

Questionnaire for Terminal Evaluation (Counterparts from DINAMA)

0. About yourself

0.1 Name (optional):
0.2 Position and organization:
0.3 Date started to work with the captioned Project: since _____ / _____ (month/ year)

1. About the achievement of the Project (with reference to PDM ver.20100224)

Items	QUESTIONS	Your ANSWER <div style="display: flex; justify-content: space-between; align-items: center; font-size: small;"> Not at all ← More or less ↔ Very much Don't know </div>						Please explain reasons for your answer and/or any additional comments.
1-1 Achievement of Outputs as per PDM ver.20090519	1-1-1 Management system of DINAMA with respect to pollution source control/water quality management has been developed.	1	2	3	4	5	6	
	1-1-2 The coordination and collaboration system among relevant institutions subject to control of water pollution source/water quality management has been established.	1	2	3	4	5	6	
	1-1-3 Capacity of DINAMA and other institutions involved with respect to water monitoring system of river and effluent has been strengthened.	1	2	3	4	5	6	
	1-1-4 Capacity of DINAMA and other institutions involved with respect to data compilation, analysis and evaluation subject to water pollution source control has been strengthened.	1	2	3	4	5	6	
	1-1-5 Capacity of DINAMA with respect to inspection, evaluation and enforcement subject to pollution source management has been strengthened.	1	2	3	4	5	6	

Items	QUESTIONS	Your ANSWER Not at all ← More or less → Very much Don't know						Please explain reasons for your answer and/or any additional comments.
		1	2	3	4	5	6	
1-1 Achievement of Outputs as per PDM ver.20090519 (continued)	1-1-6 The integrated information system with respect to water pollution control/water quality management has been constructed and is used.							
1-2 Inhibiting and/or promoting factors	1-2-1 There are factors that inhibited the achievement of the above outputs (please specify) 1-2-2 There are factors that promoted the achievement of the above outputs.	1	2	3	4	5	6	
		1	2	3	4	5	6	

2. About the Implementation Process of the Project

Items	QUESTIONS	Your ANSWER Not at all ← More or less → Very much Don't know						Please explain reasons for your answer and/or any additional comments.
		1	2	3	4	5	6	
2-1 Progress of activities	2-1-1 Almost all the activities have been implemented as planned. 2-1-2 There are some factors that made it difficult to carry on projects' activities.	1	2	3	4	5	6	
2-2 Technical transfer	2-2-1 Technical transfer to counterpart from DINAMA has been adequately made.	1	2	3	4	5	6	

Items	QUESTIONS	Your ANSWER						Please explain reasons for your answer and/or any additional comments.
		Not at all	More or less	4	Very much	Don't know		
2-3 Monitoring	2-3-1 The Project carries on regular monitoring of the Project activities.	1	2	3	4	5	6	
2-4 Communication among stakeholders	2-3-2 Modifications of PDM and/or PO (Plan of Operations) have been made in an adequate manner.	1	2	3	4	5	6	
2-5 Allocation of counterparts	2-4-1 Communications among Japanese experts, among DINAMA, as well as between the Project team and other related institutions (including municipalities) have been smooth and effective.	1	2	3	4	5	6	
2-6 Allocation of Japanese Experts (JET)	2-5-1 Allocation of counterparts has been appropriate in terms of its quantity and quality in order to produce effects of the Project.	1	2	3	4	5	6	
2-7 Others	2-6-1 Allocation of JET has been appropriate in terms of its quantity, quality and area(s) of expertise in order to produce effects of the Project.	1	2	3	4	5	6	
	2-7-1 There have been some problems that affected the realization of the Project effects.	1	2	3	4	5	6	

3. Relevance

Items	QUESTIONS	Your ANSWER						Please explain reasons for your answer and/or any additional comments.
		Not at all	More or less	4	Very much	Don't know		
3-1 Necessity	3-1-1 The Project objectives and strategies still match the needs of the target area and/or the society.	1	2	3	4	5	6	
3-2 Priority	3-1-2 Activities of the Project still match the needs of the target groups (i.e. DINAMA and other related institutions). 3-2-1 The focus of the Project on Environment Management (esp. water pollution control and water quality management) is positioned as one of the priority area(s) within the national development policy in Uruguay.	1	2	3	4	5	6	
3-3 Adequacy of means	3-3-1 The project's approach (methodology, targeting area etc.) is adequate in order to tackle development issues in environment management sector Uruguay. 3-3-2 The selection of target area (6 municipalities in Santa Lucia River Basin) has been appropriate.	1	2	3	4	5	6	

4. Effectiveness

Items	QUESTIONS	Your ANSWER						Please explain reasons for your answer and/or any additional comments.
		Not at all	More or less	3	4	Very much	Don't know	
4-1 Likelihood of the project purpose to be achieved	4-1-1 Capacity of DINAMA and other institutions involved with respect to water pollution control for Santa Lucia River Basin is strengthened.	1	2	3	4	5	6	
	4-1-2 Capacity of DINAMA and other institutions involved with respect to water quality management for Santa Lucia River Basin is strengthened.	1	2	3	4	5	6	
4-2 Causal relationships between outputs and project purpose.	4-1-3 Coordination system among DINAMA and other related institutions has been strengthened.	1	2	3	4	5	6	
	4-2-1 Six outputs identified in PDM have been sufficient in order to achieve project purpose.	1	2	3	4	5	6	
	4-2-2 DINAMA's policy on water quality conservation has been maintained.	1	2	3	4	5	6	
	4-2-3 There are factors that inhibited the achievement of the project purpose indicated in PDM (please specify)	1	2	3	4	5	6	
	4-2-4 There are factors that promoted the achievement of the project purpose indicated in PDM (please specify).	1	2	3	4	5	6	

5. Efficiency

Items	QUESTIONS	Your ANSWER					Please explain reasons for your answer and/or any additional comments.
		Not at all	More or less	Very much	Don't know		
5-1 Level of achievement of outputs	5-1-1 All the activities of the Project have been appropriately implemented in order to achieve the expected outputs.	1	2	3	4	5	
5-2 Appropriateness of inputs	5-2-1 The inputs made by Japanese side have been adequate in terms of its quantity, quality and the timing.	1	2	3	4	5	
	5-2-2 The inputs made by Uruguayan side have been adequate in terms of its quantity, quality and the timing.	1	2	3	4	5	
	5-2-3 There are some inputs that are not fully utilized in the Project activities (please specify in any).	1	2	3	4	5	

6. Impact

Items	QUESTIONS	Your ANSWER					Please explain reasons for your answer and/or any additional comments.
		Not at all	More or less	Very much	Don't know		
6-1 Likelihood of achieving overall goal	6-1-1 The overall goal as per PDM "1. Measures to improve water quality of Santa Lucia River Basin are taken" is likely to be achieved within 3-5years after the termination of the Project.	1	2	3	4	5	
	6-1-2 The overall goal as per PDM "2. Cooperate and strengthen the programs and projects of pollution control and water quality management in cooperation with actors involved for promoting improved environmental management in other river basin" is likely to be achieved within 3-5years after the termination of the Project.	1	2	3	4	5	

Items	QUESTIONS	Your ANSWER Not at all ← More or less → Very much Don't know						Please explain reasons for your answer and/or any additional comments.
		1	2	3	4	5	6	
6-1 Likelihood of achieving overall goal (contd)	6-1-3 There are some factors and/or problems that might inhibit the achievement of the above overall goal of the Project.							
6-2 Socio-economical impacts	6-2-1 There are some policy and/or socio-economical impacts (either positive and/or negative impacts) caused by the Project implementation. 6-2-2 There are some negative impacts caused as a result of the Project implementation (please specify, if any).	1	2	3	4	5	6	

7. Sustainability

Items	QUESTIONS	Your ANSWER Not at all ← More or less → Very much Don't know						Please explain reasons for your answer and/or any additional comments.
		1	2	3	4	5	6	
7-1 Policy aspects	7-1-1 The Environmental Management policy by the government of Uruguay is likely to remain in one of the priority areas within the national development policy after the termination of the Project. 7-1-2 There are some mechanisms or systems at policy level to diffuse the effects of the Project after the termination of the Project.	1	2	3	4	5	6	
7-2 Organisational and financial aspects	7-2-1 DINAMA has institutional capacity (both human and financial resources) in order to maintain the effects of the Project after its termination.	1	2	3	4	5	6	

Items	QUESTIONS	Your ANSWER						Please explain reasons for your answer and/or any additional comments.
		Not at all	1	2	3	4	5	
7-3 Technical aspects	7-3-1 The techniques on water pollution control and management of water quality transferred by the Project will be continuously utilized after the termination of the Project.							
	7-3-2 The techniques transferred by the Project is applicable to and is likely be utilized in other river basin(s) after the termination of the Project.							

Questionnaire for Terminal Evaluation (Target 6 municipalities)

1. About yourself

0.1 Name (optional):	
0.2 Organisation and Name of Municipality:	
0.3 Position(responsibility) in charge:	
0.4 Date started to work with the above position: since _____ / _____ (month/ year)	

2. Water Quality Management in your municipality

QUESTIONS	Your ANSWER
2-1 As a municipality, do you have any activities for water pollution control and/or management of water quality in Santa Lucia River Basin?	(If you do, please provide further details.)

3. About the activities of the Project

Please check with an 'X' your appropriate answer and provide further detail to explain the reasons for your answer.

QUESTIONS	Your ANSWER						Please explain reasons for your answer and/or any additional comments.		
	Not at all	1	2	3	4	5		6	Don't know
3-1 In my municipality, activities for water pollution control and/or management of water quality in Santa Lucia River Basin has been strengthened through the Project.									(If yes, in what aspect has it been strengthened?)
3-2 In my municipality, coordination mechanism with other related institutions for water quality management has been strengthened through the Project.									(If yes, in what aspect has it been strengthened?)

QUESTIONS	Your ANSWER						Please explain reasons for your answer and/or any additional comments.
	Not at all	More or less	3	4	Very much	Don't know	
3-3 There exist some difficulties and/or limitations during the process of setting up coordination mechanism for water pollution control /water quality management.	1	2	3	4	5	6	(If yes, please provide further details.)
3-4 There exist some difficulties and/or limitations to carry out activities of water pollution control /water quality management at the municipality level.	1	2	3	4	5	6	(If yes, please provide further details.)
3-5 There exist some difficulties and/or limitations in order to maintain coordination mechanism for water pollution control /water quality management after the termination of the Project.	1	2	3	4	5	6	(If yes, please provide further details.)
3-6 Communications among stakeholders (Japanese experts, DINAMA, other related institutions, municipalities) has been smooth enough to effectively carry out the Project activities.	1	2	3	4	5	6	(Please provide further details.)
3-7 If you have any further comments for the Project, please feel free to write in the right column.							(Your comments for the project, please write them here.)

JETおよびC/P 質問表回答集計 (回答数：5名中5名)

1. プロジェクトの実績に関するご質問

設問大項目	評価設問に対する回答文	回答を選択してください。					
		全く同意 しない	どちらとも 言えない	強く同意 する	分からない		
1-1 アウトプットの産出達成度	1-1-1 DINAMA の汚染源管理及び水質管理体制は強化された。	1	2	3	4	5	6
	1-1-2 関係機関の協調体制が確立された。	1	2	3	4	5	6
	1-1-3 河川及び排水に関する水質モニタリング能力は強化された。	1	2	3	4	5	6
	1-1-4 汚染源管理に関する情報収集及びデータ解析・評価能力は強化された。	1	2	3	4	5	6
	1-1-5 汚染源管理に関する査察・評価・指導能力は強化された。	1	2	3	4	5	6
	1-1-6 汚染源／水質総合情報管理システムは構築され活用されている。	1	2	3	4	5	6
1-2 アウトプット達成への貢献・阻害要因	1-2-1 アウトプット達成を阻害した要因が存在する。	1	2	3	4	5	6
	1-2-2 アウトプット達成に強く貢献した要因がある（具体的にご記入下さい）。	1	2	3	4	5	6

2. プロジェクトの実施プロセスに関するご質問

設問大項目	評価設問に対する回答文	回答を選択してください。					
		全く同意 しない	どちらとも 言えない	強く同意 する	分からない		
2-1 活動の進捗状況	2-1-1 活動は計画通りに実施されている。	1	2	3	4	5	6
				1	4		
2-2 技術移転の実施状況	2-1-2 活動にあたっての問題点がある（ある場合は、右欄に記入してください）	1	2	3	4	5	6
				1	1	1	1
2-3 モニタリングの実施状況	2-2-1 CP に対する技術移転は適切に実施されている。	1	2	3	4	5	6
					4	1	
2-4 コミュニケーション	2-3-1 定期的なモニタリングが行われている。	1	2	3	4	5	6
					2	3	
2-5 カウンターパートの配置	2-3-2 PDM および詳細活動の軌道修正は適切に行われている。	1	2	3	4	5	6
				1	2	2	
2-6 日本人専門家の配置	2-4-1 専門家間、「ウ」国側 CP 間、およびプロジェクトと「ウ」国環境局、その他関係機関、自治体とのコミュニケーションは円滑に行われている（語学や習慣等を含む）。	1	2	3	4	5	6
				1	1	2	
2-7 その他	2-5-1 適切なカウンターパートが配置されている（人数、分野、能力において）	1	2	3	4	5	6
				2	2		1
2-7 その他	2-6-1 日本人専門家の配置はその専門分野、人数、配置期間等においてプロジェクト効果発現のために適切であった。	1	2	3	4	5	6
					4	1	
2-7 その他	2-7-1 プロジェクトの実施過程で生じた問題や効果発現に影響を与えた問題がある。（ある場合、具体的に記入してください）	1	2	3	4	5	6
		1	1		1	1	

3. 妥当性

設問大項目	評価設問に対する回答文	回答を選択してください。					
		全く同意 しない	どちらとも 言えない	どちらとも 言えない	強く同意 する	分から ない	
3-1 必要性	3-1-1 本プロジェクトは、対象地域・社会のニーズに合致したものである。	1	2	3	4	5	6
						5	
3-2 優先度	3-1-2 プロジェクトの活動内容は、ターゲットグループ（DINAMA および関係機 関）のニーズに合致したものである。	1	2	3	4	5	6
						5	
3-3 プロジェクトデザインの適切 性	3-2-1 本プロジェクトの該当分野（環境管理）は、「ウ」国の開発政策上でも優先 度が高い位置づけである。	1	2	3	4	5	6
					2	3	
	3-3-1 本プロジェクトのアプローチ、手法は対象地域、ターゲットグループに対し て適切なものである。	1	2	3	4	5	6
					4	1	
	3-3-2 対象地域の選定、およびターゲットグループの選定は適切である。	1	2	3	4	5	6
					2	3	

4. 有効性

設問大項目	評価設問に対する回答文	回答を選択してください。					
		全く同意 しない	どちらとも 言えない	どちらとも 言えない	強く同意 する	分から ない	
4-1 プロジェクト目標の達成 予測	4-1-1 DINAMA 及び関係機関のサンタルシア川流域の汚染源管理能力は強化され た。	1	2	3	4	5	6
					3		1
	4-1-2 DINAMA 及び関係機関のサンタルシア川流域の水質管理能力は強化され た。	1	2	3	4	5	6
				1	2	2	
	4-1-3 DINAMA 及び関係機関の流域汚染源／水質管理の協調体制は強化された。	1	2	3	4	5	6
				2	3		

設問大項目	評価設問に対する回答文	回答を選択してください。					
		全く同意 しない	どちらとも 言えない	強く同意 する	どちらとも 言えない	強く同意 する	分から ない
4-2 アウトプットとプロジェクト 目標の因果関係	4-2-1 アウトプットはプロジェクト目標達成のために十分である。	1	2	3	4	5	6
				1	3		
	4-2-2 DINAMA の水質保全に関する政策は維持され続けている。	1	2	3	4	5	6
				2	2	1	
4-2-3 その他、プロジェクト目標の達成を阻害する要因がある。	1	2	3	4	5	6	
		1	1	2			
4-2-4 プロジェクト目標の達成に強く貢献した要因がある（ある場合は具体的にご記入下さい）。	1	2	3	4	5	6	
				4			

設問大項目	評価設問に対する回答文	回答を選択してください。					
		全く同意 しない	どちらとも 言えない	強く同意 する	どちらとも 言えない	強く同意 する	分から ない
5-1 アウトプットの産出	5-1-1 期待されたアウトプットを得るために予定された活動が適切に実施された。	1	2	3	4	5	6
					4	1	
5-2 タイミング・質・量	5-2-1 プロジェクトの日本側の投入（専門家の派遣、機材、現地活動費等）は、プロジェクトの活動計画に沿ってタイミングよく投入されている。	1	2	3	4	5	6
					4	1	
	5-2-2 プロジェクト実施に必要なウルグアイ国側投入（人員、施設、維持管理費等）が、プロジェクトの活動計画に沿ってタイミングよく投入されている。	1	2	3	4	5	6
5-2-3 プロジェクトに活用されていない投入がある（ある場合は、具体的ににご記入ください）。	1	2	3	4	5	6	
	1	1	2			1	

6. インパクト

設問大項目	評価設問に対する回答文	回答を選択してください。					
		全く同意 しない	どちらとも 言えない	どちらとも 言えない	強く同意 する	分から ない	
6-1 上位目標達成の見込み	6-1-1 現時点で、「サンタルシア川流域の水質改善のための施策が実行される」とは達成される見込みがある。	1	2	3	4	5	6
					2	2	1
		1	2	3	4	5	6
6-2 社会経済状況への波及効果	6-1-2 現時点で、「DINAMA が中心となって、他の流域においても環境管理の改善促進のための、汚染源管理／水質管理に係るプログラムやプロジェクトの協調が促進される」ことは達成される見込みがある。				3	1	1
		1	2	3	4	5	6
		1		1	1		1
6-2-1 上位目標以外の正負のインパクトが生じている（具体的にあれば、右欄に記入してください）	6-1-3 上位目標の達成を阻害する要因がある。	1	2	3	4	5	6
		1			1	2	1
		1	2	3	4	5	6
6-2-2 その他、本プロジェクト実施によるマイナスの影響が生じている（具体的にある場合は、記入してください）		1	2	3	4	5	6
		4					1

7. 自立発展性

設問大項目	評価設問に対する回答文	回答を選択してください。					
		全く同意 しない	どちらとも 言えない	強く同意 する	分から ない		
7-1 政策・制度面	7-1-1 当該セクター（環境管理）におけるウルグアイ国政府の政策支援は協力終了後も継続する可能性が高い。	1	2	3	4	5	6
	7-1-2 本プロジェクトの効果が他地域に継続的に普及する可能性は高い。	1	2	3	4	5	6
7-2 組織・財政面	7-2-1 DINAMA が協力終了後も効果をあげていくための活動を実施する組織能力（人材配置、予算措置）は十分にある。	1	2	3	4	5	6
	7-3-1 本プロジェクトで移転された流域汚染源/水質管理に係る技術は、プロジェクト終了後も活用される見込みがある。		1	1	3		
7-3 技術面	7-3-2 その技術は、対象流域以外の地域へも十分に普及できる技術である。	1	2	3	4	5	6
					1	3	1

地方自治体 質問表回答集計 (回答数：6 県中 5 県)

1. 基本情報

0.1 氏名 (任意回答)	省略
0.2 県	モンテビデオ県、カネロネス県、ラバジェハ県、サンホセ県、フロリダ県よりそれぞれ回答あり
0.3 所属部署	市環境当局 (2名)、県環境ラボ (3名)
0.4 勤続年数	20 年以上 (1名)、10 年以上 20 年未満 (1名)、5 年以上 10 年未満 (2名)、3 年以上 5 年未満 (1名)

2. 県における水質モニタリング活動

質問	回答
2-1 自治体として汚染源管理/水質管理に関する何らかの取り組みはなされていますか？	<ul style="list-style-type: none"> 県のプログラムに基づきサンタルシア川流域を含む地域で水質モニタリング活動を実施している。活動報告はウェブサイト (※) から閲覧可能 (モンテビデオ県)。 ※参照先：http://www.montevideo.gub.uy/ciudadania/desarrollo-ambiental/cursos-de-agua 「県水質戦略・計画」(2008-2010) が策定された。右計画に基づき、定期的な水質モニタリングを実施している (2008 年～2010 年)。本計画の結果については、「カネロネス県環境白書 (GEO Canelones)」にて閲覧可能である (カネロネス県)。 サンタルシア川流域の 6 サンプルポイントで定期的な排水モニタリングを実施 (ラバジェハ県)。 川の水質の一般的管理および近隣の工場からの排水に対する汚染源管理を実施 (サンホセ県)。 恒常的な汚染源管理の活動は実施せず、問題が生じたときに対処している。例えば、夏期にはレクリエーション (海水浴など) に関する水質調査を実施した (フロリダ県)。

3. 本プロジェクトによる活動

質問	回答					
	全く同意 しない	どちらか 微妙	どちらか 微妙	どちらか 微妙	強く同意 する	分から ない
3-1 私の自治体では、サントラルシア川流域の水質・汚染源管理は、プロジェクトの活動を通じてより強化された。	1	2	3	4	5	6
3-2 私の自治体では、サ川流域の水質・汚染源管理に関する他関連機関（DINAMA 等）との連携体制は、プロジェクトの活動を通じてより強化された。	1		1	2	3	
3-3 水質・汚染源管理に係る他関係機関との協調体制づくりにあたりて困難な点や制約が存在する。	1	2	3	4	5	6
3-4 自治体レベルで河川流域の水質・汚染源管理を実施するにあたって、困難な点や制約が存在する。	1	1	1		2	
3-5 河川流域における水質・汚染源管理の協調体制をプロジェクト終了後も維持していくにあたって、困難な点や制約が存在する。	1	2	3	4	5	6
3-6 本プロジェクトの実施にあたり、関係者間（日本人専門家、DINAMA、その他機関と自治体）のコミュニケーションは効果的に行われた。	1	2	3	4	5	6

質問	回答
<p>3-7 その他、本プロジェクトの活動についてコメントがあれば記入してください。</p>	<p>(コメント記入欄)</p> <ul style="list-style-type: none"> • OSE の浄水場に隣接する土壌における底質モニタリングでは、高いクロロウム濃度が検出された。県としては、高濃度のクロロウムが本地点だけの問題なのか、他地点でも同様に検出されるのか更に調べることが必要だと考えている。なお、ネットワーク上での (DINAMA との) データ交換がまだ再開されていないため、早急な解決を期待している (ラバジェハ県)。 • プロジェクトは県の環境ラボを始め県全体にとって環境担当職員の人材育成に資するものであるとともに環境管理の改善にも役立った (サンホセ県)。 • (上記での質問表の回答結果に拘わらず) プロジェクトは県の環境管理を向上させる上で大変重要であった (フロリダ県)

4. PDM, PO

Project Design Matrix (PDM)			Version: 20100224
<p>Project Title: The Project on Water Pollution Control and Management of Water Quality in the Santa Lucia River Basin</p> <p>Implementation Agency: National Directorate of Environment (DINAMA)</p> <p>Cooperation institutions: OPP, DINASA, OSE, MGAP, IMM, IMC, IMSJ, IM Florida, IML, IM Flores</p> <p>Project Site: The Santa Lucia River Basin of six municipalities (IMM, IMC, IMSJ, IM Florida, IML, IM Flores) and Pando River as a reference river</p> <p>Project Period: April 2008 to March 2011 (Three Years)</p>			
Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Overall Goal			
<ul style="list-style-type: none"> - Measures to improve water quality of Santa Lucia River Basin are taken. - Cooperate and strengthen the programs and projects of pollution control and water quality management in cooperation with actors involved, for promoting improved environmental management in other river basin 	<ul style="list-style-type: none"> - Number of measures taken for improvement of water quality of Santa Lucia River Basin - Status of establishment of pollution control / water quality management system. 	Hearing from C/P	
Project Purpose			
<p>The capacity of DINAMA and other institutions involved with respect to water pollution control / water quality management for Santa Lucia River Basin is strengthened.</p>	<ol style="list-style-type: none"> 1. Status of implementation of Action Plan to improve pollution control management system 2. Status of utilization of coordination and collaboration system among institutions involved 3. Status of information sharing among relevant institutions 4. Status of data management related to pollution control 5. Actual performance of instruction to pollution sources 	<p>The Action Plan</p> <p>St/C record, operation record</p> <p>DINAMA's web pages and reports available in public</p> <p>Monitoring records, databases</p> <p>Instruction records</p>	<p>The Government of Uruguay proactively adopts the result of the Project.</p> <p>Relevant organizations continue to cooperate and coordinate with each other in order to improve environmental quality in the Santa Lucia River Basin.</p> <p>Activities of relevant organizations are institutionalized so that environmental measures are implemented within a clearly defined responsibility framework.</p>
Outputs			
<ol style="list-style-type: none"> 1. The management system of DINAMA with respect to pollution source control/water quality management is developed. 2. The coordination and collaboration system among relevant institutions subject to control of water pollution source/water quality management is established. 3. The capacity of DINAMA and other institutions involved with respect to water monitoring system of river and effluent is strengthened. 4. The capacity of DINAMA and other institutions involved with respect to data compilation, analysis and evaluation subject to water pollution source control is strengthened. 5. The capacity of DINAMA with respect to inspection, evaluation and enforcement subject to pollution source management is strengthened. 6. The integrated information systems with respect to water pollution control / water quality management is constructed and used. 	<ol style="list-style-type: none"> 1.1 The number of seminars, training courses and/or meetings and the number of participants 1.2 Contents of pollution control capacity assessment 1.3 Contents of the Action Plan 2.1 Contents of issues to be solved 2.2 Contents of coordination and collaboration system 3.1 The number of seminars, training courses and/or meetings and the number of participants 3.2 Contents of issues to be solved 3.3 Contents of monitoring plan 3.4 Number of analyzed water and sediment sample and parameters in laboratory and accuracy of analysis 4.1 The number of seminars, training courses and/or meetings and the number of participants 4.2 Contents of pollution source inventory list 4.3 Number of monitoring data at individual pollution source and the contents 4.4 Contents of the result of analysis 5.1 The number of seminars, training courses and/or meetings and the number of participants 5.2 Contents of issues to be solved 5.3 Contents of pilot study 6.1 Contents of basic data and information on pollution sources and water quality 6.2 Contents and accessibility of environmental information related to Santa Lucia River Basin. 	<p>Records of seminars, training courses and/or meetings</p> <p>Report on pollution control capacity assessment</p> <p>The Action Plan</p> <p>Discussion records</p> <p>Records of St/C meetings and other meetings</p> <p>Records of seminars, training courses and/or meetings</p> <p>Discussion records</p> <p>Monitoring plan</p> <p>Monitoring records, laboratory records</p> <p>Records of seminars, training courses and meetings</p> <p>Pollution source inventory list</p> <p>Monitoring record on individual pollution source</p> <p>Reports on data analysis</p> <p>Records of seminars, training courses and meetings</p> <p>Discussion records</p> <p>Pollution control strategy</p> <p>Reports on pilot study</p> <p>Water quality and pollution source databases</p> <p>DINAMA's Environmental Information System</p>	<p>DINAMA's policy on water quality conservation is maintained.</p>

Activities	Inputs		
	Japan Side	Uruguay Side	
<p>1 OUTPUT 1</p> <p>DINAMA verifies current pollution control system including laws and regulations, institution, staff, responsibility and capacity.</p> <p>1.1 DINAMA and other institutions involved acquire knowledge on system and structures with regard to pollution control through training courses and other appropriate manners.</p> <p>1.2 DINAMA develops an Action Plan to enhance the system and structures with regard to pollution.</p> <p>1.3 DINAMA carries out the above-mentioned Action Plan to improve pollution control management.</p> <p>2 OUTPUT 2</p> <p>2.1 DINAMA and other institutions involved identify the issues to keep St/C working in sustainable.</p> <p>2.2 St/C considers and determines the coordination and collaboration system among other institutions.</p> <p>2.3 The Technical Committee composed of DINAMA and other relevant institutions conducts coordination and collaboration activities defined by the institutions involved confirms the sustainable.</p> <p>2.4 coordination and collaboration system based on the result of 2.3.</p> <p>3 OUTPUT 3</p> <p>DINAMA and institutions involved strengthen knowledge and technologies with regard to monitoring of river water and effluent from pollution source through training courses and other.</p> <p>3.1 DINAMA verifies river water and pollution source monitoring.</p> <p>3.2 DINAMA reviews monitoring plan on river water and pollution sources based on item 3.2.</p> <p>3.3 DINAMA and other institutions involved implement monitoring according to the revised plan.</p> <p>3.4 DINAMA-strengthens the capacity to process data and make them available for Environmental Information System.</p> <p>4 OUTPUT 4</p> <p>4.1 DINAMA acquires technology of data analysis and evaluation through training courses and other.</p> <p>4.2 DINAMA reformulates pollution source inventory.</p> <p>4.3 DINAMA collects and analyzes monitoring data according to types of pollution sources.</p> <p>4.4 DINAMA acquires the capacity to describe the dynamics of water pollutants in the Santa Lucia.</p> <p>5 OUTPUT 5</p> <p>DINAMA acquires knowledge and technologies with regard to control pollution sources through training courses and other means.</p> <p>5.1 DINAMA identifies its gaps in terms of its capacity to inspect, evaluate and enforce the regulations relative to pollution sources.</p> <p>5.2 DINAMA works in relation to the gaps identified in the item 5.2.</p> <p>5.3 DINAMA prepares the pollution control strategy.</p> <p>5.4 DINAMA implements a pollution control pilot study in order to gain practical information for pollution control activities.</p> <p>5.5 DINAMA disseminates the knowledge and technologies to polluters with regard to pollution source control and cleaner production through.</p> <p>6 OUTPUT 6</p> <p>6.1 DINAMA and other organizations exchange opinions about environmental information needs.</p> <p>6.2 DINAMA compiles and organizes the basic data and information on pollution sources and water quality on the Santa Lucia River Basin.</p> <p>6.3 DINAMA constructs the water quality database.</p> <p>6.4 DINAMA constructs the pollution source database.</p> <p>6.5 DINAMA incorporates the water quality database and the pollution source database into the Environmental Information System.</p>	<p>JICA Experts</p> <ul style="list-style-type: none"> • Leader (Capacity development at institutional and institutional level) • Water pollution source control • Analysis and evaluation of monitoring data • GIS • Lab chemical analysis • Computer system and software for GIS • Cost for JICA Expert, seminars, training courses and publications • Materials for training course, publications and printed materials 	<ul style="list-style-type: none"> - Technical and administrative counterpart personnel to JICA experts - Land, buildings and facilities necessary for the implementation of the Project - Facilities mutually agreed upon as necessary - Office space and necessary facilities for the JICA experts and related members - Operational cost for Project (transportations for the project activities, chemical analysis cost, travel expenses for counterpart personnel, administration cost) 	<p>Counterparts remain assigned to carry out the activity. Appropriate budget is continuously allocated. The relationship among DINAMA and stakeholders continues to be cooperative.</p> <hr/> <p style="text-align: center;">Pre-Conditions</p> <p>The commitment of DINAMA is secured for continuing efforts to realize water quality control/ management.</p>

Plan of Operations (PO) The Project on Water Pollution Control and Management of Water Quality in the Santa Lucia River Basin

Activities	2008			2009												2010												2011			DINAMA	JICA
	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	M	M						
Original Activities (DINAMA: light blue, JICA: dark blue)																																
Revised Activities (DINAMA and other organizations: light orange, JET: dark orange)																																
Activities 1																																
1.1 Verification of current pollution control system	█	█																														
1.2 Knowledge acquisition on water pollution control system	█	█																														
1.3 Develops an action plan to enhance the system and structures		█	█																													
1.4 DINAMA carries out the above-mentioned Action Plan.																																
Activities 2																																
2.1 DINAMA and other institutions involved identify the issues	█	█																														
2.2 Sr/C considers and determines the coordination and collaboration system	█	█																														
2.3 Technical Committee conducts coordination and collaboration activity		█	█																													
2.4 The other institutions involved confirms the sustainable system.																																
Activities 3																																
3.1 Acquisition of knowledge and technologies on monitoring																																
3.2 DINAMA verifies river water and pollution source monitoring.																																
3.3 Monitoring plan review on river water and pollution source.																																
3.4 Implementation of monitoring according to the revised monitoring plans.																																
3.5 Acquisition of knowledge and technologies on monitoring kits																																
3.6 Strengthens capacity of laboratory																																
3.7 DINAMA laboratory strengthens the capacity to process data.																																
3.5 DINAMA strengthens the capacity to process data.																																
	10																															
	15																															
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	4																															
	6																															
	8																															

	2008												2009												2010												2011				DINAMA	JICA																																	
	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M																																							
Original Activities (DINAMA: <i>light blue</i> , JICA: <i>dark blue</i>)																																																																											
Revised Activities (DINAMA and other organizations: <i>light orange</i> , JET: <i>dark orange</i>)																																																																											
Activities 4																																								33																				21															
4.1 Acquisition of knowledge and technologies of data analysis and evaluation																																																																											
4.2 DINAMA reformulates pollution source inventory list.																																																																											
4.3 Collection and analysis of monitoring data according to types of pollution sources.																																																																											
4.4 Investigation of the pollution-mechanism of the Santa-Lucia-River Basin.																																																																											
4.4 Acquisition of capacity to describe dynamics of pollutants in the Santa Lucia River																																																																											
Activities 5																																								21																				6															
5.1 Acquisition of knowledge and technologies to control pollution sources																																																																											
5.2 Identifying the gaps of capacity to control pollution sources.																																																																											
5.3 DINAMA works in relation to the gaps identified in the item 5.2.																																																																											
5.4 DINAMA prepares the pollution control strategy.																																																																											
5.5 DINAMA prepares sectoral manuals for controlling pollution sources.																																																																											
5.5 DINAMA implements a pilot study in order to gain practical information.																																																																											
5.6 DINAMA disseminates knowledge of pollution source control																																																																											
Activities 6																																								13																																			
6.1 Collection of the basic data and information on the Santa-Lucia-River Basin.																																																																											
6.1 Exchange of opinions about environmental information needs.																																																																											
6.2 Completion and organization of the data and information.																																																																											
6.3 Construction of the GIS of water quality module database.																																																																											
6.4 DINAMA constructs Construction of the GIS of pollutant module pollution source database.																																																																											
6.5 Basic design of integrated GIS.																																																																											
6.5 Integration of databases into Environmental Information System.																																																																											
Reporting and Other Events																																								125																				39															
Reporting	ICR												PR1			PR2			PR3			PR4			PR5			FR			FR																																												
Other Events	Seminar No.1												Seminar No.2			Seminar No.3			Mid-term Review			Seminar No.4			Seminar No.5			Seminar No.6			Final Evaluation			Final Seminar																																									

* The number of MM input shown in the right two columns does not fully correspond to the time schedule bars, because some of items will be implemented within less than one month.