

Record of Meeting/Discussion

Date:	Miércoles 21 de Octubre de 2009 / October 21st, 2009	Time:	From 9:00 To 12:30
Venue:			
Meeting/Discussion among			
<input type="checkbox"/>	NRW Reduction Management Team	<input type="checkbox"/>	NRW Reduction Action Team (Metropolitan)
<input checked="" type="checkbox"/>	NRW Reduction Action Team (Central)	<input type="checkbox"/>	NRW Reduction Action Plan (Western)
<input type="checkbox"/>	Power-Saving Management Team	<input type="checkbox"/>	Sewerage Planning Team
<input type="checkbox"/>	Others		
Attendants El Salvador side			
	Name	Position	Department/Organization
1	Luis Federico Díaz	Tecnico en Ingenieria / Engineering Technician	Operaciones / Operations
2	Francisco Antonio Milan	Coordinador de Mantenimiento / Maintenance Coordinator	Operaciones / Operations
3	Neftali Batrez	Jefe de Cuadrilla / Troop Chief	Operaciones / Operations
4	Ana Cecibel de Mayorga	Ingeniero Colaborador / Colaborator Engineer	Eficiencia Energetica / Energy Efficiency
5	José Manuel Castro	Jefe de Facturación / Invoicing Chief	Administración y Finanzas / Administration and Finances
6	José Julio Sandoval	Ayudante general / General Assistant	Operaciones / Operations
7	Luis Ernesto Gutierrez	Colaborador Administrativo / Administrative Colaborator	Administración y finanzas / Administration and Finances
8			
Attendants JICA Exparts (Name)			
	Akihiko Okazaki	Yasuhiro Aoki	
Main Subject:			
Visita de campo al proyecto que se esta ejecutando en el Municipio de Tonacatepeque, Departamento de San Salvador. / Site visit to Tonacatepeque, where the project is being executed.			
Topic	Contents of Discussion		Conclusion
	<ol style="list-style-type: none"> Visita de campo al bloque modelo de Tonacatepeque. Site visit to Model Block in Tonacatepeque. Reunión para aclarar dudas sobre el resumen de medidores tabulados del bloque modelo. Summary Meeting of the meter survey within the Model Block. Recorrido del bloque modelo. Model Block walk through. Identificación y marcación de los sitios donde se instalara el macro medidor, pozos de visita y Válvulas. Identification and marking of the places where the macro meter, the isolation valves and the manhole pits will be installed. Se realizo un recorrido por todo el bloque modelo y se procedió a marcar los puntos donde se instalaran el micro medidor y las válvulas, con los diámetros siguientes para el macro 2.00 mts x 		Se facilito la información operativa solicitada del sistema de abastecimiento de agua potable del Municipio de Tonacatepeque, Departamento de San Salvador. The Operational information of the potable water supply system requested was delivered.

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	<p>1.20mts y para las válvulas 1.00 mts x 1.00 y 2.4 mts x 1.20, 1.50 mts x 1.0 mts. During the walk through the Model Block, marks were placed on the points where the Macro meter and the valves will be installed. The Macro meter will be placed in a pit of 2x1.2 mts and the valves in a 1x1 mts, 2.4 x 1.2 mts and 1.5x1 mts</p>	
Actions to be taken	by Whom	until When
<p>1. Sobre los siguientes datos el equipo de la Región Central, deberá realizar la verificación de los siguientes datos para determinar la cantidad exacta de los medidores que deberán sustituirse. The team will check the following data in order to determine the exact amount of meters that need substitution.</p> <ul style="list-style-type: none"> Realizar la verificación de los medidores que aparecen como aterrados (46). Confirm the buried meters (46). Realizar la verificación además de los datos que aparecen como cerrados (9), dentro de casa (2), Tapadera pegada (2) y los suspendidos. Confirm the meters registered as closed (9), inside the house (2), stuck lid (2) and suspended. Realizar la prueba de la cubeta de al menos otros 5 medidores. Make the bucket survey in at least 5 more meters. <p>2. El grupo de Agua no facturada de la Región Central deberá hacer una exploración en los puntos que se indico para verificar los diámetros y conexiones de las tubería para tener la seguridad de que las válvulas que se instalaran puedan aislar los bloque de acuerdo a la sectorización realiza por los expertos de JICA. An excavation exploration will be done in the points where the JICA experts requested in order to verify the diameters and connections of the pipelines and ensure the correct isolation of the blocks.</p>	<p>Operaciones Región Central y equipo de trabajo Central Region Team</p>	<p>En espera Unknown</p>

Date: 5 de Noviembre de 2009 by : Ing. Luis Hércules

Record of Meeting/Discussion

Date:	22 October 2009	Time:	from 9:30 AM to 1:00 AM
Venue:	BOSQUES DE LA PAZ. ILOPANGO, SAN SALVADOR		
Meeting/Discussion among			
<input type="checkbox"/>	NRW Reduction Management Team	<input checked="" type="checkbox"/>	NRW Reduction Action Team (Metropolitan)
<input type="checkbox"/>	NRW Reduction Action Team (Central)	<input type="checkbox"/>	NRW Reduction Action Plan (Western)
<input type="checkbox"/>	Power-Saving Management Team	<input type="checkbox"/>	Sewerage Planning Team
<input type="checkbox"/>	Others		
Attendants El Salvador side			
	Name	Position	Department/Organization
1	Dina Elena Leiva	Colaborador técnico Technical Colaborator	Unidad Técnica Technical Unit
2	Oscar Monchez	Técnico Technician	Instalación de medidores Meter Installation
3	Aquiles Montoya	Coordinador Project Coordinator	Unidad Técnica Technical Unit
4			
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Attendants JICA Experts (Name)			
	Akihiko Okazaki	Yasuhiro Aoki	
Main Subject:			
Informe de avances del levantamiento del estado de los micromedidores del Residencial Bosques de la Paz, Definición de sitios para la colocación de valvulas nuevas y cambio de válvulas para poder realizar las posteriores mediciones del distrito modelo.			
Update of the Micro meter survey within Residencial Bosques de la Paz, Valve location definition for the new and the change ones in order to make the future measurements within the Model Block.			
Topic	Contents of Discussion		Conclusion
1	<p>Se plantearon los avances en el levantamiento del estado de los micro medidores, en el sector modelo de análisis, por parte de la región metropolitana, se llevo el cuadro en el cual se están descargando los datos de las encuestas, casa por casa, este fue observado por el Ing. Okazaki y se discutieron problemáticas del trabajo de campo, tales como la renuencia de la población a brindar la información completa, la situación de los medidores que están retirados por ANDA, y que a raíz de eso las personas se conectaban de manera directa.</p> <p>The team progress of the Micro meters survey lifting was shown, through the files where the survey's data is being registered. This was checked by Mr. Okazaki and some issues were discussed, such as the reluctance of the population to provide full information, the suspended accounts that ANDA disconnected and where the people have re-connected themselves directly.</p> <p>En base a lo anterior el Ing. Okazaki, pregunto que es lo que hacia la región respecto a estas situaciones, se le explico que este ya es un procedimiento legal, del cual ya no forma parte el área técnica, si no el área comercial en combinación con el juridico de la ANDA.</p> <p>Based on the above Mr. Okazaki, asked the actions taken in this situations and he was explained that there is a legal procedure taken, in which technical area is no longer part of.</p> <p>Las actividades del recorrido consistieron prácticamente en lo siguiente: The site visit activities included :</p> <p>1. Ubicar dentro del lugar designado para el modelaje, los sitios en</p>		<p>Nos comprometimos, a tener terminado el levantamiento de los micromedidores, ya tabulados, para antes del 30 de octubre.</p>

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	<p>donde se instalarían las válvulas de aislamiento, las válvulas de inspección, Las MNF y el macro medidor. <i>Locate within the Model Block, the places where the isolation and flow measurement valves will be installed, the MNF points and the Macro meter location.</i></p> <p>2. Recorrer los 4 sectores de análisis y comprobar la situación de las válvulas existentes, previo a iniciar con la instalación de las nuevas. <i>Walk through the 4 analysis sectors and check the existing valve situation before the new valves installation.</i></p> <p>3. Constatar físicamente los lugares donde serán colocadas las nuevas válvulas y marcar los sitios escogidos. <i>Phisically check the places where the new valves whill be installed and mark the chosen locations.</i></p>	
Actions to be taken	by Whom	until When
<p>Nos comprometimos, a tener terminado el levantamiento de los micromedidores, ya tabulados. <i>We commit to finish the Micro meter information lifting.</i></p>	<p>Equipo región metropolitana <i>Metropolitan Region Team</i></p>	<p>30 de octubre <i>October 30th</i></p>

Date: 26/10/2009

by : Aquiles Montova

Record of Meeting/Discussion

Date:	Miércoles 4 de Noviembre de 2009 / November 4th, 2009	Time:	From 14:00 To 16:00
Venue:			
Meeting/Discussion among			
<input type="checkbox"/>	NRW Reduction Management Team	<input type="checkbox"/>	NRW Reduction Action Team (Metropolitan)
<input checked="" type="checkbox"/>	NRW Reduction Action Team (Central)	<input type="checkbox"/>	NRW Reduction Action Plan (Western)
<input type="checkbox"/>	Power-Saving Management Team	<input type="checkbox"/>	Sewerage Planning Team
<input type="checkbox"/>	Others		
Attendants El Salvador side			
	Name	Position	Department/Organization
1	Luis Federico Díaz	Tecnico en Ingenieria / Engineering Technician	Operaciones, Region Central / Operations, Central Region
2	Francisco Antonio Milan	Coordinador de Mantenimiento / Maintenance Coordinator	Operaciones, Region Central / Operations, Central Region
3	Neftali Batrez	Jefe de Cuadrilla / Troop Chief	Operaciones, Region Central / Operations, Central Region
4	Francisco velasco	Fontanero / Plumber	
5			
6			
7			
8			
Attendants JICA Expats (Name)			
	Akihiko Okazaki	Takemasa Mamiya	Yasuhiro Aoki
Main Subject:			
Visita de campo al proyecto que se esta ejecutando en el Municipio de Tonacatepeque, Departamento de San Salvador. Site visit to Tonacatepeque, where the project is being executed.			
Topic	Contents of Discussion		Conclusion
	<p>Verificación en campo la condición de la tubería, para los trabajos de excavación, estas se detalla a continuación: Site confirmation of the pipelines condition, these works are as follows :</p> <ol style="list-style-type: none"> 1. Confirmar que la tubería de ø 4" esta desconectada del T2 y conectada a la línea de ø 6" desde el T1. Confirm that the ø 4" is disconnected from T2 and connected to the ø 6" main pipeline from T1. 2. Verificación del punto de conexión de la tubería de ø 4" Verification of the connection point of the ø 4" pipeline. 3. Confirmación del tamaño de la tubería, ubicación y finalización de la misma. Confirmation of the location and ending of the pipelines. 4. Verificación de la construcción de caja del macro medidor. Varification of the macro meter pit construction. 		<p>Se facilito la información operativa solicitada del sistema de abastecimiento de agua potable del Municipio de Tonacatepeque, Departamento de San Salvador The Operational information of the potable water supply system requested was delivered.</p>

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Actions to be taken	by Whom	until When
1. Se conectarn la liena de ø 3" con la linea de ø 6", antes del macro medidor. The ø 3" and ø 6" main will connect before the macro meter.	Operaciones Región Central y equipo de trabajo	En espera Unknown
2. Terminacion de la construccion de las cajas de medidas de flujo. Construction of the flow meter pits.	Central Region Team	
3. Instalacion de las valvulas. Valve installation.		
4. Ampliacion de tuberia de ø 6" ø 6" pipeline extension.		

Date: 5 de Noviembre by : Ing. José Luis Hércules

Record of Meeting/Discussion

Date:	6 November 2009	Time:	from 9:15 AM to 10:00 AM
Venue:	BOSQUES DE LA PAZ. ILOPANGO, SAN SALVADOR		
Meeting/Discussion among			
<input type="checkbox"/>	NRW Reduction Management Team	<input checked="" type="checkbox"/>	NRW Reduction Action Team (Metropolitan)
<input type="checkbox"/>	NRW Reduction Action Team (Central)	<input type="checkbox"/>	NRW Reduction Action Plan (Western)
<input type="checkbox"/>	Power-Saving Management Team	<input type="checkbox"/>	Sewerage Planning Team
<input type="checkbox"/>	Others		
Attendants El Salvador side			
	Name	Position	Department/Organization
1	Dina Elena Leiva	Colaborador técnico – Technical Colaborator	Unidad Técnica – Technical Unit
2	Aquiles Montoya	Coordinador – Coordinator	Unidad Técnica – Technical Unit
3			
4			
5			
6			
7			
8			
Attendants JICA Experts (Name)			
	Akihiko Okazaki	Yasuhiro Aoki	
Main Subject:			
Informe de avances de Ejecución de instalación de válvulas de aislamiento del Residencial Bosques de la Paz, verificación del cambio de válvulas para poder realizar las posteriores mediciones del distrito modelo. Execution inform of the isolation valve installation within the Model Block.			
Topic	Contents of Discussion		Conclusion
1	<p>Se mostraron los avances en la instalación del cambio de válvulas de aislamiento, en el sector modelo de análisis, por parte de la región metropolitana. The valve installation situation was shown.</p> <p>En base a lo anterior el Ing. Okazaki, pregunto cual era el tiempo promedio de instalación de válvulas por parte del personal de la Región Metropolitana respecto a esta pregunta se le respondió que el promedio en las primeras 5 válvulas instaladas fue de una por día. Mr. Okazaki asked for the average installation time and for the first 5 valve it was a 1 valve per day.</p> <p>Las actividades del recorrido consistieron prácticamente en lo siguiente: The activities during the site visit were:</p> <ol style="list-style-type: none"> 1. Verificar los sitios en donde se han cambiado las válvulas de aislamiento. Locations check where the valves have been changed. 2. Fotografiar las válvulas cambiadas. Take pictures to the changed valves. 3. Corroborar la ubicación y los diámetros de las válvulas cambiadas. Check the location and the diameters of the changed valves. 		<p>Continuar con la instalación de válvulas de aislamiento y las válvulas de prueba. Se concluyo que las válvulas de pruebas para inspección serían válvulas normales con cubre válvulas y no con pozo.</p> <p>Continue with the valve installation. JICAs experts cleared that the step test valves were only requested with a valve cover.</p>

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Actions to be taken	by Whom	until When
Nos comprometimos, a tener instaladas todas las válvulas del sector norte para el viernes 13 de noviembre, en total 5 válvulas. Metropolitan Region committed to install all the isolation valves for the northern part by nov. 13 th , a total of 5 valves.	Equipo región metropolitana Metropolitan Region Team	13 de noviembre November 13th

Date: 6/11/2009

by : Aquiles Montoya

Western Region, Santa Ana Report, November 26 of 2009.

- **Activity:** Verification of installed valves. They have finish all the valves except Flow Measurement and Macro Meter Pit, they will start doing this on December 10th.
- **I will visit again December 11 , to check the Pit construction.**
- Above you can see that all I verify all valves in visit field.
- They are ready with the Power Generator to work on MNF.

3. V-10



5. V-3



4. V-44



6. V-58



7. V-55



9. V-13



8. V-53



10. V-12



11. V-11



13. V-36



12. V-9



14. V-8



15. V-6



17. V-5



18. Vn-6



16. V-7



15. V-6



17. V-5



18. Vn-6



16. V-7



Metropolitan Region, Bosques de La Paz Report, December 3 of 2009.

- **Activity:** This action team started to work again on December 2nd. They have worked some weekend days.
- **This Model block seems to work fine, Mr. Aquiles says that next week he will try to start the Isolation Test. I will join.**
- **They have found different diameters in some valves, also some valves that in map are present but not in real life.**
- Mr. Aquiles is wondering about inside valves of model block. He needs to know if its possible to use valves in stock in case the inside valves are not working good.

Here is the pictures I got from the process of valves installed at this time:







Central Region, Tonacatepeque Report, December 9 of 2009.

- **Activity:** Action Teams are working from Monday in fixing the holes they made to verify pipe diameters and material. Customers are complaining about this.
- **MAP they are still working on updating the map.**
- Staff says they need 1 week to finish each pit.
- To install one valve with valve cover they need around 5 hours.
- They haven't install ball valve because it can be stolen, so they will install it when the cover is ready.

1. This is the first Flow Measurement Pit they are working, they are receiving material separately, and that is another reason of delay. They cannot install ball valve until they put the cover to be safe, otherwise it can be stolen.



2. The other activity they are working is fixing the holes they made to verify pipe diameter and material.



3. This is the place where they are preparing all the materials such as columns, installation of valve, etc.





4. This is one of the old valves that they replace.



5. This is the second Flow Measurement Pit they are working. They will start working the third FMP next week.



6. This is a sample of the valve covers they are installing.



7. This is one of the valves they are starting to install.



Western Region, Santa Ana Report, December 11 of 2009.

- **Activity:** Check advances of activities in Santa Ana.
- **Mr. Douglas Orellana and Ms. Iris of WR Communications** join to the visit field.
- **As you will see in the pictures they are working on the Pits, this day they were working 2 and from Monday they will star with the macro meter pit construction.**
- They bring the Power generator in order to demonstrate that also will be used for MNF.
- We went to check the advances of fixing with asphalt the holes causes by the substitution and or installation of valves.
- We check some meters that have problems such and leak, box destroyed, etc. They will fix this during substitution.

1. After installing all the valves (excepting MNF and Macro Meter), now Western Region is working on the construction of Pits.



2. As you can check in the pictures they have worked according to your suggestions.



3. This is the Power Generator that ANDA has for 3 regions.



4. They have also started to fix streets with asphalt, not all the holes but they have start.



5. This is one of the valves installed that they are waiting to install the cover.



6. We check also come cases of Meters that have problems that they will fix during the process of substitution.



Central Region, Tonacatepeque Report, December 16 of 2009.

- **Activity:** In Tonacatepeque they had the problem before that they didn't have to many personnel. Now they have more ANDA staff working for model Block.
- They are working on fixing the holes with asphalt and or concrete block streets.
- They have built the walls with bricks in one pit, the other 2 are already excavated as you can check in the pictures.
- About Micro Meters they haven't start substitution.

1. They are fixing the street while they are installing valve covers.



2. This is the pit that they started working on this week.



Metropolitan Region, Bosques de La Paz Report, December 16 of 2009.

- **Activity:** They are still working on the fixing of the holes caused by the installation of valves.
- They are working on the construction of pits. They have started the first one.
- They have problem with installation of V-1, they cannot find the pipe line.
- Substitution of valve has a 70% of advance.
- They have received several claims by customers in the call center.

1. I checked the fixing of the holes with asphalt. In some areas is cement and they are fixing according to the material of street.





2. This is the process of construction of pit. This is the first one that they are working. They had the problem of receiving of material for construction.





3. This are some holes they made trying to find the pipe line to install V-1.





Western Region, Santa Ana Report, December 17 of 2009.

- **Activity:** Here is the advance of the construction of pits in Santa Ana.
- **Western Region activities seems to go on the right way.**
- They have advanced in all the activities.
- They are working also in micro meters substitution.
- They will start next week activities of isolation tests.

1. This is the pits they are working know. They have experienced some problems with the customers or person who felt uncomfortable with the closed streets.





2. This is the valve that they had the problem of the rain pipe line. What they did, is that they put a little wall inside covering the rain pipe line.



3. They almost finish fixing all the holes caused of installation of valve pit.



Record of Meeting/Discussion

Date:	January 25, 2010	Time:	from	9:00	to	13:00
Venue:	ANDA Western Region					
Meeting/Discussion among						
NRW Reduction Management Team		NRW Reduction Action Team (Metropolitan)				
NRW Reduction Action Team (Central)		■ NRW Reduction Action Plan (Western)				
Power-Saving Management Team		Sewerage Planning Team				
Others						
Attendants El Salvador side						
Name		Position		Department/Organization		
Arq. Douglas Orellana		Action Team Member in Charge		ANDA		
Ing. Elmer Umaña		Operations Department		ANDA		
Ing. Marlon Guzmán		Action Team Member		ANDA		
Lic. Iris Arévalo		Communications		ANDA		
Lic. Luis Caballero		Billing Department		ANDA		
Attendants JICA (Name)						
Akihiko Okazaki		NRW leader				
Emilio Sura		Interpreter				
Ms. Manuel Rivera		Project Assistant				
Main Subject:						
1. Advance of Installation Works.						
Topic	Contents of Discussion			Conclusion		
1	Arq. Orellana explains that they have done small test of isolation, during this period people started calling reporting no water service in some areas. They realized that is caused by closed valves inside the system.			They will try to arrange budget to replace this valves, if this is not possible they will just try to remove it.		
2	WR will prepare and send to expert team the budget for material and staff need on activities. They will arrange also a Communications and Public Relations Plan to inform customers about possible water cuts services during isolation tests.					
3	Meter substitution will be finish the next week.			They still have to replace around 200 meters.		
Actions to be taken			by Whom		until When	
Expert Team will prepare work plan or Schedule to make sure the starting date.			Akihiko Okazaki			

Western Region, Santa Ana, January 25 of 2010.

- **Activity:** Advances and Verification of advances.
 1. Arq. Orellana explains that they have done small test of isolation, during this period people started calling reporting no water service in some areas. They realized that is caused by closed valves inside the system.
 2. They will try to arrange budget to replace this valves, if this is not possible they will just try to remove it.
 3. They will arrange also a Communications and Public Relations Plan to inform customers about possible water cuts services during isolation tests.
 4. Meter substitution will be finish the next week.







Record of Meeting/Discussion

Date:	January 26, 2010	Time:	from	9:00	to	15:00
Venue:	ANDA Central Region, Polideportivo of Tonacatepeque					
Meeting/Discussion among						
NRW Reduction Management Team ■ NRW Reduction Action Team (Central) Power-Saving Management Team Others			NRW Reduction Action Team (Metropolitan) NRW Reduction Action Plan (Western) Sewerage Planning Team			
Attendants El Salvador side						
Name		Position		Department/Organization		
Arq. José Luis Hércules		Action Team Member in Charge		ANDA		
Ing. Luis Díaz		Team Member		ANDA		
Luis Ernesto Gutierrez		Billing Department		ANDA		
Attendants JICA (Name)						
Akihiko Okazaki		NRW leader				
Emilio Sura		Interpreter				
Ms. Manuel Rivera		Project Assistant				
Main Subject:						
1. Advance of Installation Works.						
Topic	Contents of Discussion				Conclusion	
1	Mr. Okazaki verify the valve installation and updated map. Sr. Okazaki revisa el mapa actualizado del área modelo. Mr. Hércules provide the list of material in stock. Ing. Hércules entrega el listado de material en "stock". Mr. Okazaki asks to add stand for Devices and Equipment inside Pit. Sr. Okazaki pide agregar repiza o estante en una de las esquinas de una caja de medicion.				Mr. Okazaki asks to make more clear the connections in map. El Sr. Okazaki pide que se haga mas claro el mapa y se enmienden ciertos errores aún existentes.	
2	There are some problems for isolation in JAIL zone and also in some other lines; they will try to isolate installing tap or valve in order to have the correct isolation. Aún existen ciertos problemas cerca del área de la penitenciaría que tiene que ser corregidas para aislar correctamente las áreas; Región Central intentará colocar tapón o válvula para corregir dichas falencias.					
3	There are some public services and others like parks, hydrants, etc. Existen algunos servicios públicos de agua que no poseen medidor. También se verificará como son medidos y cobrados los servicios de hidrantes, parques públicos, etc.				Mr. Okazaki ask to check how this public water is measured. If public water services don't have meter, CR will install. Se acordó que si dichos servicios públicos no tienen medidor se	

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		colocará medidor.	
4	They will send Error Meter Results based on 20 samples. Enviarán error de Medidor en base a 20 medidores.		
5	They still have to replace around 200 meters. Aún faltan 200 medidores por reemplazar.		
Actions to be taken		by Whom	until When
Expert Team will prepare work plan or Schedule to make sure the starting date of other activities. El Equipo de Expertos preparará plan de trabajo para tener fechas de inicio en cada actividad.		Akihiko Okazaki	

Central Region, Tonacatepeque Report, January 26 of 2010.

- **Activity:** Advances and Verification of advances.
1. Mr. Okazaki check advance of model Block. El Sr. Okazaki revisa avance de trabajos en área modelo.
 - Mr. Okazaki verify the valve installation and updated map. Sr. Okazaki revisa el mapa actualizado del área modelo.
 - Mr. Hércules provide the list of material in stock. Ing. Hércules entrega el listado de material en "stock".
 - Mr. Okazaki asks to add stand for Devices and Equipment inside Pit. Sr. Okazaki pide agregar repiza o estante en una de las esquinas de una caja de medicion.
 - Mr. Okazaki asks to make more clear the drawings of connections in map. El Sr. Okazaki pide que se haga mas claro el mapa y se enmienden ciertos errores aún existentes.





2. There are some problems for isolation in JAIL zone and also in some other lines; they will try to isolate installing tap or valve in order to have the correct isolation. Aún existen ciertos problemas cerca del área de la penitenciaría que tiene que ser corregidas para aislar correctamente las áreas; Región Central intentará colocar tapón o válvula para corregir dichas falencias.



3. There are some public services and others like parks, hydrants, etc. Existen algunos servicios públicos de agua que no poseen medidor. También se verificará como son medidos y cobrados los servicios de hidrantes, parques públicos, etc.

Mr. Okazaki ask to check how this public water is measured. If public water services don't have meter, CR will install. Se acordó que si dichos servicios públicos no tienen medidor se colocará medidor.



4. There are some leak that Mr. Okazaki instructs to leave it as it is in order to make survey with more accuracy.



Record of Meeting/Discussion

Date:	January 27, 2010	Time:	from	9:00	to	11:30
Venue:	ANDA Metropolitan Region, Bósques de La Paz.					
Meeting/Discussion among						
NRW Reduction Management Team		NRW Reduction Action Team (Metropolitan)				
NRW Reduction Action Team (Central)		NRW Reduction Action Plan (Western)				
Power-Saving Management Team		Sewerage Planning Team				
Others						
Attendants El Salvador side						
Name		Position		Department/Organization		
Arq. Aquiles Montoya		Action Team Member in Charge		ANDA		
Ing. Camilo Marroquín		Billing Department		ANDA		
Attendants JICA (Name)						
Akihiko Okazaki		NRW leader				
Emilio Sura		Interpreter				
Ms. Manuel Rivera		Project Assistant				
Main Subject:						
1. Advance of Installation Works.						
Topic	Contents of Discussion				Conclusion	
1	<p>Mr. Okazaki check advance of model Block. El Sr. Okazaki revisa avance de trabajos en área modelo.</p> <p>Mr. Aquiles explains that they will finish 2 MNF pits today. From tomorrow they will install valves on MNF pits. After they finish this they will start construction of Macro Meter Pit. Arq. Montoya explica que este día finalizarán las construcción de 2 cajas de medición. Desde mañana se iniciarán con los trabajos de instalacion de las válvulas en las cajas de medición. Una vez terminado lo anteriores se procederá a construir la caja del Macro Medidor.</p>					
2	<p>Mr. Okazaki tried to identify if there was pipe line near the V-1. After Mr. Aquiles close valve to see if there were connections from other valve but there was no water service. We will wait for confirmation of this situation. El Sr. Okazaki intent verificar si existe tubería en V-1. Arq. Montoya cerró válvula para ver de dónde era abastecido sector y las timosamente no habia servicio de agua. Sr. Okazaki esperare la confirmación.</p>					

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3	Mr. Okazaki will prepare training or Workshop for Leakage Detection. El Sr. Okazaki preparará plan de trabajo para iniciar con los trabajos de detección de fugas.	
4	Mr. Aquiles and Mr. Marroquín will wait for the Wrok Plan in order to arrange time, equipment and staff to start activities. Arq. Montoya e Ing. Marroquín se harán cargo de recibir taller e instrucciones del método de realización de Detección de Fugas.	
Actions to be taken		by Whom
Expert Team will prepare work plan or Schedule to make sure the starting date of othere activities. El Equipo de Expertos preparará plan de trabajo para tener fechas de inicio en cada actividad.		Akihiko Okazaki
		until When

Metropolitan Region, Bosques de La Paz Report, January 27 of 2010.

- **Activity:** Advances and Verification of advances.

1. Mr. Okazaki check advance of model Block. El Sr. Okazaki revisa avance de trabajos en área modelo.

Mr. Aquiles explains that they will finish 2 MNF pits today. From tomorrow they will install valves on MNF pits. After they finish this they will start construction of Macro Meter Pit. Arq. Montoya explica que este día finalizarán las construcción de 2 cajas de medición. Desde mañana se iniciarán con los trabajos de instalación de las válvulas en las cajas de medición. Una vez terminado lo anterior se procederá a construir la caja del Macro Medidor.



2. Mr. Okazaki tried to identify if there was pipe line near the V-1. After Mr. Aquiles close valve to see if there were connections from other valve but there was no water service. We will wait for confirmation of this situation. El Sr. Okazaki intent verificar si existe tubería en V-1. Arq. Montoya cerró válvula para ver de dónde era abastecido sector y las timosamente no había servicio de agua. Sr. Okazaki esperare la confirmación.



Record of Meeting/Discussion

Date:	February 2, 2010	Time:	from	9:00	to	10:00
Venue:	ANDA 1 st Floor Building					
Meeting/Discussion among						
NRW Reduction Management Team		NRW Reduction Action Team (Metropolitan)				
NRW Reduction Action Team (Central)		NRW Reduction Action Plan (Western)				
Power-Saving Management Team		Sewerage Planning Team				
■ Others						
Attendants El Salvador side						
Name		Position		Department/Organization		
Ing. Saul Ortega		Technical Director		ANDA		
Ing. Angel Valdes		Western Region Manager		ANDA		
Arq. Douglas Orellana		WR Action Team		ANDA		
Arq. Rosmery Azucena		Technical Director Assistant		ANDA		
Attendants JICA (Name)						
Takemasa Mamiya		Project leader		JICA		
Akihiko Okazaki		NRW expert		JICA		
Yasuhiro Aoki		NRW expert		JICA		
Emilio Sura		Interpreter		JICA		
Ms. Manuel Rivera		Project Assistant		JICA		
Main Subject:						
1. Budget to Isolate Model Block						
Topic	Contents of Discussion				Conclusion	
1	<p>Mr. Valdes explains that situation of model block isolation. They made a small test and visit field verification and they found that only small portion of model block was isolated. They found that there are 4 valves that need to be replace and 32 to be eliminated.</p> <p>They estimate the cost of achieve the right isolation and they will need a budget around \$28,000. Also 15 people all this on a period of 15 days.</p> <p>Mr. Mamiya explains that if ANDA aprooves and is able to handle the budget there is no problem.</p>				<p>Mr. Ortega (TD), approves the budget but he suggest WR to first find all material in ANDA in order to reduce costs.</p>	
2	<p>Mr. Mamiya explains ANDA that it is necessary that MNF don't be delay, and isolation works has to be done step by step (perimeter by perimeter) starting from the source of Model Block. It is necessary to finish all Model Block but if they don't finish before MNF survey they will work with the advance at that time.</p>				<p>WR will send advances of Isolation works.</p>	
Actions to be taken				by Whom		until When

**Bosques de La Paz, Metropolitan Region, 2nd 3rd and 4th of February of 2010.
From 8:00 AM to 4:00 PM**

- **Activity:** Starting of Acoustic Survey
 - **ANDA NRW Action Team, additional ANDA plumbers and JET**
1. Action team started the acoustic survey in company of all members in Bosques de La Paz.
 2. We use all listening bars in order to advance with all the team.















Bosques de La Paz, Metropolitan Region, 8 of February of 2010. From 10:00 PM to 4:00 AM

- **Activity:** Starting of Night Work Leak Detection
- **President of ANDA, All Security Members, ANDA NRW Action Team, additional ANDA plumbers and JET**



Bosques de La Paz, Metropolitan Region, 4th and 9 of February of 2010.

- **Activity:** Isolation Test
 - **Mr. Aquiles Montoya and Staff and Manuel Rivera.**
1. At same time of acoustic survey we check if model block was working fine when isolating by areas.
 2. As you can see in the pictures we also found a considerable leak near pit N. 1 that wil be repair.









Record of Meeting/Discussion

Date:	March 15, 2010	Time:	from	11:00	to	12:00
Venue:	ANDA 5 st Floor Building, JICA Project Office.					
Meeting/Discussion among						
NRW Reduction Management Team		NRW Reduction Action Team (Metropolitan)				
■ NRW Reduction Action Team (Central)		NRW Reduction Action Plan (Western)				
Power-Saving Management Team		Sewerage Planning Team				
Others						
Attendants El Salvador side						
Name		Position		Department/Organization		
Ing. José Hercules		Action Team second leader.		ANDA		
Arq. Luis Díaz		Technical Assistant		ANDA		
Attendants JICA (Name)						
Akihiko Okazaki		NRW expert		JICA		
Emilio Sura		Interpreter		JICA		
Ms. Manuel Rivera		Project Assistant		JICA		
Main Subject:						
1. Budget to Isolate Model Block						
Topic	Contents of Discussion				Conclusion	
1	Mr. Okazaki explains that we will finish tomorrow the second part of MNF that we could not finish. He ask to do the readins of MNF between 1:00 AM to 2:30 AM.					
2	Ms. Hercules explains that they will install valves instead of the 4 micrometer they install in branches.					
3	Okazaki San ask to update the list of customers with the list sent by Manuel Rivera.					
4	Mr. Hercules says that he is having problems with 20 customers that they don't allow to replace meter. Mr. Okazaki recommends that find support with legal department of ANDA. Mr. Hercules says that he will take in charge of this.					
5	MNF will include also the new houses added after last survey. (This is part of the customer list update information).					

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6	Okazaki san also recommend to read every 1 st of March as they usually do.	
7	Luis Diaz, will send the updated map on Monday 22 and also the leak report.	
8	Okazaki San ask to inform Manuel Rivera for the big leak repair and excavation to take pictures and send report.	
Actions to be taken		by Whom
		until When

Record of Meeting/Discussion

Date:	March 15, 2010	Time:	from	10:00	to	11:00
Venue:	ANDA 5 th Floor Building, JICA Project Office.					
Meeting/Discussion among						
NRW Reduction Management Team		NRW Reduction Action Team (Metropolitan)				
NRW Reduction Action Team (Central)		■ NRW Reduction Action Plan (Western)				
Power-Saving Management Team		Sewerage Planning Team				
Others						
Attendants El Salvador side						
Name		Position		Department/Organization		
Arq. Douglas Orellana		Action Team second leader.		ANDA		
Ing. Jose Humberto Guzmán		Operations Action Team		ANDA		
Arq. Marlon Guzman		Technical Action Team		ANDA		
Lic. Iris Arévalo		Communications Action Team		ANDA		
Lic. Luis Caballero		Billing Action Team		ANDA		
Attendants JICA (Name)						
Akihiko Okazaki		NRW expert		JICA		
Emilio Sura		Interpreter		JICA		
Ms. Manuel Rivera		Project Assistant		JICA		
Main Subject:						
1. Budget to Isolate Model Block						
Topic	Contents of Discussion				Conclusion	
1	Arq. Douglas explains that he is elaborating the Map of Model Block, he will send file tomorrow.					
2	Action team will coordinate activities with Manuel Rivera in order to make report and take pictures at site.					
3	Action Team agreed to work according to Work Plan. If they change any date they will arrange with Manuel Rivera. All this is necessary to arrange Public Relations Activities.					
4	Also the readings of Macro and Micro meter they will work it as Work Plan, every 24 of month.					
5	Arq. Orellana asks Okazaki San if they need to eliminate the rest of the valves they supposed to emilinate for model block isolation.				Okazaki San responds that if this valves does not affect isolations they can leave does valves. It is ANDA decisión.	