



PRESIDENT'S MALARIA INITIATIVE



INDOOR RESIDUAL SPRAYING FOR MALARIA CONTROL

Senegal FY08 Work Plan

Indoor Residual Spraying (IRS) Indefinite Quantity Contract (IQC)
Task Order 1

July 2008

Contract GHN-I-00-06-00002-00

Prepared for:
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Prepared by:
RTI International
3040 Cornwallis Road
Post Office Box 12194
Research Triangle Park, NC 27709-2194

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I. Introduction, Background and Summary of Country MOP

The President's Malaria Initiative (PMI), through the United States Agency for International Development (USAID) plans to support the Ministry of Health and Prevention (MOHP) in conducting Senegal's 2008 Indoor Residual Spraying (IRS) campaign for malaria vector control in Velingara, Richard Toll and Niore districts using ICON (WP & CS) composed of active ingredient lambda-cyhalothrin.

PMI funds will be used to procure the lambda-cyhalothrin and provide technical and management assistance to the Senegal MOHP for its 2008 IRS Campaign. The insecticide is to be used in the three districts prior to the season of highest transmission, with two rounds of spraying proposed: Richard Toll in March, and Velingara, Niore and Richard Toll from June-August 2008. USAID has identified its development partner, RTI International to serve as its implementing agency responsible for management and provision of technical assistance to support the Senegal IRS Program.

This work plan covers the period from October 1, 2007 – December 31, 2008.

Objective & Expected Results

As indicated in the Malaria Operational Plan (MOP) for Senegal, RTI will provide:

- Strategic, technical, management and operations support to implement the National Malaria Control Program (PNLP) and USAID's goal of reducing malaria-associated mortality in three selected districts via spraying activities.
- RTI (in line with the PNLPP policy) will treat at least 76,000 households with residual insecticide covering a population of approximately 600,000.

Specific support for IRS implementation for FY08 will include:

- Procurement of the selected insecticide and equipment for IRS (e.g. spray pumps, personal protection equipment).
- Technical and financial support for IRS implementation for a population of approximately 600,000, including training of spray operators, store keepers, supervisors and district program managers.
- Support for environmental assessments and monitoring in line with United States Code of Federal Regulations CFR 216, and the establishment of capacity for best practices in the target districts for pesticide handling and usage for IRS.
- Technical support for program planning and implementation, data collection, protocols/guidelines development and logistics capacity for IRS.

II. Overview of Strategy for IRS Country Support

RTI International, Inc. (RTI) is the prime contractor for USAID's Indoor Residual Spraying Indefinite Quantity Contract (IQC), under which it has supported IRS activities in Angola, Eritrea, Tanzania/Zanzibar, Madagascar, Rwanda, Uganda and Zambia. Under the Indoor Residual Spraying IQC Task Order, USAID has requested that RTI provide similar support to the anticipated IRS program in Senegal.

We understand the importance of including key stakeholders during planning and implementation and emphasize an approach that is collaborative and participatory. RTI will work in partnership with the District Health Authorities to plan and implement IRS operations in the targeted districts. In addition, RTI's IRS Program will collaborate with:

- Senegal's MOHP and other stakeholder institutions to establish and maintain a national IRS coordinating committee.
- University Cheikh Anta Diop of Dakar as it manages entomology monitoring and surveillance activities for IRS operations.
- USAID's implementing partner Christian Children's Fund (CCF) and its consortium of NGO partners to manage Information, Education and Communication (IEC) activities in coordination with spray operations.

RTI will also work in collaboration with other USAID partners as directed by USAID/Senegal and PMI staff to ensure comprehensive and coordinated support for the implementation of IRS.

III. IRS Activities

RTI has developed an effective methodology designed to provide the technical management and operational support to implement indoor residual spraying operations in the three targeted districts. RTI's methodology includes a well managed and country tailored approach in planning and implementing IRS operations. RTI will work to expand the methodology utilized during the last spray round through the improvement of training, technical management, creation of operational efficiencies and enhancement of environmental monitoring and compliance for the program. RTI will continue to build on creating an enabling environment at the national and district levels and will put increased emphasis on building local capacity to allow for the MOHP to eventually effectively plan and manage all aspects of IRS operations.

IRS Program Planning and Assessment

Building on experiences, lessons learned and best practices from 2007 round I spray operations, RTI's Chief of Party, Dr. Amadou Gueye will initiate preliminary discussions with PMI Senegal Staff, the Mission Activity Manager, and the national malaria control program (PNLP) to discuss planning for round II spray operations. District level planning of IRS operations would be carried out in collaboration with District Health and Regional Authorities. During the program planning

phase, the COP will conduct field visits to visit to meet with the District Management Team and District Authorities. Discussions at the central and districts level will lead to the development of work plans for IRS operations in the targeted districts and agreement of launch and start of IRS operations.

- Logistics needs assessment: RTI will review the logistics assessment conducted for 2007 IRS operations to assess the needs for additional IRS commodities including quantities of insecticide required for March spray operations in Richard Toll and June spray operations in the 3 targeted districts. The logistics needs assessment will determine the material, logistical and financial support required for the IRS program and associated environmental compliance activities. The logistics needs assessment will include assessments of additional storage facilities required, human resource requirements for the implementation of spray activities, operational arrangements and determination of financial resources for the implementation of spray operations.
- Environmental monitoring and compliance: RTI with the Mission prepared a Pesticide Evaluation Report and Safe Use Action Plan (PERSUAP) in January 2007 to support USAID's environmental review as required under 22 CFR 216. In addition, and per Senegalese environmental regulations, RTI conducted a local Environmental Impact Assessment. The environmental assessments focused on examining environmental analyses for other donor's vector control interventions, and a situation analysis of IRS activities in the country, including pesticide use (chemical, toxicological and ecotoxicological features). The IRS program received approval from Senegal's Commission on Pesticides Management following submission of chemical, toxicological, ecotoxicological information on the insecticide to be used.

A Strategic Environmental Assessment (SEA) report was prepared and submitted as required by the Senegalese Environment Code.

The choice of insecticide, ICON WP, was selected by the PNLN using the following threshold criteria:

- Pesticide registration in Senegal
- Acceptability of the pesticide to the PNLN
- Risk to human health: Pesticide(s) must be approved by WHO and should be preferred based on their safety as described in USAID's Programmatic Environmental Assessment for Integrated Vector Management
- Risk to the environment, livestock and/or agricultural trade

Additional technical and logistics considerations include:

- Vector susceptibility/resistance
- Appropriateness of surface for spraying
- Duration of effectiveness (and implications for cost)
- Cost of insecticide
- Senegal's capacity to prevent pilferage

RTI will propose to use ICON WP for March spray operations in Richard Toll and ICON CS in Velingara, Nioro, and Richard Toll for June-August 2008 spray operations. To that end, RTI submitted an ICON CS safety data sheet to the PNLP and Direction de l'Environnement et des Etablissement classes (DEEC) in May 2008. RTI will begin dialogue with the NMCP and counterparts about the requirement to issue any future tenders at the class level and thus the need to be clear about the selection criteria that will be used to select from among the bids that are received.

Procurement and Logistics

Using information from the first round of spray operations in 2007, RTI will conduct a logistics needs assessment to determine additional IRS commodities required for spray operations in 2008. RTI will arrange all procurement, shipping, delivery, and storage of compression sprayers, spare parts, sprayer maintenance kits, insecticides and personal protective equipment.

Mobilization of IRS Districts Team and Training

- Mobilization of Districts Team: RTI will train additional staff recruited within the district operations management team to manage and set up IRS operational sites within each district. Together with the Environmental Officer, the Districts Management Team will ensure that environmental mitigation activities such as set up of soak pits, progressive rinse systems, secure dedicated storage facilities and detail planning to retrieve and store empty insecticide sachets are instituted within each district. In addition, the district management team will oversee logistics management and transport arrangements to support spray activities. Spray operators will be recruited within the targeted districts by district health authorities, local leaders and other key stakeholders based on operational requirements per each district. The District Team will work closely and be supervised by the Dakar Team from planning through to the implementation phase.
- Training: RTI's Technical Director John Chimumbwa will lead a training of trainers program on IRS operations in collaboration with PNLP. The participants from Service D'Hygiene, District Health Directorate and UCAD will serve as trainers of spray operators recruited within each district and will be requested to plan and manage spray operator training. The training of trainers and spray operators serves as a critical aspect of the program to ensure trainers and spray operators learn correct application techniques including environmental monitoring and compliance, use and maintenance of spray equipment.

The training and final selection of spray operators will precede the start of IRS operations in all districts.

RTI will engage the PNLP and District Authorities through the planning phase, capacity building activities (such as training of trainers) and supervision to encourage ownership of the program and oversight of spray operations in the targeted districts.

IEC Development and Implementation

A critical aspect of the IRS program is the Information, Education, and Communication (IEC) to inform the beneficiaries about the IRS program, about what they should expect, how it is beneficial to them and their family's health, and what precautions they need to take. The intention of the program is to prepare households and ensure their willingness to get their houses sprayed. USAID has identified its implementing partner Christian Children's Fund (CCF) to lead and manage the IEC campaign for IRS operations. To that end, RTI will work closely with CCF to discuss the IEC plan for IRS operations and coordinate IEC activities with IRS operations within each district.

IRS Spray Operations

RTI will divide spray operators into teams of 4 spray operators and 1 team leader to ensure strict supervision during the implementation phase. Spray teams will be managed and monitored by supervisors within each health post and district. Districts management teams will provide oversight to ensure RTI's goal of providing day-to-day operational management and support for IRS implementation, including all aspects of monitoring, and quality assurance. Each district will maintain an operational spray plan indicating sub districts and communities to be sprayed during the spray operations. During the first week, spray leaders at each operational site will meet at the end of the day to discuss the day's events, challenges faced and recommendations for resolving problems. The health post/operational site leadership team will continue to have these meetings frequently and will meet at the end of each week, to review the week's achievements as well as plan for the following week- where necessary the spray leadership team will make adjustments to the spray operational plan. RTI will maintain records of program performance reports which demonstrate adherence to WHO technical standards quality of training and supervision, procurement activities and environmental compliance.

RTI will host a post IRS evaluation meeting with key stakeholders including USAID, PNL, UCAD, and Regional and District Authorities to discuss results from the spray operations, key achievements, challenges faced, and lessons learned.

Collaboration with key stakeholders and building in country capacity

A key objective is to build in-country capacity to manage IRS operations. To that end, RTI will recruit and train Senegalese in technical and program management of IRS operations including logistics management and environmental monitoring and compliance. RTI will work with District Authorities in planning and monitoring spray operations at district level to increase capacity within the targeted districts.

During the training of trainers, RTI will train District Authorities, Service D'Hygiene and the National Malaria Program personnel in spray applications techniques with the intention of requesting their lead in training of spray operations for subsequent spray rounds. Through these activities, RTI intends to increase stakeholder enthusiasm to lead training and operational management of IRS activities. At the end of 2008 spray operations, RTI will work with the

PNLP to identify areas in which the PNLN and key stakeholders will take a lead role during the planning and implementation phase of future spray operations.

Round III Planning

RTI's Chief of Party Dr. Amadou Gueye will build on best practices and lessons learned from round II spray operations to initiate discussions and planning for selected districts for round III spray operations with the PMI Senegal Team, PNLN, and regional and District Authorities. Following agreement on roles and responsibilities of key stakeholders under the IRS Program, the Dr. Gueye and PNLN will engage District Authorities in IRS program planning and milestone development. During the program planning phase, the COP will conduct field visits to the targeted districts to meet with the District Management Team and District Authorities. Discussions at the central and districts level will lead to micro- planning at district level and agreement of launch and start of IRS operations.

Building on the last round, RTI will conduct a logistics needs assessment in collaboration with PNLN to determine additional IRS commodities required for spray operations in 2009. The logistics needs assessment will include assessments of additional storage facilities required, human resource requirements for the implementation of spray activities, operational arrangements and determination of financial resources for the implementation of spray operations. During the pre-operational planning phase, RTI will work closely with PNLN to build its capacity in logistics assessment and needs for IRS operations including required logistical arrangements that are required for spray operations.

If needed, RTI will also undertake responsibility for requesting required IRS permissions from the Ministry of Environment, should a change in pesticide or circumstances occur that would require a new authorization from the Ministry.

IV. Management Plan

RTI will establish an effective and efficient management structure in Senegal to efficiently implement the IRS program with quality control measures, in conformity with international standards as described in WHO guidelines on IRS. RTI's Chief of Party, Dr. Amadou Gueye will ensure that all of RTI's corporate systems and procedures are mobilized appropriately to support management of this project. Dr. Gueye will serve as the principal point of contact with USAID and will bear ultimate responsibility for all project management tasks, including quality and cost control, performance monitoring, branding and marking, reporting, and client relations. Dr. Gueye will be based in Dakar and will retain overall responsibility for managing RTI and partner activities in Senegal. Dr. Gueye will work with the in-country team, district authorities and key stakeholders to implement recommendations and experiences based on the first round of IRS operations. Dr. Gueye will receive continued support from Mamadou Diallo (Logistics Officer) and Fatou Gueye (Finance Officer).

Mr. Diallo will manage procurement and logistics requirement for the IRS program. He will ensure rational and timely procurement, storage and distribution of insecticides and IRS related commodities. In addition, the Logistics Officer will monitor the distribution of insecticides and

other IRS related commodities to warehouses and other storage facilities. He will ensure adherence to RTI's standard procurement operating procedures for IRS related commodities ordering and distribution

Mrs. Gueye will assume responsibility for financial management of the IRS project and ensure compliance with RTI and USAID's financial procedures.

Other non-key personnel at the national level include an Environmental Office and a Program Assistant. RTI has hired an Environmental Officer to ensure environmental monitoring and compliance for IRS operations in the targeted districts and a Program Assistant to provide additional administrative support to the in-country team. The above mentioned personnel will be based in the Dakar Office and in the targeted districts to plan and supervise IRS operations in Velingara, Niore and Richard Toll.

RTI will also hire District Coordinators for each district supported by District Logisticians, Finance Assistants and Data Managers as key staff responsible for each operational location. RTI will work to ensure that each level within the IRS structure is connected with counterparts within the Government of Senegal (GoS). The Chief of Party will interface with top level staff at PNL and other GoS agencies. District Coordinators will work directly with local authorities, health officials and community leaders.

Strategic Technical Assistance

The in-country team will also receive technical and administrative support from RTI staff in Nairobi led by RTI's IRS Technical Director, Dr. John Chimumbwa, and Washington led by Task Manager Anna Thompson. Ms. Thompson will provide home-office backstop functions.

Dr. Chimumbwa will provide overall technical oversight of the IRS program in Senegal. In his capacity as Technical Director, Dr. Chimumbwa will examine lessons learned from round one spray operations and identify areas for improvement of technical management of spray operations. He will provide technical assistance remotely during the preparatory phase as well as during the second round of spray operations. Dr. Chimumbwa will also provide on-the-ground support to the Senegal Team during the training of trainers for spray operations in the targeted districts. He will also conduct a technical management visit to the targeted districts during spray operations to monitor spray operations and provide recommendations as needed.

In FY 2008, RTI intends to improve the level of environmental monitoring and compliance for spray operations. To that end, the Environmental Officer in Senegal will work with the in-country team to improve environmental mitigation activities that are required for successful implementation of IRS operations in the targeted districts. The Environmental Officer will receive additional technical assistance and support for RTI's environmental and technical management teams in Nairobi and Washington.

Anna Thompson, Task Manager will provide overall financial and program management support to the Senegal Team to ensure lessons learned and best practices from the last round of spray operations are incorporated into the planning and implementation phase. She will visit Dakar and

the three targeted districts during spray operations to provide additional technical and management support to improve efficiencies within the program and make certain spray operations are carried out effectively. Through FY 2008, Ms. Thompson will work with the Senegal Team to address the PMI and NMCP's concerns

The following table represents RTI's plan for providing technical assistance:

Table 1: Strategic Technical Assistance and TDY Plan

Name	Type of TA (consultant, RTI employee, local, international)	Coming from (USA or Nairobi)	Tasks to be undertaken or activities to be supported	Number of visits
John Chimumbwa	RTI employee, international	Nairobi	Round II IRS planning visit- 3-7 December 2007 Training of Trainers (Richard Toll)- 17- 24 th February, 2008 Post IRS evaluation meeting- August/September	3
Anna Thompson	RTI employee, international	USA	Round I lessons learned & round II planning visit: o/a 3-7 December 2007 Richard Toll start up program management - o/a 26 February-6 March, 2008 Round III planning visit- TBD	4
Gaspard Bikwemu	RTI Nairobi Office	TBD	RTI external environmental compliance visit	1

V. Monitoring and Evaluation Plan

RTI will plan, implement and document a monitoring and evaluation component for IRS operations. RTI will review indicators, methods, and data sources for monitoring and evaluation of IRS operations with the PMI Senegal Team, PNLN, and University Cheikh Anta Diop (UCAD) of Dakar. The M&E Plan will focus the following key elements:

- Baseline assessment and entomological surveillance: UCAD under a separate contractual mechanism will lead and provide technical and operational support for entomological surveillance within the targeted districts during and post-spraying. RTI's COP will work closely with UCAD to review results of entomology surveillance.
- Spray operations: RTI will maintain records of program performance reports which demonstrate adherence to WHO technical quality standards of training and supervision, procurement activities, and environmental compliance.
- Environmental compliance monitoring: RTI Senegal's Environmental Officer will conduct an "internal" inspection to determine compliance with the environmental assessment.

Spray forms for the collection of household level data by spray operators will be assessed and validated by key stakeholders and the data collection process monitored and reported on a daily basis during spray operations.

RTI will establish routine reporting procedures, expected formats, and deadlines for submission with the CTO and PNLN. Due to the complexities of managing IRS programs, RTI will ensure

program reports document operational, technical, and financial management of IRS activities. RTI will also submit end of spray round performance reports documenting the planning and implementation process, key achievements, challenges faced, best practices utilized and lessons learned.

Table 2: Reporting Indicators

Indicator	Disaggregate	Frequency	Baseline (BL); Y1 Target
<i>Project Objective 1: Protection from malaria in target areas increased</i>			
1.A: Anopheline resting density	indoor, outdoor	semi-annual	TBD
1.B: Measured resistance of mosquitoes to insecticide on treated surfaces	n/a ¹	semi-annual	TBD
1.C: Percentage of focus group participants who correctly understand safe household use of anti-malaria insecticides	male, female	annual	TBD
<i>Intermediate Result 1.1: National collaboration on malaria prevention and control efforts improved</i>			
1.1.A: Number of national and local health officials who participated in leadership roles for IRS planning or implementation during the last reporting period	male, female	semi-annual	
1.1.B: Percentage of targeted malaria stakeholder organizations that participated in each of the three most recent coordination meetings during the last reporting period	n/a	semi-annual	
<i>Intermediate Result 1.2: IRS programs safely implemented in targeted areas</i>			
1.2.A: Number of houses treated with anti-malarial insecticide (indoor residual spraying) with USG support	target districts	semi-annual	0; 75,000
1.2.B: Percentage of targeted structures treated with anti-malarial insecticide (indoor residual spraying) with USG support		annual	0; TBD
1.2.C: Value (USD) of anti-malarial commodities (insecticide and related commodities) purchased by USG for use in PMI or USAID supported efforts	insecticide, spray equipment and personal protective equipment	semi-annual	TBD

¹ Indicators 1 A and B will be managed through separate contractual mechanism between PMI and University Cheikh Anta Diop of Dakar.

Indicator	Disaggregate	Frequency	Baseline (BL); Y1 Target
1.2.D: Number of sector assessments related to anti-malarial efforts conducted by projects supported by the USG during the last reporting period	environmental/PERSUAP logistics Senegal environmental assessment	semi-annual	0; 1 0; 1
1.2.E: Average number of insecticide sachets used per household sprayed	n/a	semi-annual	0; TBD
1.2.F: Average percentage of IRS oversight checklist items that met requirements for compliance	target districts	monthly	0; TBD
1.2.G: Percentage of trained spray operators tested using the Spray Operator Test who met or exceeded minimum acceptable scores	Male, female	monthly	0; TBD
1.2.H: Ratio of insecticide used (actual) to (estimated) insecticide needed	n/a	monthly	0; TBD
1.2.I: Ratio of dosage applied to application rate recommended	n/a	monthly	0; TBD
1.2.J: Percentage of targeted and visited households that do not participate in an IRS cycle	refusals, absentees	monthly	0; TBD
<i>Intermediate Result 1.3: Capacity in malaria prevention and control improved</i>			
1.3.A: Number of Postes de Sante with all planned IRS staff hired and trained	target districts	semi-annual	0; TBD
1.3.B: Percentage of households sprayed and observed that had all persons, food, and goods outside of the house and furniture correctly covered	target districts	annual	0; TBD
1.3.C: Percentage of people surveyed in targeted communities who report accurate knowledge provided in IRS IEC messages	target districts	annual	0; TBD
<i>Sub IR 1.1.1: Skills of organizations and individuals supporting national anti-malaria efforts improved</i>			
1.3.1.A: Number of people who received training in malaria prevention with Presidential Malaria Initiative (PMI) or USAID malaria support in the last reporting period	male, female; spray operators; other training	semi-annual	0; TBD

RTI anticipates preparing the following deliverables and will consult with USAID/Senegal, the NMCP, and USAID’s CTO for the IRS IQC to confirm the formats and schedule for the following reports.

- Pre-Operational Period
 - Environmental Assessment
 - Scope of Work including an Annex that documents environmental compliance requirements; to be agreed among USAID, RTI and cognizant Senegalese ministries (e.g., MOH/GHS/NMCP and Environment)
 - Logistics Assessment
 - Sustainability Matrix
 - IRS Work Plan, including:
 - Operations Schedule
 - Performance Monitoring Plan (M&E)
 - Any updates or changes to Branding and Marking Plan
- Operational Period
 - Daily progress reports
- Post-operational Period
 - End of Round Spraying Performance Report, including incident reporting with documentation

The COP and Finance Officer will review all financial data monthly and inform the Task Manager of budget constraints and variances based on monthly financial analysis.

VI. Branding and Marking

RTI has developed and submitted a branding and marking plan which has been approved by the Mission Activity Manager. The branding plan outlines a proposal in which the IRS program adopts the PMI logo as the official project brand. In Senegal, RTI will ensure the branding carries the translated tagline “From the American People” and “President’s Malaria Initiative” in French for use in branding country-specific project materials and products (e.g., “Du Peuple Americain” and “L’Initiative du Président Americain Contre Le Paludisme,” respectively). The project title “Indoor Residual Spraying for Malaria Control” will also be translated into the local language equivalent (e.g., “Aspersion Intra Domiciliaire pour la Lutte Contre Le Paludisme”). The branding and marking plan will focus on program communication and publicity including the marking plan for materials to be produced, promotional activities and increasing awareness of the President’s Malaria Initiative.

Since the IRS Program includes direct involvement of government agencies and counterparts, RTI will tailor its branding plan to include the host government agencies’ logos or branding as deemed necessary and per the CTO’s approval.

Attachment 1: Senegal Implementation Plan and Timeline²

For period from October 2007 to December 2008

Component	Activity	Person/ partner Responsible	Project Month												Key Milestones				
			O	N	D	J	F	M	A	M	J	J	A	S		O	N	D	
Project Start-up/ Mobilization	Recruit, train and deploy District Operations Managers	RTI		X	X						X	X	X				X	X	District staff recruited and trained.
	Establish satellite office in Districts	RTI			X	X						X						X	
	Work plan submitted.	RTI			X	X	X											X	
Planning and Assessment	Discuss IRS planning for March Richard Toll spray operations	RTI	X	X	X	X	X									X	X	X	Country scope of work approved. Logistics baseline entomology assessments completed. ³
	Discuss IRS planning for June 3 district spray operations at central and district levels	RTI								X									
	Discuss upcoming spray operations, IRS scope of work, and program objectives with PNLP and District Authorities	RTI, PMI, PNLP	X	X	X					X	X					X	X	X	
	Conduct logistics needs assessment.	RTI	X							X					X				
Procurement and Logistics	Deliver insecticide, PPE and equipment to targeted districts	RTI			X	X				X	X							X	Insecticide, PPE and equipment delivered to districts
Spraying Operations	Conduct training of trainers for district health authorities and environmental officers	RTI, PNLP					X	X		X									Medical check-ups completed. Training completed. Spraying launched. Spraying completed
	Conduct medical check up	RTI, PNLP				X	X			X									
	Conduct training of spray operators, store keepers and drivers				X	X				X									
	Conduct spray operations	RTI/IRS Program						X	X			X	X						
	Inventory and operational assessment	RTI/IRS Program				X	X			X									
Monitoring &	Conduct entomology	RTI/PNLP											X	X				Environmental	

² Project start up phases include start up activities for March Richard Toll operations and June/July 3 district operations for FY 2008

³ The environmental and logistics assessments for Velingara, Niore and Richard Toll were completed in February 2007.

Component	Activity	Person/ partner Responsible	Project Month												Key Milestones			
			O	N	D	J	F	M	A	M	J	J	A	S		O	N	D
Evaluation	surveillance																	Compliance, IRS surveillance reports submitted to USAID.
	Conduct internal inspection to determine compliance with the environmental assessment pre-spray operations	UCAD ⁴					X				X							
	Conduct internal inspection to determine compliance with the environmental assessment during spray operations											X	X					
Post Spray Operations	Closing Ceremony	RTI/PNLP.												X				Equipment and supplies recaptured. Spray operations team demobilized. Debrief with PNLP and USAID.
	Conduct medical check up of spray personnel and demobilization of spray team	RTI												X				
	Maintenance of equipment	RTI							X					X				
	Inventory assessment	RTI					X		X	X	X			X				
	Hazardous waste disposal	RTI												X				
	District & Regional Meetings-post evaluation	RTI							X	X				X				
	Demobilization of short term district person	RTI												X				
Round III Planning and Assessment	Discuss upcoming round III spray operations with PNLP, USAID , Region and Districts	RTI/PNLP.												X				Round III Work plan and targeted districts approved. Logistics assessments completed. Pesticide selected
	Discuss implementation timeline with USAID and PNLP	RTI												X				
	Conduct logistics needs assessment.	RTI												X	X			
	Select pesticide	RTI													X	X		
	Develop technical specifications.	RTI														X		
	Conduct initial planning visit to round III targeted sites	RTI RTI														X	X	

⁴ UCAD- University of Dakar.

Attachment 2: Senegal Countdown Calendar

For period from October 2007 to December 2008

Component	Key Milestone	Date to be Completed	Status (e.g., date achieved)	Antecedent to:
Project Start-up/ Mobilization	Country work plan approved by USAID			Producing country scope of work
	Scope of work agreed with government and/or key partner	Completed	Completed	Initiating planning activities with government and/or key partners
Planning and Assessment	Logistics assessment completed	2/07	Submitted	Planning scope and scale of operations and procurement to be required
	Agreement reached with USAID and government on pesticide selection	3/07	Achieved	Permission for spray operations
	Environmental Assessment completed	2/07	Approved	Finalization of EA and approval
	SEA approved by USAID	4/11/07	Approved	Permission for spray operations
	EIA approved by national environmental agency	5/07	Approved	Procurement
Procurement & Logistics	Technical specifications for tenders approved and released	12/07; 4/08	completed	Ordering supplies for spraying
	Vendor selection and procurement process completed	1/08; 4/08	completed	Delivery of supplies for spraying
	Compression sprayers delivered	5/08	completed	Spray operator training
	Insecticide and PPE delivered	5/08; 12/08	completed	Initiation of spray operations
IEC Development & Implementation⁵	IEC implementation plan completed			IEC material design
	IEC material designs and implementation plan approved			Production of materials
	IEC materials produced and delivered to project			Training of IEC implementers
	Training of IEC implementers completed			Implementation of IEC campaign
	IEC campaign launched			Spraying operations
Spraying Operations	Geographic reconnaissance completed	1/07	Achieved	Team assignments and logistics arrangements
	District staff recruited, oriented and trained	1/08; 4/08; 12/08	Achieved	Completion of operational logistics and EM set up
	Operational logistics and environmental mitigation set up at operational sites	1-5/08; 12/08	Completed for 03/08 spray operations	Spraying operations
	Medical check-ups (including pregnancy tests) for sprayers, supervisors, warehouse staff, cleaners, etc. completed	5/12-23		Permission to spray

⁵ IEC Development and Implementation managed under a separate contracting mechanism by the Christian Children's Fund.

	Training of spray operators completed	2/25-29; 5/26-30		Spraying operations
	Spray operations launched	6/2		
	Spraying operations completed	08/08		Recapture and proper management of equipment and supplies
	Equipment and supplies recaptured and securely disposed or stored	09/08		Environmental compliance
	Post-spraying evaluation conducted	09/08		Final report production
	Final report produced and submitted to USAID	10/08		
Round III Planning	Round III work plan and timeline approved by USAID and PNLP	9/08		Agreement of targeted districts and permission to spray
	Scope of work and targeted sites agreed with government and/or key partner	9/08		Initiating planning activities with government and/or key partners