubungan:*

1. *Memperkuat kapasitas masyarakat, pemerintah, sektor swasta, institusi lokal, dan LSM dalam mendukung perluasan layanan pokok lingkungan melalui peningkatan pengelolaan sumber daya air dan kawasan yang dilindungi;*
2. *Memperluas kesempatan bagi masyarakat, LSM, sektor swasta dan universitas untuk berpartisipasi secara lebih efektif dalam pengelolaan lokal untuk sumber daya air dan pemenuhan layanan pokok lingkungan;*
3. *Memperkokoh pelestarian keanekaragaman hayati melalui peningkatan pemahaman dan penghargaan terhadap keterkaitan antara kawasan lindung dan kawasan hutan serta pemenuhan layanan pokok lingkungan; dan*
4. *Meningkatkan kesehatan dan mata pencaharian penduduk Indonesia melalui perbaikan serta perluasan akses terhadap layanan pokok lingkungan (yakni air, penampungan dan pengolahan air limbah, serta pengolahan limbah padat) dengan*

the use of appropriate technologies, innovative financing, environmentally sustainable best practices, and sustainable market oriented activities.

ESP largely takes a community-based approach, acting as a catalyst for improving health and hygiene behavior change, stimulating better land stewardship, and improving the provision of basic water and sanitation services.

Central to the above-described program is a coordinated, collaborative and integrated approach involving all of the programs of the Basic Human Services Offices of USAID. In order to more effectively impact the success rate of BHS programs, strong efforts are being made to assure as much synergy within the program as possible. ESP is committed to work closely with and in parallel to other relevant BHS programs such as, but not limited to:

- The Health Services (HSP) Program (Maternal, Neo-natal and Child Health)
- The Food Security and Nutrition Programs (food assistance)
- The Safe Water Systems (SWS) Project (aka Aman Tirta)

In addition, the ESP program is collaborating very closely with other relevant programs of related USAID Strategic Objectives, such as the Local Governance Support Program (LGSP), the Decentralized Basic Education Programs (DBE 1, 2 & 3), and the Aceh Technical Assistance Recovery Program (A-TARP).

*memanfaatkan teknologi yang tepat, pendanaan yang inovatif, praktek-praktek terbaik yang berkelanjutan secara lingkungan dan kegiatan berorientasi pasar yang berkelanjutan.*

*ESP terutama mengambil pendekatan berbasis masyarakat, bertindak sebagai katalis untuk meningkatkan perubahan perilaku kesehatan dan kebersihan, mendorong pengelolaan lahan yang lebih baik, dan memperbaiki penyediaan layanan dasar untuk air dan sanitasi.*

*Yang menjadi pokok bagi program-program di atas adalah pendekatan terkoordinasi, kolaboratif dan terpadu dengan melibatkan semua program dari Basic Human Services Offices (Kantor Layanan Kebutuhan Dasar Manusia) USAID. Agar program-program BHS bisa lebih berhasil dan berdampak efektif, telah dilakukan banyak upaya untuk mencapai sinergi setinggi mungkin antara program-program ini. ESP memiliki komitmen untuk bekerja sama dengan erat dan paralel dengan program BHS lain yang terkait, antara lain—namun tidak terbatas pada—program tersebut di bawah ini:*

- *The Health Services Program (HSP, Program Layanan Jasa Kesehatan) – Kesehatan Ibu, Bayi dan Anak*
- *The Food Security and Nutrition Programs (Program Keamanan Pangan dan Gizi) – bantuan pangan*
- *Safe Water Systems (SWS) Project (atau dikenal juga dengan nama Aman Tirta)*

*Selain itu, program ESP juga bekerja sama erat dengan program-program relevan lainnya dari Sasaran-Sasaran Strategis USAID, seperti Local Governance Support Program (LGSP, Program Dukungan Tata Kelola Pemerintah Lokal), the Decentralized Basic Education Programs (DBE 1, 2 & 3, Program Pendidikan Dasar Terdesentralisasi), dan the Aceh Technical Assistance Recovery Program (A-TARP, Program Bantuan Teknis Pemulihan Aceh).*

## SECTION 1.2.

# SUMMARY OF QUARTERLY ACHIEVEMENTS

## INTRODUCTION

Section 1.2 provides a brief summary of quarterly activities and achievements in each of the High Priority Provinces during this reporting period. Notable activities for the period are also presented for the Special Concern Imperative Areas, National Initiatives, and Program Management.

## REGIONAL HIGHLIGHTS

**Nanggroe Aceh Darussalam.** ESP is working hard to support BRR's theme of "Building Back Better." Whether it is rehabilitating coastal landscapes and watersheds, improving the effectiveness and efficiency of PDAMs, providing new concepts in wastewater collection and treatment, or promoting healthier behavioral patterns in resettlement communities, the Environmentally Sound Design and Implementation component of ESP's work in Aceh is assuring better quality control and improved living environment for the people.

*Reconstructing a River.* At the mouth of the Krueng Lageun River lies the village of Sawang, approximately 40 kms north of Calang in the district of Aceh Jaya. This area was devastated by the tsunami, however, now with the help of ESP the local residents are creating nurseries with a variety of appropriate seedlings for replanting along the banks of the river. The nurseries will contain some 20,000 seedlings and over 1,300 trees have been planted to date.

## BAGIAN 1.2.

# RINGKASAN KEBERHASILAN PENCAPAIAN TRIWULAN INI

## PENGANTAR

*Bab 1.2 memberikan ringkasan kegiatan dan keberhasilan pencapaian di masing-masing Provinsi Utama dalam periode pelaporan ini. Kegiatan-kegiatan yang menonjol pada periode ini untuk Wilayah Perhatian Khusus, Inisiatif Nasional, dan Pengelolaan Program juga turut dipaparkan.*

## SOROTAN WILAYAH

**Nanggroe Aceh Darussalam.** ESP bekerja keras untuk mendukung tema BRR yakni "Membangun Kembali dengan Lebih Baik." Baik dalam upaya merehabilitasi lingkungan pantai dan daerah aliran sungai, memperbaiki efektivitas dan efisiensi PDAM, memberikan konsep-konsep baru dalam penampungan dan pengolahan air limbah, maupun mendorong dilakukannya pola-pola perilaku yang lebih sehat dalam kelompok masyarakat yang dimukimkan kembali, komponen Perancangan dan Pelaksanaan Berwawasan Lingkungan yang tercakup dalam pekerjaan ESP di Aceh memastikan tercapainya kontrol kualitas yang lebih baik dan perbaikan lingkungan kehidupan bagi masyarakat.

*Merekonstruksi Sungai.* Di muara sungai Krueng Lageun terletak desa Sawang, kira-kira 40 km di utara Calang, Kabupaten Aceh Jaya. Wilayah ini hancur dilanda tsunami, namun dengan bantuan ESP, saat ini warga telah membuat pembibitan berbagai jenis tanaman yang sesuai untuk penanaman kembali pepohonan di sepanjang bantaran sungai. Pembibitan ini akan berisi sekitar 20.000 bibit pohon dan lebih dari 1.300 pohon telah ditanam sampai saat ini.

*Siron II Water Treatment Plant.* ESP has assisted PDAM Tirta Montala in determining how to charge, and how much to charge, for water collected by UNICEF and delivered to the 22 Temporary Living Centers (TLCs) who are beginning to receive piped water from the PDAM. By doing so, the PDAM is undertaking more responsible management of the supply and distribution of water, which will help them transition to an independent provider of piped water supply to the resettlement communities in Aceh Besar.

*Sustainable Sanitation.* One of the problems ESP has come across in Aceh (both pre- and post-tsunami) is the practice of providing simple soak pits for human wastewater effluent in most houses. The problems associated with these vertical, bottomless cement concrete pipe sections sunk into the ground include seepage of untreated wastewater into shallow groundwater supplies, and or overflow of these tanks into nearby surface water.

To solve this problem, ESP has introduced multiple-house wastewater garden techniques, with associated subsurface wetlands which ostensibly provide, at a very reasonable price, tertiary treatment of wastewater. Numerous NGO's and government bodies have approached ESP to replicate these elsewhere, but ESP is providing only constructed demonstration systems and technical assistance so that donors can build and pay for their own wastewater garden systems in their new housing resettlement areas. ESP also conducted hugely successful “Sustainable Sanitation Systems Workshops” so that other development partners in Aceh could utilize the same basic technology. This further contributed to our Environmentally Sound Design & Implementation mandate.

*Other Activities.* Other activities in Aceh undertaken during this period included: Additional nurseries in the Krueng Aceh Watershed; Corporate planning, census

Fasilitas Pengolahan Air Siron II. ESP telah membantu PDAM Tirta Montala dalam menentukan cara dan jumlah penagihan untuk air yang dikumpulkan oleh UNICEF dan disalurkan ke 22 Hunian Sementara (Huntara) yang saat ini mulai menerima air pipa dari PDAM. Dengan melakukan hal ini, PDAM menjalankan pengelolaan pasokan dan distribusi air secara lebih bertanggung jawab, yang akan membantu mereka melakukan peralihan menjadi penyedia pasokan air pipa ke masyarakat-masyarakat yang telah dimukimkan kembali di Aceh Besar.

Sanitasi Berkelanjutan. Satu masalah yang dihadapi ESP di Aceh (baik sebelum maupun sesudah tsunami) adalah praktek penggunaan jamban lubang di sebagian besar rumah. Masalah yang timbul karena penggunaan jamban lubang—yang berupa sebuah lubang berdinding pipa semen yang ditanam ke tanah, tanpa diberi penutup di bagian dasarnya—antara lain meresapnya air limbah yang tidak diolah ke sumber air tanah yang dangkal, dan/atau meluapnya jamban-jamban ini ke air tanah permukaan di sekitarnya.

Untuk memecahkan masalah ini ESP telah memperkenalkan teknik taman air limbah (wastewater garden), dengan rawa bawah tanah (subsurface wetlands) yang menyediakan pengolahan lanjutan air limbah dengan biaya yang amat terjangkau. Banyak LSM dan badan-badan pemerintah telah mendekati ESP agar melakukan replikasi proyek ini di tempat lain, tetapi ESP hanya menyediakan sistem percontohan yang telah jadi dan bantuan teknis sehingga lembaga donor dapat membangun dan membiayai sendiri sistem taman air limbah di wilayah perumahan permukiman kembali mereka. ESP juga telah menjalankan “Sustainable Sanitation Systems Workshops” (Lokakarya Sistem Sanitasi Berkelanjutan) sehingga para mitra pembangunan di Aceh dapat mempergunakan teknologi dasar yang serupa. Hal ini turut memberikan sumbangan lebih jauh dalam mandat Environmentally Sound Design & Implementation (Rancangan dan Implementasi Berwawasan Lingkungan).

Kegiatan Lainnya. Kegiatan lainnya di Aceh yang dilaksanakan dalam periode ini antara lain: Pembibitan tambahan di Daerah Aliran Sungai Krueng Aceh; Perencanaan usaha, penilaian

assessments, field water quality testing, and completion of standard operating procedures for three PDAMs in the region.

**North Sumatra.** Partnerships with community organizations are beginning to yield serious results in urban areas of Medan. Some communities are getting piped water for the first time in their history. In another area of Medan, hundreds of residents have mobilized to eliminate the poor behavior of dumping trash along the riverbank. ESP has been the catalyst for trash collection, plastic recycling, composting, urban gardening, as well as introducing health & hygiene behavior change in the neighborhoods.

*Hybrid Community Water Systems.* Together with a women's action group, ESP worked with the local PDAM to develop a 'hybrid' clean water system which will supply piped water to three standpipes, with the community organizing distribution, payment collection, and subsequent payment to the PDAM. Combining fiscal responsibility of the community with affordable clean water from the PDAM is proving extremely successful.

*Cross-learning and Sharing Capacities across Urban ESP Sites.* Communities in North Sumatra learning about solid waste management and recycling benefited by visiting a successful ESP Partner in the Bandung area, Warga Peduli Lingkungan (WPL). These communities with NGOs such as Bis Peduli then assist other communities in their areas to do likewise, thus rolling out and ramping up the effectiveness of the program.

*Collaborative Forest Management Agreement.* ESP helped facilitate a management agreement between provincial authorities and a local NGO to manage and preserve 500 hectares of Mangrove forests near the mouth of the Wampu River. This 10-year agreement will serve ecological, biodiversity and hydrological functions, as well as giving the local

sensus, pengujian kualitas air lapangan, dan penyelesaian prosedur pelaksanaan standar untuk tiga PDAM di wilayah ini.

**Sumatra Utara.** Kemitraan dengan organisasi-organisasi kemasyarakatan mulai memberikan hasil yang serius di wilayah-wilayah pemukiman di Medan. Sejumlah wilayah mulai mendapatkan air leding untuk pertama kalinya dalam sejarah mereka. Di wilayah Medan yang lain, ratusan warga telah digerakkan untuk menghilangkan kebiasaan buruk yakni membuang sampah di bantaran sungai. ESP telah menjadi katalis untuk program pengumpulan sampah, daur ulang plastik, pengomposan, taman perkotaan, dan juga pengenalan perubahan perilaku kesehatan dan kebersihan di lingkungan warga.

*Sistem Air Gabungan Masyarakat.* Bersama-sama dengan kelompok kerja wanita, ESP bekerja sama dengan PDAM setempat untuk mengembangkan sistem air bersih 'gabungan' yang akan memasok air pipa ke tiga tempat penampungan, dan masyarakat yang mengelola distribusi, penarikan tagihan, dan penyerahan pembayaran ke PDAM. Menggabungkan tanggung jawab keuangan warga dengan air bersih yang terjangkau dari PDAM terbukti merupakan hal yang amat berhasil.

*Silang belajar dan Berbagi Kapasitas antara lokasi-lokasi ESP Perkotaan.* Kelompok-kelompok masyarakat di Sumatra Utara mendapat manfaat dengan belajar mengenai pengelolaan sampah padat dan daur ulang dengan mengunjungi Mitra ESP yang berhasil di wilayah Bandung yakni Warga Peduli Lingkungan (WPL). Kelompok-kelompok masyarakat ini, bersama-sama LSM seperti Bis Peduli selanjutnya membantu kelompok-kelompok masyarakat lainnya di wilayah mereka untuk melakukan hal yang serupa, sehingga dapat menggulirkan dan meningkatkan efektivitas program tersebut.

*Perjanjian Pengelolaan Hutan Kolaboratif.* ESP membantu memfasilitasi sebuah perjanjian pengelolaan antara pihak pemerintah provinsi dengan sebuah LSM lokal untuk mengelola dan merawat 500 hektar hutan Mangrove di dekat muara Sungai Wampu. Perjanjian 10 tahun ini meliputi program-program ekologi, keaneka-

communities a stake in the preservation of this area.

*Other Activities.* The monitoring and evaluation technique of Longitudinal Studies and Video Documentation continued this period and will be updated for review on a six-month basis. A cross visit took place between farmer from Aceh visiting their counterparts in North Sumatra to learn more about ecological rice production. Also, an efficiency audit and customer satisfaction survey was completed for PDAMs in Karo and Langkat. Cooperation was established between ESP and the Mayor of Sibolga. A number of successful grant proposals were selected (8 of 23 proposed) covering all aspects of ESP work.

**West Sumatra.** Despite curtailing activities and scaling down the size of the team in West Sumatra, ESP has been very active in the watersheds of the greater Padang area. Tangible activities included community tree nurseries, Farmer Field Schools, ecological agro-forestry field trails, as well as regular watershed management forum meetings.

*Forum PEDAS Multi-stakeholder Forum.* The Forum PEDAS, a community-based network which spans three major watersheds in Padang municipality, has proven to be a very effective integration vehicle implementing a large variety of ESP activities. Some of the Forum PEDAS activities included media campaigns, health & hygiene behavior change, safe water system activities, 'Clean and Green' city campaigns, community tree nurseries, Farmer Field Schools, ecological rice planting and roadside tree planting.

*Tahura Bukit Barisan.* A series of activities centered on collaboration with the Tahura (Great Park) Bukit Barisan and the Barisan Conservation Area. Earth Day celebrations with students, workshops on water resource conservation, and tree planting campaigns were among the activities carried out.

ragaman hayati, serta hidrologi, dan juga memberikan kesempatan bagi masyarakat lokal untuk turut menjalankan program pelestarian di wilayah ini.

*Kegiatan Lainnya.* Teknik pemantauan dan evaluasi secara Penelitian Longitudinal dan Dokumentasi Video terus dilanjutkan pada periode ini dan akan diperbarui untuk ditinjau setiap enam bulan sekali. Sebuah kunjungan silang dilakukan antara para petani dari Aceh yang mengunjungi rekan-rekan mereka di Sumatra Utara untuk belajar lebih banyak mengenai produksi beras berwawasan lingkungan. Selain itu, sebuah audit efisiensi dan survei kepuasan pelanggan telah diselesaikan untuk PDAM di Karo dan Langkat. Kerja sama antara ESP dan Walikota Sibolga telah dibentuk. Sejumlah proposal hibah berhasil terpilih (8 dari 23 proposal) yang meliputi semua aspek pekerjaan ESP.

**Sumatra Barat.** Sekalipun adanya pemendekan program dan pengurangan besarnya tim di Sumatra Barat, ESP telah berperan amat aktif dalam pengelolaan daerah aliran sungai di wilayah Padang raya. Aktivitas-aktivitas yang tampak nyata antara lain pembibitan pohon oleh masyarakat, Farmer Field School (Sekolah Lapangan untuk Petani), jejak lapang wanatani ekologis, dan juga rapat berkala forum pengelolaan daerah aliran sungai.

Forum multipihak 'Forum PEDAS'. Forum Pedas, jaringan berbasis masyarakat yang meliputi tiga daerah aliran sungai utama di kota Padang, telah terbukti merupakan wahana integrasi yang amat efektif dalam melaksanakan berbagai jenis kegiatan ESP. Sejumlah aktivitas Forum PEDAS antara lain kampanye media, perubahan perilaku kesehatan dan kebersihan, aktivitas Aman Tirta, kampanye kota 'Bersih dan Hijau', pembibitan pohon oleh masyarakat, Sekolah Lapangan Pertanian, penanaman padi berwawasan lingkungan dan penanaman pohon di sepanjang tepian jalan.

Tahura Bukit Barisan. Serangkaian kegiatan telah dijalankan yang berpusat pada kolaborasi dengan Tahura (Taman Hutan Raya) Bukit Barisan dan Wilayah Konservasi Barisan. Perayaan Hari Bumi dengan para siswa sekolah, lokakarya mengenai konservasi sumber daya air, dan kampanye penanaman pohon merupakan beberapa di antara kegiatan yang dijalankan.

*Other Activities.* Other highlights of this quarter in West Sumatra included three corporate plans for PDAMs, a grant for ‘Women and Environmental Sanitation,’ study tour to Malaysia for wastewater collection and treatment, watershed management training of trainers site selected, and public outreach campaigns.

**West Java.** The myriad activities being carried out in West Java, featuring virtually all aspects of ESP programs, were characterized this quarter by integration and efficiencies gained by designating a full time regional coordinator and by establishing a fully-functional Bandung office. Emphasis was placed on the integration of activities between the upstream and downstream areas in the watersheds surrounding Subang and Cianjur, as well as work in and around the greater Bandung region.

*Cikundul and Cilaku Rivers – Watershed Management in Cianjur.* Training was conducted in planting nurseries, proper selection of trees and site assessments for farmers to improve land stewardship and protect water sources and forests of high biodiversity value.

*Land Rehabilitation with NGO MAPAS.* Land rehabilitation over hundreds of hectares utilizing thousands of seedlings was carried out with MAPAS and the local communities in villages around the Subang area.

*Non-revenue Water Reduction.* NRW programs were carried out in cooperation with the PDAMs of Kota Bandung, Kota Sukabumi and Kabupaten Sukabumi.

*Water Access for the Poor.* A survey focused on 275 public water taps and 25 non-PDAM clean water supply services in Bandung City, in collaboration with the USAID/RDM project, ECO-Asia.

*Kegiatan Lainnya.* Sorotan lainnya pada triwulan ini di Sumatra Barat antara lain penyusunan rencana-rencana perusahaan untuk tiga PDAM, pemberian hibah untuk ‘Perempuan dan Sanitasi Lingkungan,’ kunjungan studi ke Malaysia untuk penampungan dan pengolahan air limbah, pelatihan untuk melatih pengelolaan daerah aliran sungai di wilayah yang terpilih, dan kampanye jangkauan publik.

**Jawa Barat.** Berbagai jenis kegiatan yang telah dilaksanakan di Jawa Barat, meliputi nyaris semua aspek program ESP, pada triwulan ini dicirikan dengan integrasi dan efisiensi yang dicapai dengan menunjuk seorang koordinator penuh waktu untuk wilayah ini dan dengan meresmikan sebuah kantor dengan fungsional penuh di Bandung. Penekanan diletakkan pada integrasi aktivitas antara wilayah hulu-hilir di daerah-daerah aliran sungai di sekitar Subang dan Cianjur, dan juga bekerja pada dan di sekitar wilayah Bandung raya.

*Sungai Cikundul dan Cilaku – Pengelolaan Daerah Aliran Sungai di Cianjur.* Pelatihan telah dijalankan dalam penanaman pembibitan, pemilihan pohon secara tepat dan penilaian lokasi untuk petani dalam rangka meningkatkan pengelolaan lahan secara bertanggung jawab dan melindungi sumber-sumber air dan hutan-hutan yang memiliki nilai keanekaragaman hayati yang tinggi.

*Rehabilitasi Lahan dengan LSM MAPAS.* Rehabilitasi lahan seluas ratusan hektar dengan mempergunakan ribuan bibit dilakukan bersama MAPAS dan masyarakat lokal di desa-desa sekitar wilayah Subang.

*Pengurangan Air Tak Tertagih (NRW).* Program NRW dijalankan bekerja sama dengan PDAM Kota Bandung, Kota Sukabumi dan Kabupaten Sukabumi.

*Akses Air untuk Warga Miskin.* Sebuah survei difokuskan pada 275 keran air umum dan 25 pemasok layanan air bersih non-PDAM di Kota Bandung, bekerja sama dengan proyek USAID/RDM, ECO-Asia.

*Grant management.* A grant to promote eco-tourism and education in the Gunung Gede Pangrango area is under way, and two additional grants will come on board in the coming quarter, including community-based solid waste management in Cianjur and in Tamansari Bandung.

*Other Activities.* Also during this period, ESP West Java supported Earth Day activities, workshops for the development of the management plan for DAS Cikundul and Cilaku, as well as household surveys for PDAM in Kota Bandung.

**Central Java & DIY Yogyakarta.** ESP in Yogyakarta was in a position to assist and backstop the US Government's disaster response to the May 27<sup>th</sup> earthquake by providing temporary office space, logistics, supplies and technical assistance in the early days of that disaster. However, we were very careful not to let that work divert us from our obligations to the sites already selected for ESP work in Central Java, such as in Magelang.

*Earthquake Response.* ESP's GIS staff were able to produce a series of 'Quick Response Base Maps' which became the maps of choice for virtually all relief agencies streaming into the disaster area. ESP had already been working the USGS experts on the scene for the nearby volcanic activity at Mt. Merapi. ESP is also working with the USAID DBE projects to upgrade sanitation at several schools in the Kabupaten Klaten area. Additionally, ESP sanitation experts assessed the condition of three hospitals in Yogyakarta.

*Village Facilitators.* In order to ESP to extend its reach and ramp up to higher levels of coverage, it has always been imperative to find way to get other, whether communities, local governments or NGO's, to do our work. In June, ESP provided week-long training to village facilitators in the areas of mapping natural features and built environment in their villages, preparing events and community activities that affect peoples' health, analyzing

Pengelolaan hibah. Sebuah program untuk mendorong wisata lingkungan dan pendidikan di Wilayah Gunung Gede-Pangrango sedang dijalankan dan dua program hibah tambahan akan mulai dijalankan pada triwulan mendatang, termasuk pengelolaan sampah berbasis masyarakat di Cianjur dan di Tamansari, Bandung.

*Kegiatan Lainnya.* Sepanjang periode ini, ESP Jawa Barat juga mendukung aktivitas-aktivitas Hari Bumi, loka karya untuk pengembangan rencana pengelolaan DAS Cikundul dan Cilaku, serta survei rumah tangga untuk PDAM di Kota Bandung.

**Jawa Tengah & DI Yogyakarta.** ESP di Yogyakarta berperan untuk membantu dan mendukung bantuan bencana dari Pemerintah Amerika Serikat untuk gempa bumi 27 Mei dengan menyediakan ruang kantor sementara, logistik, pasokan dan bantuan teknis pada hari-hari awal bencana tersebut. Sekalipun demikian, kami berhati-hati agar tidak membuat kegiatan tersebut mengalihkan kami dari kewajiban untuk bekerja di lokasi-lokasi yang telah dipilih sebagai tempat kerja ESP di Jawa Tengah, seperti di Magelang.

*Tanggap Gempa.* Staf GIS ESP berhasil menyusun serangkaian 'Peta Basis Tanggap Cepat' atau 'Quick Response Base Map' yang menjadi peta yang dipilih oleh hampir semua badan pemberi bantuan yang berdatangan ke wilayah bencana. ESP telah bekerja sama dengan pakar-pakar USGS di lokasi aktivitas vulkanis Gunung Merapi. ESP juga bekerja sama dengan proyek USAID DBE untuk meningkatkan sanitasi pada beberapa sekolah di wilayah Kabupaten Klaten. Selain itu, pakar-pakar sanitasi ESP telah melakukan penilaian terhadap kondisi tiga rumah sakit di Yogyakarta.

*Fasilitator Desa.* Agar ESP dapat memperluas dan meningkatkan jangkauannya, maka ESP selalu perlu untuk bekerja sama dengan pihak lain, baik itu kelompok masyarakat, pemerintah lokal maupun LSM. Pada bulan Juni, ESP memberikan pelatihan satu minggu penuh untuk para fasilitator desa di wilayah-wilayah pemetaan ciri alam dan lingkungan bangunan di desa mereka, mempersiapkan kegiatan-kegiatan dan aktivitas-aktivitas

the human, natural, physical, social and financial resources in their communities, learning group facilitation, public speaking and presentation skills, and learning about ESP's technical and thematic areas.

*Other highlights.* During the period, a small grants workshop was conducted for 60 representatives of 30 local NGOs for possible grant-making activities. A feasibility study for the possible expansion of PDAM Kabupaten Magelang was conducted, as well as technical assistance provided to PDAMs Kota Solo, Yogyakarta, Sleman and Bantul. Tender documents were prepared for Community-based Solid Waste management Assessments for Yogyakarta, Sleman and Magelang, which will be conducted during the coming quarter.

**East Java.** Finally, in East Java, ESP has successfully managed to roll out project activities among community groups in the cities and districts across the Brantas Watershed. On the ground activities in areas such as community-based solid waste management and health & hygiene behavior change have been conducted by NGO's, and local community organizations, women's groups and youth groups, while at the same time considerable political support has been engendered across 14 local government jurisdictions within the DAS Brantas to coordinate and cooperate with respect to land and water management.

*Forest Restoration.* Working with 12 communities in the Sumber Brantas sub-catchment area, ESP has managed to impact about 2,700 hectares of degraded land to become a forest buffer to protect the Tahura Raden Soerya, a biodiversity-rich protected forest.

*Anchor Program in Temas Village.* A multitude of activities have been taking place in Temas, and the most significant this quarter was the completion of a 'constructed wetland' which will treat domestic effluent from 110 households as well as 33 cottage-industry

*masyarakat yang mempengaruhi kesehatan masyarakat, menganalisis sumber daya manusia, alam, fisik, sosial dan keuangan dalam kelompok belajar masyarakat terfasilitasi mereka, kemahiran berbicara di muka umum dan presentasi, dan belajar mengenai bidang-bidang teknis dan tematis ESP.*

*Sorotan lainnya.* Selama periode ini, sebuah lokakarya dengan dana hibah kecil dijalankan untuk 60 perwakilan dari 30 LSM lokal untuk kemungkinan dijalankan aktivitas pemberian hibah. Sebuah studi kelayakan untuk kemungkinan perluasan PDAM Kabupaten Magelang telah dijalankan, demikian juga dengan bantuan teknis yang disediakan bagi PDAM Kota Solo, Yogyakarta, Sleman dan Bantul. Dokumen-dokumen tender telah dipersiapkan untuk Penilaian Pengelolaan Sampah Berbasis Masyarakat bagi Yogyakarta, Sleman dan Magelang, yang akan dijalankan sepanjang triwulan yang akan datang.

**Jawa Timur.** Akhirnya, di Jawa Timur, ESP telah berhasil menjalankan aktivitas-aktivitas proyek di berbagai kelompok masyarakat di kota-kota dan kabupaten di sepanjang Daerah Aliran Sungai Brantas. Aktivitas dalam bidang-bidang seperti Pengelolaan Sampah Berbasis Masyarakat serta perubahan perilaku kesehatan dan kebersihan telah dijalankan bersama LSM dan organisasi masyarakat lokal, kelompok wanita dan remaja, dan dalam saat yang bersamaan, dukungan politik yang cukup besar juga telah digalang dari 14 pemerintah lokal di sepanjang DAS Brantas untuk berkoordinasi dan bekerja sama dalam hal pengelolaan tanah dan air.

*Penghutan Kembali.* Bekerja dengan 12 kelompok masyarakat di daerah sub-tangkapan Sumber Brantas, ESP telah berupaya untuk mengubah sekitar 2.700 hektar lahan yang mengalami kerusakan untuk menjadi hutan penyangga bagi Tahura Raden Soerya, sebuah hutan lindung yang kaya keanekaragaman hayati.

*Program Jangkar di Desa Temas.* Sejumlah besar kegiatan telah berjalan di Temas, dan yang paling penting pada triwulan ini adalah penyelesaian sebuah 'rawa buatan' yang akan mengolah limbah domestik dari 110 rumah tangga dan juga 33 usaha kecil pematangan

chicken abattoirs. The sustainability of this method was key, and the significance of the prime economic activity of the community of more than 11,000 people being chicken processing made it an ideal target for health and hygiene behavior change.

*Surabaya Success Stories.* The success of integrated BHS activities in Wonokromo section of Surabaya has had impact in spreading the knowledge and lessons learned of these activities to three other parts of Surabaya, namely Gading, Ketabang, and Semampir. Additionally, local experience has been shared by these communities with other locations in East Java, such as the villages of Dinoyo and Mergosono in Kabupaten Malang.

*Other Activities.* In this quarter, USAID Indonesia programs were reviewed by the OECD, and ESP was one of the programs visited by a delegation during their visit to Surabaya. In the finance sector, PDAM Kota Malang is progressing toward a successful municipal bond issuance, and a BRI micro-credit facility, being assisted by USAID/DCA, has been introduced to PDAMs in five cities in East Java for possible financing of new water connections. Numerous activities have been ongoing with a variety of PDAMs in East Java in the areas of reduction of Non-Revenue Water, operational improvements, water quality management, and customer service improvement.

**Special Concern Imperative Areas.** In Eastern Indonesia, ESP partners with WMD (Water Maatschappij Drenthe), an association of Dutch water companies, for the development of Water Supply in Eastern Indonesia. WMD is collaborating with ESP in Manado and Jayapura, two of ESP's Special Concern Imperative Areas, particularly in the area of improving management and operational efficiencies of the PDAMs in those locations.

*Manado.* In Manado ESP is currently implementing a household census, which is currently 60% completed. In addition to this valuable support to PDAM Manado, ESP also provides support to the Local Government in

*ayam.* Keberlanjutan metode ini merupakan hal yang penting, dan pentingnya aktivitas ekonomi utama di masyarakat yang berjumlah lebih dari 11,000 ini adalah pemrosesan ayam sehingga wilayah ini menjadi sasaran yang ideal untuk perubahan perilaku kebersihan dan kesehatan.

*Kisah Keberhasilan Surabaya.* Keberhasilan aktivitas terpadu BHS di kecamatan Wonokromo di Surabaya telah berdampak dengan menyebarkan pengetahuan dan pelajaran yang diperoleh dari aktivitas-aktivitas ini ke tiga wilayah Surabaya yang lain, yakni Gading, Ketabang, dan Semampir. Selain itu, pengalaman lokal juga telah dibagi oleh masyarakat di wilayah ini ke lokasi-lokasi lain di Jawa Timur, seperti desa-desa di Dinoyo dan Mergosono di Kabupaten Malang.

*Kegiatan Lainnya.* Pada triwulan ini, program-program USAID Indonesia ditinjau oleh OECD, dan ESP merupakan salah satu program yang ditinjau oleh sebuah delegasi sepanjang kunjungan mereka ke Surabaya. Di sektor keuangan, PDAM Kota Malang sedang dalam proses menuju keberhasilan penerbitan obligasi, dan fasilitas kredit mikro BRI, dengan dibantu oleh USAID/DCA, telah diperkenalkan kepada PDAM di lima kota di Jawa Timur untuk kemungkinan pendanaan sambungan-sambungan baru. Berbagai aktivitas telah berjalan dengan PDAM-PDAM di Jawa Timur dalam bidang pengurangan Air Tidak Tertagih, perbaikan operasional, pengelolaan kualitas air, dan perbaikan layanan pelanggan.

**Wilayah Perhatian Khusus.** Di Indonesia Timur, ESP bermitra dengan WMD (Water Maatschappij Drenthe), sebuah asosiasi perusahaan-perusahaan air Belanda, untuk pengembangan Pasokan Air di Indonesia Timur. WMD bekerja sama dengan ESP di Manado dan Jayapura, dua Wilayah Perhatian Khusus ESP, khususnya di bidang perbaikan pengelolaan dan efisiensi operasional PDAM di wilayah-wilayah tersebut.

*Manado.* Di Manado, ESP saat ini sedang menjalankan sensus rumah tangga, yang saat ini telah berjalan 60%. Selain bantuan yang amat bermanfaat bagi PDAM Manado ini, ESP juga memberikan bantuan kepada Pemerintah Lokal

drafting of local regulations on topics of illegal connections, replacement of water meters, etc. for implantation by the local council. WMD will roll this out with other PDAMs in the region, through its newly established PDAM regional training centre in Manado. WMD will cover all training cost for PDAM operators, within their target area, including Manado and Jayapura.

*Jayapura.* In Jayapura, WMD is working with the Local Government to establish a new Joint Venture Company (PT Tirta Mumbai) to essentially corporatize the PDAM. Working out of the ESP office in Jayapura, WMD and the PDAM have identified new water supply sources as well as improving management within the PDAM. With this collaboration, ESP is able to extend its coverage without utilizing excessive resources.

*Balikpapan.* In Balikpapan, ESP is assisting the local government and PDAM to position itself for a municipal infrastructure bond offering. The bond will be on the order of US\$ 10 million, and will fund bulk water supply, watershed reforestation, and creation of an arboretum (protected area) facility in the area.

## NATIONAL AND PROGRAM MANAGEMENT UPDATES

A number of themes and activities span the breadth of the ESP program. Such activities during this quarter included the following:

### **Environmental Finance**

- *Indonesia Water Fund.* The Ministry of Finance is taking an active interest in ESP's plan for the development of a water fund for capital improvements for water utilities. This program will be supported by the USAID's Development Credit Authority as well as other donors

*dalam merancang peraturan daerah mengenai topik-topik seperti sambungan ilegal, penggantian meter air, dll. untuk disahkan oleh dewan perwakilan rakyat lokal. WMD akan melaksanakan hal ini dengan PDAM-PDAM lain di wilayah ini, melalui pusat pelatihan PDAM regional yang baru didirikannya di Manado. WMD akan menutup semua biaya pelatihan bagi para operator PDAM di wilayah target mereka, termasuk Manado dan Jayapura.*

*Jayapura.* Di Jayapura, WMD bekerja dengan Pemerintah Lokal untuk membentuk sebuah Perusahaan Patungan baru (PT Tirta Mumbai) untuk pada dasarnya mengkorporatisasi PDAM. Bekerja dari kantor ESP di Jayapura, WMD dan PDAM telah mengidentifikasi sumber-sumber pasokan air yang baru dan juga meningkatkan pengelolaan pada PDAM. Dengan kolaborasi ini, ESP bisa memperluas jangkauannya tanpa membutuhkan sumber daya yang terlalu banyak.

*Balikpapan.* Di Balikpapan, ESP membantu pemerintah lokal dan PDAM untuk mempersiapkan penawaran obligasi infrastruktur kota. Obligasi ini akan berjumlah sekitar US\$ 10 juta, dan akan mendanai pasokan air jumlah besar, penghutan kembali daerah aliran sungai, dan membentuk sebuah kebun lindung (arboretum) di wilayah tersebut.

## INFORMASI NASIONAL & PENGELOLAAN PROGRAM

Sejumlah tema dan aktivitas mengisi berbagai program ESP. Aktivitas sepanjang triwulan ini antara lain:

### **Pembiayaan Lingkungan**

- *Dana Air Indonesia.* Departemen Keuangan menunjukkan ketertarikan aktif dalam rencana ESP untuk mengembangkan dana air guna memperbaiki permodalan perusahaan utilitas air. Program ini akan didukung oleh Development Credit Authority (Badan Kredit Pembangunan) USAID dan juga donor-donor yang lain.

- *BRI Micro-credit Program.* To enhance the ability of potential water company customers to access the piped water provided by the PDAMs, ESP is working with Bank Rakyat Indonesia to develop micro-credit for poorer household to be able to afford the cost of connection to the system.
- *Payment for Environmental Services.* Pre-bid conference was held for potential grant opportunities for demonstration projects to establish best practice standards for ongoing program in PES.
- *World Bank Output-Based-Aid (OBA) for Surabaya.* With ESP's assistance in Surabaya, the World Bank would like to redirect funds not spent in its Jakarta water programs, to increase the number of connections to the water system in Surabaya. Initial meetings have taken place and plans for this are being developed.

#### **Watershed Management and Biodiversity Conservation**

- *Multi-Stakeholder Watershed Management Planning.* Watershed Management team members from all High Priority Provinces convened in Cianjur, West Java to participate in innovative methods of watershed management planning, to be expanded out to all areas covered by ESP.
- *Biodiversity Conservation management.* An ESP Conservation Assessment and Action Plan was produced this quarter, and unique activities have been initiated across Indonesia to strengthen integrated conservation and development approaches.

#### **Pengelolaan Daerah Aliran Sungai dan Konservasi Keanekaragaman Hayati**

- *Program Kredit-mikro BRI.* Untuk meningkatkan kemampuan pelanggan potensial perusahaan air dalam mengakses air leding yang disediakan oleh PDAM, ESP bekerja sama dengan Bank Rakyat Indonesia untuk mengembangkan kredit mikro bagi rumah tangga yang kurang mampu agar mampu menanggung biaya penyambungan ke sistem pipa air.
- *Pembayaran untuk Jasa Lingkungan.* Rapat pra-tender telah dijalankan untuk peluang potensial pemberian hibah bagi proyek-proyek percontohan untuk membentuk standar praktek terbaik bagi program-program yang berjalan di PES.
- *Output-Based-Aid (OBA, Bantuan Berbasis Keluaran)* oleh Bank Dunia untuk Surabaya. Dengan bantuan ESP di Surabaya, Bank Dunia ingin menyalurkan dana yang tidak terpakai untuk program airnya di Jakarta, untuk menambah jumlah sambungan ke sistem pipa air di Surabaya. Rapat-rapat awal telah dijalankan dan rencana menjalankan hal ini sedang dikembangkan.

- TOT in Watershed management. A twelve-week Training of Trainers course in watershed management methods, as well as numerous other ESP methodologies has been planned to be implemented in Solok, West Sumatra during the next quarter.

#### **Small Grants Program**

Currently, five small grants totaling just over US\$70,000 are underway. More significantly, a total of 27 grant applications are currently being processed and soon an additional US\$ 550,000 in grants will be awarded and implemented. Again, this is to increase the coverage of the work ESP does, and to create capacity for this work to become sustainable in the future.

#### **Public Outreach Multi-Media Campaigns**

This quarter saw the completion of the World Water Day multi-media campaign and the initiation of the next, focusing on Water Resource Protection. Additionally, extensive formative research has been conducted to enable ESP to identify and focus on the areas for which public outreach and communications campaigns will be targeted.

#### **Health and Hygiene Behavior Change**

More than 27 Focus Group Discussions were held around the country in urban, peri-urban and rural communities in all of ESP's high priority province locations. This work will result in along term plan for future health and hygiene behavior change campaigns, and to increase the effectiveness of such programs in actually fomenting change in behavior and attitude in both health and environmental awareness.

For more detailed explanations of the activities and accomplishments of the Environmental Services Program for this quarter, please refer to Section 2 of this report.

- TOT dalam pengelolaan Daerah Aliran Sungai. Pelatihan untuk Pelatih (TOT) sepanjang dua belas minggu untuk metode-metode pengelolaan daerah aliran sungai, dan juga sejumlah metodologi ESP lainnya telah direncanakan untuk dijalankan di Solok, Sumatra Barat sepanjang triwulan mendatang.

#### **Program Hibah Kecil**

Saat ini, lima hibah kecil dengan jumlah total sekitar US\$70,000 sedang berjalan. Yang lebih signifikan, sejumlah 27 usulan hibah saat ini sedang diproses dan tidak lama lagi hibah sejumlah US\$550,000 akan diberikan dan dijalankan. Sekali lagi, hal ini untuk meningkatkan jangkauan apa yang dilakukan oleh ESP, dan untuk membentuk kapasitas agar pekerjaan ini bisa semakin berkelanjutan di masa mendatang.

#### **Kampanye Multimedia Jangkauan Publik**

Triwulan ini merupakan akhir dari kampanye multimedia Hari Air Sedunia dan dimulainya kampanye selanjutnya, berfokus pada Perlindungan Sumber Daya Air. Selain itu, penelitian formatif yang menyeluruh telah dijalankan agar ESP mampu mengidentifikasi dan berfokus pada bidang-bidang yang akan dijadikan target untuk jangkauan publik dan komunikasi.

#### **Perubahan Perilaku Kesehatan dan Kebersihan**

Lebih dari 27 Diskusi Kelompok Fokus telah dijalankan di berbagai tempat di Indonesia, dalam masyarakat perkotaan, pinggiran perkotaan dan pedesaan, di semua provinsi utama ESP. Kegiatan ini akan menghasilkan sebuah rencana jangka panjang bagi kampanye perubahan perilaku kebersihan dan kesehatan, dan untuk meningkatkan efektivitas program semacam itu agar dapat benar-benar menumbuhkan perubahan baik dalam kesadaran kesehatan maupun lingkungan.

Untuk penjelasan mengenai kegiatan-kegiatan dan pencapaian-pencapaian Environmental Services Program (Program Jasa Lingkungan) pada triwulan ini, harap merujuk pada Bagian 2 dari laporan ini.

## SECTION 2

# ESP REGIONAL UPDATES

## INTRODUCTION

In this Section, we present a more detailed account of the Program's activities and achievements during this quarter. This Section is divided into the following Subsections:

- Section 2.1 Nanggroe Aceh Darussalam**
- Section 2.2 North Sumatra**
- Section 2.3 West Sumatra**
- Section 2.4 West Java, Banten & DKI Jakarta**
- Section 2.5 Central Java & DIY Yogyakarta**
- Section 2.6 East Java**
- Section 2.7 Special Concern Imperative Areas**



SECTION 2.1.

# NANGGROE ACEH DARUSSALAM

## INTRODUCTION

**“Building Back Better”** This BRR theme underlies the work of all organizations active in Aceh today. ESP Aceh has responded to this theme in a number of ways. Each of our major component areas has, in some way, worked to make these three words meaningful. The Watershed Management & Biodiversity Team is working on rehabilitating coastal landscapes and watersheds. The Service Delivery Team is focused on PDAMs becoming more effective and efficient organizations. The Environmentally Sound Design component has produced models and designs for systems that promote healthier lives in the new villages that are being built.

## ACTIVITIES IN THE REGION

### Reconstructing a River

Sawang is a village that lies at the mouth of the Krueng Lageun about 40 kilometers north of Calang in the district of Aceh Jaya, on the west coast of Aceh Province. The tsunami wreaked havoc here as it did in all the villages along the coast from Meulaboh to Banda Aceh. Not only was the village laid to ruin, the Krueng Lageun habitat was also severely disrupted throughout the village of Sawang. The beach that guarded the coast was also swept away.



JOHN PONTIUS, ESP BANDA ACEH/NAD

The Sawang nursery.

Since the tsunami, the banks of the river have begun to re-green and the ocean has rebuilt the beach head. However, few trees have reappeared along the Krueng Lageun and the beach. ESP conducted a Sustainable Livelihoods Assessment (SLA) during the previous quarter in Sawang and made important connections with people who have since become leaders in the coastal rehabilitation effort that ESP is facilitating in the village. Suleiman, a village elder, and Unzir, the youth leader of the village, emerged as two people who cared about coastal and riparian habitat and who were willing to commit their energy to rebuilding both.



JOHN PONTIUS, ESP BANDA ACEH/NAD

In the foreground is the Krueng Lagoon. The nursery is in the lower right center. Behind the nursery is the beach that will be planted by casuarina.

Plans were developed with a group of 25 Sawang residents for replanting the coastal area and the banks of the Lagoon, as well as constructing a nursery. Sawang residents are volunteering their labor to these projects and ESP is funding materials. Sawang residents and ESP staff measured out and determined the amount of and kinds of trees to be planted. Villagers selected jaloh trees for planting along the river and made this activity their top priority. Casuarina trees were selected for planting along the beach. The jaloh will develop a massive root system and stabilize the river banks. Plans were made for a nursery that would contain some 20,000 seedlings and a small building for meetings. Construction of the nursery was begun in early June. In mid-June, the jaloh trees were planted along both sides of the river, from the ocean to Sawang's interior border (about 1.8 kilometers). A total of 1,300 trees were planted. Suleiman, along with farmers from other ESP watershed management groups, attended a training in nursery stock propagation in Tanjung Morawa, North Sumatra.

The nursery will soon fill with casuarinas trees and they will be planted out once the rainy season begins. As the leader of the coastal rehabilitation group in Sawang said, "We work together, I don't lead. We'll be successful if we keep on doing so."



JOHN PONTIUS, ESP BANDA ACEH/NAD

Jaloh stakes two weeks after planting.

## **Siron II**

Siron II Water Treatment Plant is one of several facilities operated by Tirta Montala, the local water utility (PDAM) in Aceh Besar. The plant is located on the Krueng Aceh River just outside of the city of Banda Aceh. Built in 2003, the plant was never brought into full operation due to a lack of funding. Following the tsunami in late 2004, UNICEF took on the responsibility for the delivery of over 200 daily tanker shipments of water to over 50 Temporary Living Centers (TLCs) in Banda Aceh and Aceh Besar. Initially, this water was supplied by an expensive reverse osmosis (RO) system contributed by General Electric. While the GE system was critical to meet immediate needs, ESP Aceh documented that this system was not feasible due to high production and maintenance costs. According to the ESP Aceh assessment, the Siron II WTP, a packaged treatment plant, was a more than feasible alternative to the GE system. UNICEF committed to bringing Siron II on line and, in the process, also committed itself to providing a monthly subsidy to the PDAM for the operation of Siron II.

The subsidy was in essence an outright grant to the PDAM that did not take into consideration operational costs or the effective operation of the WTP. This program, now almost a year old, undercuts the ESP goal of encouraging more effective management. The consequences of any management decision are presently not reflected in the receipts of the PDAM. ESP Aceh, the PDAM and UNICEF agreed that a far more suitable policy would be for UNICEF to pay for the water it is shipping to TLCs on a per cubic meter basis, forcing management to be more responsible. As part of this agreement, ESP Aceh committed to determining an appropriate tariff to be paid per cubic meter of water shipped by UNICEF to TLCs. However, there is problem with simply paying for the costs of water tanked to TLCs. Twenty-two TLCs will be receiving water from Siron II via a new pipe system that is now being installed. There will be no meters in this system. Thus any proposed tariff must also cover the cost for water piped to TLCs.

The present tariff assessed consumers in Aceh Besar, on average Rp 1,390 per customer, does not nearly cover the PDAM's operational and management (O&M) costs and depreciation costs. For Siron II, the O&M and depreciation costs are about Rp 1,785/m<sup>3</sup>. Also, any tariff for Siron II water must reflect the cost of water piped directly to TLCs. Thus an additional amount must be charged per cubic meter of water carried by tankers to accommodate the cost of piped water. Thus water requirements for 22 TLCs receiving piped water and its costs were estimated and this cost was calculated into the per cubic meter cost for water to be charged to UNICEF. The tariff for Siron II, according to ESP's assessment should be in the range of Rp 3,614 /m<sup>3</sup>.

By basing its payment to PDAM Aceh Besar on a tariff, UNICEF is encouraging more responsible management of the Siron II installation. By facilitating an agreement between UNICEF and the PDAM on an appropriate tariff for water for TLCs, ESP is contributing to a better and more sustainable PDAM in Aceh Besar.

## **Sustainable Sanitation**

Housing reconstruction efforts have not always embodied sustainable and healthy sanitation systems. The reasons for this are many. Frequently houses are being constructed that rely on what are essentially soak pits for septic tanks allowing septage to filter into the ground water; soak pits are the cheapest alternative. A major complication for true septic tanks is the very high water table in most coastal areas; soak pits are easier to install in this context. Finally, organizations building new housing seem not to have engineers on hand that are experienced in building sanitation systems.

ESP hit a new peak during this quarter in terms of its Environmentally Sound Design and Implementation program. The number of designs produced for people, the numbers of potential beneficiaries and the level of information provided to the community all increased significantly. Reasons for this increase include the fact that enough pilot projects were in the ground to demonstrate viable alternative solutions and key organizations started taking notice of the issue.

By late May 2006, four examples of sub-surface constructed wetlands were in the ground. One of these was a result of ESP collaboration with Mercy Corps based on an ESP design. A second example resulted from a design developed cooperatively between ESP and CARE. The third example was at a request from BRR where a contractor who built seven houses for BRR in Monikun neglected the fact that water flows down hill and put soak pits on ground that was higher than the wells for the houses. ESP put in constructed wetlands below the wells. Finally, a wetland associated with the wastewater garden in Lamkruet was constructed. All of these sites could be used to demonstrate useful approaches to septic system problems.

BRR was also persuaded to support an ESP Aceh initiative to conduct a workshop with the title “Sustainable Sanitation Systems”. Discussions with BRR inspired ESP staff to develop a handbook based on the Public Works Building Code. This handbook examines the building code and provides alternatives for meeting it.

The “Sustainable Sanitation Systems” workshop was conducted three times in Banda Aceh in late May for a total of 83 participants from government and NGOs. The IFRC and Oxfam were so impressed with the workshop and the handbook that they requested ESP to conduct the same workshop for their staff members. The IFRC workshop took place in mid-June and the Oxfam workshop will take place in early July of the next reporting period.

There have been other more concrete results of the workshop. BRR requested concept designs for two villages in Meuraxa sub-district in Banda Aceh. Some 600 households will be impacted by this. The American Red Cross has requested ESP assistance in designing sanitation and water systems for 70 villages that it is reconstructing in Aceh Jaya. Buddha Tzu Chi Foundation (Taiwan) will use ESP designs for a 1,000 house settlement in the Meulaboh area. Finally, an American Red Cross worker has constructed 15 MCKs on Pulau Wei for TLCs.

The Environmentally Sound Design component is playing a key role in reconstruction in Nanggroe Aceh Darussalam.



AART MERKELIJN, ESP BANDA ACEH/ NAD

There were site visits as part of the Sustainable Sanitation System Workshop. In the above photograph participants are observing the Mon Ikeun works.

## OTHER ACTIVITIES

- **Nursery Establishment.** In the watershed of the Krueng Aceh, ESP is assisting three communities, Blanglambaro, Jantho Baru and Jreuk Balee (all of these are in Aceh Besar), to establish nurseries in the context of agro-forestry, land rehabilitation and re-planting of forest species. Along the west coast, nurseries are also being established in Sawang, Kuala Meurisi (Aceh Jaya) and Lamsenia (Aceh Besar). These nurseries will back up the coastal rehabilitation process. An underlying principle related to all of these nurseries is the establishment of community based small businesses. ESP is establishing the nurseries through existing community groups or organizing new groups if necessary. These groups will manage the nurseries. ESP will supply nursery stock which the communities can use for cuttings. The ESP supplied stock will be planted out according to community generated plans. The cuttings can be sold by the community to supply capital for the nursery business. By the end of the quarter the nursery preparations were completed and they were ready for the planting of stock. Farmers from each community also received training in propagation from Kelompok Tani Mas in Deli Serdang, North Sumatra.
- **PDAMs.** Support for the PDAM management programs took several forms during the quarter. Standard Operating Procedures were prepared for Tirta Daroy, Banda Aceh, and Tirta Meureboh, Aceh Barat. In Aceh Besar, ESP has been assisting Tirta Montala with their development of a corporate plan. Middle level managers, two each from Tirta Daroy and Tirta Montala, attended management training in Jakarta for six weeks. The census in Banda Aceh of PDAM customers reached a total of 13,000 households during the quarter. From a more operational perspective, ESP assisted Tirta Daroy and Tirta Montala in establishing field sampling for the water quality management programs in the two PDAMs.
- **Community WatSan Activities.** In Nusa and Lamkruet (Aceh Besar) ESP organized programs for solid waste clean-up. In Nusa, a drawing contest was organized for children with the theme of environmental sanitation. This was a follow-up to hand washing campaigns conducted earlier in co-ordination with CARE and HSP. Nusa residents established Sunday as a weekly clean-up day. In Blang Lambaro, Jantho Baru and Jeruk Balee, residents were assisted in developing plans for clean water systems and sanitation systems. The communities are now ready to begin construction which will be assisted by ESP. ESP began work with DBE I in their school program. ESP has provided training for school planning committees in WatSan assessment for their local schools and in the development of school solid waste programs. ESP followed-up the WatSan assessment program by conducting field assessments in Syah Kuala sub-district in Banda Aceh. ESP will follow-up with four schools in the sub-district. In the Meulaboh region, ESP is working with three Puskesmas to develop “WatSan clinics”. Staff are being trained related to environmental sanitation so that they will be able to assist communities in identifying issues related to clean water, sanitation and solid waste.
- **Environmentally Sound Design and Implementation.** The successful “Sustainable Sanitation Systems” workshop created enough interest that a three week-long e-mail discussion among participants has ensued with ESP continuing to fan the coals.

A clean water delivery system has been designed for CARE in Blang Phon in Saree Aceh, Aceh Besar. The plan is for a system that includes 500 houses. Designs were also completed for an access road to service Siron 2 water treatment plant in Aceh Besar and for a spring-based water distribution system that would supply water to some 500 plus households in Monikun and Lamkruet. This project will involve over six organizations in its implementation with ESP as the coordinating organization. BRR has signed off on this project and the PDAM will commission the system when completed.

## SECTION 2.2.

# NORTH SUMATRA

## INTRODUCTION

**With and through our partners, the benefits begin to flow.** This quarter has been characterized by real activities at community level yielding real results. In several cases within the downstream urban areas of Medan, the benefits have literally *flowed* as new community-based clean water systems brought piped water to several poor riverbank communities for the first time in their history. In another urban location, literally hundreds of residents have organized and mobilized to tackle solid waste in an integrated fashion that includes work on health and hygiene, plastic recycling ‘trash banks’, composting, and urban gardening. In each location, ESP’s work has been accomplished through partnerships with community organizations, NGO’s and public utilities, integration and support from all of ESP’s areas of expertise, and collaboration with other USAID programs.

In upstream areas also, the program is real and on the ground. Farmer Field Schools are in progress in the upper reaches of the Deli River watershed, and farmers have already learned how to greatly reduce the use of costly, risky, poisonous chemicals. ESP supported farmers have also become a learning resource for other regions as farmers from Nanggroe Aceh Darussalam have come to be trained in ecological, non-polluting methods of agriculture.

Upstream and downstream partner linkages continue to be facilitated by the **Jaringan Aksi Sungai Deli** (Deli River Watershed Action Network) which this quarter met in a workshop to produce a draft Watershed Action Plan. The number of synergies and possibilities for collaboration and integration across areas and programs continues to grow in tune with the volume of activities. To further strengthen our network and our activities base, this quarter we processed 8 new Small Grants from a range of NGO’s in the province.

This quarter has also seen **geographic expansion** of the program as work began in Sibolga municipality with the signing of an MOU with a very active PDAM. ESP was also active in LGSP’s priority setting workshop in this city. Currently, the ESP Service Delivery team is working with the Sibolga PDAM on designing the upgrade of their water treatment plant, with all physical construction costs to be borne by the local government. In Langkat in the Wampu watershed, two new small grants for local NGO’s and community group programs are being processed for the upper and middle watersheds respectively; while along the coast ESP has just signed an MOU with the BKSDA, the NGO YARL, and a local community organization for the **Collaborative Management** of 500 hectares of protected mangrove forest.

## ACTIVITIES IN THE REGION

### **Access to clean water for the poor: Hybrid Community Water Systems for Urban Riverbank Communities**

The Sunggal community on the banks of the Belawan River is typical of many dense, poor urban communities in Medan. Many of the 100 families and 337 people in this community,

located on a flood prone river bank, have lived there for more than 20 years. Never have they had access to clean water, using two shallow wells and the heavily polluted river for most of their water and sanitation needs. Only 3 families have toilets. No one has piped clean water, despite the fact that a PDAM treatment plant is located only a few hundred meters upstream. The **Serikat Perempuan Sunggal** (Sunggal Women's Union) arose in 2002 in the wake of a major flood to advocate for better services.

The ESP program worked with the SPS, the NGO *Suluh Muda*, and PDAM Tirtanadi to develop an innovative 'hybrid' clean water system to serve the needs of this community. Local NGO *Suluh Muda* received a *small grant* (\$9,000) from USAID ESP to assist the women of Sunggal in developing a community-based clean water program. ESP facilitated collaboration with the local unit of PDAM

*"We've been waiting a long time to enjoy clean water in this village... from here, we revive!"*

- Ibu Nurlina, leader of Serikat Perempuan Sunggal

Tirtanadi to increase access to clean water for the poor by installing a pipe and 3 stand pipe water taps. In this 'hybrid' system, the PDAM supplies the water to the community, while



DARMANSYAH LUBIS, ESP MEDAN/NORTH SUMATRA

Usaid presents the public water tap to Lembah Berkah community.

the community itself organizes to manage water distribution, payment collection and subsequent payment to the PDAM.

ESP's *integrated approach* also provides the community with training on environmental health, solid waste management, composting, tree planting, and handwashing with soap. Additionally, the Safe Water System (Aman Tirta) program has promised training for the

community. ESP has also worked to create horizontal linkages across urban sites, such as linkages with Tembung village on the other side of Medan for assistance in setting up solid waste management.

In Medan Maimun a similar community water system has been constructed with the NGO *Jaringan Kesehatan Masyarakat* (JKM), the local community, and PDAM Tirtanadi. Here also a hybrid approach has been brokered with a main pipe being provided by PDAM Tirtanadi and subsequent distribution through tanks, taps, and pipes managed by the community. Here also, ESP has brought to bear a full range of interventions and technical support including design advice for JKJ on the water system, facilitation with PDAM Tirtanadi, plus supplemental training on environmental health, handwashing with soap, and safe water preparation and storage.

**Cross-learning and Sharing Capacities across Urban ESP sites:** ESP North Sumatra strives to both build and utilize local partner capacities. A downstream urban network is developing including exchanges by women's groups as well as exchange and cross-support in technical areas. The community organization in Tembung village, where ESP collaborates with the Japan Bank for International Cooperation (JBIC), is now supplying expertise in solid waste management across other ESP sites in Medan, while it continues to obtain training from ESP as well as NGO's skilled in waste management and recycling such as *Bis Peduli*. In June, community members from Tembung and Sunggal traveled to Bandung to see the efforts of the community organization and ESP partner, *Warga Peduli Lingkungan* (WPL), in managing their water and their environment. These groups also participate within the Deli River Action Network.

#### **ESP North Sumatra's First Collaborative Management Agreement Signed**

After several months of preparation and dialogue, ESP, the provincial Natural Resource Conservation Agency (*Balai Konservasi Sumber Daya Alam* of the Ministry of Forestry), the NGO YARL (*Yayasan Akar Rumpun Laut*), and the community organization Fisherfolk Youth Alliance of *Jaring Halus* (*Ikatan Pemuda Nelayan Jaring Halus*) entered into a ten year agreement for Collaborative Management of 500 hectare of Mangrove forest contained within the South East Langkat Wildlife Sanctuary.

This ten year agreement allows access right to the local community to protect and utilize the resources within the 500 hectare area. The community has long sought these rights as a *quid pro quo* for better conservation management and sustainable use. The program will be modeled upon the effective community management system currently in place on *Jaring Halus* island. The collaborative management site is strategically situated at the mouth of the Wampu River and serves important ecological, biodiversity, and hydrological functions.

Mangrove forests in this area have been a 'hot' issue due to uncontrolled illegal logging for the charcoal business. Recently, several provincial agencies and the local government have tried to rein-in illegal practices, but they find that sustaining enforcement is difficult, if not impossible, without the full support and involvement of the local community. Hence, the willingness to sign-on to collaborative management with a successful community organization.

This is intended to be a proto-type site. Between this site and Medan lie another 14,000 hectares of protected, but often heavily damaged, mangrove forest. Possibilities for replication and expansion are mentioned explicitly within the collaborative management agreement.



BERTHA ULINA NABABAN, ESP MEDAN/NORTH SUMATRA

Pose for a photograph after signing the agreement (from left to right: Ir. Azwar Pane, Head of Local Forestry Office; Ir. Djati Witjaksono Hadi, Head of BKSDA; Tengku Lukmanul Hakim, Director of YARL; Rustam Effendy, Head of IPANJAR; and Russ Dilts, USAID-ESP Regional Advisor).

ESP, as usual, brings its integrated approach to this mangrove forest activity. After the opening ceremony a joint team headed for the program site to undertake follow-up planning exercises. Included in the planning workshop will be sessions on Health and Hygiene as well as a presentation on safe preparation and storage of water by our SWS colleagues. As the program continues, ESP will offer technical input on participatory mapping and GIS, facilitation on collaborative management, and assistance on clean water supply. This site is already being looked to as a model for other places in Indonesia and the region, in particular, for Aceh. However, everyone concerned understands that care must be taken to get it right in the initial site before entertaining ideas of expansion. The model contains highly innovative approaches to the establishment and management of mangroves, as well as new approaches to sustainable livelihoods for local communities, that should have broad applicability.

#### OTHER HIGHLIGHTS:

- Longitudinal Studies and Video Documentation:** The longitudinal study activity was launched in June, including the visit of documentary film maker **Rob Nugent** to North Sumatra to follow-up on his first engagement in 2005. Video documentation of actual social and physical changes at selected sites will be undertaken on a 6 month periodic basis after a baseline is established. Site selected include the Semangat Gunung village in Karo in the upper watershed, Aur village along the river bank in central Medan, and peri-urban Sunggal on the outskirts of Medan. Each has different histories, issues, challenges, strategies and varying engagements with ESP.

- **Aceh Farmers Conduct Cross Visit to the Farmer Learning Lab:** A group of seven rice and vegetable farmers from Aceh Besar District, along with ESP Aceh WSM and agro-forestry specialists, spent a week with the farmer-led *Wadah Belajar Petani* (Farmer Learning Lab) in Deli Serdang learning directly from successful farmers how to get started in ecological rice production. The participants learned how to select seed, prepare seed beds, and transplant week old single seedlings. They also studied in the field new approaches to soil ecology and water utilization through Farmer Field School methods. After they get their field trials started in Aceh, farmers from the Deli Serdang WBP will make follow-up technical support visits.
- **PDAM Efficiency Improvements:** ESP worked with the new leadership of PDAM Tirta Wampu and PDAM Tirta Malem to conduct their first internal audits that are being used to pinpoint inefficiencies, such as metering in Karo and treatment plant problems in Langkat, and determining training needs. Audit results were also used successfully to lobby the local government for increased funding. Consumer satisfaction surveys have also been completed, resulting in better understanding of the 'gap' between corporate and consumer perceptions of service delivery. Such information is key to sensitive tariff reviews.
- **Sibolga Mayor and ESP Sign MOU:** The Government of Sibolga Municipality actively sought ESP assistance, resulting in the signing of an MOU between ESP and the Mayor of Sibolga on the 2<sup>nd</sup> of June. The first activity will be the upgrading of their water treatment facility for which the Sibolga government has allotted funding while ESP will supply technical assistance for design engineering.
- **Tembung Community-based Solid Waste Management Program/JBIC collaboration:** behavior changes are now clearly evident, such as household sorting of garbage, a system of collection including fees (50 plus households). The community purchased and operates a 'becak sampah' to support this, as promised JBIC hardware and logistic support for becaks, trucks, operators, community center, etc. have not as yet materialized. Activities in composting, pilot tree and flower gardening, and clean-up actions have involved over 200 residents. Collaboration with the Health Services Program is now getting under way. Training has been given in handwashing with soap and communication design for behavior change. Communications campaigns with schools, mesjid, churches, and women's associations are now routine. Neighborhoods not originally involved are now asking to join the solid waste program. ESP local facilitators are serving as resource persons for other villages in Medan. A PERDES (Village Regulation) on sanitation has also been reviewed and revised to support program activities with a legal basis.
- **Community-to-Community Cross Visit:** There (3) persons from Tembung, 2 from Sunggal, and 2 from the NGO Bis Peduli undertook a visit to the community based sanitation programs *Warga Peduli Lingkungan* in Bandung. This trip continued on to Tangerang to visit the community based sanitation programs of ESP partner, BEST.
- **Small Grants Program Processes 23 Proposals:** The second Small Grants cycle elicited a huge response with some 60 NGO's attending an orientation workshop, with 23 subsequently submitting concept papers and proposals. The ESP team identified 8 very strategic and relevant proposals that are now being finalized.

Work will cover all ESP components, and include areas that we cannot cover directly. The level of understanding of ESP principles and approaches is greatly improved over a year ago, yielding some very interesting strategic partnerships that will contribute immediately and directly to achievement of program goals.

- The **Jaringan Aksi Sungai Deli** (Deli River Watershed Action Network) held a workshop in Berastagi in April attended by community members, local and provincial government, universities, NGO's, and state owned companies such as PDAM Tirtanadi and PELINDO. This meeting resulted in a draft **Action Plan** for joint action within the Deli River watershed that is now being further circulated and discussed before finalization. The local press also participated and undertook field visits to locations where forum members are active.
- **Three Farmer Field Schools for Ecological Agriculture in the upper Deli watershed villages** of Semangat Gunung and Doulu are underway. Within the same district, a Citrus tree farmer research program is also underway as part of ESP-FIELD-Clemson University (USAID CRSP) collaboration. Participating farmers are already changing their behaviors based upon knowledge gained in the Field Schools. The long term goal is to spread ecological practices throughout the valley to greatly reduce the poison load on water and land in this crucial area. US Consul Paul Berg has visited the area, and the farmer programs have received wide press coverage.
 

*“in our baseline survey one farmer listed insecticides, herbicides, and fungicides outlays totalling over Rp. 3.000.000, per season. And this was for a plot of only 500m2! This kind of poison overdose puts the health of water resources and land at immediate risk, not to mention the danger to farmers and their families”*

Ir. Cahyana, ESP Agro-forestry Specialist.
- **Handwashing with Soap** activities continued in 6 POSYANDU plus local elementary schools in urban Medan communities. Handwashing with Soap was also introduced into a range of other ESP programs including rural agricultural locations. ESP's Health and Hygiene Team spent extensive time on Formative Research during this quarter, but still pushed forward with collaborative programs with *Save the Children*, *HSP* and *Safe Water Systems* on handwashing with soap and clean water preparation and storage. The ESP GIS expert assisted in creating maps for *Save the Children* incorporating disease incidence.
- **Multi-Media campaign No.3 concluded and MMC No.4 began** including such activities as field visits to ESP upstream sites for the “Deli River Dream 2015” resulting in numerous newspaper articles. Other activities included forums with religious leaders on water conservation issues, interactive radio shows focused upon the issue of solid waste management, coverage of US Consul Paul Berg's field visit to ESP sites in Karo, and mobilizing press coverage for the visit of the USAID Mission Director.

## SECTION 2.3.

# WEST SUMATRA

## INTRODUCTION

**ESP as a ‘Learning Network’** During this quarter many of the programs previously planned and initiated began to take concrete shape on the ground and in the communities in and around Padang. The ESP program is engaged in discourse on all levels, from provincial/municipal policy level, to the cross-watershed *Forum PEDAS*, down to village level Farmer Field Schools and *‘simpul belajar’* (learning nodes). ESP programs are constantly in dialogue with Government, media, NGO’s and Universities as well as through media campaigns and workshops. ESP and it’s many partners are now a recognized as comprising a ‘learning network’ within Greater Padang and increasingly within the province as a whole. All this with a ‘scaled down crew’ as many of the former ESP West Sumatra team have been shifted to Central Java/DIY Yogyakarta.

During this quarter much effort has been made to move solidly from planning and discussion to actual implementation. The results of this can be seen at the ‘learning nodes’ within each of the three main watersheds in Greater Padang. In each location, tangible activities including community tree nurseries, Farmer Field Schools, and ecological agro-forestry trials are now operational in addition to regular forum meetings and discussions. In other components similar progress is noticeable as campaigns have worked with a variety of partners in reforestation activities and other ‘clean and green’ initiatives. Work with municipal water utilities has also progressed with the completion of Corporate Plans and Customer Satisfaction Surveys, followed by public forums.

At the urban end of the watersheds, ESP is also making progress as plans have been laid with the City Government of Padang for work on community-based sanitation. Sanitation mapping and planning activities are now underway. ESP has also made a small grant to a local NGO that will work with women on health and hygiene issues in urban communities. And, in response to community demand, the USAID *Safe Water Systems (Aman Tirta)* program has replied positively to a request for training in *Air Rahmat* use and distribution.

Finally, ESP Padang has taken a leading role in organizing the field sites and facilities for the upcoming national ESP Watershed Management/Field School Training of Trainers that will provide 12 weeks of hands-on participatory training to 38 new ESP fieldworkers. This training will officially open in Solok on 5 July.

## ACTIVITIES IN THE REGION

### **Forum PEDAS Multi-stakeholder forum as the centerpiece and ‘anchor’ for ESP West Sumatra**

Since its inception in late 2005, the **Forum PEDAS**, a community-based network spanning the three major watersheds in Padang municipality (Kuranji, Air Dingin, and Arau) has moved ahead solidly in all locations. Each individual watershed forms its own ‘learning node’ encompassing a variety of field activities. So far, the Forum PEDAS has proven to be an

effective integration modality that keeps ESP's activities grounded in reality. The Forum PEDAS originated with community-led Sustainable Livelihoods Assessments and initial work plans mostly comprising watershed management and agro-forestry. Activities are now expanding to include various types of **media campaigns** as well as newly introduced **health and hygiene** and **safe water** activities. Forum PEDAS has proven to be effective in bridging the gap between local community issues and government services; as in the case of a recent meeting in Batang Arau where Forum PEDAS members held a dialogue with officials from the government health service concerning clean water provision and use. They have also placed effective demand upon ESP. The **Safe Water Systems** program along with the Health and Hygiene specialist from North Sumatra have promised to provide support starting in July. The network as also obtained strong support from the Forestry Service to support community tree nurseries, while the Provincial Agriculture and Horticulture service is providing training in organic agro-forestry for ESP/Forum PEDAS participants. Some of the activities carried out during this quarter include:

- **Clean and Green City Campaign:** over 5,500 trees including mahogany, cacao, and rubber have been distributed via the 'learning nodes' of Forum PEDAS in all three main watersheds.
- **Handwashing with Soap:** has been introduced at all regular Forum PEDAS meetings as a means for norming better hygiene. This will be followed up with water preparation and storage programs.
- **The Community Tree Nursery in Limau Manis:** the 'Learning Node' for the Batang Arau watershed has boomed this quarter with over 15,000 seedlings in its current inventory. The Batang Air Dingin tree nursery also has over 5,000 seedlings and is distributing orange seedlings to its members for agro-forestry efforts. These sites have also developed 'organic farming laboratories' producing intercropped organic vegetables and a variety of natural biological agents to replace fertilizers and pesticides.
- **Farmer Field Schools in Ecological Rice Production:** have also started in each of the three watershed 'learning nodes'. Rice fields are often the final 'filter' before water is released into the rivers feeding the municipal water supply, and removing their chemical burden is crucial to better water supply. These 'Field Schools' involve 20-25 local farmers each and will run for 16 weeks.
- **Roadside Tree Planting:** with the local Agriculture and Forestry service and Forum PEDAS resulted in 500 mahogany trees being planted beside the road in Tunggul Hitam area. The local school, SMP 10, also responded by planting 200 trees on their grounds.
- **The Forum PEDAS:** forms the 'anchor' for the Multi-stakeholder Watershed forum that includes broad participation from government, NGO, and local community. The Andalas University Natural Resources and Development Center is working closely with ESP in developing a **Watershed Management Action Plan** that will be grounded in and supportive of the Forum PEDAS learning network

### **Partnerships and Dialogue for Tahura Bukit Barisan**

The three main watersheds for Padang Municipality are directly dependent upon the *Tahura* (Great Park) Bukit Barisan and the Barisan Conservation Area. These forested mountains

comprise a dramatic 'green backdrop' for the coastal plain location of Padang Municipality. Some of the activities that have been held during the last quarter with ESP collaboration include:

- A Workshop on *Environmental Services in West Sumatra* in early April dealing extensively with the issues of water resource conservation in West Sumatra. This workshop was organized by RUPES West Sumatra, FKKM, the Forestry Service, and the Watershed Authority (BP DAS) with support from ESP and was held at the Governor's office. This will be followed by another workshop specifically focused on Tahura Bukit Barisan by the Muhammadiyah University's Environment and Development Center, scheduled for July 2006.
- As part of Earth Day celebrations, ESP supported Padang Senior High School students in a tree planting and conservation campaign for Tahura Bukit Barisan. Over 1,000 trees were planted during this 'learning action'.
- In parallel with TAHURA in North Sumatra and East Java, in the next quarter ESP will begin the process of contracting a series of studies and surveys that will be used to underpin programs for improved management of TAHURA protected areas.



SYAFRIZALDI, ESP PADANG/WEST SUMATRA.

**Community-based nursery in Limau Manis Selatan Village, Batang Arau Watershed.**

#### **OTHER HIGHLIGHTS:**

- **PDAM Corporate Plans:** in Padang, Bukittinggi, and Solok, the 5 year corporate planning process is complete, with each area having held a consolidation workshop in June. Consumer Satisfaction Surveys have also been accomplished culminating in open multi-stakeholder dialogues on future plans.

- **Women and Environmental Sanitation:** during the quarter a small grant for the Women's Studies and Empowerment Institute has been completed. The grant will support a program entitled 'Women and Environmental Sanitation' and will be geared to mothers and children in urban communities and entail hygienic, healthy behavior, environmental health, and improved river sanitation as its main components. Collaboration with local NGO's and community groups is instrumental in the success of this activity.
- **Community-based Sanitation:** Several key policy makers from Padang including the head of Development Planning and the Head of City Sanitation participated in a study tour to Malaysia on urban sanitation. These persons are key leaders of the ESP Sanitation Working Group. Activities have now been planned including co-financing of a community-based sanitation pilot project, city-wide sanitation mapping, and the development of a sanitation master plan.
- **Public Outreach and Communications campaigns:** a quite active part of the West Sumatra program is multi media campaigns. Padang City is highly receptive to this 'clean and green' approach since it is a winner of the Adipura Award and also nominated as one of Asia's cleanest cities and a 'Public Health Oriented City'. Activities in this quarter included a *Bicycle Rally Environmental Campaign* conducted around Earth Day, for which ESP provided the campaign materials and assisted with a wrap-up discussion. ESP has also conducted tree planting and open discussion with student groups from junior and senior high schools as well as with university student organizations, plus radio and television interactive forums with key persons. These media forums supported by ESP have also given airtime to members of the local community via Forum PEDAS.



SYAFRIZALDI, ESP PADANG/ WEST SUMATRA

**Bicycle Rally Environmental Campaign held during the Earth Day on April 22, 2006 in Padang, West Sumatra.**

- **ESP Watershed Management Training of Trainers:** the ESP West Sumatra team conducted a location survey and finally located the BPTP (Agricultural Research Center) in Solok. This location provides strategic access to a wide variety of watershed communities representative of the wide variety of issues that must be tackled through ESP's integrated programs.
- **Formative Research for Health and Hygiene interventions:** during this quarter the ESP team conducted a series of focus group discussions and in-depth interviews in communities and with key individuals in order to gain a better understanding of human behaviors, beliefs, and motivations related to health and hygiene; especially those specific to the culture and customs of West Sumatra.
- **Research on Social Connections:** within water service circles, the provision of 'social connections' with special subsidized tariffs, or even free 'public taps' is always a contentious issue. The ESP program during this quarter completed a study on social connections that will be discussed in an open dialogue format in the coming weeks.

## SECTION 2.4

# WEST JAVA, BANTEN & DKI JAKARTA

### INTRODUCTION

**Integration, integration, integration....** In order to better integrate and coordinate the very active provincial team for West Java, ESP management took the action to designate a central coordinator for the region. During this quarter, Ir. Ahmad Rosyid, a long time veteran of water supply activity in Indonesia, was appointed to be the Regional Coordinator for West Java. Although West Java had always been one of the most active provinces for ESP, it was determined that the collective effect of the activities could be enhanced by better interaction and integration of the various cross-cutting theses with the main component activities in watershed management, service delivery and municipal finance.

ESP activities in West Java are currently focusing in 10 locations of Kabupatens and Cities. In this quarter, more attention was focused on the integration of diverse activities between in the upstream and the down stream areas. In watershed management, this period has seen ESP Cianjur very active in supporting conservation and land rehabilitation programs at catchment areas of Gunung Gede-Pangrango. The main purpose of these activities was to strengthen of capacity building in community level and stakeholder's level and focusing activities along DAS Cikundul and DAS Cilaku. Cikundul River is one of the water sources of PDAM Kabupaten Cianjur. Currently, PDAM Cianjur has a plan for a new water treatment facility with a capacity of 135 liters per second (LPS), taking water sourced from the Cikundul River.

The PDAM program in this quarter focused on PDAM Kota Bandung, Kota Bogor, Kabupaten Purwakarta, Kota Sukabumi and Kabupaten Sukabumi. The nature of activities included household surveys (PDAM Bandung city), Non Revenue Water reduction (PDAM Bandung city, Sukabumi city and Kab. Sukabumi), improving water quality (PDAM Purwakarta), public tap survey (PDAM Bandung city) and capacity building through training program. Besides cooperation directly with PDAM, ESP West Java has also cooperated with DPD Perpamsi West Java. ESP and DPD agreed to set up team NRW DPD Perpamsi West Java. On May 6, 2006 ESP – DPD conducted Non-Revenue Water training to team NRW. The participants of training were 13 participants from seven PDAMs.



ESP SUBANG/WEST JAVA

**ESP Subang has carried out numerous activities to support the community for implementing nurseries and doing composting. The community has already rehabilitated approximately 750 Ha along DAS Cipunegara. The kind of trees used include Albasia, Suren, Alpukat, Kelapa, Durian and Rasamala and the total trees to be planted number 106,295. The community participants in this activity numbered around 320 men and women.**

In collaboration with the public outreach communication team, community-based water and sanitation and agro forestry teams of ESP West Java, the health and hygiene team conducted a formative study to get information of underlying motivations and barriers to sustained behaviors specifically related to hygiene improvement, including their connection to the environment and protection of community water sources. Information collected included the role of gender norms for facilitating or hindering behaviors; people's characterization/meaning of the concept of clean (at the level of the individual, the family and the community), people's grouping of hygiene-related behaviors, and people's perception of PDAM services (for those communities that have this service). Also formative study will look at local initiatives already in place or in progress (from leaders and community groups) related to hygiene and water source protection, and people's preferred and trusted communication sources regarding health and hygiene in the respective communities.

The formative studies conducted focus groups discussion (FGD) in four villages with two in Bandung and two others in Subang. The FGD aims to get information on the point of view of indigenous women and men of the above behaviors. The researchers also conducted in-depth interviews with policymakers such as PDAMs, local government and local community leaders in the same area of the FGDs.

For the formative research, ESP utilized local partners such as Koalisi untuk Jawa Barat Sehat and K3A. The partners' roles are to organize focus group discussions and provide the results of the FGD. Hence, partners' involvement is aimed to provide broader information of behavior change communication process from the beginning.

Finally, the municipal finance team conducted a road show to all PDAMs under ESP West Java to explain about micro credit for house connection and municipal bonds/corporate bonds. PDAM Kab. Bandung showed strong interest in micro credit and municipal bonds by sending a commitment letter to ESP.

ESP activities in DKI Jakarta were started initially with two researches carried out by two STTAs in mid-January 2006 on *"Point of Use Water: Introduction and Comparison of Household Level Water Treatment Technologies and Options"* and *"Improving Water Service to the Poor: Identification of Poor Communities and Potential NGO partners in DKI Jakarta"*. The researches is still on-going and is aiming to assess current situation of water provision in poor communities in DKI Jakarta and to identify entry points for ESP to improve water provision in poor communities. The results of those researches will help ESP to determine the locations and types of program where ESP could intervene and the local NGO partners where ESP could collaborate with.

Due to demands from BHS-USAID to support an integrated program with other BHS partners (showcases), starting from mid-January a series collaborative assessment were conducted in several communities in DKI Jakarta. The assessments were done in collaboration with different BHS partners: Health Services Program (HSP); Safe Water System (SWS); Decentralized Basic Education (DBE); Food Security and Nutrition (FSN) partner NGO: Mercy Corps Indonesia (MCI); and Action Stop Aids (ASA).

- Gambir Working Group (Showcase 1) was formed to support MCI to assess health and watsan condition in Petojo Utara. HSP lead the working group supported by MCI, ESP, SWS and ASA.
- Kramat Menteng Working Group (Showcase 2) was formed to support DBE to assess primary schools in central Jakarta. BHS partners involved in this working group are SWS, HSP, ESP and DBE.

- Penjaringan – Jembatan Besi Working Group was formed to provide technical supports for MCI to improve water and sanitation system in Penjaringan and Jembatan Besi.

In accordance with the above working group, ESP has also completed three assessments on: (i) sanitation facility assessment in three communities (Penjaringan, Jembatan Besi and Petojo Utara), (ii) puskesmas facility assessment in 7 puskesmas in Kecamatan Gambir and Menteng, and (iii) school water and sanitation facility assessment in 5 primary schools in Kramat and Menteng.

ESP was successful in leveraging fund of \$ 1 million from International Development Research Center (IDRC) Canada for a program in Penjaringan, North Jakarta, called “Healthy Places Prosperous People (HP3)”. This program lead by MCI and supported by ESP and two other NGOs: Urban Research & Development Institute (URDI) and Swisscontact. A City Team partner from the government of Indonesia (national and local level) actively supports the program. HP3 program focuses on three consecutive activities: (i) a participatory action research to diagnose environmental condition and to identify priorities; (ii) implementation of environmentally beneficial pilot project intervention that achieve economic benefit at household level; and (ii) integration of project findings to pursue improved planning practice and policy related to urban environmental issues. During the period of April – June 2006, ESP supported and participated on baseline assessment study, proposal writing and training to build a consensus and capacity of project proponents.

## REGIONAL ACTIVITIES

**Cikundul and Cilaku Rivers - Watershed Management in Cianjur.** Future raw water for PDAM Cianjur will come from the Cikundul River near Cibodas, about 135 LPS, so there is great interest on the part of the PDAM for protection of DAS Cikundul. During the dry season, flowing of Cikundul River is quite limited; PDAM cannot use the treatment plan full capacity. Currently, activities undertaken by ESP targeted behavior change of communities along the DAS Cikundul and Cilaku to be more responsible for the condition of the catchments area. To achieve program targets for watershed management and biodiversity conservation, ESP took a participatory approach to needs assessments, workshops, training and a one-day seminar. The participants of these activities were community leader along DAS Cikundul and Cilaku. For rehabilitating critical land along DAS Cikundul, ESP together with Pak Makbul (farmer/leader from village Cirumput) conducted nursery training for 26 farmers/leaders from 13 villages (desa). The training involved how to assess the sites, plan a good nursery, and proper selection of trees. The result of this training was that all the participant agreed to plant a selection of Kalindra, Suren, Albasiah and Alpukat trees along DAS Cikundul.

In Subang, ESP used local NGO MAPAS, already active in land rehabilitation, to spring-board many activities to increase the depth and breadth of MAPAS’ program. Some of the activities of MAPAS and the local communities to rehabilitate critical land include:

- Rehabilitation 13.5 Ha of critical lands at Cibulakan subvillage of Cijambe, planting Durian and Alpukat. Also the community in this sub village prepared a nursery of about 10,000 Albasia seedlings. This is an area containing natural springs, from which PDAM sources 1,000 LPS of clean water.
- Rehabilitation of 510 Ha of critical land surrounding the area of a natural spring at Cimutan. The total number of trees planted there was 1,500.

- Rehabilitation of 200 Ha of critical watershed area under PTPN VIII by planting Albacia and Acacia Magnesium trees and also nursery activities for 6,000 trees.

**Non-Revenue Water reduction program for PDAM Bandung City, Sukabumi City and Sukabumi District.** Presently NRW level at PDAM Kota Bandung is 52% and at PDAM Kabupaten Sukabumi, especially at Cibadak Branch, is more than 60%. A re-check of NRW level at PDAM Kota Sukabumi shows it to actually be 63%. To implement NRW reduction program, ESP was a catalyst in forming NRW teams, with the PDAMs contributing 80% of the cost from their own revenue.

**PDAM Bandung City,** Currently, because PDAM Kota Bandung can only serve 60% of its customers due to limitations on its existing raw water sources, to capture non-revenue water is very important. To provide on-the-job experience to staff of PDAM Kota Bandung, NRW reduction program is conducted at three pilot sub zones, namely at Kelurahan Isola, Ledeng and Cihideung, serving approximately 1,000 families. Activities completed include selection of the pilot zones, establishment of NRW team, network and pipe accessories identification, added/replaced valves, improve distribution network, established zone isolation, installed water meters and measured minimum night flow. From previous field measured, it indicated that the NRW at this area was previously 60-70%. Results may be seen as early as the next reporting period.

To complete the program, there are some activities that still need to be carried out in the coming quarter, such as customer identification, step test, leak detection, leak repair, meter replacement, illegal connection and consumption surveys, and measuring 24 hours consumption and minimum night flows. Collaboration was established with Euro Promo Cap IWAT Project. It was agreed ESP will provide technical guidance, while the IWAT Project will provide (free of charge) some repair materials, 50 sets of service pipe and accessories, include clamp saddles, with all other activities and materials being the responsibility of the PDAM, such as leak repair, customer water meter, replacement of service pipe, illegal connection and consumption measuring.

**PDAM Sukabumi City.** A Perumnas complex called Canggaleng Complex with 684 active PDAM customers and 86 non-active customers, has shown to have high NRW. For this program, the PDAM plans to install zonal water meters to record the volume inflow in this area. In relation to reduction of NRW at this complex, PDAM Kota Sukabumi will carry out activities, such as collection of distribution network data/drawings, compile customers and consumption data, customer identification in the field, identification and improvement of pipe distribution network and accessories, install water meter zones, repair leaks found, water meter and service pipe replacement, and process illegal connections.

**PDAM Sukabumi District.** NRW reduction program at PDAM Kabupaten Sukabumi was planned branch by branch. As a pilot area, Sub Zone B1 at Cibadak Branch was selected as a pilot zone. This area is a good prospect for PDAM Kabupaten Sukabumi, but due to customers dissatisfaction with the service from PDAM (both volume and water pressure), 45% (93 customers) of total customers (222 customers) decided not to be PDAM customers anymore, and other communities consequently are not interested in becoming PDAM customers. The PDAM has recently improved the pressure and volume of water distribution, but previous and potentially new customers are taking a “wait and see” approach.

Others activities receiving ESP technical guidance included identification of distribution

network and pipe accessories, added/replaced valve and pipe accessories, improved distribution network, set-up zone isolation, installed zonal water meters, customer's identification, and measured minimum night flow.

**Public Tap Survey for Improving Access to Clean Water for Poor People.** This activity is being initiated at PDAM Kota Bandung. The objective of the survey is to collect related information on current condition of the services for the poor through public taps. The focus of the survey will be limited to 275 public taps and 25 non-PDAM clean water services in 6 sub-districts across PDAM's services area in Bandung city. This activity is being jointly implemented between ESP, ECO-Asia and PDAM Bandung city.

**Community Based Sanitation and Solid Waste Management.** Community-based Solid Waste Management program during this period focused on Bandung city, Subang District and Cianjur district.



ESP SUBANG/WEST JAVA

**MAPAS sorted garbage found along a river at Pamanukan sub district in Subang, West Java. The activity was held during the Earth Day on April 22, 2006.**

In Bandung city, the program community base solid waste management implemented in kelurahan Tamansari along Cikapundung River. The program's purpose was to change behavior of community to manage the solid waste.

On Earth Day, under the coordination of MAPAS (Masyarakat Pencinta Alam Subang) the local government and the community have done the sorting of solid waste along the river at Kecamatan Pamanukan. Similarly, MAPAS and a farmer group in Desa Cisuusuk have done solid waste sorting activity as well as composting. Head of Dinas Cipta Karya Kab Cianjur plans a solid waste campaign on radio and in leaflets. Community-

based solid Waste Management in Kab. Cianjur is focused at Kelurahan Nagrak. This location is part of the area Das Cikundul.

**Small Grants in West Java.** There is one on-going small grant in West Java, which is the "Ecotourism Maps for Gede Pangrango" project implemented by a local NGO based in Bogor, Wahana Informasi Pariwisata Alam (WIPA). Another two small grants will be implemented in West Java very soon: 1) Solid Waste Management in Cisarua Leutik Watershed Area in Cianjur, and 2) Solid Waste Management at Tamansari Bandung.

The "Ecotourism Maps for Gede Pangrango" project will publish 4 maps and booklets designed for use by ecotourists at the foot of Mt Gede and Pangrango. With ESP's assistance, the maps have been prepared by Wahana Informasi Pariwisata Alam (WIPA) and will be assisted in publication by the Yayasan Lontar. The maps provide the ecotourist with a vast amount of useful detail presented in a clear and communicative manner. The National Park is very supportive of the publication of the maps, as this will underpin its program for increasing ecotourism in the buffer zone around the National Park. The project is expected

to benefit watershed management by creating a new group of stakeholders (educated ecotourists to the area, estimated to number in thousands) who will be more likely to support the protection of this fragile environment, creating income earning opportunities for residents of the upper watershed from the ecotourism, creating a planning tool for local government agencies charged with protecting the upper watershed.

The “Pengelolaan Sampah Padat oleh Masyarakat di daerah Aliran Sungai (DAS Cisarua Leutik, Kabupaten Cianjur)” project will build a model of Community-Based Solid Waste Management in three villages located in the upper – middle – down stream areas in Kabupaten Cianjur to create a healthy and clean environment, increase the knowledge and awareness of a clean environment for solid waste management that will have a healthy impact to the community. The awareness program will change the behavior of current practices of dumping household solid waste to the Cisarua Leutik River in Cianjur. The Participatory Hygiene and Sanitation Transformation (PHAST) method will be used in each activity undertaken in the project. The project area of the three villages will be about 950 Km<sup>2</sup> and will benefit 22,425 people or 6,700 households, including 13,450 women. Women will be the active implementers in this project. This project will be implemented by Yayasan Bina Sehat Sejahtera (YBSS).

The "Community-based Solid Waste Management in Tamansari Bandung" project will improve solid waste management in the area of Tamansari by the community themselves. Approximately 26,500 persons will directly benefit by the project which include 13,200 women. Neighboring hamlets consisting of 648 households will also benefit from the project. Activities such as awareness campaigns, capacity building within the communities and improved community co-management will eventually contribute to improved healthy environment within the community through community-based solid waste management. This project will be implemented by Koalisi untuk Jawa Barat Sehat (KujBS).

The West Java team are expecting several more small grants proposals this year, particularly project proposals in the Watershed Management and Public Outreach and Communications sectors.

**Sanitation Facilities Assessment.** The assessments were conducted in 3 communities: Petojo Utara, Penjarangan and Jembatan Besi where MCI is currently working on a program to improve nutrition for children under five. 12 existing public sanitation facilities (MCK) were identified and mostly in need of rehabilitation. The following criteria were used during the assessment: socio-demography status, land tenure, current and future use by community, water supply system, level of effort for improvement, interest from community, potential site disturbance, current management and fee collection system. The results of the assessment determined the recommendation for follow-up activities. Supported by a local NGO called BEST (Bina Ekonomi Sarana Terpadu), ESP develop a preliminary design for public MCK (one MCK in each location), cost estimation, time-frame for construction and plan for community mobilization and local institutional support with regard the operation, maintenance and management of the MCK.

The most critical findings of the assessment are most the MCKs have no proper wastewater treatment facility. The sludge directly flows into the river. Some of the MCKs claimed that septic tanks were installed but located near to shallow ground water well, around 5-7 meters away. It is possible that the ground water is contaminated by the wastewater and sludge from the septic tank.

In Penjaringan, all MCKs are privately owned and run for business. The cost applied to the community is a visit-based fee, around Rp 500 per visit for toilet and Rp 1,000 per visit for bathroom. In Petojo Utara, some of the MCK are publicly owned but run by individual. The charge applied to the community is different based on their socio-economic status where poor households are charged on monthly bases Rp 3,000 – Rp 5,000 per house depend on the numbers of people in each house and a more better off households are charged on a visit based system. Even some of the MCKs in Jembatan Besi are publicly owned but they ownership remain in the hand of individual. Located near a traditional market, MCK operators charge the community per visit.



ESP JAKARTA/WEST JAVA

Public MCK in Petojo Utara RW 08, Jakarta.

In response to problems mentioned above, ESP and BEST developed a detailed engineering design of 3 MCKs for under and above the ground constructions to help these communities to improve sanitation facilities and the groundwater quality by isolated the wastewater in a technologically tested septic tank. In terms of the operation and maintenance of the community, MCI helped by mobilizing the community in terms of deciding the location, fee collection system and mobilize un-skilled labors for the construction. MCI will also contribute around \$ 100,000 for physical constructions of the MCKs.

**Puskesmas Facility Assessment.** This activity is part of BHS integrated program. Together with HSP, ASA, SVWS and MCI, ESP assess water, wastewater and solid waste management practices in 7 Puskesmas in Kecamatan Gambir and Kecamatan Menteng: 5 Puskesmas Kelurahan and 2 Puskesmas Kecamatan.

The results show that all of Puskesmas are using several different water sources for different uses. Groundwater source, mostly with electric pump and reservoir above the ground, is used for cleaning and washing, while PDAM water is used for drinking and for activities in delivery room. For drinking, they are using bottled water but the use is limit for Puskesmas staffs and doctors only. Issues on wastewater are mainly focus on budget constraints and treatment efficiency. Only large puskesmas that has small scale wastewater treatment plant, smaller Puskesmas (Kelurahan level) are relying on septic tanks for sludge treatment and community sewerage system for discharge of wastewater from polyclinic and medical activities which contaminates the surface water in the surrounding communities.

Prior to the assessment, ESP, HSP, SVWS and ASA conducted a training workshop for Puskesmas staffs, doctors, nurses and midwives to raise awareness of the Puskesmas staffs on the importance of environmental health and sanitation issues, not only in the community level but also from the Puskesmas staffs. The response was very positive and that the shared methods and assessment tools are possible to be done by Puskesmas staffs themselves.

## OTHER HIGHLIGHTS

- **Workshop for Management Plan Cikundul and Cilaku.** Bupati Kab Cianjur opened this workshop and accompanied farmer leaders along Das Cikundul – Cilaku, local government Cianjur, TNGP and others NGO. The result of this workshop all the participants agreed to declare “Forum Pelestari Das Cikundul and Cilaku”. This forum has already prepared work plans for short, medium and long terms.



ESP SUBANG/WEST JAVA

To commemorate the World Environment day, Mulyasari villagers in Subang cleaned their neighborhood by collecting and sorting trash in a mass movement called “aksi semut”.

- **The World Environment Day or “Earth Day”.** The world environment day event conducted at sub district office Mulyasari Kecamatan Pamanukan. The event included exhibition of photos all activities of community to support the environmental conservation and SEMUT (Aksi Pemunggutan Sampah oleh Warga). Bupati Kab. Subang, Dirut PDAM Subang, other local government and NGO MAPAS attended this event.
- **Household Survey in Bandung City.** The household survey of 130.000 PDAM customers (40% conducted by ESP) in the seven districts of Bandung City. ESP conducted three districts (district Arcamanik, Bojongloa Kidul and Kiaracandong). Through this quarter, the survey has completed approximately 45,000 households comprising 10.000 PDAM customers and 35,000 non-customers of PDAM. The survey found 2,700 meters broken of customer and in sub district Cibaduyut Wetan 79 customers of PDAM not yet recorded administratively, but receiving water.

- **Comparative Study on Community Based Solid Waste Program (CB-SWM).**

ESP team from West Java, Central Java/DIY and DKI Jakarta conducted a comparative study to ESP regions that has implemented a CB-SWM program. Medan, Bandung, Subang and Surabaya were visited from June 19 – 29, 2006.

Lesson learnt from those regions are very valuable and possible to be replicated in DKI Jakarta and Central Java/DIY that will start with a CB-SWM

soon. In Medan, for example, a concept of sister villages is employed to provide good networking and linking. Still in Medan, a concept of Waste Banking is also a good practice, where a group of local people manage and organize the selling of non-organic waste and that each house that provides the waste will get a certain amount of savings in their accounts. In Jambangan Surabaya – a green and clean awarded area, CB-SWM model is working excellently. Houses hand in hand working on greening and cleaning their area, not only in their front or back yard but also in their neighbors yard, so motivation and 'gotong-royong' is a key component to ensure that the program is sustained. Waste separation, recycle and composting are applied on a house based.



ESP SURABAYA/EAST JAVA

**Jambangan Community in Surabaya, Top Ten Green and Clean 2006.**

- **Small Grant Program.** ESP Jakarta has received a proposal from Flora and Fauna International (FFI) for a small grants program in Muara Angke and Ciliwung. The program title Public Awareness Programme for River Ecosystem in Jakarta. The proposal has been shared and reviewed by a panel of selected ESP staff members. It correlates strongly with the catchments area where ESP works. However, ESP feels that the proposal is too broad and not focusing on a single issues and area and there is also lack to community participation. Therefore, ESP and FFI will conduct a discussion session to gain common objective understanding.

- **Identification of Poor Communities.** As part of an STTA contract, the research aims to identify poor communities and suitable entry points for ESP in DKI Jakarta. 22 communities have been identified and assessed together with 11 potential NGO partners for ESP. Most visible issues in those areas are employment, land tenure, migration, poor water supply system, poor sanitation facilities and poor solid waste management.



ESP JAKARTA/WEST JAVA

**Children Cleaning Water Bottles for SODIS.**

- **Point of Use Water.** This is also an STTA's research to introduce and compare household level water treatment technologies, such as refill boutiques, SODIS (Solar Disinfectant), ceramic filtration, boiling and chlorination. On-going field trial of the five options above was conducted in four poor communities in Tanjung Priok, Teluk Gong, Bintaro Lama and Bintaro Baru. Prior to field trial, researcher Mindy Weimer conducted a bench scale research. It was found that the effective removal of total fecal coliform contamination is after 0-6 hours's exposed to sunlight with maximum temperature 52.8C. The complete report will be available in August 2006.



## SECTION 2.5

## CENTRAL JAVA &amp; DIY YOGYAKARTA

## INTRODUCTION

**Ready for Action:** Within one month of being newly outfitted with office desks, chairs, and high speed internet access, the ESP office in Yogyakarta was ready when needed to serve as the USAID and DART team command center; first, for a water and sanitation assessment of temporary evacuation camps for villages around Mt Merapi, and second, for a two-week period following the May 27 earthquake in Bantul Regency. Immediately after the earthquake, ESP staff quickly responded to the crisis at hand, setting up an information center in the office, conducting water and sanitation assessments of three hospitals, three water utilities, three elementary schools, and a waste water treatment plant, preparing GIS maps, and providing administrative and logistics support.

While ESP has been very responsive to these two natural disasters that are literally surrounding the ESP office in Yogyakarta, ESP staff have continued to make steady progress on our ambitious work plans with communities, NGOs, local governments, and water utility companies in the massive Progo Watershed. This quarter, we conducted an 8-day Training of Trainers workshop to prepare 30 village facilitators from 15 villages to mobilize their communities around water, sanitation, conservation and health & hygiene issues in Tangsi, an important subwatershed of the Progo Watershed. We conducted a formative research study in four communities, consisting of focus group discussions and in-depth interviews with parents and grandparents of children under three, in an effort to identify current health and hygiene beliefs and practices, which will inform ESP's health and hygiene communications strategies. We prepared work plans for four water utility companies as well as an integrated work plan for a "mini-ESP" focus area in the Tangsi subwatershed. We conducted a small grants workshop to introduce this important partnership mechanism to NGOs, universities, and community groups. ESP staff helped design and prepare for the upcoming ESP Field School, which will be held in Solok, West Sumatra next quarter to train the newly recruited field assistants from each of the ESP high priority provinces. ESP staff also led a delegation of community leaders and local government officials from the Tangsi subwatershed on a study tour to Batu, East Java, to see a successful community-based water supply program in action.

On a personal note, several of ESP's own Indonesian staff suffered heavy earthquake damage to their homes, yet continued to work despite their losses, exemplifying their strong dedication to achieving ESP's objectives. DAI quickly established a matching fund for any donations collected to support the reconstruction of ESP staffs' houses. The funds collected are sufficient to make major repairs and reconstruct three ESP staff houses; all the repairs are expected to be completed by the end of the year. The ESP Central Java/Yogyakarta team wishes to express its sincere gratitude to ESP, DAI, and USAID employees who made donations to the matching fund.

## REGIONAL ACTIVITIES

**Helping Hands: ESP Earthquake and Volcano Relief Efforts.** On Saturday morning, May 27, a 6.2 magnitude earthquake struck Yogyakarta and Central Java, killing nearly 6,000

people, severely injuring more than 30,000, and destroying more than 150,000 homes, schools, health centers and other buildings. ESP responded quickly to this emergency, providing our Yogyakarta office as a base to the USAID and DART emergency and relief teams, as well as providing logistics and administrative support.

Immediately after the earthquake, ESP Water and Sanitation Specialists conducted a water and sanitation assessment of three hospitals in Yogyakarta, which experienced a ten-fold increase in solid waste volume in the days after the earthquake. ESP also assessed the Sewon wastewater treatment plant in Kota Yogyakarta and three municipal water companies (PDAM) in Kabupaten Bantul, Kabupaten Sleman and Kota Yogyakarta. The piped water supply in Bantul District was badly affected by the earthquake, with 10 out of 13 deep wells not functioning due to electricity failure or damage. In Yogyakarta, only 2 of 35 deep wells were not functioning due to electricity failure, and repair of pipe leaks and other minor damages were on-going. The water supply system in Sleman was functioning normally. Prior to the earthquake, ESP was already providing long-term technical assistance to the Kota Yogyakarta municipal water company, and will continue to do so. As a result of the assessments, ESP will now provide technical support to the Bantul municipal water company, starting with a household census to assess the damage to the piped water supply. ESP also distributed 350 communication t-shirts with graphic and text related to handwashing with soap to earthquake victims in Pundong, Bantul. These t-shirts were produced for the handwashing campaign at Jumoyo (Merapi Evacuation center), which was cancelled due to the earthquake which occurred in the morning of the same day.

ESP also supported earthquake relief coordination and support through the development and distribution of a series of Earthquake Quick Response Base Maps. The series includes a base map at 1:100,000 scale for the entire region, as well as at 1:50,000 scale maps for the most effected districts of Bantul, Yogya, and Klaten. These maps provide information on roads, administrative boundaries down to the sub-village (*dusun*) level, areas of high population density, and areas impacted by the earthquake. The maps have quickly become primary base maps for GOI agencies, international and domestic NGOs, US and other military medical operations, and the emerging UN-HIC. More than 60 sets of maps and 100 CD-ROMs with the maps have been distributed. The maps are being used for general coordination meetings, daily sector coordination meetings, emergency medical treatment provision, and Ministry of Health mobile clinic and immunization program coordination.

As earthquake relief and recovery is now transitioning to reconstruction, ESP is working with the USAID education programs (Decentralized Basic Education 1, 2, and 3) on an integrated program of human services support in the subdistrict of Jogonalan, Kabupaten Klaten, where the DBE programs were active prior to the earthquake. ESP has prepared a map that shows the location of USAID's DBE supported schools in Jogonalan and ESP is now conducting assessments of water and sanitation facilities at three elementary schools in Jogonalan (SDN-Titang, SDN-2 Somopuro and SDN-3 Somopuro), which were heavily damaged by the earthquake. Although this area is located outside of ESP's priority Progo watershed, ESP is working with the DBE programs to integrate ESP technical assistance in health and hygiene behavior change, water and sanitation, watershed management and biodiversity conservation into primary and middle schools in Jogonalan, which can then be replicated in other schools.

In addition to the earthquake, the provinces of Central Java and Yogyakarta have also been coping with increased volcanic activity of Mt. Merapi, which has been at its highest alert level for over two months. Mt. Merapi has been spewing out lava, pyroclastic flows and hot ash,

causing up to 20,000 people to evacuate their homes in a 4-7 kilometer radius around the volcano. In early May, Water and Sanitation Specialists from ESP's Central Java and Aceh offices conducted a rapid assessment of the eight largest temporary shelters to identify problems and make recommendations to improve clean water, sanitation, solid waste and drainage. ESP's GIS specialist also worked closely with American scientists from the United States Geological Survey to prepare critically needed maps of the volcanic hazard zones and estimate affected populations residing in these zones. These maps proved to be instrumental to scientists studying Merapi as well as local government agencies and international relief agencies that coordinated the evacuations of affected populations.

ESP is saddened by the destruction and loss of life wrought by the May 27 earthquake, however, we are pleased that we are able to bring our expertise in water and sanitation, health and hygiene, as well as mapping and GIS to help make a difference to the lives of those affected by the earthquake and ongoing activity of Mt Merapi, and we look forward to working with our USAID partners and others through the reconstruction process.

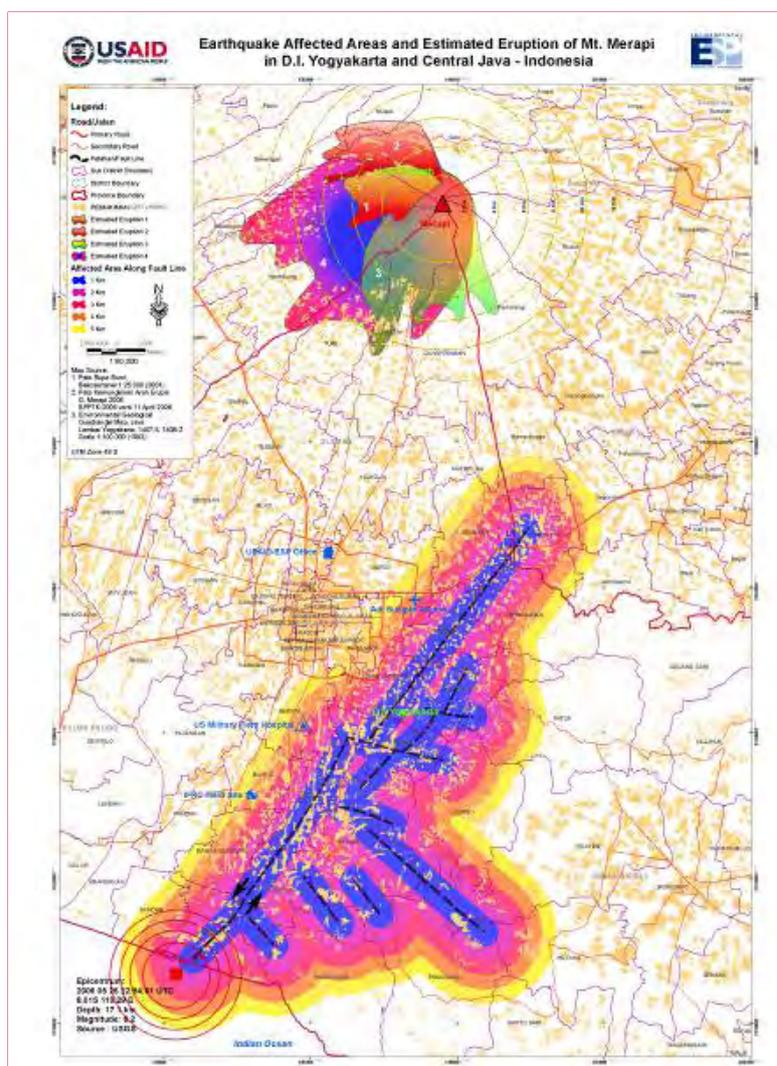
**Thirty Village Facilitators Extend ESP's Reach:** “Now I understand the importance of watershed, solid waste management, and how to motivate community members,” claims Fitri Wardani Subrastawa, a recent participant in ESP's Training of Trainers (TOT) workshop for Village Facilitators. Fitri was one of 30 people selected by their village heads to participate in the 8-day TOT. The 30 village facilitators, half of whom are women, came from 15 villages in the Tangsi subwatershed of Kabupaten Magelang. These villages lie in an ESP focal area that represents a “mini-ESP” within the Progo watershed, where all the ESP components will be working together (e.g., Watershed Management, Agroforestry, GIS, Service Delivery, Health and Hygiene, and Public Outreach and Communications).

During the TOT, which ran from June 12-19, 2006, the village facilitators participated in hands-on, interactive group activities, such as: mapping the natural features and built environment in their villages; preparing calendars of events and community activities that affect peoples' health; analyzing the human, natural, physical, social and financial resources in their communities; learning group facilitation, public speaking and presentation skills; and learning about ESP's thematic, technical areas. Throughout the TOT, the village facilitators were divided into four working groups, each representing different issues in the watershed, such as villages with: 1) springs (4 villages); 2) community forestry (4 villages); 3) agriculture (3 villages); and peri-urban locations (4 villages). The TOT was designed and conducted by the integrated ESP team.

In their evaluation forms at the end of the workshop, many participants commented that some of the most important experiences they gained were: 1) understanding the impact of human activities on water and the landscape, 2) making new friends in other communities in the Tangsi subwatershed who are facing similar problems, 3) learning how to organize community members, and 4) confidence speaking in public.

Over seven weeks in June and July, the 30 village facilitators will conduct 7-day Field Schools (Sekolah Lapangan) for community members in their own villages, using the same techniques and materials they just acquired in the TOT. The village facilitators range in age from 18 to 54 and come from diverse backgrounds, such as farmers, housewives, carpenters, NGO staff and small traders. ESP will provide the village facilitators with three additional one-day “technical workshops” to help sharpen up their facilitation, leadership, and presentation skills at the beginning, middle, and end of the field schools.

At the start of the Village Facilitator TOT, ESP formed a monitoring and evaluation (MONEV) team, consisting of staff from local NGOs, community water forums, and 14 related local government agencies in Kabupaten Magelang, such as public works, community health center (puskesmas), Perhutani, and the departments of planning, environment, agriculture, and health. The purpose of the MONEV team is to help synchronize the local government planning processes with the community-based planning that emerges in the fifteen villages in the Tangsi subwatershed. The MONEV team was tasked with observing the 8-day TOT and providing feedback to the ESP team. They will also observe and evaluate the implementation of 15 Field Schools implemented by the Village Facilitators with support from ESP. All of the MONEV team members offered enthusiastic support of the ToT and ESP activities in Tangsi, and suggested that ESP and the MONEV team meet with the Bupati of Kabupaten Magelang to discuss the upcoming activities.



MAP BY NOFALDI, ESP YOGYAKARTA/CENTRAL JAVA

ESP produced a series of Quick Response Base Maps of earthquake affected areas and estimated volcanic hazard zones. The maps have quickly become primary base maps for Indonesian government agencies, international and domestic NGOs, US and other military medical operations, and the United Nations agencies.



AKBAR ARIO DIGDO, ESP YOGYAKARTA/CENTRAL JAVA

Participants in ESP's Village Facilitator Training of Trainers (TOT) Workshop discuss photos of water resources taken on a field trip to the Tangsi subwatershed. During the 8-day TOT, they mapped the natural features and built environment in their villages; analyzed the human, natural, physical, social and financial resources in their communities; learned about ESP's thematic areas; and practiced group facilitation and public speaking skills. From July to September, the 30 village facilitators will use their newly acquired skills to conduct sustainable livelihoods assessments in their own villages.

**What does clean mean?** In Sendangrejo, Kabupaten Sleman, on May 16, 2006, nine men were engaged in serious discussion late into the night at the community center. The topic that held their rapt attention at such a late hour was none other than their hygiene behaviors: how they dispose of their garbage, where is the location of their water supply and bathroom facilities within their houses and neighborhoods, what is their concept of the term "clean", when do they wash their hands, what types of community organizations are active in their area, and what forms and type of media communications are commonly used. These nine fathers were participants in an ESP focus group discussion, which is part of a larger formative research study, to gain an understanding of peoples' health and hygiene behaviors related to water, sanitation, and solid waste management.

Focus group discussions were also held with communities in Sinduadi (Kabupaten Sleman), and Salaman and Pucungrejo (Kabupaten Magelang), which all lie within the Progo Watershed. Separate focus group discussions were held for men and women; the only requirements for participation were that they be parents of a child under the age of three, residents of the village, and hold no structural or official position in the village. Participants were asked to draw maps of their villages and floorplans of their houses as well as sort through piles of picture cards with images of bathroom facilities, washing areas, food

preparation areas, and solid waste disposal practices to identify what they thought was clean and not clean.

The formative research study also conducted in-depth interviews of: grandmothers with grandchildren under the age of three, community leaders, water utility companies and the local planning department. All of the data from these various sources is currently being compiled and analyzed by a core ESP team. The results of this study will then be used to help develop ESP's overall national communications strategy as well as regional strategies for health and hygiene behavior change communications.



AKBAR ARIO DIGDO, ESP YOGYAKARTA/CENTRAL JAVA

In recent ESP focus group discussions, groups of fathers and mothers of children under the age of three sorted through piles of picture cards with images of bathroom facilities, washing and food preparation areas, and solid waste to identify their current health and hygiene beliefs and practices. They also drew maps of their villages and floorplans of their houses to identify the existing water, sanitation, and solid waste infrastructure. ESP will use this information to prepare national and regional behavior change communications strategies.

## OTHER HIGHLIGHTS

- **Workplans with Integration Themes:** Following the recommendations of STTA Dr. Chris McGahey's "Strengthening Integration" report, ESP has developed an integrated "mini-ESP" work plan in the Tangsi subwatershed of Kabupaten Magelang that involves all of the ESP components and will explore other integration themes in other areas.
- **Introductory Meetings:** ESP conducted a meeting to introduce USAID and ESP to related Central Java provincial government agencies. We also conducted a 1-day interactive multi-stakeholder workshop (April 18) and a 1-day NGO workshop (May 18) to identify: 1) who is doing what, where, 2) opportunities for collaboration, and 3) possible field sites for ESP Central Java's Year One activities.
- **Small Grants Workshop:** 60 staff from 30 local NGOs, universities, and community groups attended ESP's Small Grants Workshop to learn about this important partnership

mechanism (June 27). Enthusiasm was high as demonstrated by the lively small group discussions that centered on ESP's thematic areas. Participants expressed strong interest to develop and submit concept papers prior to submission of grant proposals.

- **Feasibility Analysis of PDAM Expansion Programs:** ESP identified three options for the implementation of the expansion program of PDAM Kabupaten Magelang and subsequently prepared financial projections and feasibility assessments for each option. A final report was prepared on the financial feasibility assessment of the option selected by PDAM Kabupaten Magelang. ESP completed the analysis of the historical financial performance of PDAM Kota Solo, familiarized with its expansion program, including investment costs and target new connections, and formulated assumptions to be used in the financial projection and feasibility assessment of the expansion program. ESP also analyzed water demand and target number of new connections and calculated the yearly capital expenditures for PDAM Kota Solo and Kabupaten Magelang; participated in the discussion of the planned expansion of service-area coverage of PDAM Kabupaten Sleman through public-private partnership; and analyzed the existing two alternatives for supplying bulk water to the three PDAMs (Yogyakarta, Sleman, and Bantul) in the urban agglomeration of Yogyakarta.
- **ESP Field School Preparations:** ESP's agroforestry, watershed management, and health and hygiene specialists spent several weeks this quarter providing critical input into the design and preparation of the upcoming ESP Field School, which will be held in Padang next quarter to train the newly recruited field assistants in the ESP high priority provinces.
- **Technical Assistance to Water Utilities (PDAM):** ESP has now signed Memorandum of Understanding and work plans with the following PDAM: Kabupaten and Kota Magelang, Kota Solo, and Kota Yogyakarta.
- **Community-Based Solid Waste Assessment:** ESP has prepared tender documents for an assessment of existing community-based solid waste management programs in Yogyakarta, Sleman and Magelang, which will take place from July-September. ESP's sanitation specialist participated in a 2-week comparative study tour to observe ESP Medan, Surabaya, and Bandung's solid waste activities and attended a coordination meeting on local government strategies and policies in the sanitation sector in Medan (19 to 28 June 2006).
- **Community-Based Water Supply:** ESP's Service Delivery and Watershed Management teams led a delegation of community leaders and local government officials from the Tangsi subwatershed on a study tour to Batu, East Java, to see a successful community-based water supply program (June 28-30). Participants learned about legal mechanisms, community participation process, and technical, management, and financial aspects of running a community-based water supply system. Over the next few months, Tangsi community members plan to develop a similar community-based format; ESP will provide technical and facilitation support.
- **Staff Recruitment.** The Public Outreach and Communications Specialist (Akbar Ario Digdo) joined the team on April 4; our new receptionist (Novita) joined the team on May 29; and the GIS specialist (Bapak Judy Kurniawan) joined the team on June 5. Recruitment for a new health & hygiene specialist continues. Four full-time Field Assistants and 2 Field Assistants from local NGO partners joined the team on May 29.

## SECTION 2.6

## EAST JAVA

## INTRODUCTION

**“Scaling up impacts...”** During this quarter, the ESP East Java Program has continued to roll out its project activities among community groups in the cities and districts across the length of the Brantas watershed. It has achieved significant milestones as training programs in personal hygiene and solid waste management have wound up in Dinoyo, Mergosono and Wonokromo and has commenced further programs in Bering in Malang and Gading and Ketabang in Surabaya where it is partnering with other USAID BHS programs: HSP, Air Rahmat and Food Security and Nutrition (DAP) to deliver an integrated approach.

As the quarter has progressed the Program has also started to shift its focus to meet the challenge of scaling up impacts from local communities to whole region. For example, how does ESP respond to the request from the Mayor of Surabaya to help his government achieve progress in community-based waste management across the whole city by the end of calendar 2006 in preparation for new legislation and regulations?

ESP in East Java has identified its distinctive role as targeting the interface between community-based local action, typically led by NGO’s and local community organizations such as the women’s groups (*PKK*) and the youth groups (*Karang Taruna*), and the capacity and willingness of local government agencies to provide competent technical support which can be sustained after ESP ceases to operate. From *hulu* to *hilir* ESP has received requests from local government agencies in Batu, Malang and Kab. Malang, Pasuruan and Mojokerto, and especially from Surabaya for this assistance and workshops and training programs have sought to reinforce, in government, the capacity of local communities to deliver heroic outcomes with limited, but consistent, technical and infrastructure support.

Real ‘on-the-ground’ gains have been made in political support: Batu and Surabaya especially prompting the specter of a genuine political collaboration among the 14 local governments whose jurisdictions fall within the DAS Brantas. Kota Batu established its own Multi-Stakeholder Forum at a meeting held on June 22, 2006 convened by the Environment Agency and discussions mediated by ESP have led to a plan by the Province, in collaboration with the city of Surabaya, for a DAS-wide meeting of political leaders in November to reach agreement on consistent policy and practice with respect to land and water management from *hulu* to *hilir*. In preparation for this meeting, Surabaya City and the East Java Province governments are sending a senior decision-makers’ delegation of five people, including the Mayor, to the 9<sup>th</sup> International Rivers Conference to be held in Brisbane, Australia in September. The organization of the visit was brokered by ESP which was also able to negotiate support for two delegates from AusAID as a collaborative activity among donors. Funding for the remaining three delegates is being paid for by the Surabaya and Province Governments, reinforcing their emerging recognition of the importance of ESP goals to the future health of their communities.

## REGIONAL ACTIVITIES

### **Resolving conflict and solving the dilemma of implementing forest restoration.**

The conservation of the biodiversity-rich TAHURA Raden Soerya depends upon re-establishing an effective forest buffer in the Perhutani-managed state forest which neighbors it. This area, contains up to 12 villages in the Sumber Brantas sub-catchment, the members of which interact with PERHUTANI through a village association LMDH. Forest degradation is most recent and most severe in these lands and the key to effective protection of watershed functions is securing agreement on how this is to be achieved. During this quarter ESP has achieved success in implementing a strategy leading to forest restoration. 115 people representing the community and government stakeholders were facilitated by ESP resulting in an agreed vision and perception of co-management of the forest. 48 representatives of 6,300 households influencing 5,300 ha of production and protection forest were in attendance and, in the co-management setting, agreed that LMDH communities would be grouped into a single representative entity for the City of Batu and would action forest restoration over 2,700 ha of land agreed as 'degraded.' It was estimated that over half a million seedlings of multi-purpose (as opposed to commercial timber) species would be planted on the state forest land – a major concession from Perhutani – which, in return, will be assisted in planting and maintaining timber trees.

Precisely where and how the trees are planted is being determined through community-led participatory watershed management in 10 micro-catchments encompassing each of the LMDH villages. The training for this work is being provided to stakeholders from community and government by ESP, using remote imagery and mapping resources provided by Perhutani and the local Batu government. Seedlings for rehabilitation are to be grown in forestry department and community nurseries. Training in nursery operations was provided by ESP for 51 participants from government and fifteen villages over a period of three days in April. An initial two LMDH community nurseries have recently secured ESP grants for construction with the expectation that as these prove successful they will be extended to other LMDH village areas, on completion of the watershed management plans, by purchase orders. Significant new interest in these endeavors was shown by Jasa Tirta in late June and it is expected that this core government enterprise will be a major ESP partner in the furthering of forest restoration, commencing with formal agreements to be achieved in the coming quarter.

Pilot forest planting by the farmers' group SPGB will commence in the coming quarter in an area of 4 ha on state forest in the community of Tulang Rejo, neighboring the Tahura utilizing financial support through an ESP grant approved in June and with ESP and Perhutani technical assistance. Based on the results of this pilot planting the group will extend its activities to a further 117 ha. The sustainability of community-based forest plantings has always been a problem because of local farmer financial concerns. The ESP approach has been one of building farmer group confidence through empowerment, promoting trust between partners to build security and identifying ways in which restored forest can meet watershed management functions, as well as providing for immediate financial needs. The agreement with the LMDH to invest in multi-purpose tree plantings is being reinforced by a further ESP small grant proposal by LMDH. This proposal, submitted in June will develop value adding technologies and marketing to increase income from the products of these trees.

### Temas: an ESP Anchor Program in the upper Brantas Watershed

The key village of Temas, in the center of Kota Batu has a population of 11,000 and is characteristic of a rural community undergoing urbanization. Settlement is intensifying and an economy based on food processing industries, particularly tahu and chicken processing, has developed. Working with the support of the Mayor and DPRD, ESP has been providing training to key community leaders through the FOKAL MESRA, on alternative approaches to water supply, improved sanitation and solid waste management, as well as promoting the health and hygiene messages. During the quarter, significant progress was made towards the resolution of these problems as the service delivery components of ESP have been added to re-greening efforts implemented in the previous quarter.

The most important achievement has been the completion of a constructed wetland, designed to treat domestic effluent from 110 households and the liquid organic waste from 33 household-scale chicken abattoirs. A large communal septic tank has been linked to 11 sub-surface and surface wetland cells feeding the equivalent of tertiary treated sewage effluent into a final holding tank prior to its re-use and recycling. Built on public village land donated for the function, with local labor and materials, and based on international contemporary design principles, the pilot system is costed at about Rp 200,000 (\$27) per person. The opportunity for cost recovery is guaranteed through the use of the system for the production of fruit and cut flowers. The success of this process involving concept socialization, training and design by ESP has resulted in a commitment from the Mayor of Batu to provide Rp 100 million (\$11,000) for the extension of the wetland treatment system to other locations in the micro-catchment encompassed by the village. In supporting the planning for the extension of the system, ESP is leading a delegation from Batu, Malang and Pasuruan to examine other similar approaches already in place in Bali, while at the same time utilizing DAI *critical pathways* analyses to identify key locations within the landscape for the placement of the new wetlands. A particularly exciting dimension to the idea of constructing



ESP SURABAYA/EAST JAVA

An advanced construction of wetland treatment system in Temas, East Java.

wetlands is that these fit within the long established Javanese cultural traditions related to water management to be further explored in oral history traveling workshops through the upper Brantas in July. Rediscovering and documenting this unique, cultural and spiritual relationship between the rural people and water is critical to sustaining and expanding community land care groups as the basis for land and forest conservation and restoration. The wetland outcome represents an point-of-entry not only to this particular community but also to the local government. Teras was one site for the *formative research* activities completed in June. The confidence which has been built with government has resulted in a further pledge for Rp 200 million (\$22,000) to expand piped clean water access in the Teras community. In addition ESP has provided a pathway for the introduction of the USAID SWS program into the community through 40 volunteers and the foundations have been laid for community-based solid waste training programs to be implemented in the coming quarter.

### **Anchoring and expanding ESP activities in Surabaya**

The last quarter has been concerned with completing some initial activities in Wonokromo, where ESP works with the USAID-HSP, and expanding into new dimensions, including improved access to clean water, while at the same time extending our suite of sanitation, water and health activities into three other parts of Surabaya: Gading, Ketabang and Semampir. It has been a fundamental consideration of the Surabaya strategy that ESP's community work, while focused at the scale of the RW (approximately 1,000 households) targets selected communities representing a range of socio-economic, educational and ethnic backgrounds. The purpose for this is to maximize lessons learned as we meet the challenge of scaling up impacts to the city and region. The three new locations in North Surabaya are all poorer and contain a greater percentage of their population from different cultural origins. In each location the entry points are different, although in Gading in particular the entry point is via the established USAID FSN (DAP) nutrition program. This new site is important as a BHS integrating site involving ESP, FSN, HSP and the Safe Water Systems Programs. Public meetings and training activities in these new sites have already attracted a total of about 300 people with strong support from the local government.

In April and May, the solid waste management and hygiene interventions in Wonokromo completed with 35 community volunteers from PKK trained in waste management and hand washing with soap. ESP reinforced the enthusiasm that these women and men have brought to their tasks as community leaders by organizing and funding a comparative study involving 15 of their most active to prize-winning communities in Jakarta, and in their hosting a comparative study program of about 80 volunteers from the villages of Dinoyo and



ESP SURABAYA/EAST JAVA

**Hand washing with soap puppet show in East Java as part of Hand Washing with Soap campaign.**

Mergosono in Malang. ESP also began to work in May and June with the Surabaya Education Department, to realize the potential of the Wonokromo Senior High School e-TV facility to function as a community resource, extending stories and messages from the Environment



ESP SURABAYA/EAST JAVA

**Women of Wonokromo is actively involved in non-organic waste recycle. An exemplary community initiative in waste reduction efforts.**

and Hygiene volunteers into the broader Wonokromo community. Given that the population of Wonokromo is currently about 46,000 the use of this facility will be monitored to determine how effective it is in getting out the important messages cultivated through the past two quarters in the RW VI and VII, to the larger audience. The finalization activities of the Hand Washing with Soap (HWS) campaign included prize giving to primary schools for puppet show presentations involving some 250 children and monitoring and evaluation activities involving some 200 mothers. In total about 900 children under five were directly involved in the training with our figures in agreement with the results reported from North Sumatra of a significant decline in the incidence of diarrhea.

During the quarter ESP was consistently met with requests to engage more closely with key local government agencies in Surabaya where new legislation is to be introduced in 2007 strengthening government support for community-based waste management. ESP research has identified serious weaknesses in the structure of government at the levels of the Sub-district (Kecamatan) and village

(Kelurahan) that prevent technical connections between city wide execution of solid waste, sanitation and health management and community initiatives. A Seminar examining the role of professional women in waste management and sanitation was held in May This meeting, financially and professionally resourced by ESP attracted an audience of 120 of whom 50 were Sub-District or Village Heads and their staff. With the concurrence of the Mayor, ESP and the Heads of the Waste Management and Health Agencies, have been preparing Action Planning Workshops to be held in August which will seek to educate and coordinate the activities of these key administrators across the 31 city kecamatan to best support and take advantage of existing and future community initiatives.

## OTHER HIGHLIGHTS

- **OECD DAC review of USAID Indonesia programs** visited East Java in mid May and explored integrated BHS activities in Surabaya with a particular geographic focus on the urban community of Wonokromo where ESP is working in collaboration with the Health Services Program on water and sanitation activities and improved access to primary health care.
- **Malang City PDAM bond credit arrangements** have been proceeding with financial projections completed by ESP for a proposal to Dana Reksa in mid 2007 after

Malang DPRD approval of the PDAM proposal for tariff increases to achieve full cost recovery.

- **A new ESP mediated micro-credit facility with BRI** has been developed and introduced to the PDAM in Surabaya, Gresik, Sidoarjo, Pasuruan and Malang City and District with universally positive interest being shown to this means of extending supply to less financially secure potential customers.
- **PDAM Kota Malang's NRW reduction program demonstrates expertise and management support are keys to success.** ESP technical assistance has been targeting NRW in the PDAM for the quarter, focusing on 2 zones with approximately 4000 connections. The identification and repair of leaks has reduced the NRW in the zone of Tidar by half from 45% to 23%. While less startling results have been achieved in the other zone, the investigations have underlined the complexity of NRW management and introduced new approaches through GIS tracking and mapping of the pipeline network. The importance of the level of technical sophistication which ESP has brought to Malang PDAM has resulted in significant improvement in staff moral and performance and a decision by the Director to establish a new organizational unit specifically to deal with NRW. Results of the ESP assistance will be the basis for expansion to the remaining 20 zones.
- **PDAM Kab. Malang establishing the foundations for reform.** ESP has been providing assistance to the PDAM in two areas. Training in the principles of water supply has been delivered to 150 of the 500 staff. Requests for further training have already been received indicating the value of this initial program to an institution where any staff training has been very limited, and also the recognition by management that training is a strategic requirement to strengthening operational capacity and customer service. ESP has also been implementing a customer satisfaction survey (CSS) among 2,200 respondents to determine how the PDAM might better improve service.
- **Engagement of PDAM Surabaya opens up significant opportunity for better access of urban dwellers to clean water**  
ESP is conducting a Customer Satisfaction Survey of 2400 customers in collaboration with the PDAM, through an MOU and contract with the University of Surabaya. This important study is one of several requests which have been under investigation by the PDAM and ESP during the past quarter. The areas of developing ESP assistance include energy saving, assets management, NRW, hydraulic modeling, water quality management, GIS/MIS, and training programs.
- **Surabaya City PDAM working with ESP and World Bank to implement water for the poor solutions through a BNI micro-credit facility and the World Bank subsidized OBA scheme.** Initially targeting 5,700 connections, this collaborative initiative is working with GIS physical and social data and the prospective increase in PDAM supply capacity with the Karang Pilang V development to target, through public policy reform, the poor and disadvantaged of Surabaya consistent with ESP primary objectives
- **ESP is working in collaboration with Jasa Tirta to promote a river watch community through 68 Senior High schools.** A network of Senior High Schools throughout the DAS Brantas has been established to focus students' technical training on water quality assessment. ESP is lending its expertise to the consolidation of this network and its extension to a more comprehensive community network of Water Care organizations to raise awareness among the community as a whole of the importance of clean water and the role of the individual in achieving this through improved sanitation and waste management. This initiative is only one of a suite of collaborative projects being assembled between ESP and Jasa Tirta who each year allocate a billion Rupiah for conservation activities in the Brantas and Solo River systems.

- **Biodiversity conservation planning for TAHURA Raden Soeryo and Taman Nasional Bromo-Tenggar-Semaru** is gathering momentum with the lead management agencies in both protected areas seeking ESP assistance in management planning and in determining positive interactions with neighboring and enclave communities. In the Bromo-Tenggar-Semaru National Park this involves 66 villages where sustainable livelihood options will make a difference. Options for sustainable livelihoods are being explored directly with 12 LMDH villages in Batu for the TAHURA Raden Soeryo and with a grant proposal for value added production from secondary plant products associated with agreed reforestation programs being supported by ESP participatory watershed planning and community nursery establishment. An ESP traveling workshop reached approximately 150 stakeholders from community groups, NGO's government and industry from Batu, Malang, Pasuruan and Mojokerto, as a preliminary process in the formulation of a management plan.
- **Formative Research identifies community attitudes and perceptions about environment, clean water sanitation and waste management** through intensive focus group interviews in six village communities. These villages represented high upland rural communities (Oro Oro Ombo), upland urban communities (Temas) and urban communities in Malang (Bering) and Surabaya (Wonokromo, Gading and Medoan Ayu). Mens' and womens' groups were interviewed and the data obtained will demonstrate how different social and economic backgrounds and living environment, ethnicity and education define the challenges of behavior change.
- **ESP works with USAID's Air Rahmat for early launch of activities in East Java.** Commencing in mid-May ESP collaborated with the USAID Safe Water Systems Program to launch *Air Rahmat* as a solution to the preparation of clean drinking water in households in urban communities in Surabaya, Malang and Batu. The decision to launch the program early recognized the opportunity existing in communities in which ESP was already active with environmental and health training volunteers, to make an immediate difference to health outcomes among people who were faced with difficult financial challenges on the back of recent huge fuel increases which were interfering with their long established practices of boiling prior to drinking.
- **Can community television make a difference?** Community radio and television offers an untapped medium for expanding access to the messages which ESP is promoting for behavior change. In Wonokromo ESP and HSP are working in three of the 8 RW. Can community TV extend the messages which are being carried by BHS supported community volunteers to a wider audience? The Senior Vocational High School in Wonokromo has recently been awarded international recognition of its efforts in quality education through an ISO14000 certificate and with ESP financial and technical expertise is seeking to use its educational TV facility to convey messages to local audiences concerning Wonokromo's progress to better water management.
- **A new Association of Environmental Journalists offers promise of better informed and more consistent public outreach and debate.** ESP leadership and technical and financial support has backed the June formation of the East Java Environmental Journalists Association supported by major media groups in Surabaya and Malang, including the Jawa Pos Group and university communication schools, especially Airlangga, Petra and Universitas Merdeka Malang. Between June 9-12, 35 young journalists participated in a traveling in-service training program visiting typical environmental problem sites in the DAS Brantas, dialoguing with senior journalists and scientists as to how to interpret these issues for public outreach. In addition, press conferences with key government and semi government institutions helped to establish understanding and a network for information exchange. A Hot Line Call Center is planned to provide journalists with high quality advice in what is for them a new and difficult field.

## SECTION 2.7

# SPECIAL CONCERN IMPERATIVE AREAS

WMD (*Water Maatschappij Drenthe*) is ESP partner organization for the development of Water Supply in East Indonesia. It is currently working in ten locations, of which two overlap with the target area of ESP: Manado and Jayapura.

In Manado ESP is currently implementing a household census, which was for 60% completed (end June'06). Progress is slower than expected, because of the reluctance by ca. 50% of registered PDAM customers to provide information, due to various reasons: customers never pay the bills, have an illegal connection system (bypass), broke the water meter, never received water from PDAM for a long time. The third party (University De LaSalle), in collaboration with PDAM and WMD staff will cross-check customer data and return to these customers. In addition to this valuable support to PDAM Manado, ESP also provides support to PDAM/Local G'ment to draft examples of local regulations on topics like illegal connections, replacement of water meters, etc. These example regulations (PERDA) will be very useful as well for other areas where ESP is working with PDAM. Finally ESP and WMD are collaborating on the development of PDAM operator training modules, which will be introduced for PDAM in Eastern Indonesia by WMD in a newly established PDAM regional training centre in Manado. WMD will cover all training cost for all PDAM operators, within their target area, including Manado and Jayapura.

WMD signed in June 2006 an agreement with the Local Government of Kota Jayapura to establish a new Joint Venture Company (PT Tirta Mumbai). The transfer of PDAM from Kabupaten Jayapura to Kota Jayapura is in progress. WMD and Local G'ment have identified a first project in the Maura Tami area where a water source and new supply system will be developed (200-500 new house connections in the first phase). The project, budgets and is under development. ESP is collaborating with WMD, especially with the provision of office facilities in Jayapura.

### SECTION 3

# NATIONAL & PROGRAM MANAGEMENT UPDATES

## INTRODUCTION

In this Section, we present a more detailed account of the Program's activities at the national level as well as significant achievements related to Program Management. This Section is divided into the following Sub-Sections:

**Section 3.1 National Updates**

**Section 3.2 Program Management Updates**



## SECTION 3.1

# NATIONAL UPDATES

## INTRODUCTION

Section 3.1 provides an update on initiatives within ESP's technical components that are occurring at the national level and which are therefore not associated with a defined geographic region.

## ENVIRONMENTAL FINANCE

Significant developments that are part of the municipal finance team Work Plan are described below, organized under appropriate headers.

- Indonesian Water Fund (IWF). Government formally approved on 29 June 2006 at a special workshop held at the Hotel Borobodur, an ESP proposal to implement IWF - although considerable follow-up remains to be done to ensure a successful first trial closing. The IWF is not an investment or infrastructure fund, rather it is a mechanism for financing water utilities that involves a strategic partnership between USAID / ESP, Japanese Bank for International Collaboration (JBIC), Ministry of Finance (MOF) and PT Danareksa, the largest investment bank in Indonesia. This workshop was the culmination of a very large number of meetings at high levels held with concerned ministries, MOF, BAPPENAS, MOHA and Public Works over a period of 6-months. A partial list of meetings occurring in May and June are included in Table 3, attached to this report.

The IWF is a mechanism for mobilizing finance for water utilities over a 12-year period. Through a door-to-door underwriting arranged by PT Danareksa, the IWF would provide seamless construction finance through private commercial banks and other short-term lenders, with draws on available credit extending over the period of construction, normally up to 2-years. At the commissioning of a given facility, this phase would be followed by a subsequent take-out of construction finance using a public placement in the bond markets, with repayment scheduled over a 10-year period. The concept involves several mechanisms that are new to the Indonesian water sector each of which is critically important in a successful execution: (a) up to 12-year commercial finance made available through the investment bank's underwriting; (b) the structural use of a securitization instrument and the pooling of borrowers in order to meet minimum bond size criteria neither of which have been used before in the capital markets; (c) strict tendering by each borrower of capital expenditure through turnkey construction services based on principals of 'fixed schedule, fixed construction price'; and (d) reliance on partial credit guarantees, such as offered through USAID Development Credit Authority or other donors.

The above concept, if successful, will replace existing modes of finance, traditionally available through MOF, for about 15 -25 utilities in Java and Sumatra. The concept is important step toward commercializing the access to credit for the water sector in Indonesia; for a fuller implementation of decentralization, municipal finance and,

particularly over a foreseeable mid-term, public sector financing of sanitation and solid waste facilities.

The first cluster of projects proposed for financing include PDAM Kt Bogor and PDAM Kb Bogor. There are 10 other PDAMs that have expressed interest in the same financing.

- Corporate Finance for Water Utilities. The following feasibility studies for water utilities have been completed or are in process, as shown in Tables 1 and 2 below, along with their major attributes including dimensions of the offering. The first cluster of projects in Table 1 is now being readied for an approach to the public markets through the IWF mechanism, described above.

**Table 1 First Project Cluster Being Readied for Bond Market**

Institution (PDAM/PEMDA)	Investment Items	Financing Instrument		Potential New Connections
		Loan (Rp billion)	PPP (Rp billion)	
**PDAM Kt. Bogor	System Expansion	46.0		6,000
**PDAM Kb. Bogor (East)	System Expansion, WTP	78.2		13,000
**PDAM Kb. Bogor (Central)	System Expansion, WTP	87.4		11,000
<b>Sub Total</b>		<b>211.6</b>	<b>0</b>	<b>30,000</b>

Separate and subsequent project clusters would be created from the projects that make up Table 2. Projects in Table 1 and 2 with an asterisk besides them are those that have been completed. Those with two asterisks have been discussed with the respective local parliaments (DPRD) as an approval is needed from these prior to formalizing the approach.

**Table 2 Subsequent Project Clusters Awaiting Organization**

Institution (PDAM/PEMDA)	Investment Items	Financing Instrument		Potential New Connections
		Loan (Rp billion)	PPP (Rp billion)	
*PDAM Kt. Medan	System Expansion, WTP	57.5		50,000
PDAM Kb. Subang	Bulk Water Supply		30.0	6,000
PDAM Kb. Subang (Pmkn)	System Expansion, WTP		50.0	9,000
PDAM Kt. Surakarta	System Expansion, WTP	79.4		27,000
*PDAM Kb. Magelang	System Expansion	34.5		4,012
PDAM Kb. Bandung	Water Treatment Plant	205.9		26,000
*PDAM Kt. Bandung	Water Treatment Plant		150.0	60,000
*PDAM Kt. Cirebon	System Expansion	157.6		28,500
*PDAM Kt. Cirebon	Bulk Water Supply		122.0	
*PDAM Kt. Malang	System Expansion	46.0		16,800
PEMDA Kt. Balikpapan	Municipal Bond	119.6		
<b>Sub Total</b>		<b>700.4</b>	<b>352.0</b>	<b>227,312</b>

- Bank Rakyat Indonesia (BRI) micro-credit program. An agreement was arrived at between ESP and Bank Rakyat Indonesia to provide micro-credit to homeowners interested in connecting their households to the piped water network. The program would include formal micro-credit arrangements executed between BRI branches in 26 cities in ESP high priority provinces of Java and Sumatra with their counterpart utilities in the same cities. The program is aimed particularly at households that can afford to pay monthly water usage fees but are deterred from connecting to the grid because of the high connection costs. ESP is providing technical assistance to the program by visiting each and every utility and counterpart BRI branch to explain the program and its operation, assist in negotiating the agreements and generally facilitating the process. Thus far, 17 utilities and counterpart BRI branches have been approached with all but two utilities confirming their interest in commencing formal discussions on the arrangements. Those utilities that are disinterested in the water connections do not have enough supply of water to be able to accommodate the program.
- Municipal Finance for Balikpapan. Pak Sarjono head of the BAPPEDA in Balikpapan has now confirmed his readiness to finalize the scope of work on 11 July 2007 for a large environmental feasibility study project, to be financed through a municipal bond offering in mid-2007. The proposed project will have three components to it: (a) watershed reforestation over a large watershed located north of the city; (b) creation of an arboretum (protected area) facility similar to that in Bogor; and (c) a bulk water and pipeline from the reforested (protected) area into a water treatment facility located north of the city. The bond offering, the first municipal bond for in Indonesia, is roughly estimated to cost US\$10 million and may be a demonstration project for other utilities. The project will be developed in collaboration with the watershed management team.

Concomitant with this development, the municipal finance team has offered to provide technical assistance to the Ministry of Finance and BAPEPAM (the Securities Exchange Commission) in order to draft an operational regulation that would provide guidance and an approval process for the issuance by municipalities in the country of bond instruments in the capital markets.

- Payments for Environmental Services (PES). In collaboration with the watershed management team, a pre-bid conference was held with interested bidders on 23 June 2006 at ESP for the Small Grant program request for proposals for the Payments for Environmental Services (PES). The objective of this program is to develop case studies related to eight (8) implementations of PES programs in Indonesia to determine best practice standards. Payments for environmental services or PES involve initially voluntary payments by users of environmental services (water utilities, farmers, miners and others) for the purpose of using these funds to pay independent agents to implement conservation programs aimed at improving the quality, quantity and flow of water throughout the course of the year. Proposals are expected to be received from 8 organizations on 8 July 2006, the due date for submissions.
- World Bank OBA Program for Surabaya. In a collaboration with the East Java Regional Office and Service Delivery Team, an initiative that parallels the BRI Micro-credit program has been developed, representing a potential collaboration with the World Bank Output Based Aid (OBA) program in Surabaya - specifically involving subsidies for the very poor to ensure their connection to the piped water network.

The scope of work has been drafted, by the finance team in collaboration with the service delivery team, has been sent to the World Bank and ESP Regional Office for markups. The program together with the micro-credit project is expected to augment the number of household connections in Surabaya by combining World Bank OBA for the very poor, with the BRI micro-credit program targeted at those households that can afford to pay for the connections on the basis of deferred credit. A visit from the World Bank to Surabaya is expected on 7 July 2006 for the purpose of discussing the scope and finalizing it with the mayor of Surabaya and the President Director of the PDAM, Pak Salim. Jim Davie, Regional Advisor in Surabaya, will represent ESP at the meeting and, once agreement is reached, process the purchase order for implementation.

### Meetings with Government

Significant meetings held with government during the period under review are list in chronological order in Table 3. They cover meetings held regarding Indonesian Water Fund, BRI micro-credit program and in particular the workshop held on 29 June, at which time the government approved the IWF concept.

**Table 3 Key Meetings May and June 2006 with Government and SOEs**

#### To Advance IWF, Micro-Credit and Public Private Partnership Program

ESP Individual	Purpose of Meeting	Official Hosting Meeting	Date
Bob, Benny, Poppy, Nugroho, Saiful (with USAID team)	Discuss IWF concept and agree on risk sharing	Danareksa Management including legal team	4 May'06
Bob, Nugroho	Discuss ESP collaboration and MOU	Head BP2SPAM – public private partnerships	5 May'06
Bob, Andre (with USAID team)	Continuation of discussion on risk sharing on IWF	Danareksa Management Including legal team	11 May'06
Bob, David, Andre (with USAID team)	Describe progress on risk sharing	Briefing Ministry of Finance Director General Mulia Nasution, Treasury	12 May'06
Bob, Andre, Gusril (with USAID team)	Continuation of discussion on risk sharing on IWF	Danareksa Management including legal team	18 May'06
Bob, Andre (with USAID team)	Describe progress on risk sharing	Briefing Ministry of Finance Director General Mulia Nasution, Treasury	19 May'06
Bob, David, Andre (with USAID team)	Describe IWF Concept and bond issuance procedure	Briefing Bappepam, SEC Fuad Rachmani and staff Rahmani)	19 May'06
Bob, David, Andre (with USAID team)	Describe IWF Concept	Briefing, Ministry of Public Work (PU) and staff	22 May'06
Bob, Benny, Gusril (with USAID team)	Discuss BRI micro-credit program for households	BRI – Andi Ascarya	23 May'06
Bob, Benny	Clear up technical issues	Danareksa	24 May'06
Bob, Andre, Poppy (with USAID team)	Closure on risk sharing	Danareksa – Erwin Syahrudad, Head of Research and legal staff	30 May'06

Gusril	Describe schedule of branch visits for micro-credit program	BRI – Andi Ascarya	30 May'06
Bob Parra (with USAID team)	Brief JBIC on structure and risk sharing	Danareksa – Yamamura, Project Officer	5 May'06
Bob Parra	Brief ministry on progress made on risk sharing	Ministry of Home Affairs – Director Daeng and staff	6 June'06
Bob Parra -	Update on IWF	Bappenas - Nugroho assistant to Director General for National Planning	6 June'06
Bob Parra	Solicit support for IWF concept	Danareksa – Raden Pardede, Head of State Enterprises	13 June'06
Bob, Poppy, Gusril, Trigeany, Jessica	Finalize arrangements for BRI micro credit program- households	BRI – Andi Ascarya	15 June'06
Bob, David	Final preparation for IWF Workshop	Ministry of Finance – DG Mulia Nasution, Head of Treasury Dept	22 June'06
Bob, Poppy, Gusril	Briefing on progress made regarding water utilities	BRI – Andi Ascarya	26 June'06
Bob, Andre	Clarification of issues	Danareksa and legal staff	29 June'06
Bob, Andre, David, Poppy Full USAID team	Secure government approval for IWF	IWF Workshop – Hotel Borobudur, with several government ministries	29 June'06

## WATERSHED MANAGEMENT AND BIODIVERSITY CONSERVATION

During this Quarter, the WSM Group focused on deepening and expanding impact of its work through three inter-related initiatives, participatory watershed management planning, biodiversity conservation management, and final preparations for an ESP WSM TOT that will train 38 new Field Assistants and NGO partner staff expanding impact on the ground.

- Multi-Stakeholder Watershed Management Planning.** The Watershed Management Team facilitated a pilot participatory watershed management planning process in Cianjur, West Java. Working with the Cianjur Multi-Stakeholder WSM Forum and an abundance of primary data collected and analyzed in the field, WSM staff from other HPPs worked on developing a pilot approach to WSM Action Planning. Following principles of adaptive management, and drawing from a wealth of experience including site-based conservation management planning, Development Pathways, threats analysis and other approaches supporting an iterative and participatory planning process, ESP was able to break the mold of traditional Watershed Management Plans that tend to be quite dense and user unfriendly.

The Cianjur WSM Action Plan provides specific goals and objectives, narrows down activities to geographic areas of greatest significance in terms of biodiversity conservation, land rehabilitation and water resource protection, and integrates health and ecology aspects of water in peoples' day-to-day lives. This Action Plan will be the basis for on-going ESP work in Cianjur, and is expected to be adapted in participatory planning processes in other ESP HPPs.

- **Biodiversity Conservation Management.** Dr. Darrell Kitchener continued to work with ESP staff on strengthening the conceptual framework of biodiversity conservation in our work, and for implementing effective and scaleable conservation activities. A significant report, ESP Conservation Assessment and Action Plan, was completed and submitted to USAID. This report provides a detailed approach to biodiversity conservation in ESP. Building from this report, Dr. Kitchener worked with WSM Team members in Jakarta and across Indonesia to strengthen integrated conservation and development approaches to protected areas management in ESP HPPs.

Two significant approaches have emerged. First, ESP is taking a systematic approach to conservation management of Tahuras, or Grand Forest Parks. Tahuras are protected areas managed at the provincial level. There is no evidence that Tahuras have been a conservation priority by either the government or non-government conservation community. Given the prevalence of Tahuras in upper-watersheds of ESP sites, ESP is taking a systematic approach to strengthening local conservation management of Tahuras as part of our integrated watershed management. Additionally, ESP is working closely with the Ministry of Forestry's PHKA on supporting the National Park Model program. Two of five parks in this program are in ESP sites, including Gunung Gede Pangrango, in West Java, and Bromo Tengger-Semeru in East Java. ESP support through the Desa Konservasi, or Conservation Village, approach will contribute to ESP conservation management outcomes in our HPPs as well as positively influence local conservation management policy and practices in National Parks across Indonesia.

- **ESP WSM Training of Trainers (TOT) Program Development.** This Quarter included significant progress on the preparation of the ESP WSM TOT, a twelve-week residential training program to be launched on July 5, in Solok, West Sumatra, to train 38 ESP Field Assistants and Partners in the skills necessary to ramp-up effective field activities in rural communities of upper- and mid-stream watersheds. Focusing on water ecology from an integrated environment and health perspective, this TOT will build skills in facilitation, adult and non-formal approaches to education, participatory conservation management, community mapping, agroforestry and agricultural development, health and hygiene, community water and sanitation management, community solid waste management, and conflict management. A core group of four trainers will facilitate this field-based training, and ESP staff representing all technical components and cross cutting themes will provide specific technical input over the course of the training.

Key activities in preparing for the TOT included two curriculum development workshops, one in Medan to prepare training modules and one in Padang to fine-tune the overall training curriculum and schedule. Additionally, a rigorous Field Assistant and Partner recruitment process was initiated in late April, and successful Field Assistants and Partners began working with ESP WSM Teams in each HPP in order to learn about local sites and issues in order to ensure their successful return to work in their respective HPPs after the TOT, in late September. Finally, the core training team spent extensive time in Solok, West Sumatra, preparing the TOT site. This includes training and dormitory facilities, as well as identifying sites for community field schools that will be the core of training activities over the course of the TOT.

## SERVICE DELIVERY

The National program of the Service Delivery team focused in this quarter on further development of programs identified in the work plan, especially in the fields of increased efficiency of and access to water supply services, comprehensive sanitation program and further work on community based solid waste program. The following list shows a number of highlights.

- **PDAM Capacity building programs.** ESP initiated a large PDAM operator training program in collaboration with WMD, ESP Dutch partner organization working in Eastern Indonesia and SABSAS, another Dutch organization working in North-Sumatra and Aceh. Implementation will be done by the Perpamsi Training Foundation. Module topics and layout have been agreed upon and contracts developed for module writing. In addition ESP also initiated a couple of round table discussions with senior PDAM directors, Local and Central Government representatives on ways to improve PDAM staff motivation and involvement of Local Government in PDAM operation. This will be followed up from July onwards with local seminars, workshops and training programs.
- **PDAM Energy Efficiency Audits.** ESP is collaborating with Eco-Asia, a regional USAID program to develop capacity with four PDAMs and two local companies to conduct Energy Efficiency audits. Specific expertise will be supported by Eco-Asia from the Philippines and ESP will cover all local cost to conduct training and audits in four PDAMs. It is anticipated that the audit will result in an investment program for energy efficient equipment, which will greatly reduce their energy cost and improve pressure management of their distribution system. Negotiations are currently ongoing with a Dutch organization to mobilize Dutch financing as credit for the initial investment cost.
- **Increase Water Supply access for Poor households.** During this Quarter the Service Delivery Team developed two program directly focusing on increasing access to PDAM supply for poor households. With Eco-Asia, a regional USAID program, and PDAM Kota Bandung a large survey for 300+ public taps has been prepared, which will result in improved management of existing systems. ESP also initiated a program with PDAM Surabaya and the World Bank increase individual house connections to urban poor, where ESP will provide all software support and World Bank, through an Output Based Aid program, all hardware cost. Both program will be started in July 2006.
- **Comprehensive Sanitation Program (BORDA subcontract).** Three subcontracts have been negotiated with BORDA, one of DAI's resource organizations, specialized in urban sanitation programs. The first PO includes a large program to develop 10 Community Based Sanitation (CBS) systems in five large cities in Indonesia (Surabaya, Malang, Padang, Medan and Deli-Serdang), which will eventually provide access to improved sanitation to ca. 5,000 people from poor neighborhoods. Coupled with this is a large capacity building program to train 50 Indonesian persons in community mobilization, planning and construction & supervision of CBS systems. The last contract deals with four sanitation mapping programs for the same cities, which includes a program on development of city wide sanitation strategies. All programs will start in July 2006 and finish between 9 - 12 months.

- **Sanitation Exposure visit (Malaysia).** ESP organized a sanitation exposure visit to Malaysia in May for 12 participants from Local Governments and PDAMs from Medan, Deli-Serdang, Padang and Bandung. Host in Malaysia was Indah Water Konsortium (IWK), the National Waste Water Company from Malaysia and partner organization from ESP. The visit was very successful and participants had meetings with directors of IWK, local Governments, Waste Water Treatment systems to discuss various institutional, legal and financial issues. Also field visits to some large and small scale Waste Water treatment systems. Representatives came back very enthusiastic and are now ready to start developing their own city-wide sanitation strategies, especially in Padang, Medan and Bandung.

## SECTION 3.2

## PROGRAM MANAGEMENT UPDATES

## INTRODUCTION

Section 3.2 provides an update on broader Program Management issues, including program operations and reporting, the small grants program, public outreach multi-media campaigns, health and hygiene communications campaigns, and monitoring and evaluation.

## SMALL GRANTS PROGRAM

**Current Progress:** Four small grants programs in North Sumatera and one small grant program in West Java are progressing and received positive responses from the respective local communities and local government agencies. The location of all the four small grants programs in North Sumatera are in the DAS Deli watershed area working from “hulu” to “hilir”. The Tree Nursery and Replant Project implemented by OIC is working in the upper watershed area of DAS Deli, the Urban Water Security Project by Suluh Muda and the Community Water Supply Project by JKM are located in the downstream area and the Coastal Mangrove Rehabilitation Project conducted by YARL is working at the coastal zone of the DAS Deli watershed area.

The "Ecotourism Maps for Gede Pangrango" Project implemented by a local NGO based in Bogor, Wahana Informasi Pariwisata Alam (WIPA) will publish 4 maps and booklets designed for use by ecotourists at the foot of Mt Gede and Pangrango. The maps provide the ecotourist with a vast amount of useful detail presented in a clear and communicative manner and also create a planning tool for local government agencies charged with protecting the upper watershed.

The five small grants programs are closely monitored by the ESP respective staff.

The total cost for the above five small grants programs is approximately \$70,650.00

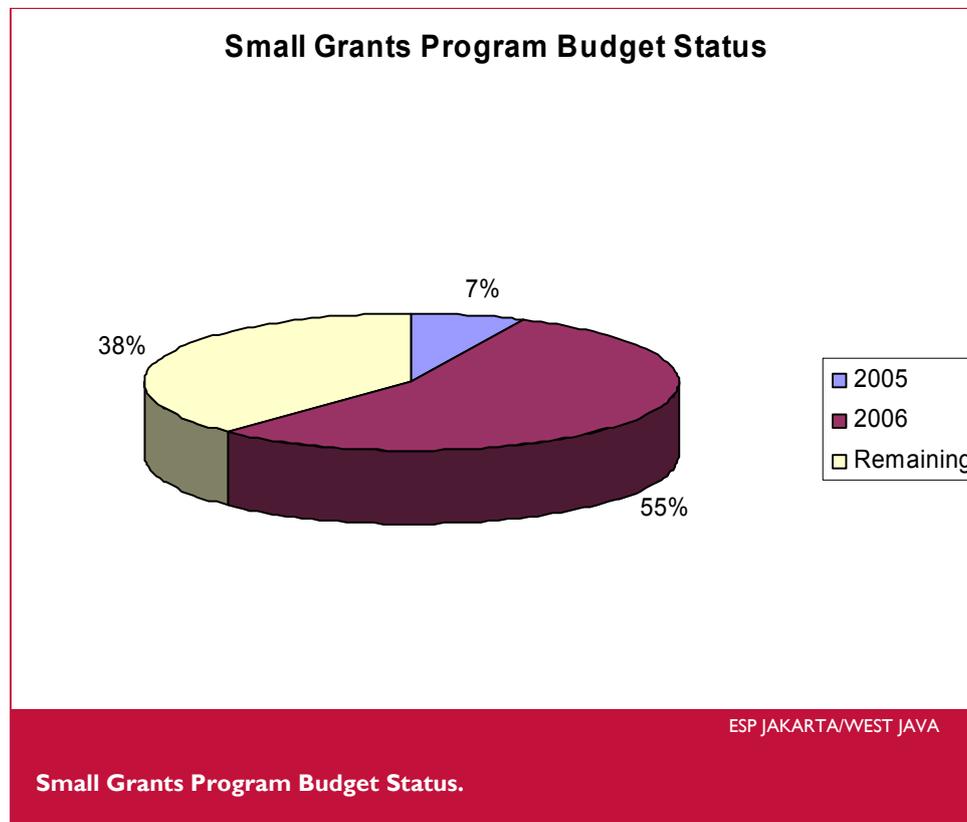
**Plans for Year 2006:** For year 2006, almost all ESP programs in the high priority provinces will have a small grants program. A number of small grants proposals have been approved by USAID and there are several proposals to come from North Sumatera, Aceh, West Java, Central Java, and East Java as indicated below:

Provinces	Year 2006 Plan	Remarks
Aceh	3	2 Rare in-kind Grant approved by USAID, 1 under review by ESP
North Sumatera	9	1 Rare in-kind Grant approved by USAID, 8 under review by ESP
West Sumatera	1	Approved by USAID
West Java	4	2 approved by USAID, 2 in planning stage
Central Java/DIY.	3	1 Rare in-kind Grant approved by USAID, the rest in

Yogyakarta		planning stage
East Java	6	3 approved by USAID (include Rare in-kind grant), 3 under review by ESP
Balikpapan	0	-
Manado	1	Approved by USAID
Manokwari	0	-
Jayapura	0	-
<hr/>		
Total Small Grants Program	27	
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Estimated Total Cost	\$550,000.00	

These small grants programs will be monitored and evaluated by the ESP respective local staff in each high priority provinces.

**Small Grants Budget Status:** It is anticipated that ESP will earmark \$550,000 for the year 2006 small grants program and it appeared with intensive community-based programs to be implemented in both Nangroe Aceh Darussalam and Central Java/DIY.Yogyakarta, additional funding for the small grants program for future program years is needed.



## PUBLIC OUTREACH MULTI-MEDIA CAMPAIGNS

- During this Quarter, ESP wrapped-up one multi-media campaign (MMC), and ramped-up another. ESP completed work on MMC#3, focusing on World Water Day events across Indonesia. This campaign proved to be especially successful, with considerable media exposure and increased interest among journalists to cover water- and health-related topics. In June, ESP started to ramp-up MMC#4, focusing on water resource protection. ESP POCs are working with regional teams and partners, including increasingly active journalist forums, to develop site-specific campaigns that will build understanding of and actions to support water resource conservation in each HPP.

Dates	Type	Description
17 to 19 Jul-06	Training	Media Relations Training for ESP West Java Partners (NGO).
20 to 22-Jul-06	Other	POC national coordination meeting
Jul – Sept 06	Other	Multi Media Campaign V – ‘Environmental Services Reward’.
Aug-06	Other	Cianjur Exhibition at Manggala Wanabakti
Aug – Sept 06	STTA	Communications Consultant for PDAM Bandung Municipality.
Aug – Sept 06	Other	World Water Monitoring Day commemoration support, implementation partner FORKAMI.
September	Other	Commencement of communications campaign to support ESP Program in Cianjur.
July 5-Sept 12		ESP WSM TOT in Solok, West Sumatra

- Additionally, ESP’s Public Outreach and Communications Specialists have been working along side the Health and Communications Team to develop, implement and analyze an extensive Formative Research activity that will help inform ESP regarding up-coming MMCs through the life of the program. Formative Research is discussed in more detail under Health and Hygiene Campaigns, below.

## HEALTH AND HYGIENE COMMUNICATIONS CAMPAIGNS

- This Quarter was marked by significant progress in field-based research and analysis necessary to develop a long-term integrated health and environment behavior change campaign. Central to this was development and implementation of an extensive Formative Research process that looked very specifically at a range of health and environment issues including environment and hygiene practices, perceptions and the establishment of social norms, understanding key institutions involved in the influence of social norms, and identifying possible champions for leading health and environment campaigns.

- After preparing Formative Research topics and Focus Group Discussion (FGD) tools and procedures, ESP staff and STTA facilitated more than 27 4-hour FGDs representing urban, peri-urban, rural communities in all ESP HPPs. Results are currently being analyzed, and provide valuable insight regarding both behavior change and public advocacy. Results of this will be used to develop a long-term health and hygiene behavior change campaign, future Multi-Media Campaigns, and, most important, build more effective links between ESP's behavior change and public advocacy work on health and environment issues.

## **PROGRAM MONITORING AND EVALUATION**

- In order to measure long-term impact of ESP work in the HPPs, ESP launched the use of Longitudinal Studies in a number of points representing the diversity and integration of ESP. Longitudinal studies monitor the impact of activities and change by looking at the same situation through the same lens over different periods of time. By taking pictures, shooting video, recording stories, and collecting qualitative and quantitative information over a period of time at certain sequences, longitudinal studies provide us with an honest picture of change in particular sites.

This Quarter, ESP identified about twenty Longitudinal Study points in the HPPs and began collecting baseline information. Documentary films are being initiated in two sites in North Sumatra, one in Aceh and one in East Java. All other sites will apply various combinations of photographs and case studies. Longitudinal Study points will be visited on a semi-annual basis. Highlights of impact will be presented in ESP Quarterly Reports, ESP News and other project documents.

- Additionally, ESP worked with USAID on the finalization of the ESP Performance Monitoring Plan (PMP). The final draft of ESP's PMP will be submitted to USAID in early July.

## SECTION 4

# PROJECT MONITORING & EVALUATION

## INTRODUCTION

This section contains a chart listing the major components of the Environmental Services Program, along with progress to date against the indicators and second year targets for those indicators, as per the ESP *Performance Monitoring Plan*. The finalized ESP PMP, which was submitted in December 2005, contains the following components:

- **Cross-Cutting Themes Program Management;**
- **Watershed Management and Biodiversity Conservation (WS);**
- **Environmental Service Delivery (SD);**
- **Environmental Services Finance (FN); and**
- **Environmentally Sound Design in Aceh (ESD)**

During in the period of third quarter of the ESP second year (April – June 2006), there are three main activities of ESP Project Monitoring and Evaluation. These activities are: 1) Data collection of the ESP Formative Study; 2) Site selection and Baseline Case Study of the Longitudinal Study; and 3) Finalizing the update version of ESP PMP (Performance Management Plan).

The data collection of the ESP Formative Research was conducted in 7 ESP provinces though the implementation of 29 Community Group meetings and depth interview with various respondents. The M&E's perspective, the study will contribute to the identifying the base information for the development of ESP communication strategy. The strategy will include the strategy for monitoring activities of the ESP communication program including Health and Hygiene program. The health and hygiene monitoring activities will be based on the indicators stated in PMP.

ESP plans to conduct the Longitudinal Study to present the program achievement in several sites. The study will be updated every six months. In this quarter, the Longitudinal Study activities have been done are site selection and development of baseline case study.

The activity related to the PMP development during in this quarter is finalizing the revision of PMP document. The revision of the PMP document is focus on synchronizing the ESP PMP and the BHS PMP. There are 25 ESP indicators that will be contributed to USAID-HBS/MHE indicators, 18 of them will be contributed to USAID's reporting to Washington.

ESP Monitoring and Evaluation activities planned for the next quarter are:

- Development of intake forms to value the ESP targets based on the PMP indicators. These forms will be used to collect data of the actual achievement that will be submitted for the annual report.
- Update story of the Longitudinal Study location
- Involve in the development of ESP communication strategy

**ESP Progress based on PMP**

Period: April – June 2006

Component: Cross Cutting Theme/Integration			
Deliverable	Indicator	Second Year Target	Progress
Leveraging other financial support for Environmental Services Program	<ol style="list-style-type: none"> <li>1. Level of funding to support ESP activities</li> <li>2. Number of Public Private Partnership (PPP) developed to support ESP activities</li> </ol>	<ol style="list-style-type: none"> <li>1. \$ 500,000 (\$ 2,000,000 over project life)</li> <li>2. 5 PPPs (25 PPPs over project life)</li> </ol>	<ol style="list-style-type: none"> <li>3. Total leveraging for this period was <b>approximately \$1,098,000</b>. This amount was leveraged from several sources, such as:                             <ul style="list-style-type: none"> <li>• Local Government of Kota Batu contributed \$10,000 for the development of wetland treatment system in Temas of Batu District.</li> <li>• AusAID provided approx. \$4,000 for international conference for Local Gov't of Surabaya and provincial government to support ESP initiatives for DAS Brantas. Total 5 people attended the conference.</li> <li>• ESP/East-Java co-financed 6 PDAM senior staff to join manager training in Jakarta. Total PDAM contribution is around \$ 4,000</li> <li>• Cost-sharing of implementation of household census for 160,000 households in Kota Bogor. Leveraging from PDAM Bogor is \$ 60,000</li> <li>• Collaboration with WMD and SABSAS (two Dutch funded programs) for development of practical, comprehensive PDAM operator training modules with YPTD (ESP partner organization). Cost sharing by WMD + SABSAS \$ 20,000 (which is 75% of total cost)</li> <li>• IDRC funded HP3 (Healthy Places, Prosperous People) project formally commenced on 15<sup>th</sup> June. HP3 will focus on improving basic services (solid waste, sanitation and water supply) in poor communities in North-Jakarta. ESP is one of key partners in the winning proposal. Total budget allocated by IDRC is around \$ 1,000,000</li> </ul> </li> </ol>

			<p>4. To date, total leveraged amounts <b>up to this quarter of the second year is \$ 1,635,000</b>. This amount already exceeds the targeted total amount for the 2<sup>nd</sup> fiscal year of the project.</p>
<p>Collaborative program to support the Strategic Objective (SO) of Basic Human Service (BHS)</p>	<p>Number of integrated programs between ESP and other USAID Programs</p>	<p>Two joint programs of integration conducted by ESP and other USAID partners (10 joint programs over project life)</p>	<p>– During in this quarter, ESP conducted <b>six collaborative programs</b> with other USAID Program across the HPPs, as follow:</p> <ul style="list-style-type: none"> <li>○ Hand washing with Soap campaign launch in Aceh together with HSP, CARE and Project Hope Japan.</li> <li>○ ESP partnered with USAID Food Security and Nutrition (DAP), HSP and SWS in integrated program in Kecamatan Tambaksari, Surabaya, East Java.</li> <li>○ Partnership with HSP and Aman Tirta in Wonokromo, Surabaya, East Java.</li> <li>○ Partnership with Aman Tirta in three sub-districts in Malang, East Java.</li> <li>○ Collaborating with USAID/OFDA for WatSan Assessment for Bantul district after earthquake</li> <li>○ Partnership with DBE on WatSan schools assessment in Bantul district.</li> </ul> <p>To date, ESP has conducted a total of <b>fifteen (15) collaborative programs</b> with other USAID programs. This achievement has exceeded the target for FY2006.</p>
<p>Public Outreach and Communication</p>	<ol style="list-style-type: none"> <li>1. Number of campaign conducted by ESP</li> <li>2. Number of campaign conducted by ESP partners/stakeholders</li> <li>3. Number of materials produced for advocacy and BCC activities</li> <li>4. Number of ESP partners/ stakeholders with improved advocacy and BCC capacity</li> </ol>	<ol style="list-style-type: none"> <li>1. Twelve (12) campaigns conducted by ESP (80 campaigns conducted by ESP over project life)</li> <li>2. Six (6) campaigns conducted by ESP partners/ stakeholders (40 campaigns conducted by ESP partners over project life)</li> <li>3. Twelve (12) sets of advocacy materials</li> </ol>	<ol style="list-style-type: none"> <li>1. In this quarter, ESP has conducted <b>7 Public Outreach &amp; Communications Campaign activities</b>. Total achievement up to this quarter is <b>19 campaigns</b>. This exceeds the target for this year.</li> <li>2. The activities were: <ul style="list-style-type: none"> <li>○ These POC activities consist of Multi Media Campaign (MMC#4) on the topic of “Water Resources Conservation”. The campaign conducted at HPP areas (except for NAD) through media talk shows and journalist visits.</li> <li>○ Four campaign activities supporting WSM issues have been conducted in North Sumatra, West Java, and Padang (West</li> </ul> </li> </ol>

		<p>produced for campaign activities (80 sets of materials produced for campaign activities over project life)</p>	<p>Sumatra).</p> <ul style="list-style-type: none"> <li>○ Two campaigns supporting Services Delivery Issues conducted at Banda Aceh, NAD and Surabaya, East Java.</li> </ul> <ol style="list-style-type: none"> <li>2. For the program communication, ESP produced 3 volumes of ESP News.</li> <li>3. There were <b>five campaigns supported by ESP partners/stakeholders</b> in Subang (West Java), Surabaya (East Java), Bandung (West Java) and Padang (West Sumatra). The campaign was conducted by Subang Local Government (Subang), K3A (Bandung), Dewan Kota (Surabaya) and Relawan Hutan Indonesia (Padang).</li> <li>4. During the quarter, there were <b>27 organizations exposed to the campaigns</b>, as they were involved as implementing partner/resource person in an event and or media campaign. ( University (1), government agencies (8), media (4), NGO (14))</li> <li>5. Over the quarter, ESP produced <b>4 types of communications material set on</b> Safe Water Point of Use, 'Cinta air' and World Water Day ranging from media fact sheets, TV talk show, radio talk show, to event attractions.</li> <li>6. Water and health issues were placed in <b>54 media</b>, both local and national media this quarter. The total to date is in excess of <b>104 news coverage and media program placed in the media.</b></li> </ol>
<p>People participation in the ESP trainings and workshops</p>	<p>Number of people participate in ESP training and workshop</p>	<p>Three thousand (3,000) people trained (12,000 people trained over project life)</p>	<ul style="list-style-type: none"> <li>• This quarter, ESP has involved <b>3,009 people</b> in the ESP training, workshop and seminars. The percentage of women participation in ESP activities is <b>25.91%</b>. A total budget of <b>\$130,327</b> was spent for the training activities through this quarter.</li> <li>• To date, a total of <b>10,419 people</b> participated in the ESP training, workshops and seminars. This achievement exceeds the target for FY2006. The total cumulative expenditure for training activities up to this period is <b>\$547,203</b></li> <li>• The women participation <b>somewhat decreased</b> compared with the previous quarter which was <b>26.65%</b>.</li> </ul>

Component: Watershed Management and Biodiversity Conservation (WS)			
Outcome	Indicator	Second Year Target	Progress
WS Outcome #1 – The formation of adequate policies at the local level to recognize the tenure and/or access rights of communities to manage their forests and watershed areas, and implement transparent and participatory district-level management of forests, thus reducing conflict and illegal logging	Number of new policies recognizing land tenure and access rights of communities to manage forest land and watershed area	N/A (5 new policies over project life)	<p>As ESP does not anticipate having a new policy on ground this year, even though ESP continues to work to achieve this target. The progress have been achieved during in this quarter were:</p> <ul style="list-style-type: none"> <li>• <u>NAD</u>: In order to support replanting program in Jruek Balee Village, community in Jruek Balee is in process of developing village level policies.</li> <li>• <u>North Sumatra</u>: development of ten year agreement for collaborative management of 500 ha of mangrove forest contained within South East Langkat Wildlife Sanctuary (Wampu Watershed Area). This agreement allows access right to the local community to protect and utilize the forest area.</li> <li>• <u>East Java</u>: <ul style="list-style-type: none"> <li>○ The Mayor of Kota Batu Decree No. 11 of 2006 was passed during this quarter. This decree identifies specific land blocks (15 RPH Punten, BKPH Pujon, KPH Malang) which are declared recharge zones where any agricultural activity is banned, remaining forest is conserved and converted forest restored.</li> </ul> </li> </ul> <p>Raperda Jasa Lingkungan. Public consultation on Payment for Environmental Services (PES) draft provincial legislation has been on-going under the leadership of Dinas Kehutanan East Java province and Lembaga Paramitra. Financial support has been provided by DFID and ESP with ESP specifically assisting intra-governmental discussions under the Province Coordinating Institution BAKORWIL ensuring strategic direction of the discussions are consistent with the strategic implementation of ESP program objectives and modes of engagement with stakeholders.</p>

<p>WS Outcome #2 – In each High Priority Province, improvement of watershed function in areas supplying water to urban centers and PDAMs as measured by a 50% increased in rehabilitated land (total area of degraded land where trees, commercial or non-commercial are planted)</p>	<p>Increase in area of rehabilitated land and forest, presented as percentage and in hectares</p>	<p>10% (7,046 hectares) (50% = 35,320 ha over project life)</p>	<ul style="list-style-type: none"> <li>• ESP has initiated <b>five (5) groups</b> of community nursery activities across HPPs during this quarter. Descriptions follow:             <ul style="list-style-type: none"> <li>○ <u>NAD</u>: There are three community nursery groups in Jantho Baru, Blang Lambaro and Jruek Balee. Total area of community nursery is 1,175 ha. From these community nurseries will be expected to rehabilitate 31 ha of marginal land in Aceh.</li> <li>○ <u>W. Sumatra</u>: total 20,000 seedling have been planted in two community nursery groups (Batang Arau and Batang Air Dingin watershed areas)</li> <li>○ <u>W. Java</u>: a nursery training was conducted in Cianjur involved 26 farmers from 13 villages of Cianjur District.</li> <li>○ <u>East Java</u>: 52 farmers from Kota Batu, Pasuruan and Blitar have been trained on community based nursery operations.</li> </ul> </li> <li>• Other activities contributing to this outcome conducted during in this quarter was the tree planting program. <b>Total 3,450 ha of watershed area have been planted through the rehabilitation program</b>, as follow;             <ul style="list-style-type: none"> <li>○ <u>W. Sumatra</u>: Total 6,000 trees of mahogany, cacao, rubber have been planted in 240 ha of three watershed areas around Padang Municipality (Batang Arau, Batang Kuranji and Batang Air Dingin)</li> <li>○ <u>W. Java</u>: conduct tree planting program in Subang District by planting approx. 7,500 trees in 710 ha in surrounding area of Spring Cimutan and Ponggang Village. This tree planting program is under collaboration with GRLK (District Rehabilitation Program) organized by District Forestry Office, Perhutani, LMDH and PTPN.</li> <li>○ <u>East Java</u>: Agreement achieved for 2,500 ha of degraded land in Kota Batu to be allocated for restoration utilizing 500.000 viable MPTS (Multipurpose Tree Species) seedlings plus additional timber species provided by Perhutani</li> </ul> </li> </ul> <p>To date, a total <b>12,291 ha</b> of degraded land in HPP watershed areas have been planted through the rehabilitation program. This achievement has exceeded the target for this year, FY2006.</p>
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<p>WS Outcome #3 – In each High Priority Province, the area of forest with high biodiversity conservation value under improved, local management increases by 50%</p>	<p>Increase in forest area with high biodiversity value under improved, local management, presented as percentage and in hectares</p>	<p>10% (16,530 hectares) (50% = 82,650 ha over project life)</p>	<ul style="list-style-type: none"> <li>• During in this quarter, ESP is continuing to work in five (5) forest areas in order to increase the forest area with high biodiversity value under improved and local management. These forest areas are placed in N. Sumatra, W. Sumatra, W. Java and E. Java. Total forest area involved in this work is <b>168,821 ha</b>.</li> <li>• Progress made related to this outcome during in this quarter were:             <ul style="list-style-type: none"> <li>○ <u>W. Sumatra</u>: Tree planting of 40 ha of Tahura Bukit Barisan by 1,000 trees during in the Earth Day Celebration.</li> <li>○ <u>East Java</u>: Traveling workshop to determine issues and conservation targets for a management plan for Tahura R Soerjo conducted over a period of five days involving stakeholders from government, community and industry completed in Pasuruan, Kota Batu and Mojokerto district.</li> </ul> </li> <li>• Other activities related to this outcome is the development of alternative finance to support forest and biodiversity conservation as a national initiative.</li> </ul>
<p>WS Outcome #4: In Aceh, improvement in watershed function with additional focus on the coastal margin directly impacted by the tsunami, as measured by implementation of at least 15 targeted community-based land rehabilitation activities</p>	<p>Number of community-based coastal rehabilitation activities implemented to improve the functioning of the watershed area impacted by the tsunami</p>	<p>3 community-based coastal rehabilitation activities (15 community-based coastal rehabilitation activities over project life)</p>	<ul style="list-style-type: none"> <li>• During this quarter, there were <b>three additional community-based coastal rehabilitation activities</b> conducted in Aceh. These activities as a follow up of the SLA conducted in the previous quarter. A description the activities follows:             <ul style="list-style-type: none"> <li>○ <u>Community Nursery in Lam Seunia</u>. A community group called Pante Lhok Gaca has been established, 625 m<sup>2</sup> of community land is available for Community Nursery location. Plans developed for coastal replanting.</li> <li>○ <u>Community Nursery in Sawang</u>. A community nursery has been established in 800 m<sup>2</sup> of community land, and managed by a new established group called Lageun Indah. This group has 10 members. From the community nursery activities, 1,300 Jaloh plants were planted along Sawang River (5.4 km left and right river side or about 6.5</li> </ul> </li> </ul>

			<p>ha equivalent).</p> <ul style="list-style-type: none"> <li>o <u>Community Nursery in Kuala Meurisi</u>: A community nursery group called Putro Meurendam Dewi has been established, with 625 m2 of community land available for Community Nursery location. This group has 10 members.</li> </ul> <p>To date ESP has accomplished <b>five (5) community-based coastal rehabilitation activities in Aceh</b>. This achievement exceeds the target of this year.</p>
WS task #1 – Development of Watershed Management Plans	Number of WSM plans actually have funds for implementation	4 WSM plans developed (Total 20 WSM plans developed over project life)	<ul style="list-style-type: none"> <li>• This quarter ESP continued to work on development of WSM plans to meet the target of this year. The development of WSM Plans is continuing in 10 watershed targeted areas covering all HPPs.</li> <li>• The activities on the development of WSM plans as described below. <ol style="list-style-type: none"> <li>1. <u>NAD</u>: Establishment of Krueng Aceh Watershed Forum in NAD is in progress.</li> <li>2. <u>N. Sumatra</u>: Development of action plan for joint action within the Deli River watershed by <i>Jaringan Aksi Sungai Deli</i> (Deli River Watershed Action Network) of North Sumatra. The members of this network consist of community members, local and provincial governments, universities, NGOs, and state owned companies such as PDAM Tirtanadi and PELINDO.</li> <li>3. <u>W. Sumatra</u>: Strengthening of <i>Forum PEDAS</i> (community-based network) as the ‘anchor’ of the Multi Stakeholder Watershed Forum that includes Local Governments, NGO, university and local community. This forum is expected to develop the WSM action plan that will be grounded in and supportive of the Forum PEDAS learning network.</li> <li>4. <u>W. Java</u>: Continuation of workshop for development of WSM Plan of DAS Cikundul and Cilaku in Cianjur District. The process of the plan development is</li> </ol> </li> </ul>

			<p>supported by multi stakeholder such as Local Government, Gede Pangrango National Park and NGOs. During this workshop the participants agreed to declare “Forum Pelestari DAS Cikundul and Cilaku”</p> <p>5. <u>East Java</u>: Training commenced for a process of participatory watershed management planning at the micro-DAS scale (approx. 2,000 ha) in 10 locations throughout Kota Batu in the past quarter. Stakeholders have included the communities of the LMDH villages, <i>Fokal Mesra</i>, Local Government ( Bapekot, Dinas Lingkungan Hidup dan Kehutanan), Perhutani with the expectation of financial and technical input also from Jasa Tirta.</p>
WS I-4 Community groups supporting improved natural resource management created	Number of community groups implement activities to improved natural resource management	25 community groups implement activities to improved NRM (150 community groups implement activities to improved NRM over project life)	<ul style="list-style-type: none"> <li>• ESP continues to work with <b>84 community groups (cumulative)</b> across HPPs on the implementation of improving natural resource management. Below are details for each HPP: <ul style="list-style-type: none"> <li>○ <u>NAD</u>: 6 community groups in two districts (Aceh Besar and Aceh Jaya; 4 community groups are located in the coastal area)</li> <li>○ <u>North Sumatra</u>: 29 community groups from 2 districts (Karo and Deli Serdang District)</li> <li>○ <u>West Sumatra</u>: 10 community groups from Padang Municipality</li> <li>○ <u>West Java</u>: 26 community groups from two districts (Subang and Cianjur District)</li> <li>○ <u>East Java</u>: 13 community groups in Batu Municipality</li> </ul> </li> <li>• The activities conducted by the community groups are community nursery, rehabilitation program, Farmer Field School for Ecological Agriculture for citrus and vegetable, Field School in Ecological Rice Production, development of network of community nursery, establishment of the East Java Environmental Journalist Association and development of cooperative campaign program and support to LMDH (Lembaga Masyarakat Desa Hutan).</li> </ul>

Component: Service Delivery (SD)			
Outcome	Indicator	Second Year Target	Progress
SD Outcome #1 – Technical operation and financial management of at least 33 PDAMs is improved in resulting in a 20% increase in revenues from existing water production. A minimum of 3 of these PDAMs shall be in Aceh withdraw	Number of PDAMs providing better services	8 PDAMs (33 PDAMs over project life)	<ul style="list-style-type: none"> <li>• ESP continues to work with <b>20 PDAMs across HPPs and Manado (SCIA)</b> during this quarter. The focus of the ESP's support is on the improvement of technical operation and financial management of PDAM in order to increase the revenue. Total cumulative target for SD #1 up to the second year (FY2006) is 16 PDAMs. In terms of number of PDAMs, ESP has exceeded target for the second year.</li> <li>• Below is the progress achieved during this quarter in each HPP: <ul style="list-style-type: none"> <li>○ <u>NAD</u>: SOP development in PDAM Kota Banda Aceh and Kab. Aceh Barat, PDAM Tirta Mountala Corporate Plan preparation, Tariff review of Siron-2 WTP of PDAM Kab. Aceh Besar, Water Quality Monitoring Program, Management training for middle manager and Capacity Building Assessment in PDAM Lhokseumawe, Pidie dan Bireun</li> <li>○ <u>N. Sumatra</u>: ESP supported PDAM Tirta Malem (Karo) and PDAM Tirta Wampu (Langkat) to conduct internal audit that are being used to pinpoint inefficiencies and training needs. Also, the PDAMs conducted consumer satisfaction survey to have better understanding of gap between corporate and consumer perception of service delivery.</li> <li>○ <u>W. Sumatra</u>: Completion of the corporate plans and consumer satisfaction survey for PDAMs Padang, Bukittinggi and Solok.</li> <li>○ <u>W. Java</u>: ESP continued to support PDAMs in West Java on several activities such as household survey, NRW reduction, improving water quality, energy reduction audits, public tap survey and several capacity building activities.</li> </ul> </li> </ul>

			<ul style="list-style-type: none"> <li>○ <u>East Java</u>: ESP continued to support the PDAM target on several activities such as management training on basis water supply, NRW, customer satisfactory and system improvement ; discussion started on programs to increase access to poor households (possibly in collaboration with World Bank OBA)</li> </ul>
<p>SD Outcome 2 – Population with access to clean water is increased by 20% in ESP geographic areas except for Aceh. In the tsunami impacted areas of Aceh, population with access to clean water is doubled</p>	<p>Percent and number of household that use an improved water source</p>	<p>5% increase (=35,000 HH) (20% increase = 140,000 HH over project life)</p>	<ul style="list-style-type: none"> <li>• During this quarter, ESP is still continuing to count the PDAM’s connections. The data is expected to be completed in the next quarter.</li> <li>• Following describes ESP activities with PDAMs related to improving access to clean water:             <ul style="list-style-type: none"> <li>○ <u>NAD</u>: In order to revitalize customer data base, ESP is doing census of customers and non-customers of PDAM Tirta Daroy Census for about 20,000 households. This activity began in March 2006 and planned to finish on late of July 2006.</li> <li>○ <u>W. Sumatra</u>: Conduct study on social connections in order to extend the clean water access to poor community.</li> <li>○ <u>East Java</u>:                 <ul style="list-style-type: none"> <li>– PDAM Kota Surabaya plans to increase 5,700 connections through ESP direct assistance in line with a plan to develop additional capacity of 2,000 LPS water treatment plant</li> <li>– PDAM Kota Malang, Kab. Malang, Kab. Gresik are installing new piped water connections as the production facilities continue to have available capacity.</li> </ul> </li> </ul> </li> <li>• In addition to counting PDAM connections, several other activities have been done to support the achievement of this outcome. These activities are focused on increasing access of communities to clean water, such as:             <ul style="list-style-type: none"> <li>○ <u>NAD</u>: Development design for distribution system of clean water in Monikeun, Lamkruet, Blang Lambaro,</li> </ul> </li> </ul>

			<p>Jruek Balee, Jantho Baru, Blang Phon Village and Alphan2 Barrack (Meulaboh). These designs will cover a total of 1,435 household connections. The development of these clean water systems is conducted in collaboration with a variety of organizations, such as CARE and LGSP, under ESP's supervision for quality and environmental soundness.</p> <ul style="list-style-type: none"> <li>○ <u>N. Sumatra</u>: Working with <i>Suluh Muda</i> and <i>Jaringan Kesehatan Masyarakat (JKM)</i> (NGO) under Small Grant Program to develop clean water supply for poor community in Sunggal and Medan Maimoon (Medan Municipality). These programs collaborate with PDAM Tirtanadi. It estimates to cover access of clean water for approximately 180 households.</li> <li>○ <u>DKI Jakarta</u>: Completion of the assessment on identification of poor communities that have less access to clean water and identification of household level water treatment technologies for poor communities.</li> </ul>
SD Outcome 3 – In Aceh, at least 20 return communities have developed and are implementing improved water quality, sanitation and solid waste management	Number of return communities in Aceh develop and implement improved water quality, sanitation and solid waste management	3 communities (20 communities over project life)	<p>By the end of this quarter, ESP has been doing several activities to improve water, sanitation &amp; solid waste program in <b>eight (8) return communities</b>. Three (3) in conflict area in Aceh Besar (Blang Lambaro, Jruek Balee, Jantho Baru) and Five (5) in tsunami area (Nusa &amp; Lamkruet in Aceh Besar and Suak Ribe, Cot Darat, Merebo in Aceh Barat). The activities have been conducted are:</p> <ul style="list-style-type: none"> <li>• Designs prepared for sanitation systems in Blang Lambaro, Jruek Balee and Jantho Baru.</li> <li>• Sanitation system under construction in Lamkruet</li> <li>• Sanitation system constructed in Monikuen</li> </ul> <p>This accomplishment to date <b>exceeds</b> the target of this FY2006 year.</p>
SD Outcome #4 – At least 5 sewage treatment proposals are developed in conjunction with local	Number of sewage treatment proposals developed and to be funded by international development bank	N/A (5 proposals over project life)	<p>Progress during in this quarter was limited to the follow up activities of the previous quarter in East Java, West Java and Sumatra Provinces as follow:</p> <ul style="list-style-type: none"> <li>• Scoping sanitation mapping in Surabaya and Malang City and</li> </ul>

<p>or provincial government and submitted to international development banks, such as Japanese Bank for International Development (JBIC), for funding consideration</p>			<p>District, Medan, Deli-Serdang and Padang as the basis for designing sewage collection and treatment systems for those locations</p> <ul style="list-style-type: none"> <li>• Implementation of sanitation mapping in Surabaya Malang District, Padang and Medan waiting finalization of contract with BORDA</li> <li>• Exposure trip to Malaysia to see and discuss operation and management of urban sewerage systems by Municipalities of Surabaya, Malang, Padang, Bandung, Medan and Deli Serdang</li> </ul>
<p>SD Outcome #5 – At least 15 solid waste management plans are developed and implemented. Of these, a minimum of 5 community plans for restored and new facilities will be developed and implemented for return communities in Aceh</p>	<p>Number of community-based Solid Waste Managed Systems (SWMS) developed and implemented</p>	<p>2 SWMSs (15 SWMSs over project life)</p>	<ul style="list-style-type: none"> <li>• During this quarter, <b>one</b> comprehensive community-based solid waste system has been completed in Wonokromo, Surabaya (East Java). Including this achievement, ESP has now completed <b>three SWMS</b>, thus exceeding the target of this year.</li> <li>• Also, ESP is continuing the support on the <b>development of solid waste management systems across the HPPs</b>. Progress varied regionally, with details of progress made in each location as follows:             <ul style="list-style-type: none"> <li>○ <u>Aceh Besar/NAD</u>: Socialization and promotion of solid waste management in Nusa and Lamkruet (Aceh Besar)</li> <li>○ <u>Medan/North Sumatra</u>: Development of community-based SWMS in Tembung Village (Medan Municipality) under collaboration with JBIC and Local NGO <i>Bis Perduli</i>. The progress made included recycling and system of collecting fee to maintain the solid waste management system, campaign related activities, training on hand washing with soap and communication for behavior change, and initiating the village regulation related to solid waste management. This program covers over 50 households and 200 persons. During this quarter, ESP conducted community-to-community cross visit to WPL Bandung and BEST Tangerang to learn more on strengthening of solid waste management.</li> <li>○ <u>DKI Jakarta</u>: Conducted solid waste management assessment as part of sanitation facilities in 7 Puskesmas</li> </ul> </li> </ul>

			<p>in Gambir and Menteng Sub-districts. This assessment was conducted by ESP in collaboration with HSP, ASA, SWS and Mercy Corps.</p> <ul style="list-style-type: none"> <li>○ <u>West Java</u>: Continuation support for development of SWMS in Bandung Municipality (Kelurahan Tamansari), Subang District (Pamanukan) and Cianjur District (Nagrak)</li> <li>○ <u>East Java</u>: Commencing the development of 6 community-based solid waste management systems in Gading and Ketabang (Surabaya); Dinoyo, Mergosono and Bareng (Malang); and Temas (Batu).</li> </ul>
<p>SD Outcome 6 – At least 25 Small Scale Sanitation Systems (SSSS) are developed and implemented. Of these, a minimum of 5 community plans for restored and new facilities will be developed and implemented for return communities in Aceh</p>	<p>Number of small scale sanitation systems developed and implemented</p>	<p>6 SSSSs (25 SSSSs over project life)</p>	<ul style="list-style-type: none"> <li>• Up to this quarter, <b>ESP</b> has <b>achieved 33% target of the second year program</b> through the completion of <b>two</b> small scale sanitation systems in Bandung (West Java).</li> <li>• During this quarter, ESP continued to work on development of SSSS in <b>25 other potential locations</b> across HPPs (including DKI Jakarta and NAD). The systems consist of communal and individual models. The potential areas are: <ul style="list-style-type: none"> <li>○ <u>NAD</u>: 8 potential sites (Monikuen tsunami return villages, Jruek Balee, Jantho Baru, Blang Lambaro, Lambang and Gambong Baru (Meuraxa) and Alpan2 Barracks. In these sites, ESP works mostly in the designing phase of the system.</li> <li>○ <u>North Sumatra</u>: 4 potential sites in Deli Serdang and Medan as a result of the BORDA scoping study.</li> <li>○ <u>West Sumatra</u>: As part of development of community-based sanitation system, several key policy makers from Padang Municipality, including the heads of Development Planning and of Sanitation for the city participated in study tour to Malaysia on urban sanitation. The result of the study is used for development of a sanitation master plan and 2 CBS systems.</li> <li>○ <u>DKI Jakarta</u>: Conduct assessment in 3 communities in Petojo Utara, Penjaringan and Jembatan Besi. This assessment is conducted under collaboration with Mercy</li> </ul> </li> </ul>

			<p>Corp Inc. and BEST. The assessment produced a design of the sanitation facilities that will be built in the coming quarter.</p> <ul style="list-style-type: none"> <li>○ <u>West-Java</u>: Agreements with BPLHD and PDAM for construction of 4 CBS systems, whereby ESP provides software support and Gov't partners all hardware.</li> <li>○ <u>East Java</u>: Contracts for the construction of four community based sanitation systems (CBS) completed for Wonokromo and Rungkut in Surabaya and Kepanjen, Kabupaten Malang.</li> </ul>
<p>SD Outcome #7 – The precursor needed to impact childhood diarrheal disease (clean water and sanitation) are contributed to the BHS effort to reduce in the incidence of childhood diarrheal disease and mortality</p>	<p>Proportion of households that adopted adequate health and hygiene practices within ESP project sites</p>	<p>1% increased (= 64 HH)  (5% increased/= 320 HH over project life)</p>	<ul style="list-style-type: none"> <li>● The survey to count the achievement of increasing households adopting adequate health and hygiene behaviors will be conducted near the end of each fiscal year.</li> <li>● However during this period, ESP conducted several activities approaching the achievement of the target stated above. The following activities were conducted: <ul style="list-style-type: none"> <li>○ <u>National</u>: Conducted Formative Research data collection across ESP HPPs (7 provinces). ESP conducted 29 group meetings used FGD and pile sorting methods and numerous in-depth interviews with grandmothers, community leaders, government officers, teachers, policy makers and media.</li> <li>○ <u>NAD</u>: In Meulaboh (Cot Darat and Suak Ribe) and Nusa, Aceh Besar. ESP has been doing socialization and promotion program to reduce diarrheal disease. ESP and HSP worked with Government (Puskesmas and Dinas Kesehatan). ESP &amp; some NGOs on improved hand washing programs in Kota Banda Aceh on May,2006 with more than 500 participants following this activity</li> <li>○ <u>North Sumatra</u>: Continuation of hand washing with soap campaign across the Medan Municipality was conducted in collaboration with youth, <i>posyandus</i>, schools and community groups</li> <li>○ <u>West Sumatra</u>: introducing hand washing with soap behavior at regular meeting of Forum PEDAS as a means</li> </ul> </li> </ul>

			<p>for norming better hygiene.</p> <ul style="list-style-type: none"><li>○ <u>East Java</u>: from the Hand Washing with Soap Campaign in Wonokromo (Surabaya) exposed 869 children under five years old, 200 mothers and 35 cadres. In Malang (Dinoyo and Mergosono), total 1,059 households, 65 cadres have been exposed through this program. And 140 in Surabaya and Malang cadres have been trained on use of clean drinking water in conjunction with SWS.</li></ul>
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Component: Environmental Services Finance (FN)			
Outcome	Indicator	Second Year Target	Progress
FN Outcome #1 – At least (30) PDAMs operate on a cost-recovering basis and those in default of old SLA and RDA debts begin repayment	Number of PDAMs operate on a full cost recovery	3 PDAMs ( 30 PDAMs over project life)	ESP has exceeded the target achievement of the second year in this quarter where <b>four PDAMs</b> have operated on a full cost recovery. The PDAMs are PDAM Kota Bogor, PDAM Kota Bandung, PDAM Tirtanadi Medan and PDAM Kabupaten Subang. ESP supports those PDAM working on tariff adjustments.
FN Outcome #2 – Regulatory boards for PDAMs are established and operating in each high priority province and empowered by the DPR-D to regulate tariff increases	Number of regulatory boards established to regulate the development of tariff increases for PDAM	0 (1 over project life)	Since ESP does not target establishing a regulatory board to regulate tariff increases this year, ESP has no progress made during in this quarter.
FN Outcome #3 – At least 10 DCA projects for investment in the environmental services sectors are developed and implemented	Number of projects related to environmental services sectors that execute a guarantee agreement with DCA developed and implemented	1 (10 over project life)	ESP continued to follow up action with PT Danareksa who gave strong response on the feasibility study. This DCA project will be targeted to support PDAM Kota Bogor and PDAM Kab. Bogor (East and Central) in financing their investment program.
FN Outcome #4 – At least 5 PDAMs achieve credit rating from an international credit rating agency	Number of PDAM received national credit rating certificate	1 PDAM (5 PDAMs over project life)	No action taken
FN Outcome #5 – At least 1 local government, province or PDAM is assisted in the preparation for issuance	Number of PDAM, Local Government and or province successfully received additional revenue from obligation bond	N/A (1 over project life)	In this quarter, ESP is continuing working with the Balikpapan Municipal Government and PDAM Bogor District for issuing a corporate bond. ESP collaborates with JBIC, Ministry of Finance and PT Danareksa to form Indonesian Water Fund (IWF) to develop new financing mechanism for water utilities. Progress has

of a revenue or general bond			been made in PDAM Kab. Bogor by having two hearing meetings with the Local Parliament to inform PDAM's plan to issue corporate bond. The meeting was targeted to engender support from the Local Government of Kab. Bogor on the issuance of a corporate bond.
FN Outcome #6 – At least 15% of Aceh program activity resources are used to leverage private sector resources to expand the impact and geographic coverage of ESP	<ol style="list-style-type: none"> <li>1. Amount (\$) of funding generated from public or private sector to expand the impact of ESP outcomes in Aceh</li> <li>2. Number of PPP developed to expand the impact of ESP outcomes in Aceh</li> </ol>	<ol style="list-style-type: none"> <li>1) \$ 100,000 (\$ 400,000 over project life)</li> <li>2) 5 PPPs (20 PPPs over project life)</li> </ol>	<ul style="list-style-type: none"> <li>• During this quarter, ESP Aceh had limited achievement for this outcome. However, from the previous level of achievement for the last quarter ESP has leveraged a total amount of \$ <b>236,000</b>. This is in excess of the total second year target.</li> </ul>

<b>Component: Environmentally- Sound Design and Implementation in Aceh (EA)</b>			
<b>Outcome</b>	<b>Indicator</b>	<b>Second Year Target</b>	<b>Progress</b>
EA Outcome #1 – At least 4 spatial plans at the district and/or municipality levels in the Banda Aceh to Meulaboh coastal corridor directly impacted by the tsunami are developed and/or improved	Number of spatial plans developed and/or improved at the district and/or municipality levels	1 (4 over project life)	<p>During in this quarter, the works on development of spatial plans are still going on. As stated in PMP, ESP will not produce our own spatial plan, ESP will contribute the technical expertise to the development of the spatial plan. The other institutions will develop the plans. To date, ESP contributed assistance to several institutions such as BRR, UN, Local Government and CARE.</p> <p>Progress made during this quarter was as follows:</p> <ul style="list-style-type: none"> <li>• In Meuraxa sub-district sanitation concept designs prepared for BRR as part of spatial plan</li> <li>• In Kuala Meurisi, map of village prior to tsunami developed in SLA is used as basis for spatial planning by UN</li> <li>• Alpan2 Barracks spatial plan, Meulaboh.</li> <li>• Krueng Raba water distribution system design as part of Loknga sub-district spatial plan.</li> <li>• Water distribution system for Blang Phon village. Used as part of spatial plan for village by CARE</li> </ul>
EA Outcome #2 – A forum/network of donor, GOI and NGO water/sanitation/ infrastructure/environment practitioners is created and supported to address common implementation issues and to serve as a clearinghouse of best practices to mitigate adverse environmental impacts of post-tsunami reconstruction activities	Forum/network of donor, GOI and NGO established and functioning	1 (1 over project life)	<p>ESP continued to lead the development of a forum or network of donors, GOI and NGOs in Aceh, working in water/sanitation/infrastructure/environment through our involvement in the two existing fora in Aceh. The major activity by ESP during in this quarter was the very successful Sustainable Sanitation Systems workshop, resulting in an internet forum of organizations building re-settlement areas.</p>

EA Outcome #3 – An assessment report on the use of timber on the part of USAID-funded projects in Aceh	Assessment report completed	I (I over project life)	The assessment on the use of timber on the part of USAID funded project has not yet been completed.
EA Outcome #4 – Creation of an information clearinghouse for legal and illegal sources of timber and alternative building materials	Timber information clearinghouse established	I (I over project life)	During in this quarter there is limited progress of the creation of the clearing house. This outcome will be conducted after the assessment on source of timber and alternative building materials has been completed.

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# APPENDICES

- APPENDIX A: Up Coming Events by Region**
- APPENDIX B: Short Term Technical Assistance**
- APPENDIX C: Publications**
- APPENDIX D: Workshops and Trainings**



## APPENDIX A: UPCOMING ACTIVITIES BY REGION

### July – September 2006

#### ACEH:

#### Watershed Management

Dates	Type	Description
03-July-06	Survey	Hydrological survey along Krueng Aceh River
05-July-06	Other	Community nursery development and land rehabilitation (Jruek Balee, Jantho Baru and Blang Lambaro)
05-July-06	Other	Land rehabilitation (coastal area) in Sawang
06-July-06	Training	Training on monitoring and evaluation of SRI implementation
10-July-06	Training	Composting training in Jruek Balee. Participants from Krueng Sabee Geupu Watershed and Krueng Aceh Watershed.
12-July-06	Other	River rehabilitation in Lam Seunia
18-July-06	FGD	Local policy (traditional wisdom) related to environmental conservation (Jruek Balee)
24-July-06	Training	Propagation training in Tanjung Morawa, step 2: evaluation of result from propagated seedling in step 1.
01-Aug-06	Workshop (sole source)	Multi-stakeholder workshop on Krueng Aceh Watershed Forum Establishment
01-Aug-06	Other	Tree planting along the road in Sawang
06-Aug-06	Survey	Rapid Assessment on Ulu Masen Area (Geumpang and Tutut Districts)
08-Aug-06	Training	Identification mother plants (Jruek Balee, Jantho Baru and Blang Lambaro, Sawang, Lam Seunia)
22-Aug-06	ToT FS in Solok	Biodiversity theme
22-Aug-06	Other	Coastal area rehabilitation and tree planting along the road in Kuala Meurisi
28-Aug-06	Training	Propagation training in Jantho Baru for community nursery groups from Krueng Aceh Watershed
04-Sep-06	SLA	Two villages in Ulu Masen Area (based on the result of Rapid Assessment)
04-Sep-06	Other	Support action plan of Krueng Aceh Watershed Forum (based on the result of Multi-stakeholder Workshop).
10-Sep-06	Survey	Identification of land cover of Tahura Pocut Meurah Intan (Tjut Nyak Dien) based on Citra interpretation 2005 and ground truth.
11-Sep-06	Training	Propagation training in Sawang for community nursery groups from Krueng Sabee Geupu Watershed

**Environmental Service Delivery**

Dates	Type	Description
1-July-06	Other (PO)	Census of customer and non-customer PDAM Banda Aceh (Continued)
1-July-06	Training (On The Job)	Develop PDAM Kabupaten Aceh Besar Corporate plan (Continued)
24-July-06	Workshop	PDAM Kabupaten Aceh Barat Comparison Study to PDAM Tirtanadi
31-July-06	Training (On The Job)	Water Quality Monitoring implementation in PDAM Tirta Meulaboh
14-Aug-06	Training	PDAM Finance school
4-Sep-06	Training	Management Training for Junior Manager (Kepala Seksi dan Kepala Bagian) in Medan in coordination with DPD PERPAMSI Medan

**Environmentally Sound Design**

Date	Type	Description
1 July – 30 August'06	DED support Care Inter.	Detail Engineering Design (DED) for clean water for CARE including technical specifications and estimated budget
Banda Aceh 12 July – 14'06	Sanitation Workshop With HSP	Clean Market Program
1 July – 30 July'06	DED FGD	Participatory planning to build MCK in Blang Lambaro, Jruek Balee and Nusa villages
15 July – 15 August	Field Days	Vetiver planting in Nusa
10 July – 10 August 2006	PO	Wastewater piping system installed in Lamkruet
15 July – 30 July'06	PO and workshops	Drinking water installation preparation and training for Lamkruet residents
20 July – 30 July	Drinking Water	Drinking water installation commissioning in Lambhuk, Banda Aceh
1 August – 30 September '06	Water Supply and sanitation	Collaboration with World Bank socialization and community planning in 3 villages of Meuraxa
1 August – 15 August'06	Water supply and sanitation	Need Assesment, Sawang, Aceh Jaya, for water and sanitation program
15 July – 30 July	IEE Preparation	Preparation of IEE health centers in Banda Aceh and Aceh Besar
30 July - 15 August'06	IEE	Preparation of IEEs for Blang Lambaro, Jantho Baru and Jruek Balee and Nusa projects
August - September'06	Spatial Planning	Spatial planning in Lhoknga, Aceh Besar, and Johan Pahlawan, Aceh Barat
July – September'06	Socialization	Support DBE Program
1 Agustus – 14 Agustus'06	Water Supply	Preparation of Water Supply for Mon Ikeun
July – September'06	Sanitation and clean water	Monitoring the sanitation system and drinking water in Lamkruet
August – September'06	Drainage system	Build drainage system with village residents in Lamkruet

**NORTH SUMATRA:**

<b>Date</b>	<b>Type</b>	<b>Description</b>
July	Meetings, dialogue WSM	Meetings in Medan, Karo, Deli Serdang to finalize the Watershed Action Plan
July	Workshop	Collaboration workshop on TAHURA Bukit Barisan management
July - September	Public campaign for Solid Waste Management in Tembung and Sunggal	- School campaigns (Elementary), Mosque & Church groups - Community cooperation (kerja bakti rutin), Women association (PKK)
July	Training	Community Nursery training with KERINA in Semangat Gunung and Doulu
July-August	Train the Trainers (TOT) for Women's Union (SPS) Sunggal	- Community Organizer Training - Composting Training
August	Community Based Solid Waste Management Training for Tembung and Sunggal	How to Operate Community Based Solid Waste Management
August	Field Survey	Bio-Diversity Survey in Co-Management area Mangrove forest in Langkat with BKSDA, YARL
August 9,10	International Workshop	International workshop on ESP-FIELD-Clemson Univ. collaboration
August	Farmer Field School	Farmer Field Schools in Eco-Rice begin in middle Deli Watershed with WBP assistance
August	Community Based Water Supply Training for Karo, Sunggal and Maimoon	Community Based Water Supply Training in Karo (LKMD Kabanjahe) supported by PDAM Karo
August	Community Workshop	Meetings and fieldwork with 'middle' watershed communities and organizations, with FMPS, KERINA
August	Workshop and Training	Women's Network on Deli River Watershed action, follow-up meeting and training
July-August	Purchase order for PDAM Langkat, Tirtanadi and Sibolga	Optimizing Water Treatment Plant & distribution network (Sibolga and Langkat) Raw water study and sweeping/census
July-August	Multi-Media Campaign	Journalists visits, interactive radio, print media campaigns, event coverage
August - September	Customer Satisfaction Survey	Customer Satisfaction Survey and Corporate Plan expose
July-September	H and H Campaigns	Re-vamped Handwashing with Soap campaign undertaken
August – September	Corporate Plan	Completion of Corporate Plan for PDAM Karo and Langka

## **WEST SUMATRA**

<b>Dates</b>	<b>Type</b>	<b>Description</b>
July – September 2006	Training, FGDs, workshop	<ol style="list-style-type: none"> <li>1. Assessment of develop Bung Hatta Taman Hutan Raya co- management (biodiversity, stakeholders mapping, policy, social-economic)</li> <li>2. Strategic collaborative management plan</li> <li>3. Development of collaborative management institutional mechanisms</li> </ol>
Agustus 2006	Training, workshop	Participatory training on community social mapping and rehabilitation program Working group for participatory monitoring and evaluation
Agustus 2006	Workshop, training, field trip	Local policy support for conservation management <ol style="list-style-type: none"> <li>1. Dialogue about local knowledge in water resources</li> <li>2. Lubuk Larangan awareness campaign</li> </ol>
July – September 2006	Workshop, training, FGD's, STTA	Continue Facilitating Padang Watershed Working Group To Develop Integrated Watershed Management Plan With Pak Rudy Febriamansyah (STTA)
2 July – 17 September 2006	Training	Pelatihan Pemandu dan Sekolah Lapangan Pengelolaan Daerah Aliran Sungai (TOT WSM ESP) Untuk 38 Orang Field Assistance dan Mitra ESP di BPTP Sukarami, Kabupaten Solok – Sumatera Barat
July - September	Workshop, training, FGDs.	Continuing Learning network in 3 watersheds: <ol style="list-style-type: none"> <li>1. Field school</li> <li>2. community nursery</li> <li>3. regular meeting</li> <li>4. organic laboratory</li> </ol>
July 2006	Workshop and field trip	Multi Media campaign #4: Journalist trips, public discussion
July 2006	Training and Workhop	Media Relation Training and POC program evaluation
Agustus 2006	Training	Environmental Journalist Training
July – September 2005	Training, workshop, STTA,	Assessments pilot plan CBS, Sanitation Mapping and Sanitation Strategic planning With STTA Pak Firdaus

## **WEST JAVA/DKI JAKARTA**

<b>Dates</b>	<b>Type</b>	<b>Description</b>
July 4, 2006	Recruitment	Selection of university for implementing NRW and Public Taps survey to PDAM Bandung city
July 5, 2006	Recruitment	Selection of university for implementing NRW survey to PDAM Kota & Kab. Sukabumi
July, 3 - 7	Recruitment	Selection of university for evaluation 2 units CBS in Kab.Bandung, 4 units DED and supervision in Kota Bandung
July 6, 2006	Consolidation	Meeting to consolidate West Java staff
July 10, 2006	Training	Training of Energy water efficiency. The participants come from PDAM Bandung city, Kab. Bogor, Kab. Gresik, Surabaya, NGO Pelangi and Inowa consultant.

July 13, 2006	Reporting	To prepare final report of household survey PDAM Bandung city
July 15, 2006	Celebration	Opening office
July 22, 2006	Recruitment	Selection of university for implementing household survey to PDAM Bogor city
End July – Mid August, 2006	Work Plan	To prepare work plan for year 3 West Java Regional
End July 2006	Implementation	Implementation of CBSW in Kel. Tamansari Kota Bandung and Kab. Cianjur with NGO
Mid August 2006	Reporting	Finalists of solid waste assessment in Kota Bandung, Kab. Cinajur and Kab. Subang.
Mid August 2006	Training	Training of solid waste for Farmer Group in DAS Cikundul and DAS Cilaku Kab. Cianjur. The topic in the training is management solid waste in the river and composting process.
End Augusts 2006	Seminar	Capacity Building local government about solid waste management on West Java Prov collaboration with BPLHD West Java Prov.
August 7, 2006	Coordination	To invite other program under USAID in West Java (HSP, DBE, LGSP and SENADA).
July - August, 2006	Research	To continue formative research and longitudinal study
August 25-30, 2006	Reporting	Preparing final report for NRW and public taps survey
Mid-July	Workshop	Dissemination of Puskesmas Facility Assessment to Puskesmas staffs in Kecamatan Gambir and Menteng.
Mid-July	Other	Construction of Public MCK in Petojo Utara
August 1st	Other	Kick Off IDRC-HP3 Program with Mercy Corp, URDI, Swisscontact and The City Team

## **CENTRAL JAVA**

<b>Dates</b>	<b>Type</b>	<b>Description</b>
July 2006	Event and Site Visits	Multi-Media Campaign #4: Preserving Water from upstream to downstream <ol style="list-style-type: none"> <li>1. Press Gathering with 2 1-day field trips to Tangsi subwatershed to observe water resource issues (upper Progo Watershed).</li> <li>2. Community and school visits with campaign activities to earthquake affected areas in Bantul (lower Progo watershed) and upper Progo watershed</li> </ol>
July 5	Coordination meeting	Discussion with JICA on water supply improvement plans and programs for the urban agglomeration of Yogyakarta
July 7	Technical Meetings	Verification and quantification of expansion program of PDAM Kota Solo: additional production capacity, water demand of target customers, new connections, capital expenditures (short-term Water Supply engineer to be mobilized, if necessary)  Formulation of other assumptions for the financial projection and feasibility assessment: increases in operating costs and tariffs, financing plan (including local-government equity infusion), other performance indicators

July 15	Technical Meetings	Preparation and presentation of preliminary financial projection and feasibility assessment for PDAM Kota Solo
July 21-23	Exhibition and cultural event	Farmer's Exhibition and cultural events in Elo subwatershed (Hari Krida)
July 22	Technical Meetings	Finalization of the financial projection and feasibility assessment for PDAM Kota Solo
July	Workshop	Interregional Water Resources Workshop related to PDAM Kota Solo
July 25-27	Workshop	Multi-city Municipal Sanitation Strategic Planning workshop
July 06	Hand washing campaign	Conduct handwashing campaign in a community affected by the earthquake in the lower Progo Watershed and in the middle watershed (Muntilan, Kabupaten Magelang) in collaboration with ESP community-based watsan and local NGOs.
July 17 – September 9	Field Schools and Field Day	ESP Field Schools will be conducted in 15 villages in the Tangsi subwatershed, implemented by 30 village facilitators with support from ESP. The Field Schools will culminate in a Field Day with exhibition highlighting collaboration between community based participatory planning and local government plans.
July-September	Monitoring and Evaluation	A Monitoring and Evaluation Team comprised of local government, NGOs, and community forum members, will be working closely with the village facilitators and ESP to observe and evaluate the ESP Field Schools and Field Day.
July-September	Training of Trainers	Various ESP staff will periodically participate as trainers in ESP's Training of Trainers for Field Assistants in Padang, West Sumatra.
July-September	Assessment	Assessment of Existing Community-Based Solid Waste Management programs in Yogya, Sleman, Bantul and Magelang
July-September	Household census	Household census for water utility companies (PDAM) in Kabupaten Bantul, Kota and Kabupaten Magelang
July-September	Media Campaign	Public service announcements will be broadcast on local radio stations. Talk show with ESP overview will be broadcast on local radio and television stations.
August	Handwashing Campaign	Conduct hand washing campaign in Tangsi subwatershed (possibly in Salaman sub district) or Muntilan (the highest number of diarrhea case in Magelang, down stream of Blongkeng subwatershed)
August 2006	training	Gender training workshop for ESP staff
August	Coordination meetings	ESP workplan development process
September 2006	Event	Multi-Media Campaign #4: Preserving Water from upstream to downstream  Photo exhibition of photographs taken by journalists and children taken at ESP events, such as media tour and community and school visits. Opening event will include campaign materials and activities for children.

## **EAST JAVA**

<b>Dates (week starting)</b>	<b>Type</b>	<b>Description</b>
<b>July: Week 1</b>	<ul style="list-style-type: none"> <li>• 1 week workshop in Bandung</li> <li>• PO</li> <li>• Field Program starting</li> <li>• Field program starting</li> </ul>	<ul style="list-style-type: none"> <li>• Energy audit workshop with PDAM Kota Surabaya and Kab. Gresik</li> <li>• Organize Strategic planning for Kota Surabaya, Kota Malang and Kabupaten Malang</li> <li>• Community based solid waste in RW 17 Kelurahan Gading Kecamatan Tambak Sari Kota Surabaya.</li> <li>• Community based solid waste in RW 7 Kelurahan Ketabang Kecamatan Genteng Kota Surabaya.</li> </ul>
<b>July: Week 2</b>	<ul style="list-style-type: none"> <li>• STTA</li> <li>• PO</li> <li>• Training</li> <li>• Other</li> <li>• Other</li> </ul>	<ul style="list-style-type: none"> <li>• In PDAM Kab. Gresik &amp; Sidoarjo: presentation and discussion on follow up of the “Scoping”</li> <li>• Organize Strategic planning for Kota Surabaya, Kota Malang and Kabupaten Malang</li> <li>• Training community based Solid waste for RW 17 Kelurahan Gading Kecamatan Tambak Sari Surabaya, in collaboration with DAP/FSN-USAID program</li> <li>• Multi Media Campaign 4</li> <li>• Need Assessment for Community TV Program (TV SMKN I Wonokromo) . The agenda are: (1) Evaluate and Discuss TV SMKN I Wonokromo Program; (2) Audience Evaluation; (3) Discussion with participant from TV Management, Audience and Media Expert</li> </ul>
<b>July: Week 3</b>	<ul style="list-style-type: none"> <li>• Workshop in Jogja</li> <li>• PO</li> <li>•</li> <li>• Study Tour</li> <li>• Field program starting</li> <li>• Other</li> <li>• TOT Training</li> </ul>	<ul style="list-style-type: none"> <li>• Participation in sanitation strategic planning</li> <li>• Organize Strategic planning for Kota Surabaya, Kota Malang and Kabupaten Malang</li> <li>• Collaborate with WSM program, organize comparative study on sanitation system for Temas community, Batu Local Government, Kota Malang and kab. Malang Local Government to Bali</li> <li>• Socialize and assist Kepanjen community of Malang District; and Rungkut and Wonokromo community for community based sanitation preparation.</li> <li>• National Children Day Celebration with Dewan Pendidikan and Dewan Lingkungan Jawa Timur, ESP facilitate a Festival Drawing and Painting Surabaya River.</li> <li>• Spatial and non spatial data base development for negotiation support on conflicts resolution between LMDH, Perum Perhutani and Pemkot Batu (WS 1-5:1)</li> </ul>

<b>July: Week 4</b>	<ul style="list-style-type: none"> <li>• Workshop</li>   <li>• Field program starting</li> <li>• Event</li>   <li>• Training</li> <li>• Workshop</li> </ul>	<ul style="list-style-type: none"> <li>• Join workshop on “kebijakan dan Strategi sanitasi” with ESP national in Jogja and Involve POKJA Sanitation, Legislative, and University from Kota Surabaya, Kota Malang, and kabupaten Malang</li> <li>• Assistance and motivating Gading and Ketabang cadres in Surabaya on CB solid waste management</li> <li>• Establishment of community nursery in Temas to support community led restoration of Brantas River gallery forest (WS2-2:4)</li> <li>• Solid and liquid waste processing for animal food stock</li> <li>• Community and public consultation for available background information and issues to prepare management action plan in Tahura Raden Suryo.</li> </ul>
<b>August: Week 1</b>	<ul style="list-style-type: none"> <li>• FA (Field Assistant)</li> <li>• Construction starting</li> <li>• Other</li> <li>• PO</li>   <li>• Workshop</li> </ul>	<ul style="list-style-type: none"> <li>• Start working on Hippam and support to Kota Malang and Kab. Malang</li> <li>• Implementation and construction community based sanitation in Surabaya city and Malang District</li> <li>• Evaluation of POC impacts in East Java</li> <li>• Management action planning for Perum Perhutani in Kota Batu developed by LMDH, Perum Perhutani and Pemkot Batu (WS 1-5:1 and WS2-1:5).</li> <li>• Hydro-geological field investigation of groundwater resources in Batu (WS2-3:5)</li> <li>• Experts consultation for available background information and issues to define the function of forest and biodiversity on hydrological regulation in order to prepare management action plan in Tahura Raden Suryo.(WS1-2:3)</li> </ul>
<b>August: Week 2</b>	<ul style="list-style-type: none"> <li>• Field investigation (exposure visit with PDAM Kota Malang)</li> <li>• Workshop</li>   <li>• Training of Trainer (ToT) and workshop</li> <li>• Workshop</li> </ul>	<ul style="list-style-type: none"> <li>• PDAM Kota Manado &amp; Bitung: sweeping/census program &amp; private incorporation of PDAM Bitung</li>   <li>• Workshop for solid waste for all Surabaya sub-district and village leaders.</li> <li>• Management action planning for Perum Perhutani in Kota Batu developed by LMDH, Perum Perhutani and Pemkot Batu (WS 1-5:1 and WS2-1:5).</li> <li>• ESP-WSM national work plan development in Padang.</li> </ul>
<b>August: Week 3</b>	<ul style="list-style-type: none"> <li>• Workshop</li>   <li>• Training of Trainer (ToT) and workshop</li> <li>• Workshop</li> </ul>	<ul style="list-style-type: none"> <li>• With WSM team in Kota Batu w/ Fokal Mesra &amp; Hippam</li> <li>• Management action planning for Perum Perhutani in Kota Batu developed by LMDH, Perum Perhutani and Pemkot Batu (WS 1-5:1 and WS2-1:5).</li> <li>• Water user (water enterprise) consultation for available background information and issues to define the supporting commitment on forest and biodiversity on hydrological regulation in order to prepare management action plan in Tahura Raden Suryo.(WS1-2:3)</li> </ul>

<b>August: Week 4</b>	<ul style="list-style-type: none"> <li>• Workshop</li> <li>• Workshop</li> <li>• Training of Trainer (ToT) and workshop</li> </ul>	<ul style="list-style-type: none"> <li>• Results of CSS PDAM Kab. Malang and PDAM Kota Surabaya</li> <li>• Consolidation Upper Brantas Watershed Forum (Malang Raya) for developing strategic planning among stakeholders (Fokal Mesra, LSM, LMDH, LPDPH, Perhutani, Tahura, Pemkot Batu, Pemkot Malang, Pemkab Malang, Perum Jasa Tirta, University, Dewan Lingkungan Kab. Malang (WS1-3:2)</li> <li>• Management action planning for Perum Perhutani in Kota Batu developed by LMDH, Perum Perhutani and Pemkot Batu (WS 1-5:1 and WS2-1:5).</li> </ul>
<b>September: Week 1</b>	<ul style="list-style-type: none"> <li>• PO</li> <li>• Small grant, Purchase Order, event, workshop</li> <li>• Workshop</li> </ul>	<ul style="list-style-type: none"> <li>• Start sweeping/census for PDAM Kota Malang</li> <li>• Institutionalization of forest restoration within local school curricula in Formal (with JPKA) and informal education (Pring Woeloeng and Pusedakota) as an adjunct to enhanced conservation awareness in schools (WS2-3:6)</li> <li>• Local government, Dinas Kehutanan, and Perum Perhutani consultation for background information on forest and biodiversity for action plan in Tahura Raden Suryo</li> </ul>
<b>September: Week 2</b>	<ul style="list-style-type: none"> <li>• Workshop and expo</li> <li>• Workshop</li> </ul>	<ul style="list-style-type: none"> <li>• Photo Expo, Environment Cadres Training for Youth (SMA).</li> <li>• Presentation of the result of rapid survey and base line data to prepare management action plan in Tahura Raden Suryo and to develop working groups.</li> </ul>
<b>September: Week 3</b>	<ul style="list-style-type: none"> <li>• Training</li> </ul>	<ul style="list-style-type: none"> <li>• Training on basics of water supply for Hippam Kota Batu</li> </ul>
<b>September: Week 4</b>	<ul style="list-style-type: none"> <li>• Workshops</li> </ul>	<ul style="list-style-type: none"> <li>• Parallel meetings in each location to develop action plans for Tahura Raden Suryo in Mojokerto, Jombang, Pasuruan, and Batu Malang</li> </ul>



## APPENDIX B: SHORT-TERM TECHNICAL ASSISTANCE (Through June 2006) Environmental Services Program

Region	MOBIS Labor Category	Position	Name	Est. Start Date	Est. End Date	Approved LOE	Citizenship
Central Java/ Yogyakarta	3. Development Specialist (II)	Spatial Planning and GIS specialist	Nofaldi	6/26/2006	9/30/2006	50 Days	Indonesian
Central Java/ Yogyakarta	8. Principal Development Specialist (I)	financial analyst	Ramon Hagad	6/19/2006	12/31/2006	105 Days	Indonesian
National (Jakarta post)	1. Administrative Support	Management Information Systems Development Specialist	Tanja Lumba	6/19/2006	6/24/2006	12 Days	Filipino
National (Jakarta post)	8. Principal Development Specialist (I)	Health & Hygiene Communications Advisor	Patricia Poppe	6/15/2006	9/30/2006	32 Days	Indonesian
North Sumatra	6. Senior Development Specialist (I)	Social Documentary Film Specialist	Robert Nugent	6/5/2006	7/15/2006	30 Days	Australian
National (Jakarta post)	5. Senior Development Specialist (II)	Rare Pride Campaign Specialist	Paul Butler	5/27/2006	6/2/2006	7 Days	British
West Sumatra	7. Principal Development Specialist (II)	ESP WSM TOT Trainer	Yohanes	5/1/2006	9/30/2006	80 Days	Indonesian
West Sumatra	6. Senior Development Specialist (I)	ESP TOT Trainer	Abdul Gaffar	5/1/2006	9/30/2006	80 Days	Indonesian
West Sumatra	5. Senior Development Specialist (II)	ESP WSM TOT Trainer	Agus Susianto	5/1/2006	9/30/2006	80 Days	Indonesian
West Sumatra	5. Senior Development Specialist (II)	ESP WSM TOT Trainer	Engkus Kuswara	5/1/2006	9/30/2006	35 Days	Indonesian
West Sumatra	5. Senior Development Specialist (II)	ESP WSM TOT Manager	Nugroho Wienarto	5/1/2006	9/30/2006	60 Days	Indonesian
West Sumatra	4. Development Specialist (I)	ESP WSM TOT Trainer on Non-formal Education	Simon Tambunan	5/1/2006	9/30/2006	25 Days	Indonesian
West Sumatra	4. Development Specialist (I)	ESP WSM TOT Trainer on Documentation and Peoples Media	Triyanto Adi	5/1/2006	9/30/2006	25 Days	Indonesian
West Sumatra	5. Senior Development Specialist (II)	ESP WSM TOT Coordinator	Wahyu Sutisna	5/1/2006	9/30/2006	90 Days	Indonesian
National (Jakarta post)	6. Senior Development Specialist (I)	Financial Analyst	Gusril Bahar	5/1/2006	10/31/2006	156 Days	Indonesian
National (Jakarta post)	3. Development Specialist (II)	Senior Researcher on Health, Hygiene and Environment	Risang Rimbamaja	5/1/2006	7/15/2006	50 Days	Indonesian
National (Jakarta post)	5. Senior Development Specialist (II)	Water Supply Engineer	Sonny Sulaksana	5/1/2006	9/30/2006	85 Days	Indonesian
National (Jakarta post)	3. Development Specialist (II)	Lead Researcher on ESP Formative Research for Sumatra Region	Adri Amirudin	4/26/2006	7/31/2006	60 Days	Indonesian
National (Jakarta post)	4. Development Specialist (I)	Lead Researcher of the Health and Hygiene Formative Study for Java Region	Semiarto Purwanto	4/26/2006	7/31/2006	60 Days	Indonesian
National (Jakarta post)	8. Principal Development Specialist (I)	PDAM Training Specialist	Taufan	4/17/2006	9/29/2006	90 Days	Indonesian
East Java	7. Principal Development Specialist (II)	PDAM Technical Specialist	Gogh Yoedihanto	4/3/2006	6/2/2006	42 Days	Indonesian
Aceh	3. Development Specialist (II)	Environmental Management Consultant	Ernst-Jan Martijn	4/1/2006	9/30/2006	132 Days	Dutch
West Java/DKI Jakarta	5. Senior Development Specialist (II)	Water Quality Specialist	Ida Dhaliawati	3/27/2006	8/7/2006	20 Days	Indonesian
West Java/ DKI Jakarta	4. Development Specialist (I)	Site Conservation Planning Specialist	Kesaulya Daryatun	3/20/2006	5/31/2006	60 Days	Indonesian
West Java/ DKI Jakarta	3. Development Specialist (II)	Conservation Education and Campaign Coordinator	Bintoro Prabowo	3/20/2006	9/20/2006	90 Days	Indonesian
West Sumatra	7. Principal Development Specialist (II)	Integrated Water Resource Management Specialist	Rudi Febriamansyah	3/20/2006	8/31/2006	50 Days	Indonesian
Aceh	8. Principal Development Specialist (I)	Environmental Engineer	Leo Larochelle	3/10/2006	4/15/2006	30 Days	American
Aceh	8. Principal Development Specialist (I)	Water Supply Engineer	Christoph Mor	3/6/2006	9/1/2006	130 Days	German
Aceh	6. Senior Development Specialist (I)	Water Supply Engineer	Hendro Widodo	3/6/2006	9/1/2006	130 Days	Indonesian
East Java	2. Associate Development Specialist	Socio-Economic Specialist Batu	Edi Cahyono	3/6/2006	9/1/2006	130 Days	Indonesian
East Java	6. Senior Development Specialist (I)	PDAM Technical Specialist	Ahmad Hayat	3/6/2006	9/30/2006	120 Days	Indonesian

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Balikpapan	8. Principal Development Specialist (I)	Financial Analyst	David Woodward	3/1/2006	12/29/2006	100 Days	British
Aceh	6. Senior Development Specialist (I)	PDAM Capacity Building Developer Specialist	Robert Simanjuntak	2/20/2006	4/30/2006	30 Days	Indonesian
Balikpapan	8. Principal Development Specialist (I)	Financial Analyst	David Woodward	2/15/2006	9/30/2006	90 Days	British
Aceh		PDAM SOP Institutional Specialist	Ariefin Sutrisno	2/13/2006	4/29/2006	60 Days	Indonesian
Central Java/ Yogyakarta	3. Development Specialist (II)	Spatial Planning Specialist	Sigit Widodo	2/13/2006	8/31/2006	132 Days	Indonesian
West Java/ DKI Jakarta	5. Senior Development Specialist (II)	Engineering Assessment: demand and hydrology	Sonny Sulaksana	2/8/2006	4/30/2006	44 Days	Indonesian
Aceh	8. Principal Development Specialist (I)	Hydrogeologist	Phillip Brown	2/6/2006	4/14/2006	48 Days	American
Central Java/ Yogyakarta	8. Principal Development Specialist (I)	Financial Analyst	Ramon Hagad	2/6/2006	12/31/2006	88 Days	Filipino
West Java/DKI Jakarta		PDAM Technical Specialist	Ida Sukmawati	2/6/2006	8/31/2006	130 Days	Indonesian
West Java/DKI Jakarta	3. Development Specialist (II)	PDAM Technical Specialist	Suhatri	2/6/2006	8/6/2006	130 Days	Indonesian
Manado		PDAM Technical Specialist	Laksmi Cahyaniwati	2/1/2006	6/30/2006	100 Days	Indonesian
National (Jakarta post)	8. Principal Development Specialist (I)	Financial Analyst	Andre Oosterman	2/1/2006	9/30/2006	100 Days	
North Sumatra	8. Principal Development Specialist (I)	Agroforestry Training Specialist	Sean Foley	2/1/2006	3/31/2006	50 Days	Australian
North Sumatra	8. Principal Development Specialist (I)	Training Designer for ESP Agro-Forestry	Wahyu Sutisna	2/1/2006	5/15/2006	60 Days	Indonesian
West Java/DKI Jakarta	8. Principal Development Specialist (I)	Financial Analyst	Lewis Brandt	2/1/2006	12/31/2006	78 Days	American
West Java/DKI Jakarta	2. Associate Development Specialist	Urban Communities Water Specialist	Endah Shofiani	1/16/2006	7/15/2006	120 Days	Indonesian
West Java/DKI Jakarta	2. Associate Development Specialist	Household Water Specialist	Mindy Weimer	1/16/2006	7/15/2006	75 Days	USA
West Sumatra	6. Senior Development Specialist (I)	PDAM Technical Specialist - Corporate Planning	Suarni S. Abuzar	1/16/2006	5/30/2006	45 Days	Indonesia
West Sumatra	5. Senior Development Specialist (II)	Sanitation Facilitation Specialist	Firdaus Jamal	1/16/2006	7/28/2006	50 Days	Indonesian
U.S. Home Office	8. Principal Development Specialist (I)	Regional Director, Asia	Edson Whitney	1/15/2006	9/30/2009	10 Days	USA
West Java/DKI Jakarta	6. Senior Development Specialist (I)	Community Base Solid Waste Management Specialist	Betty Nurhayati	1/15/2006	6/30/2006	80 Days	Indonesian
West Sumatra	2. Associate Development Specialist	PDAM Public Service Specialist	Denny Helard	1/9/2006	4/30/2006	60 Days	Indonesian
National (Jakarta post)	8. Principal Development Specialist (I)	Financial Analyst	James Coucouvinis	1/1/2006	6/30/2006	40 Days	
Aceh	2. Associate Development Specialist	Environmental Management Consultant	Norman Hoff	11/15/2005	5/31/2006	60 Days	Australian
National (Jakarta post)	8. Principal Development Specialist (I)	Protected Areas & Conservation Mgmt. Specialist	Darrell Kitchener	10/19/2005	6/21/2006	80 Days	Australian
East Java	6. Senior Development Specialist (I)	Surabaya Sanitation and Solid Waste Mgmt. Consultant	Toeti Herisasi	10/17/2005	2/16/2006	80 Days	Indonesian
East Java	6. Senior Development Specialist (I)	PDAM Technical Specialist for Kota Malang	Rustadji Wahono	10/17/2005	1/20/2006	60 Days	Indonesian
East Java	3. Development Specialist (II)	Health Communication	Lilik Zuhriyah	10/11/2005	3/10/2006	60 Days	Indonesian
West Java/DKI Jakarta	1. Administrative Support	Conservation Education & Campaign Assistant	Nia Kurniawati	10/11/2005	2/24/2006	65 Days	Indonesian
North Sumatra	6. Senior Development Specialist (I)	Social Documentary Film Specialist	Robert Nugent	10/5/2005	10/20/2005	12 Days	Australian
Aceh	8. Principal Development Specialist (I)	Finance Specialist/Assessment Team leader	Bennett Parton	10/3/2005	10/18/2005	12 Days	American
East Java	3. Development Specialist (II)	Junior PDAM Technical specialist Kabupaten Malang	Jumarwan	10/3/2005	1/6/2006	60 Days	Indonesian
West Java/DKI Jakarta	4. Development Specialist (I)	Community Based Solid Waste Specialist	Ria Ismaria	10/3/2005	10/31/2005	14 Days	Indonesian
West Java/DKI Jakarta	3. Development Specialist (II)	Watershed Management Facilitator	Saeiful Bahri	10/3/2005	12/31/2005	80 Days	Indonesian
West Java/DKI Jakarta	3. Development Specialist (II)	WSM Facilitator	Dede Suryana	10/3/2005	1/31/2006	80 Days	Indonesian
Aceh	2. Associate Development Specialist	GIS Specialist	Jennifer Fly	10/1/2005	10/30/2005	22 Days	American
Aceh	6. Senior Development Specialist (I)	Management Information Specialist	Tami Fries	10/1/2005	10/30/2005	21 Days	American

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National (Jakarta post)	8. Principal Development Specialist (I)	Financial Specialist	Kjell Olsen	10/1/2005	12/31/2005	25 Days	Norwegian
National (Jakarta post)	8. Principal Development Specialist (I)	Financial Analyst	David Woodward	9/26/2005	9/29/2006	45 Days	British
West Sumatra	3. Development Specialist (II)	PDAM Technical Specialist	Immanuel Ginting	9/26/2005	2/28/2006	126 Days	Indonesian
Aceh	7. Principal Development Specialist (II)	Environmental Management Consultant	Norman Hoff	9/25/2005	10/7/2005	13 Days	Australian
West Java/DKI Jakarta	3. Development Specialist (II)	Conservation Education & Campaign Coordinator	Putu Wirawan	9/21/2005	1/31/2006	65 Days	Indonesian
National (Jakarta post)	8. Principal Development Specialist (I)	Waste Water Treatment Expert	Edzard Rühle	9/19/2005	12/31/2005	40 Days	German
National (Jakarta post)	7. Principal Development Specialist (II)	Appreciative Inquiry Expert	Dian Svendsen	9/11/2005	10/8/2005	28 Days	American
West Java/DKI Jakarta	8. Principal Development Specialist (I)	Financial Analyst/Water Engineer	T. Stephen Jones	9/3/2005	12/31/2005	60 Days	American
West Java/DKI Jakarta	8. Principal Development Specialist (I)	Financial Analyst/Water Engineer	Terence Driscoll	9/3/2005	12/31/2005	60 Days	American
Aceh	4. Development Specialist (I)	Financial Specialist	Enjang Hasanudin	8/29/2005	10/14/2005	46 Days	Indonesian
North Sumatra	4. Development Specialist (I)	PDAM Institutional Specialist	Julian Syah	8/29/2005	5/31/2006	140 Days	Indonesian
Aceh	6. Senior Development Specialist (I)	Hydrogeologist	Gatot Soedrajat	8/22/2005	9/16/2005	22 Days	Indonesian
Aceh	8. Principal Development Specialist (I)	Hydrogeologist	Phillip Brown	8/15/2005	9/16/2005	27 Days	American
National (Jakarta post)	8. Principal Development Specialist (I)	Gender and Water Specialist	Nancy Diamond	8/13/2005	9/2/2005	60 Days	American
North Sumatra	3. Development Specialist (II)	PDAM Technical Specialist	Ida Sukmawati	7/25/2005	10/7/2005	76 Days	Indonesian
West Java/DKI Jakarta	2. Associate Development Specialist	Communication Manager	Risang Rimbamaja	7/25/2005	7/24/2006	88 Days	Indonesian
West Java/DKI Jakarta	4. Development Specialist (I)	Participatory Media and Documentation Specialist	Triyanto Adi	7/18/2005	9/30/2005	20 Days	Indonesian
West Java/DKI Jakarta	6. Senior Development Specialist (I)	Water Resource Conflict Management Specialist	Winarto Nugroho	7/18/2005	9/30/2005	30 Days	Indonesian
West Java/DKI Jakarta	4. Development Specialist (I)	Participatory Non-formal Education Specialist	Simon Tambunan	7/18/2005	9/30/2005	40 Days	Indonesian
National (Jakarta post)	8. Principal Development Specialist (I)	Watershed Management Planning Specialist	Jan Gerards	7/10/2005	7/25/2005	14 Days	Dutch
Aceh	6. Senior Development Specialist (I)	Water Quality Specialist	Ida Dahliawati	6/27/2005	8/31/2005	23 Days	Indonesian
National (Jakarta post)	7. Principal Development Specialist (II)	Graphics Design and Communications Specialist	Donald Bason	6/15/2005	9/29/2006	65 Days	British
National (Jakarta post)	5. Senior Development Specialist (II)	Health & Hygiene Specialist	Maria Elena Figueroa	6/13/2005	6/18/2005	6 Days	Mexican
West Java/DKI Jakarta	8. Principal Development Specialist (I)	Financial Analyst	David Woodward	6/8/2005	10/31/2005	45 Days	British
National (Jakarta post)	8. Principal Development Specialist (I)	Health Communications Specialist	Benjamin Lozare	5/22/2005	5/26/2005	4 Days	American
National (Jakarta post)	7. Principal Development Specialist (II)	Public Outreach & Communications Specialist	Paul Butler	5/21/2005	6/2/2005	11 Days	American
National (Jakarta post)	4. Development Specialist (I)	Public Outreach & Communications Specialist	Megan Hill	5/20/2005	6/2/2005	10 Days	American
West Java/DKI Jakarta	4. Development Specialist (I)	Health Communications Specialist - West Java	Evi Douren	5/16/2005	8/22/2006	58 Days	Indonesian
U.S. Home Office	1. Administrative Support	Research Assistant/Project Coordinator	Kathleen Gaertner	4/18/2005	9/30/2009	30 Days	American
National (Jakarta post)	5. Senior Development Specialist (II)	Environmental Health Monitoring Specialist	Misha Kishi	4/17/2005	9/30/2005	104 Days	Japanese
National (Jakarta post)	8. Principal Development Specialist (I)	Child Survival Monitoring Specialist	Eckhard Kleninaw	4/17/2005	11/30/2005	15 Days	American
National (Jakarta post)	6. Senior Development Specialist (I)	Management Information Specialist	Tami Fries	4/4/2005	4/21/2005	30 Days	American
National	2. Associate Development Specialist	Public Outreach & Communications Strategy Development Specialist	Sri Gunadi	3/1/2005	8/31/2005	80 Days	Indonesian
Aceh	8. Principal Development Specialist (I)	Aceh Assessment Team Leader	Edzard Rühle	2/2/2005	3/2/2005	24 Days	German



**APPENDIX C: Publications**

Series #	Date	Title	Author	Status
<b>Annual Report</b>				
R-0035	12/16/2005	Annual Progress Report No. 1, December 2004 through September 2005	ESP Indonesia	Final/Sent to USAID for Review
R-0031	10/31/2005	Nanggroe Aceh Darussalam Work Plan	ESP Indonesia	Final/Sent to USAID for Review
R-0033	04/30/2005	ESP First Annual Work Plan and Life of Project Plan	ESP Indonesia	Final/Sent to USAID for Review
<b>Case Studies/Best Practices</b>				
R-0049	02/08/2006	Community Based Solid Waste Case Studies		Final/Sent to USAID for Review
R-0069	12/30/2005	Kajian Penghidupan Partisipatif: Studi Kasus Sebuah Proses	Tim FIELD Indonesia (STTA-Sub-contractor)	Final/Sent to USAID for Review
R-0110	07/01/2005	Studi Kasus Pelatihan Calon Pemandu Kegiatan Kajian Partisipatif Oleh Masyarakat	Tim FIELD Indonesia	Final/Sent to USAID for Review
<b>Consultant Report</b>				
R-0032	11/15/2005	GIS Training Report and Assessment	Fly, Jennifer	Draft
R-0042	01/04/2006	PDAM Kota Bogor Stage I Report: Analysis of Financial Condition and Preliminary Financial Analysis of Feasibility of Investment Proposal	Edward David Woodward	Draft
R-0071	03/09/2006	Report by Simon H. Tambunan/FIELD Indonesia	Simon Tambunan	Final/Sent to USAID for Review
R-0084	01/25/2006	Micro Credit Finance of Water Connections to New PDAM Customers	Kjell Olsen	Final/Sent to USAID for Review
R-0085	02/28/2006	PDAM Kabupaten Bogor - Analysis of Financial Condition and Preliminary Financial Feasibility Analysis of Investment Proposal	Hagad, Ramon	Draft
R-0116		Indonesia Water Revolving Fund - Assessment of Feasibility	Andre Oosterman	Final/Sent to USAID for Review
R-0117	06/21/2006	Integrated Spatial Planning - Training Report and Recommendations	Bouvier, Ioana	Final/Sent to USAID for Review
<b>Manuals/Guidelines</b>				
R-0002	04/13/2005	ESP Small Grants Program Manual	Wouter Sahanaya	Final/Sent to USAID for Review
R-0006	12/29/2005	Performance Monitoring Plan	Lestari, Alifah	Final/Sent to USAID for Review
R-0068	07/19/2005	Buku Petunjuk Lapangan Pelatihan Calon Pemandu Kajian Partisipatif Oleh Masyarakat Dalam Rangka Pelestarian Lingkungan Hidup	Tim FIELD Indonesia (STTA- Sub Contractor)	Final/Sent to USAID for Review
R-0075	09/30/2005	ESP High Priority Provinces Atlas	Sumartono, Sabdo	Final/Sent to USAID for Review
R-0124	03/31/2006	Pedoman Pelatihan Sensus Air Minum		Final/Sent to USAID for Review

Series #	Date	Title	Author	Status
R-0089	04/26/2006	ESP Quarterly Report No 4, January-March 2006 & ESP Quarterly Report No 4 Presentation	IESP Team	Final/Sent to USAID for Review
<b>Quarterly Report</b>				
R-0004	07/19/2005	ESP Quarterly Report No. 1 January - June 2005	IESP Team	Final/Available for Distribution
R-0019	11/16/2005	ESP Quarterly Report 2 July-September 2005	IESP Team	Final/Available for Distribution
R-0047	12/31/2005	ESP Quarterly Report 3, October-December 2005	IESP Team	Final/Sent to USAID for Review
R-0089	04/26/2006	ESP Quarterly Report No 4, January-March 2006 & ESP Quarterly Report No 4 Presentation	IESP Team	Final/Sent to USAID for Review
<b>Surveys</b>				
R-0046	03/31/2005	Aceh Assessment Report	Ruhe, Edzard, Budiman, Jefry, Ika, Angela, Irfan	Final/Sent to USAID for Review
<b>Technical Reports</b>				
R-0007	11/30/2005	PDAM Assessment Report	ESP SD Team	Final/Sent to USAID for Review
R-0045	12/15/2005	Detailed Engineering Design of Puskesmas WATSAN Facilities Phase I (4 units of Puskesmas)	Ridwan Habibie	Final/Sent to USAID for Review
R-0077	03/21/2006	ACEH BESAR -INFRASTRUCTURE OUTLINE CONCEPT PLAN	Sher Singh (ESP-STTA)	Final/Sent to USAID for Review
R-0078	03/21/2006	ACEH JAYA -INFRASTRUCTURE OUTLINE CONCEPT PLAN	Sher Singh (ESP-STTA)	Final/Sent to USAID for Review
R-0086	02/28/2006	Report of Investment Estimate, East Bogor Water Supply System Development (PDAM Tirta Kahuripan Kabupaten Bogor)	Sulaksana, Sonny	Final/Sent to USAID for Review
R-0109	05/24/2006	Merapi WATSAN rapid assessment	Hartono, Oni, Budiman, Jefry, Arianto, Eri	Final/Sent to USAID for Review
R-0113	12/15/2005	Tender Document of Construction of Puskesmas WATSAN Facilities Phase I (4 units of Puskesmas)		Final/Sent to USAID for Review
R-0115	06/16/2006	Strengthening Integration: Environmental Services and Health Outcomes	McGahey, Chris	Final/Sent to USAID for Review
R-0119	04/30/2006	ESP Agroforestry TOT Curriculum Preparation	Foley, Sean	Final/Sent to USAID for Review
R-0123	06/09/2006	ESP Conservation Assessment and Action Plan	Darrell Kitchener	Final/Sent to USAID for Review
R-0082	02/28/2006	Training Implementation Report on Water Supply Census for Manado Municipality, North Sulawesi Province	Laksmi Cayhaniwati, Hernadi Setiono	Final/Sent to USAID for Review
R-0114	12/12/2005	ESP Watershed Management Workshop		Final/Sent to USAID for Review

**APPENDIX D: Workshops and Trainings**

**Environmental Services Program (ESP) Indonesia**

**Project Number: 497-M-00-05-00005-00**

**Training, Workshop and seminar Activities of Third Quarter of Second Year (Period of April - June 2006)**

Type	Title	Location	Starting Date	End Date	Duration (Days)	Participants	% Female	Budget (\$)
<b>Total</b>						<b>3,009</b>	<b>25.91%</b>	<b>1,199,008,303</b>
Training Course	Community Based Nursery Training	Loka Penelitian Jeruk, Desa Tlekung, Kota Batu	4/3/2006	4/7/2006	5	52	6.12%	52,180,200
	Persiapan air sebelum diminum	DAS Batang Air Dingin	4/12/2006	4/12/2006	1	20	50.00%	-
	ESP Formative Research Training in two regions	Berastagi - Medan and Magelang	4/18/2006	4/21/2006	4	64	50.00%	48,947,000
	Training on basics of water supply	PDAM Kab. Malang	4/24/2006	5/31/2006	18	150	4.00%	23,027,325
	Management Training for Junior Manager	Padang	4/24/2006	5/6/2006				
	Community Training for topography mapping in Saree, Jruek, Jantho Baru Kab Aceh Besar	Blang Lambaro-Saree, Jruek Balee-Indrapuri, Jantho Baru-Jantho, Aceh Besar	4/25/2006	5/10/2006	10	24	0.00%	21,873,800
	Pelatihan Pengolahan Sampah Organik	Desa Tembung Kecamatan Percut sei Tuan Kabupaten Deli Serdang	5/8/2006	5/12/2006	5	49	28.57%	20,482,800
	composting training for forum petani at 3 village in kab. subang		5/22/2006	5/24/2006	3	58	18.97%	3,579,500
	Middle Management Training (Pelatihan Madya YPTD)	YPTD Jakarta	5/29/2006	6/10/2006	15	2	0.00%	125,179,600
	Sarasehan Penyamaan Persepsi	Joglo, Temas - Batu	5/29/2006	5/30/2006	2	86	4.65%	38,233,824

	NRW Training of DPD Team West Java	Bandung	6/6/2006	6/8/2006	3	16	25.00%	17,275,000
	Comparative Study to West Java For Community from Sunggal, Medan City and Tembung Village Kecamatan Percut Sei Tuan Kabupaten Deli Serdang. (26 June – 1 July 2006)	This comparative study will take place in Kabupaten Bandung and Tanggerang West Java.	6/25/2006	7/1/2006	7	21	14.29%	50,929,325
Training of Trainers	TOT Pemuda Partisipatory Assesment	Balai pertemuan kantor kecamatan Johan Pahlawan	4/6/2006	4/9/2006	4	19	52.60%	26,456,500
	Promotion and Socialization of Community Based WATSAN Program		5/1/2006	5/31/2006	30	100	55%	6,241,850
	Training of Trainer for Village Facilitator (Pelatihan Pemandu Desa) in Magelang district, Central Java	Kantor Informasi Penyuluhan Pertanian dan Kehutanan (KIPPK) Kabupaten Magelang	6/12/2006	6/19/2006	9	40	35%	64,567,575
Workshop/ Seminar	Forum Dialog Investasi di Bidang Cipta Karya	PDAM Kabupaten Bandung, Cimahi	4/4/2006	4/6/2006	3	180	NA	31,500,000
	Pengembangan Strategi Pengelolaan Menuju Ekosistem Sungai Deli yang Bersih dan Sehat	Berastagi, Kabupaten Karo	4/11/2006	4/13/2006	2	36	19.4%	38,547,305
	Inisiatif Multi Pihak Dalam Pengelolaan Air Alr Bersih Makin Sulit : Apa Yang Akan Kita Lakukan?	Hotel Puri Asri, Magelang	4/18/2006	4/18/2006	1	33	6.1%	13,856,600
	Temu Dialog LMDH se Kota Batu Dalam Upaya Membangun Hutan Kemasyarakatan	Kota Batu	4/20/2006	4/20/2006	1	50	0.00%	7,727,150
	Workshop Perkembangan Pelaksanaan Kegiatan Pengembangan Jasa Lingkungan Di Sumatera Barat	Padang	4/24/2006	4/24/2006	1	98	22.45%	7,020,000

	Payment for Environmental Services in Indonesia Round Table Meeting	ESP Jakarta Large Conference Room	4/24/2006	4/24/2006	1	15	13.3%	350,000
	Introduction To Corporate Plan Workshop	PDAM office in Jantho	4/24/2006	4/24/2006	1	6	33.3%	-
	'Perempuan Ramah Lingkungan" Workshop	Gedung BKKKS Surabaya	4/29/2006	4/29/2006	1	35	NA	25,002,900
	Seminar Potensi tahura Bung Hatta	Ruang Teater Terbuka FBSS UNP	6/10/2006	6/10/2006	1	NA	NA	5,450,000
	Small Grant Workshop "Merajut Peluang Bekerjasama"	Jogjakarta Plaza Hotel Yogyakarta	6/27/2006	6/27/2006	1	60	21,67%	5,011,231
Study Tour	Exposure visit to PDAM Pontianak	PDAM Pontianak	4/25/2006	4/26/2006	2	3	0.00%	N/A
	Sudy tour for cadre from Malang	TPA Benowo, Rungkut (Pusda Kota), Jambangan and Wonokromo	5/9/2006	5/10/2006	2	25	68.0%	15,471,700
	Comparative study to Kelurahan Rawajati and Banjarsari Jakarta	Jakarta	5/10/2006	5/11/2006	2	15	93,33%	39,160,475
	Exposure visit LG/West-Java + Sumatra to Malaysia	Malaysia	5/15/2006	5/20/2006	6	15	NA	126,347,487
	study tour to Batu to see succesful CB water supply systems	Kota Batu, Malang, East Java	6/28/2006	7/1/2006	4	23	4.3%	36,601,650
Focus Group Discussion	West Java/Subang : Penyusunan Rencana multi pihak dan penyiapan kelompok pelaksana Rehabilitasi di Cijambe - Subang	Cijambe and Cimenteng Villages	1/18/2006	4/15/2006	58	45	4.44%	53,245,650
	Participatory Assessment for Water & Sanitation Program in Desa Jruk, Indrapuri. Kab. Aceh Besar		4/3/2006	4/4/2006	2	12	0.00%	832,000

	FOCUS GROUP DISCUSION IMPLEMENTATION COMMUNITY NURSERY PROGRAM IN DESA JANTHO BARU, ( WSM KR. ACEH)	Jantho Baru Village, Dusun Blang Lambaro Saree Village, Jruek Balee Village	4/4/2006	5/9/2006	15	10	0.00%	1,895,700
	FOCUS GROUP DISCUSION FOR IMPLEMENTATION COMMUNITY NURSERY PROGRAM IN BLANG LAMBARO ACEH BESAR	Blang Lambaro, Saree Aceh Village	4/11/2006	5/9/2006	29	29	100.0%	1,310,000
	FGD Perencanaan Program Desa dampingan	Kantor ESP-USAID Meulaboh Jl. Swadaya no 5	4/13/2006	4/13/2006	1	20	50.0%	1,775,000
	FOCUS GROUP DISCUSION FOR IMPLEMENTATION COMMUNITY NURSERY PROGRAM IN JRUEK BALEE VILLAGE, ACEH BESAR	Jantho Baru Village, Dusun Blang Lambaro Saree Village, Jruek Balee Village	4/17/2006	5/10/2006	24	24	13.3%	1,775,500
Focus Group Discussion	NAD/Focus Group Discusion for Implementation of Land Rehabilitation Program in Desa Sawang	Sawang Village	4/19/2006	5/21/2006	3	8	0.00%	2,516,000
	NAD/Focus Group Discusion for Implementation of Land Rehabilitation Program in Dusun Kuala Meurisi	Sawang village, Kuala Merisi village, Keudee Krueng Sabe village and Lamsenia village	4/22/2006	5/24/2006	3	10	30%	1,610,000
	Support for Community Program in Lamkruet, Lhokgha	Lamkruet Village, Lhokgha Sub-district	4/23/2006	4/30/2006	8	59	71.2%	1,111,000
	FGD & Planning Support Activities for Watsan Program in Lhok Ngha	Lhokgha Sub-district	4/25/2006	4/26/2006	2	36	72.22%	1,050,000

	NAD/Focus Group Discusion for Implementation of Land Rehabilitation Program in Desa Keudee Krueng Sabee	Keudee Krueng Sabee village	4/25/2006	4/27/2006	3	10	0.00%	1,165,000
	NAD/Focus Group Discusion for Implementation of Land Rehabilitation Program in Desa Lamseunia	Lamseunia Village	5/1/2006	5/3/2006	3	11	0.00%	1,386,500
	Data Collection and Data Analysisi of Formative Research	14 districts of 7 provinces	5/13/2006	6/30/2006	47	NA	NA	N/A
	Socialization Sanitation & Solid Waste program in Desa Lamkruet	Desa Lamkruet, kecamatan Lhoknga	5/25/2006	5/31/2006	6	52	92.3%	1,062,000
	Sosialisasi Pencegahan penyakit diare dan FGD Sanitarian Desa	Kantor ESP - USAID Meulaboh Jl. Swadaya No 5	6/1/2006	6/30/2006	30	497	63.78%	15,302,100
Farmer Field School	Field trip of farmers from ESP Aceh sites to Field School in Desa Sidodadi,	Sidodadi Village, Beringin subdistrict, Deli Serdang District	5/29/2006	6/2/2006	5	15	0.0%	18,463,700
	NAD/Training And SRI Padi Planting	Jruek Balee Village	6/15/2006	6/15/2006	3	36	22.2%	1,087,500
Other Event	Identify Land Cover in Deli Watershed	Karo District	3/26/2006	4/1/2006	5	3	33.33%	5,863,050
	North Sumatra/ Karo and Langkat : Customer Satisfaction Survey	Kabupaten Karo and Kabupaten Langkat	4/1/2006	5/30/2006	30	23	56,52%	42,200,000
	Coordination Meeting with Local NGO for intergrating intervention on ESP Program for wider program' local support	Bandung	4/5/2006	4/7/2006	2		NA	8,600,000
	Preparation Stage of the ESP' Health and Hygiene Formative Study	ESP Jakarta Office	4/10/2006	4/30/2006	21	6	50.00%	N/A

Participatory Assessment for Water & Sanitation Program in Jantho Baru, Jantho. Kab. Aceh Besar	Jantho Baru Village, Jantho Sub-district, Aceh besar	4/19/2006	4/21/2006	3		NA	2,520,000
Kampanye Sepeda Lingkungan	West Sumatra	4/21/2006	4/23/2006		11	18.2%	5,990,000
Participatory Planning for Technical Design of Community Water Supply System in Blang Lambaro, Jruek Balee & Jantho Baru	Blang Lambaro-Saree, Jruek Balee-Indrapuri, Jantho Baru-Jantho, Aceh Besar	4/25/2006	5/4/2006	10		NA	9,248,000
Consolidation and strengthening communication with ESP partners in Subang, Presentation of Hidrology and Hydrogeology in Subang and Discussion on field technical issues with Subang partners	Subang	5/1/2006	5/4/2006	3		NA	N/A
Socialization of Census for PDAM Manado	Hotel	5/12/2006	5/12/2006	1	86	22.1%	8,400,000
Tour and Briefing of Integrated BHS at Wonokromo	Wonokromo, Surabaya	5/15/2006	5/17/2006	3	59	71.19%	2,717,900
ENVIRONMENT DAY ACTIVITY IN NUSA, LHOKNGA DISTRICT ACEH BESAR		6/1/2006	6/20/2006	20	446	54.71%	18,463,500
NAD/Establishment of Community-Based Nursery in Desa Sawang, Aceh Jaya District	Sawang Village, Setia Bakti Subdistrict, Aceh Jaya District, NAD	6/5/2006	6/23/2006	19	43	18.60%	32,128,000

Other Event	FGD AND SOCIALIZATION OF SOLID WASTE AND SANITATION PROGRAM FOR YOUTH ORGANIZATION IN LAMKREUT		6/9/2006	6/30/2006	21	81	88.9%	2,688,000
	NAD/Rehabilitation of Area along River Lageun in Desa Sawang	Desa Sawang, Kecamatan Setia Bakti, Kabupaten Aceh Jaya	6/14/2006	6/15/2006	2	28	17.90%	12,530,000
	Environment Journalist Workshop and Field Trip	Surabaya, Batu, Kabupaten Malang, Mojokerto, Gresik	6/5/2006	6/17/2006	13	32	25.00%	53,683,340
	Technical Meeting on the Finalization of the EST WSM TOT Manual and Field Exercises	BPTP Sukarami Solok	6/20/2006	6/21/2006	2	22	4.55%	37,368,066



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