

MOCOLO AND CROCODILE (WEST) WATER AUGMENTATION PROJECT: DE-BOTTLENECKING OF AN EXISTING PIPELINE

COMMENTS AND RESPONSE REPORT

The Comments and Response Report summarizes the salient issues and queries raised, as well as statements made, by I&APs at meetings during the **Basic Assessment** process. This report also attempts to address the comments through input from the project team.

In addition to implementing the Public Participation Process (PPP) as governed by NEMA and Government Notice No. R. 385, DWA also undertook a broader Public Involvement Process (PIP), which started more formally during the January 2009. This broader PIP included the establishment of a two different forums within the agricultural sector called the Water Forum and the Environmental Forum, which later merged into the combined Agri Discussion Forum (chaired by Mr. Roland van Tonder who is the Chairman of the Crocodile West Irrigation Board). Representatives from the different agricultural unions and irrigation boards that are situated in the project area are members of this Forum.

Besides the Agri Discussion Forum, two working groups were also established as part of the DWA-driven PIP, namely the Crocodile (West) Working Group and the Mokolo Working Group. At these working groups water-related issues pertaining to the Crocodile River and Mokolo River are discussed in more depth.

Further there was a Project Steering Committee (PSC) established where all the major stakeholders for the MCWAP project meets and issues and progress are discussed. Five representatives from the Agri Discussion Forum also represent this sector on the PSC.

When reviewing the Comments and Response report, please also take cognizance of the following:

- All the responses written in italics were included subsequent to meetings in order to address the comments in greater detail.
- The majority of the comments were translated from Afrikaans.
- This report does not provide verbatim comments from meetings, but rather reflects the essence of the discussions held with I&APs.
- A substantial portion of the comments received from the members of the agricultural sector relate to the potential impact on the availability of water, which pertains to the MCWAP transfer schemes (i.e. Phase 1 and Phase 2). Although these comments have little bearing on the de-bottlenecking, they were included in this report for the sake of completeness.
- The details of the project team members that responded to the issues and comments are provided below.

Project Team Member	Organisation	Abbreviation
Ockie van den Berg	Department of Water Affairs	OvdB
Amelius Muller	Aurecon	AM
Fanie Vogel	Aurecon	FV
Barend Smit	Aurecon	BS
Johan Pienaar	Aurecon	JP
Donavan Henning	Nemai Consulting	DH
Salomon Pienaar	Nemai Consulting	SP
Liza van der Merwe	TCTA	LvdM

- The meetings held with I&APs up to 19 June 2009 are tabulated below.

MCWAP Phase 1 & De-bottlenecking Project Meetings				
No.	Date	MCWAP Component	Audience/ Party / Landowner	Venue
1	27-01-09	Phase 1, 2 and De-bottlenecking	Thabazimbi – Lephalale Agri sector	Ben Alberts Nature Reserve
2	05-03-09	Phase 1 & De-bottlenecking	Mokolo Dam – Lephalale – Steenbokpan affected landowners	Ashante Conference Venue
3	06-03-09	Phase 1, 2 and De-bottlenecking	Thabazimbi – Lephalale Water Forum	Rra Dtau Game Lodge
4	06-03-09	Phase 1, 2 and De-bottlenecking	Thabazimbi – Lephalale Environmental Forum	Rra Dtau Game Lodge
5	26-05-09	Phase 1 & De-bottlenecking	Mokolo Working Group	Koedoeskop Agricultural Union Hall
6	26-05-09	Phase 1, 2 and De-bottlenecking	Thabazimbi – Lephalale Agri sector	Koedoeskop Agricultural Union Hall
7	28-05-09	Phase 1	Mokolo Dam – Lephalale – Steenbokpan affected landowners	Mogol Klub
8	28-05-09	Phase 1 & De-bottlenecking	Mokolo Dam – Lephalale – Steenbokpan affected landowners	Ashante Conference Venue
9	22-06-09	Phase 1	Farm Witbank/ Wolvenfontein R/645	Farm Witbank
10	22-06-09	Phase 1 & De-bottlenecking	Farm Goedgedaght	Ashante Conference Venue
11	22-06-09	Phase 1 & De-bottlenecking	Farms Fancy, Fourieskloof & Goedeheop	Waterfall Lodge
12	22-06-09	Phase 1	Farms Fancy and Worcester	Farm: Fancy
13	08-07-09	Phase 1	Farm Fourieskloof	Modimolle (Nylstroom)
14	08-07-09	Phase 1 & De-bottlenecking	Farm Wolvenfontein 3/645	Farm Wolvenfontein 3/645
15	08-07-09	Phase 1	Farm Zeeland R/526	Farm Zeeland R/526
16	08-07-09	Phase 1	Farms Buffelsjagt, Enkeldraai & Kringgatspruit	Farm Buffelsjagt
17	08-07-09	Phase 1	Farm Worcester	Mogol Klub
18	10-07-09	Phase 1 & Phase 2	Steenbokpan Area	Steenbokpan Agricultural Union Hall
19	10-07-09	Phase 1 & Phase 2	Farm Theunispan 23/293 - Phomulong Community Trust	Steenbokpan Winkel
20	14-07-09	Phase 1	Farm Taaiboschpan	Aurecon Offices - Centurion
21	17-07-09	Phase 1 & De-bottlenecking	Farm Wolvenfontein 1/645	KV3 Offices - Pretoria
22	28-07-09	De-bottlenecking Phase	Farm Sterkfontein 3/642	KV3 Offices - Pretoria

- The issues and comments raised by I&APs were grouped under the categories below. Although an attempt was made to assign each issue to the most logical category, some issues could fall under more than one category.

Categories	<ul style="list-style-type: none"> Construction Water Compensation Environmental Impact Assessment Infrastructure Alternatives Operation And Maintenance Servitude Institutional Arrangements Broader Public Involvement Process General
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Note: Note that only those comments received up until the cut-off date for the submission of completed Reply Forms (stipulated in the BID as 19 June 2009), are included in this draft Basic Assessment Report. The comments and issues raised by I&APs thereafter will be addressed in the final Basic Assessment Report, that will be submitted to the Department of Environmental Affairs.

1. CONSTRUCTION

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
1.1	When will construction commence on the various phases of the project?	Unknown – focus group	Lephalale Focus Group Meeting (24 April 2009)	<p>During the Focus Group meeting the following planning dates were communicated by SP, which were based on the programme that was relevant at that stage of the project:</p> <p><u>Phase 1</u> - Commencement of Construction – Third Qtr 2010 Commissioning – First 2012</p> <p><u>Phase 2</u> - Commencement of Construction – Second Qtr 2011 Commissioning – Third Qtr 2014</p> <p><i>During the compilation of this report, the following programme applied:</i></p> <p><u>Phase 1</u> - Commencement of Construction – First Quarter 2011 Commissioning – End 2013</p> <p><u>Phase 2</u> - Commencement of Construction – Start 2013 Commissioning – End 2015</p>
1.2	The landowner's game must be protected during the construction process. It was also stated that strict supervision and control must be implemented for farm access.	Guy Emslie (Farm Fancy 556 LQ)	Landowners Meeting - Ashante Conference Venue (05 March 2009)	JP stated that the EMP and the contractor's specifications would set requirements to ensure that the contractor complies. Also mentioned there will be independent environmental officer(s) appointed to monitor the contractor to ensure he complies with the EMP and relevant environmental and Occupational Health and Safety legislation.
1.3	Demanded a take-off point from the proposed pipeline for animal drinking purposes and requested additional take off points.	Several directly affected parties	Landowners Meeting - Ashante Conference Venue (05 March 2009)	<p>AM mentioned that DWA policy will apply. Landowners must request take-off points. Take-off points will only provide water for household and animal drinking purposes. New agreements will need to be established between DWA and the specific water user.</p> <p>Willie du Plessis (Exxaro) noted that these take-off points must be requested in advance and that the landowners have to indicate exactly where they would need these take-off points since it must be included in the designs of the pipeline.</p>
1.4	Landowners on the pipeline section between Lephalale and Steenbokpan requested take off points from the proposed pipeline.	Several directly affected parties	Landowners Meeting - Ashante Conference Venue (05 March 2009)	AM mentioned they will also have to request these points during the detail design phase. Noted that they must keep in mind that after 2014 the flow direction of water in the pipeline will be reversed and that the source will then be the Crocodile water of which the water quality is not as good as the water from Mokolo Dam.
1.5	What will be done with the excess rock and material from the excavations?	M. Schoeman (Farm Goedehoop 552 LQ)	Landowners Meeting - Ashante Conference Venue (05 March 2009)	<p>JP mentioned some of it can be used to rehabilitate borrow pits.</p> <p>AM mentioned it will not be left on top of the pipeline, as was done previously with the existing pipeline.</p>

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
1.6	How will complaints be dealt with during the construction phase?	R. Viljoen (Farm Wolvenfontein & Witbank)	Landowners Meeting - Ashante Conference Venue (05 March 2009)	<p>Willie du Plessis (Exxaro) noted the complaints procedures must be written into the contractor's specifications, which will form part of the tender document and therefore part of the contract, which will ensure for it to be enforced. A communication procedure for urgent response situations must also be in place.</p> <p>AM mentioned that normally the contractor would be required to have a complaints book on site wherein the public can write any complaints. These complaints would be part of the monthly agenda of issues which the contractor must solve / action. There will also be an Environmental Compliance Officer (ECO) on site that can deal with issues.</p>
1.7	Requested that pictures must be taken of all existing infrastructure (fences, gates, roads, etc.) before construction to serve as reference afterwards.	Guy Emslie (Farm Fancy 556 LQ)	Landowners Meeting - Ashante Conference Venue (05 March 2009)	<p>JP stated that it must be included as a requirement in the contractor's contract. During the compulsory tender briefing all tendering contractors must be present and that they should take note of the infrastructure that could be affected during this site inspection. Noted there will also have to be an agreement established between TCTA and Exxaro regarding access to the proposed pipeline.</p> <p>AM noted that the site inspection for the tender briefing will be compulsory and absent tendering contractors will be disqualified.</p>
1.8	Can foresee that his game fence will be influenced.	JJ Lamprecht (Farm Fancy 518 LQ)	Public Meeting and Open day - Lephalale (27 May 2009)	JP stated that any damages caused by the contractor must be repaired according to specification for game fencing. For the construction servitude a new fence will be erected, which is of the same standard as the existing fence to protect the landowner's game.
1.9	The construction process must ensure landowners always have access to all parts of their properties.	Several directly and indirectly affected parties	Public Meeting and Open day - Lephalale (28 May 2009)	<p>EMP to suggest mitigation measures to allow for access.</p> <p><i>To be investigated further during EIA Phase.</i></p>
1.10	Provision must be made for the migration of animals and their access to water points during construction.	Several directly and indirectly affected parties	Public Meeting and Open day - Lephalale (28 May 2009)	EMP to suggest measures to allow for animal migration.
1.11	The construction process must not interrupt the hunting activities on farms used for hunting purposes.	A.J. van der Walt (Farm Goedehoop 552 LQ)	Public Meeting and Open day - Lephalale (28 May 2009)	<i>EMP to suggest environmental Best Management Practices. Special measures will be discussed with each property owner. This matter to be investigated further during EIA Phase.</i>
1.12	Game screening to be used during construction.	A.J. van der Walt (Farm Goedehoop 552 LQ)	Public Meeting and Open day - Lephalale (28 May 2009)	<i>EMP to suggest suitable screening.</i>
1.13	Demanded take-off point from the proposed pipeline for animal drinking purposes and requested additional take-off points. Noted additional take-off points will mean the landowners will have less water losses on long length reticulation pipes on their properties.	Several directly and indirectly affected parties	Public Meeting and Open day - Lephalale (28 May 2009)	JP - DWA policy on farm take-offs for drinking purposes to be complied with. Details of take-offs to be finalised during the design phase and during negotiations for registering of servitudes.

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
1.14	Existing watering points for game must be moved before the contractor starts with construction on the specific property, should the points be located close to the working area.	Several directly and indirectly affected parties	Public Meeting and Open day - Lephalale (28 May 2009)	<i>EMP to provide measures for the relocation of drinking points. Contractor and Environmental Compliance Officer to negotiate with landowner before construction starts.</i>
1.15	The landowner's game must be protected during the construction period.	S. Sauer (Farm Enkeldraai 314 LQ)	Public Meeting and Open day - Lephalale (28 May 2009)	<i>Special measures to be included in the EMP and conditions regarding fences, gates, screens etc. Normally also included in contract.</i>
1.16	How long the contractor be on a specific landowner's property during construction?	Several directly and indirectly affected parties	Public Meeting and Open day - Lephalale (28 May 2009)	JP - construction will cover approximately 30m per day per construction head, but depends on soil conditions and access constraints.
1.17	The pipeline should be underground.	F.C. Maritz	Public Meeting and Open day - Lephalale (28 May 2009)	JP - normally the pipeline is buried. Only in special cases where will it be above ground.
1.18	How will access control be managed?	Freddy Naude (Farm Fancy 556 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	LvdM - the contractor normally will fence / screen off the construction servitude but provision must be made for animal migration to watering points (for example). Mentioned the fencing / screening material will depend on the type of game that is present on a farm. For example, buffalo and rhino will require different measures than kudu and impala. Mentioned advice from the landowners will also be valuable in bridging this problem.
1.19	The construction process must ensure landowners always have access to all parts of their properties.	Several directly and indirectly affected parties	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	JP & FV mentioned access would be specified for each farm individually. This issue will be further discussed with the landowners during the servitude negotiations. Aerial photos will also be used during the final designs.
1.20	Where will the contractor's camp be situated?	Guy Emslie (Farm Fancy 556 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	JP mentioned it would be the contractor's responsibility to set up his construction camp and making the requisite associated arrangements. Specifications will prescribe best practices to manage these camps.
1.21	The project team must ensure that existing water reticulation pipes on farms are not damaged during the construction process. The resident engineer must discuss the positions of existing water pipes with the landowner before the contractor accesses a farm.	Guy Emslie (Farm Fancy 556 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	<i>EMP to provide specific measures for identifying these. Contractor and Environmental Compliance Officer to negotiate with landowner before construction starts.</i>
1.22	Suggested that the project team and contractor must make use of two-way radios onsite, as cell phone reception is very poor. Noted they should always be available should	Guy Emslie (Farm Fancy 556 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	DH - This suggestion to be incorporated into EMP.

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
	there be any urgent matters arising.			
1.23	When will the different project phases be completed?	Werner Emslie (Farm Goedehoop 552 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	<p>JP stated that the design process will take 6-8 months for Phase 1. Must be finalized end of 2009. The contractor must start mid 2010 with the 9km of the de-bottlenecking pipeline, which will take approximately 3-4 months. Should be completed 2011.</p> <p>LvdM noted that construction will not commence until environmental authorisation has been obtained.</p>
1.24	Requested that the old spoil material on the existing Exxaro pipeline be removed. What will be done with the new spoil material?	M. Schoeman (Farm Goedehoop 552 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	<p>BS mentioned that consideration must be given to the removal of the spoil material on the existing pipeline in the new specifications. Stated the new pipeline debris must be removed from the site and that they will consider dumping it in borrow pits and quarries as part of the rehabilitation.</p> <p>DH mentioned that the topsoil must be replaced and seeded with an indigenous grass mix.</p> <p>LvdM noted that the first 150mm of topsoil will be stripped and stored separately. Noted that for the first 12 months after construction it will be the contractor's responsibility to manage the rehabilitated areas. Mentioned there will be a retention period for the contractor of 1 - 1.5 years to ensure that sufficient rehabilitation was done. Therefore the contractor will need access to the rehabilitated areas for monitoring purposes during this retention period.</p> <p>OvdB mentioned that the contractor would have to arrange access with the respective landowners in advance for these monitoring events.</p>
1.25	The pipeline route must only be fenced off during the construction period.	Guy Emslie (Farm Fancy 556 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	LvdM noted that the right of way for construction would only be fenced off during the construction period.
1.26	Demanded take-off point from the proposed pipeline for animal drinking purposes and demanded additional take-off point as a form of compensation for the new proposed pipeline.	Several directly and indirectly affected parties	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	OvdB - DWA must still decide on this matter. Should it be allowed, it will only be for household- and stockwatering use. There will have to be formal agreements with the landowners. Positions of these take-off points will be discussed with the landowners during the final design stage.
1.27	Request for additional take-off point on northern side of gravel road and for a take-off point at the existing take-off point at the R32.	P.C.S. Snyders (FOURIESKLOOF 1/557LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	<p>Noted</p> <p><i>TCTA to undertake future negotiations with the landowners regarding take-off points.</i></p>
1.28	Will there be periods when the pipeline will be without water?	De-bottlenecking Public Open Day 28 May 2009	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	JP mentioned that they will have to connect the new pipeline at various points to the existing pipeline and therefore there will be short periods where the pipeline will be without water. Landowners will be notified in advance. The pipeline will be managed by DWA or its

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
			May 2009)	agent.
1.29	Why was the raising of the Mokolo Dam wall not considered?	Costas Zervas (Farm Sterkfontein 642LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	<p>OvdB noted the following constraints:</p> <ul style="list-style-type: none"> It will cost approximately R900 million; Time constraints due to the urgent need for water for the new power station; and It may be regarded as a risk having all the strategic industries in the area dependant on only one source. <p>According to studies, should they raise the dam wall with 15m they will only get an additional 20 million m³ water from the dam. Noted the possibility might be considered again in the future.</p>
1.30	He is currently using percolation water from the Mokolo Dam on his farm and should the dam's water level be lowered he might not receive this water any more. Requested that he must be informed in advance should the dam be mined so that he can erect new watering points for the animals on his farm.	Gerhard Viljoen (Wolvenfontein 645 & Witbank 647)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	OvdB - there will be continuous contact with the Irrigation Board and stakeholders. Dam level will drop gradually.
1.31	Suggested that the contractor stays in Marapong and Lephalale area instead of construction camps being established on someone's farm. The employees can then be transported with busses.	M. Schoeman (Farm Goedehoop 552 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	Noted
1.32	Will there be transport specifications for the contractor to follow or will the shortest route from the area where material was collected / dumped be used?	M. Schoeman (Farm Goedehoop 552 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	<i>A traffic Impact Study to be undertaken during the EIA Phase.</i>
1.33	Will the landowner have the opportunity to see the contractor's specifications?	Werner Emslie (Farm Goedehoop 552 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	FV mentioned the consulting engineer would be responsible to ensure the contractor complies with the specifications. There will be ECOs and Community Liaison Officers (CLOs) fulltime on site. Landowners would direct complaints to these parties, and not directly with the contractor. The landowners will have the opportunity to review the EMP, which will include all the requirements the contractor has to abide by. The project specifications relevant to his farm will also be discussed with the landowner for his inputs.
1.34	Noted the construction process will have an impact on hunting activities should it be conducted during the hunting season.	Jaco de Bruin - 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	<i>EMP to include Environmental Best Practices. Economic Study to be undertaken during EIA Phase.</i>

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
1.35	The landowner's game must be protected during the construction period.	S. Sauer (Farm Enkeldraai 314 LQ)	Correspondence received during broader PIP and PPP	DH - Measures to be included in the EMP.
1.36	The project team must ensure that existing water reticulation pipes on farms are not damaged during the construction process. The resident engineer must discuss the positions of existing water pipes with the landowner before the contractor accesses a farm.	A.J. van der Walt (Farm Goedehoop 552 LQ)	Correspondence received during broader PIP and PPP	<i>EMP to provide specific measures for safeguarding existing water infrastructure. Contractor and Environmental Compliance Officer to negotiate with landowner before construction starts.</i>

2. WATER

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
2.1	Why is the Limpopo River not considered as a water source for this project?	Unknown – focus group	Lephalale Focus Group Meeting (24 April 2009)	SP - several sources were considered where after the Department decided on the Mokolo Dam and the Crocodile River as the preferred sources. Reasons for not considering the Limpopo River further includes loss of water through infiltration into the sand aquifer and evaporation losses (amongst others).
2.2	Why is the raising of the Mokolo Dam wall not considered?	Unknown – focus group	Lephalale Focus Group Meeting (24 April 2009)	SP - the option was considered at desktop level but the yield gained by raising the dam wall is insignificant in relation to the required demand for the project. The option may be considered further in the future.
2.3	Will the landowners downstream of the Mokolo Dam be affected by this project?	Unknown – focus group	Lephalale Focus Group Meeting (24 April 2009)	SP - there might be a possibility that the irrigation farmers' water rights will have to be leased for a certain period whilst the Phase 2 pipeline is constructed. This issue will be investigated further and will be discussed with the possible affected parties.
2.4	Lephalale is already experiencing water shortages. Will MCWAP (Phase 1) result in further water shortages?	Unknown – focus group	Lephalale Focus Group Meeting (24 April 2009)	SP - MCWAP will not take water away from Lephalale that has been allocated for residential use. Existing water shortages may be related to the new developments and the fact that the distribution network of the municipality has not recently been upgraded. Additional water might be allocated by MCWAP for Lephalale Municipal use.
2.5	It is foreseen that Lephalale will experience water shortages during the construction phase of the Phase 2 pipeline, as the Phase 1 pipeline will then have to supply more water for the new power station(s) and other developments in the Steenbokpan area.	Unknown – focus group	Lephalale Focus Group Meeting (24 April 2009)	SP - to be investigated further during the EIA Phase.
2.6	How much water is available in the	Unknown –	Lephalale Focus	SP - to be investigated further during the EIA Phase.

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
	Mokolo Dam for new developments?	focus group	Group Meeting (24 April 2009)	
2.7	The landowners must be allowed adequate time to request take-off points and the cut-off date for such requests must be communicated in advance.	Guy Emslie (Farm Fancy 556 LQ)	Landowners Meeting - Ashante Conference Venue (05 March 2009)	JP noted that the project is still in its feasibility stage and that these take-off points will only be negotiated and finalised during the detail design phase.
2.8	Will there be a change in the cost for the water from the existing pipeline to the new pipeline.	Guy Emslie (Farm Fancy 556 LQ)	Landowners Meeting - Ashante Conference Venue (05 March 2009)	AM mentioned DWA must still decide on the tariff policy and that the outcome thereof will be circulated to the existing users.
2.9	Under his existing agreement with Exxaro he receives water from the existing pipeline. Therefore it is Exxaro's responsibility to ensure there is always water available to the landowners. Requested that since there is going to be a new pipeline, the landowners must receive extra compensation or water from the pipeline.	Guy Emslie (Farm Fancy 556 LQ)	Landowners Meeting - Ashante Conference Venue (05 March 2009)	Willie du Plessis (Exxaro) noted Exxaro will have to do refurbishments on the existing pipeline in future, but this will only start after the new pipeline has been built. The existing Exxaro water delivery contracts stipulate that Exxaro cannot ensure 100% water delivery and that they will give the users notice should there be a period of 72hours+ where they will not be able to deliver water. JP noted that compensation for the pipeline servitude would still be negotiated with the landowners by TCTA who will appoint land evaluators. Also noted that the leasing of servitudes by the department has complications and that the norm is rather to buy out the land on a once off basis. Also noted the validation of land will be done on an individual basis.
2.10	A technical official at the municipality mentioned water price increases and water restrictions for Lephalale.	Stef Snyders (Lephalale Ward Councillor: Ward 2)	Public Meeting and Open Day - Lephalale (27 May 2009)	OvdB mentioned the existing capacity problem with the municipality's infrastructure might lead thereto. Until the existing pipe is upgraded the mentioned restrictions might be enforced.
2.11	Will the new upgraded pipe that provides water to Lephalale have an impact on the municipality's water costs?	Stef Snyders (Lephalale Ward Councillor: Ward 2)	Public Meeting and Open Day - Lephalale (27 May 2009)	OvdB noted the water from the MCWAP will be expensive and that they are currently investigating if there are ways to subsidise the municipal users. The water for the proposed town development at Steenbokpan's might be very expensive.
2.12	Irrigation farmers must be compensated should they be affected by the "mining" of the Mokolo Dam. Can foresee that they will be substantially affected.	Neels Grieshaber	Public Meeting and Open Day - Lephalale (28 May 2009)	FV mentioned there is a 0.5% possibility that the dam water level will reach such a low level that the water from irrigation farmers will have to be bought out. Noted that the final decision will only be made on 01 April of each year. It will be discussed with the irrigators.
2.13	Until when will water be pumped from Mokolo Dam to Medupi and Steenbokpan?	Neels Grieshaber	Public Meeting and Open Day - Lephalale (28 May 2009)	FV - the Mokolo Dam will be the only water source for Steenbokpan until 2015, where after the Phase 2 pipeline (from the Crocodile River) will be implemented and the direction of the water flow in the delivery pipeline will then be changed.
2.14	Mokolo Dam water is the only clean	Neels	Public Meeting and	OvdB answered that the technology exists to clean the Crocodile water for household use

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	water to be used for the proposed Steenbokpan residential area. Will the Mokolo Dam still be supplying this residential area as well?	Grieshaber	Open Day - Lephalale (28 May 2009)	and therefore they will be able to use the water from this river.
2.15	Will the existing water delivered from the Exxaro pipeline be more expensive when DWA takes ownership of the system?	M. Schoeman (Farm Goedeheop 552 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	OvdB mentioned that DWA would make a policy decision that is applicable for the scheme.
2.16	Noted that they have a contract with Exxaro to deliver the water at a certain price and that DWA cannot increase this price.	Werner Emslie (Farm Goedeheop 552 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	OvdB mentioned that DWA would make a policy decision that is applicable for the scheme. This issue will be raised with the relevant decision makers for feedback to the landowners.
2.17	Noted that 3 years ago the irrigation farmers had a 50% water shortage and according to their studies they are using 130-140 million m ³ per annum. Requested that the Feasibility Report currently undertaken by DWA be reviewed by an independent party. Information was also requested pertaining to the increasing water volumes at Hartbeespoort Dam and Roodeplaat Dam.	Roland van Tonder (Crocodile West Irrigation board) - 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	<i>This matter was dealt with in a separate report and meeting held with the Agri Forum on 26 May 2009.</i>
2.18	Noted that Mokolo Dam flowed 2.2m over its wall in 1996 and that raising the dam wall could almost double the dam's capacity. Requested that an application be submitted to SADC for raising the dam wall as well as building a new dam at Boschkop.	Louis Loots (Mokolo Irrigation Board) - 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	AM noted there are environmental factors that play a role. Also noted that when you submit such an application at international level you must be sure the application carries enough merits and is not just in a consideration phase.
2.19	Referred to an existing study that was undertaken by the Thabazimbi Municipality for sourcing municipal water from the Crocodile River. Why all the fragmenting of water users?	George Frits (Makoppa Irrigation Board) - 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	Project team present: DWA is aware of this project and it was considered during the planning of MCWAP.
2.20	Who will be responsible to monitor the water users in the Crocodile River and for the installation of water meters?	Roland van Tonder (Crocodile West Irrigation	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	OvdB - the capital cost for implementing and operating the abstraction management must be included in the project cost since the new users created the need. The future management of the operating system must still be finalised. It will be expected that the Crocodile River West Irrigation board should be leading the monitoring function, as it is their

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		board) – 06 March 2009 & 26 May 2009		responsibility.
2.21	What measures are in place should the Phase 2 pipeline not be completed in time and the Mokolo Dam is over-abstracted? This will result in financial losses for irrigation farmers downstream of the Mokolo Dam. Compensation for such a scenario must be determined before construction starts.	Louis Loots (Mokolo Irrigation Board) & Francois van den Berg (Agri Limpopo) – 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	<i>Economic Study to be undertaken during EIA Phase.</i>
2.22	That DWA drilled boreholes in the Lephalale area. Requested water quality data of these holes.	Jaco de Bruin - 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	Noted <i>The holes were drilled as part of a Water Research Commission project. As soon as their reports are finalised the data will be made available to the public.</i>
2.23	Will irrigation farmers upstream of Hartbeespoort Dam, Klipvoor Dam and the Apies River form part of the same management system as downstream user?	Roland van Tonder (Crocodile West Irrigation board) – 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	FV noted the water management system must be discussed further at the Crocodile working group and that the input from the irrigation board must be considered when establishing the management and operating rules and to determine how abstraction and river management must be executed. Provision was made in the project budget estimation for capital works in the Crocodile River System to ease the management thereof. The system will be operated with the assistance of the irrigation boards.
2.24	The contaminated Crocodile River water must not be released in the Steenbokpan/Lephalale area since it will negatively impact on the water quality of the local water resources.	Jaco de Bruin & G.H. Visser 06 March 2009 & 26 May 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	AM mentioned that due to the high cost of this water, the users will basically be forced to recycle and re-use this water to the optimum level.
2.25	The riparian owners and property owners at Hartbeespoort Dam will be dissatisfied about the lowering of the dam's water levels, should the dam be operated to its potential as a dam.	Roland van Tonder (Crocodile West Irrigation board) – 26 May 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	AM stated that DWA and the Government will have to make a strategic decision on the issue. Issue is being investigated further.
2.26	A cut-off date must be set for users to indicate their anticipated future water demands.	Members of the Agricultural Discussion Forum - 06 March 2009 & 26 May 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	OvdB mentioned the final cut-off date for users is for the finalization of the Design..
2.27	Disagreed with the statement made	Roland van	Agri Discussion	OvdB - DWA made provision in the project for the review of reports. Should the Agricultural

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
	<p>by Chris Viljoen that the proposed Vlieëpoort Dam would basically not deliver any water due to evaporation losses and the silting up of the dam. Dams such as Klipvoor Dam have existed for many years and are still contributing to the constant water delivery in the Crocodile River System.</p> <p>The agricultural representatives at the meeting unanimously voted that an independent consultant be appointed to review the studies regarding the following proposed dam building options:</p> <ul style="list-style-type: none"> • New dams at Vlieëpoort and Boschkop; and • Raising the dam walls at Mokolo Dam and Klipvoor Dam. <p>The Agricultural Forum must be involved in the appointment of the external independent reviewer.</p>	Tonder (Crocodile West Irrigation board) - 26 May 2009	Forums (27 January 2009, 06 March 2009 & 26 May 2009)	<p>Sector require a further study to be undertaken they must send a written request to the Department, which includes a motivation for the review. DWA will then consider carrying the cost of the review. Noted that the Public Finance Management Act does not allow for such a fund to be established.</p> <p>FV - it is a requirement from the profession that the consulting engineer considers and evaluates all possible options and provides independent advice to the client.</p>
2.28	Dissatisfied that the Medupi water use license was approved by DWA.	Louis Loots (Mokolo Irrigation Board)	Mokolo Working Group Meeting (26 May 2009)	OvdB noted that ESKOM applied to transfer part of their existing Water Use License for Matimba Powerstation, which they do not use at Matimba, to Medupi Powerstation. Therefore, it is not a new allocation but rather a transfer from an existing license to a new license.
2.29	Dissatisfied that the Medupi license was not communicated through to the public via the MCWAP project.	Louis Loots (Mokolo Irrigation Board)	Mokolo Working Group Meeting (26 May 2009)	Noted
2.30	Dissatisfied because of the advanced status of the project even though the negotiations regarding the Mokolo water rights has not started yet.	Louis Loots (Mokolo Irrigation Board)	Mokolo Working Group Meeting (26 May 2009)	OvdB stated there must be more surety on the volume of water required and by when, before these negotiations can kick off.
2.31	Agricultural activities upstream of the	Louis Loots	Mokolo Working	<i>Standard water use management function undertaken by DWA Regional Office.</i>

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	Mokolo Dam also impact on the dam's delivery. It is important that the use of this water be monitored and legal water use entitlements must be verified.	(Mokolo Irrigation Board)	Group Meeting (26 May 2009)	
2.32	The Mokolo Irrigation Board will have its annual meeting on 10 July 2009. Requested that the different water use scenarios for the Mokolo Dam should then be finalised by then and ready for interpretation.	Louis Loots (Mokolo Irrigation Board)	Mokolo Working Group Meeting (26 May 2009)	FV noted the project team would try to attend this meeting and give a presentation on the project and how the landowners might be affected.
2.33	The agricultural sector must know by 01 April 2009 of the water availability in order for them to plan their cultivars for the season.	Louis Loots (Mokolo Irrigation Board)	Mokolo Working Group Meeting (26 May 2009)	Noted that the decision date for the irrigators is based on water availability on 01 April of each year. This will be used in future analysis.
2.34	What quantity of sewage effluent is being discharged into the system at this stage?	Roland van Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009	Correspondence received during broader PIP and PPP	DWA is currently undertaking a reconciliation study on the Crocodile River. The results of this study will quantify the available return flows. According to previous studies there was 310 million m ³ treated effluent discharged into the Upper Crocodile River in 2005.
2.35	3 years ago water restrictions were enforced in the Crocodile system.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009	Correspondence received during broader PIP and PPP	Members of the Crocodile River (West) Irrigation Board receive their allocations from Roodekopjes Dam and Vaalkop Dam at a higher risk than the rest of the system and are more susceptible to water restrictions. These restrictions were initially required although dams such as the Hartbeespoort Dam were at higher level. The White Paper allocated water to the members of the Crocodile River (West) Irrigation area from the Roodekopjes- and Klipvoor Dams irrespective of the status of dams in other sections of the river system.
2.36	Will the Hartbeespoort-, Roodekopjes-, Klipvoor- and Vaalkop Dams be managed together and by whom?	Roland van Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009	Correspondence received during broader PIP and PPP	DWA will define the operating rates for the system as a whole. The operator will be identified in due course.
2.37	Who will monitor whether all the parties are keeping to their quotas? This includes irrigators as well as industries and municipalities.	Roland van Tonder (Chairperson: Agri Discussion Forum)	Correspondence received during broader PIP and PPP	DWA will provide support to a dedicated agent for the operation of the MCWAP Scheme. All affected parties will be required to participate. The irrigation board will be very important in this function.

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		Forum) – 04 February 2009		
2.38	Acknowledge receipt of the raw data from measuring stations but requested the processed data to be distributed. Under the impression that such studies have already been completed since ESKOM would not build Medupi without knowing if there is sufficient water available.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 16 April 2009	Correspondence received during broader PIP and PPP	An interpretation of flow data was presented to the Crocodile (West) Working Group meeting held on 14 May 2009.
2.39	During times of water restrictions, will it be enforced throughout the whole catchment and who will monitor it?	Roland van Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009 & 08 May 2009	Correspondence received during broader PIP and PPP	Noted and to be considered in the constitution of the MCWAP operating authority.
2.40	Requested data on the water storing capacity at different heights of the proposed Boschkop- and Vlieëpoort weirs. Such studies should have been completed a long time ago.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009 & 16 April 2009	Correspondence received during broader PIP and PPP	Results of the studies were presented to the Crocodile (West) Working Group meeting held on 14 May 2009.
2.41	Klipvoor Dam and Mokolo Dam were originally built to allow for the raising of the dam walls. What are the volumes in these dams at the raised levels?	Roland van Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009 & 16 April 2009	Correspondence received during broader PIP and PPP	Possible dam building options were discussed during the Crocodile River (West) Working Group Meeting held on 14 May 2009.
2.42	According to their studies should 16 million m ³ water per month be taken for Medupi and associated industries from the Crocodile system there would have been shortages in 98 of the 144 month period between 96/97 – 07/08. Requested the figures from the project team and DWA.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 16 April 2009	Correspondence received during broader PIP and PPP	The current demand for Medupi power station is 15 million m ³ per “annum”, and not per “month”.
2.43	Requested information on studies	Roland van	Correspondence	<i>See response under item 6.2.</i>

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
	regarding the raising the Mokolo Dam wall. The dam wall was originally built to be raised. The dam is very deep an ideal to be raised. The dam's water quality is very good.	Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009, 08 May 2009 & 03 June 2009	received during broader PIP and PPP	
2.44	Requested information on studies regarding building a new weir at Boschkop. A full study was not done but three possible positions for the weir exist. It might be required to raise the tar road or re-route it should a dam be built at Boschkop.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009, 08 May 2009 & 03 June 2009	Correspondence received during broader PIP and PPP	<i>FV (Thabazimbi and Lephalale Open days 27 May 2009) stated that dam building options were consider for this project but were found not feasible due to:</i> <ul style="list-style-type: none"> <i>• Time constraints (International Protocols) and;</i> <i>• The fact that the dam options considered would not deliver a large enough yield.</i> <i>New weir options at Boschkop and Vlieëpoort had been considered. The Klipvoor Dam wall can be increased. Further dam building options might be considered in future but not as part of this project.</i>
2.45	Requested information on studies regarding building of a new dam at Vlieëpoort. From information supplied by the project team it seems that a dam with a capacity of approximately 48 million m ³ water would not have a big impact on existing infrastructure.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009 & 03 June 2009	Correspondence received during broader PIP and PPP	Provided at Agri forum meeting held on 26 May 2009.
2.46	Mentioned the project team's concern that the proposed dam structures might fill up with silt and not have a good yield. Noted that the existing dams in the Crocodile River have been operational for years and have provided good yield.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 03 June 2009	Correspondence received during broader PIP and PPP	Noted
2.47	Requested processed data of water flowing past the different measuring points.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009	Correspondence received during broader PIP and PPP	Data figures were provided and were discussed at the Crocodile River (West) Working Group Meeting held on 14 May 2009. The presentation information was also sent to Roland van Tonder on 14/05/2009.
2.48	From their own studies they have found that without storage dams, there would not be sufficient water for industries for 4 out of 10 years should	Roland van Tonder (Chairperson: Agri Discussion	Correspondence received during broader PIP and PPP	The current demand for Medupi power station is 15 million m ³ per "annum", and not per "month".

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
	Medupi be allocated 16 million m ³ water per month.	Forum) – 08 May 2009		
2.49	With reasonable storage dams there would be an acceptable water assurance for both industries as well as agriculture.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009	Correspondence received during broader PIP and PPP	There are no suitable dam sites.
2.50	Will there be water meters installed on the whole catchment area, and who will be responsible to purchase, install, maintain and read them?	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009	Correspondence received during broader PIP and PPP	<i>See response under item 2.20.</i>
2.51	Will the same management principles apply to irrigation boards and other irrigators?	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009	Correspondence received during broader PIP and PPP	<i>Detailed River Management and Operating Rules, similar to other systems such as the Crocodile East and Komati System and the Vaal System, will still be developed in consultation with representatives from the users.</i>
2.52	Requested a fund to be established by DWA to appoint independent advisors (from outside of South Africa) to review the investigations undertaken.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009	Correspondence received during broader PIP and PPP	<i>See response under item 2.27.</i>
2.53	How will the Makoppa area be affected? They are of the opinion that they will not be receiving any water.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009	Correspondence received during broader PIP and PPP	Due consideration will be given to the effect that the Vlieëpoort Weir will have on Makoppa farmers. Entitled water use will not be affected.
2.54	Noted that their indications show that without sufficient additional storage capacity the irrigation farmers will only have enough water in 2 out of 10 years.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009	Correspondence received during broader PIP and PPP	Noted
2.55	Noted with the money invested in such a project that they should look at	Roland van Tonder	Correspondence received during	Noted

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	additional storage capacity to ensure for water allocation to neighbors.	(Chairperson: Agri Discussion Forum) – 08 May 2009	broader PIP and PPP	
2.56	Asked for proof of the quota of 230 million m ³ that DWA wants to augment to Ellisras. Asked for proof of flows in the Crocodile River.	Louis Loots (Mokolo Irrigation Board)	Correspondence received during broader PIP and PPP	Flow data has been provided to the forum. DWA has commissioned a reconciliation study in which the quantities of water available are determined.
2.57	Requested the deadline where after new development would no longer be able to occur in Ellisras due to insufficient water.	Louis Loots (Mokolo Irrigation Board)	Correspondence received during broader PIP and PPP	<i>Noted. The purpose of this project is to augment water supply to enable new developments.</i>
2.58	What is the maximum quantity of water available for development in Lephalale? Noted that two years ago Mr. Matukane from DWA indicated that there is 160 million m ³ available in the Crocodile system, whereas the project team has determined that 230 million m ³ is available. Explain the discrepancy.	Louis Loots (Mokolo Irrigation Board)	Correspondence received during broader PIP and PPP	<i>DWA reconciliation study underway, which will confirm the available water of the system. Water will be augmented from the Vaal River system when required.</i>
2.59	Rehabilitation of the Crocodile River is required to improve water quality and quantity.	Wilhelm Schack – 06 March 2009	Correspondence received during broader PIP and PPP	<i>To be investigated further during EIA Phase.</i>
2.60	Requested additional take-off points from the proposed pipeline and for a take-off point next to existing take-off point at R32.	P.C.S. Snyders (Farm Fourieskloof 1/557 LQ) and several directly and indirectly affected parties	Correspondence received during broader PIP and PPP	<i>See response under item 1.26.</i>
2.61	After groundwater investigations were undertaken by DWA his borehole with “sweet” water has turned brackish to the point where he can no longer use the water. As a result, he is now fully reliable on water being released from the Mokolo Dam. Hence, any potential reduction in water	Koos Pretorius	Correspondence received during broader PIP and PPP	Matter raised with DWA geohydrological unit. The investigations were undertaken as part of a Water Research Commission (WRC) project, which is separate to MCWAP. To be clarified directly by the relevant project consultants.

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	availability would be objected to.			
2.62	No objections to proposed pipeline on condition that he receives two take-off points where the pipeline crosses his property. Also stated that he will indicate where the take-off points must be installed.	T.F.H. Schoeman	Correspondence received during broader PIP and PPP	<i>See response under item 1.26.</i>

3. COMPENSATION

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
3.1	How will compensation be undertaken?	Unknown – focus group	Lephalale Focus Group Meeting (24 April 2009)	SP - TCTA's standard compensation protocol to be followed.
3.2	How will compensation be undertaken?	JJ Lamprecht (Farm Fancy 518 LQ)	Public Meeting and Open Day - Lephalale (27 May 2009)	LvdM stated that two types of compensation will be paid out to the landowner, namely: <ul style="list-style-type: none"> • Impact caused by temporary construction process (i.e. impact on hunting activities), • Permanent impact caused by the loss of land for the registration of the servitude.
3.3	How will compensation be undertaken for servitude registration?	Gerhard Viljoen (Wolvenfontein 645 & Witbank 647)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	LvdM mentioned that an independent evaluator will be appointed who will consider market related transactions in the area. Noted that each property will be evaluated individually.
3.4	How will compensation of damages during the construction phase be undertaken?	Gerhard Viljoen (Wolvenfontein 645 & Witbank 647)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	LvdM stated it would be specified in the contractor's contract that he would be responsible for paying for any damages caused by his activities.
3.5	Noted that he wants the implementing agent (TCTA) to carry the responsibility for compensation if the landowner incurred any damages during the construction process.	Gerhard Viljoen (Wolvenfontein 645 & Witbank 647)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	LvdM noted the issue.
3.6	Compensation must be paid to representatives from the agricultural sector who act as members on the different project related forums and working groups. It was also suggested that a fund be established	Members of the Agricultural Discussion Forum – 27 January 2009, 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	OvdB stated that DWA does not currently have such a remuneration policy. Should the need exist the forum must submit a motivational letter to the Department. FV suggested the letter be submitted by Agri SA and TLU at national level to DWA.

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	by DWA to cover the traveling costs as well as for appointing independent specialists to review studies. During the meeting on 26 May 2009 all the Agricultural representatives present voted that such an independent study must be undertaken.	& 26 May 2009		
3.7	Compensation must be paid to representatives from the agricultural sector who act as representatives on the different project related forums and working groups.	Louis Loots (Mokolo Irrigation Board)	Mokolo Working Group Meeting (26 May 2009)	See response under item 3.6.
3.8	Requested compensation for representatives from Agricultural Sector that acted on the MCWAP forums.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009	Correspondence received during broader PIP and PPP	See response under item 3.6.
3.9	Representatives from the Agri Discussion Forum and working groups must be compensated for their time and travel costs to attend MCWAP project meetings and working groups.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009	Correspondence received during broader PIP and PPP	See response under item 3.6.
3.10	Compensation must be paid to existing water users should they be impacted on by the project due to water shortages in the future.	Wilhelm Schack – 06 March 2009	Correspondence received during broader PIP and PPP	Compensation to be negotiated and paid to all affected parties. Currently it is only foreseen that users downstream of the Mokolo Dam might be affected during the period that the dam will be mined.

4. ENVIRONMENTAL IMPACT ASSESSMENT

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
4.1	The correct project procedures must be followed and an EIA process must be strictly adhered to.	Unknown – focus group	Lephalale Focus Group Meeting (24 April 2009)	SP - issues raised during Focus Group Meeting to feed into EIA process.
4.2	Asked that the Mogol Post also be used as a means of project-related communication.	Stef Snyders (Lephalale Ward)	Public Meeting and Open Day - Lephalale (27 May 2009)	SP stated it would be done in future.

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
		Councillor: Ward 2)		
4.3	How will landowners be notified of when the Basic Assessment Report will be available for public review?	Costas Zervas (Farm Sterkfontein 642LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	DH answered that each registered I&AP will receive such a notification letter and it will also be available on the DWA website. It is anticipated that the draft Basic Assessment Report will be ready for public review by the end of June 09.
4.4	Stated that all the relevant regulations must be captured in the contractor's tender document.	Costas Zervas (Farm Sterkfontein 642LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	Noted
4.5	He did not see the fauna and flora specialists on his property and doubt whether they identified all the fauna on his property that might be affected by this project.	Gerhard Viljoen (Wolvenfontein 645 & Witbank 647)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	<i>To be investigated further during EIA Phase.</i>
4.6	The agricultural sector wishes to see the holistic picture of all the planned projects in the Lephalale area since currently they are only receiving fragmented views in the form of individual projects.	Members of the Agricultural Discussion Forum - 27 January 2009, 06 March 2009 & 26 May 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	<i>Discussions underway with other proponents and EIA practitioners.</i>
4.7	The agricultural sector should not be negatively affected by the proposed project.	Members of the Agricultural Discussion Forum - 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	AM - the irrigation farmers downstream of the Mokolo Dam might be temporarily affected during the period from 2010-2015 should their water rights be acquired for a limited period of time. Also noted that there are no intentions to infringe on any legal water allocations to irrigation farmers on the Crocodile River.
4.8	The project team should determine which parties might be affected by the project should it not be sustainable. It should also be decided how these affected parties would be compensated for their losses.	Wilhelm Schack – 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	AM stated that the agricultural sector obtains their water nationally at a lower assurance level than industrial users. There will be periods in future where water shortages will be experienced due to droughts and during such periods compensation would not be applicable.
4.9	Will there be studies undertaken on global warming and water pollution as part of this EIA? Noted that over the long term, global warming has an impact on water availability.	Wilhelm Schack – 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	AM noted global warming studies do not form part of this project study. Due to the national energy crises the project could not follow the normal DWA process, and needed to be accelerated. SP also noted that studies regarding global warming do not form part of Nemai's Terms of Reference

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
				<i>Global warming was considered during the Crocodile River Reconciliation Study.</i>
4.10	The socio-economic impacts of the project must be investigated.	Gerhard Botha (Koedoeskop Agricultural Union) & Jaco de Bruin – 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	SP mentioned that a Socio-economic study would be undertaken as part of the EIA Phase to determine the broader economic impact of the project.
4.11	Noted the suggestion was made to ESKOM to establish an Industrial Corridor wherein all their power lines will run. Suggested that DWA also installs their pipeline within this corridor.	Jaco de Bruin - 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	It is not advisable to use the same corridor for steel pipelines and high voltage electrical transmission lines due to the currents that are then induced in the pipeline. Separate corridors are preferred.
4.12	Will be special investigations to determine the economic impact on agriculture?	Gerhard Human (Mokolo Irrigation Board)	Mokolo Working Group Meeting (26 May 2009)	OvdB noted this would be partially covered as part of the Economical Module. Noted this team will be appointed within the next 5 months.
4.13	The EIA notice was only published recently although construction work has already commenced on Medupi.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009	Correspondence received during broader PIP and PPP	MCWAP notices were placed on 14 – 15 May 2009, and only focused on the proposed scheme and associated infrastructure.
4.14	Requested an independent study to determine how the abstraction of water from the Crocodile- and Mogol Rivers would affect existing users (national and international) and the environment: 1. Irrigation farmers in the full delivery area of the Crocodile-, Mogol and Limpopo Rivers. • Long-term sustainability of agricultural practices that have been established over 40-50 years. • What impact will the expected water shortages in the agricultural sector	Wilhelm Schack – 06 March 2009	Correspondence received during broader PIP and PPP	Economic study to be undertaken during the EIA Phase.

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
	<p>have on the country's food security?</p> <p>2. How will eco-tourism / game farming/ conservation operations along all the abovementioned rivers be affected?</p>			
4.15	<p>Requested the Terms of Reference for the EIA:</p> <p>1. What input would the Agri Forum have?</p> <p>2. What impacts are posed to environmental-related organisations (e.g. SANParks - Marekele) that may be affected by the pipeline alignment or that are located in the catchment area of the Mogol- or Crocodile Rivers?</p> <p>3. Does the ToR include studies to determine the effect of global warming on the area and to what degree it impacts on water delivery to the environment, other power stations and other users in the area?</p> <p>4. How will agriculture and the environment's water be affected in the study area through:</p> <p>a) Pollution of water sources and the increase in pollution due to a reduced dilution factor caused by abstraction; and</p> <p>b) Air pollution and acid rain as a result of the power station/s.</p>	<p>Wilhelm Schack – 06 March 2009</p>	<p>Correspondence received during broader PIP and PPP</p>	<p>Discussed at the Water- and Environmental Forum Meetings held on 06 March 2009.</p> <ol style="list-style-type: none"> 1. <i>Issues raised by the Agri Forum would be essential in determining the impact of the project on the agricultural sector as a whole.</i> 2. <i>All environmental organizations in the area will be registered as I&Aps. SANParks (Marekele) is registered and the pipeline will not go through their property.</i> 3. <i>The ToR for the MCWAP EIA does not include studies on the effect of global warming on the area.</i> 4. <i>Answers:</i> <ol style="list-style-type: none"> a) <i>To be investigated further during EIA Phase; and</i> b) <i>Not part of the ToR of this study.</i>
4.16	<p>Anglo Coal requested to be kept informed, as they have future development interests regarding coal and coal bed methane rights in the Lephalale area.</p>	<p>Ian Hall (Anglo Coal)</p>	<p>Correspondence received during broader PIP and PPP</p>	<p>I&AP Registered</p>

5. INFRASTRUCTURE

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
5.1	Do any roads need to be moved?	Unknown – focus group	Lephalale Focus Group Meeting (24 April 2009)	SP - Where the pipeline crosses roads, these roads might temporarily be deviated. All affected roads to be reinstated.
5.2	What structures will be visible after the pipeline is laid?	Several directly and indirectly affected parties	Public Meeting and Open day - Lephalale (28 May 2009)	FV : Air valves and scour valves are build in visible manholes. If possible, these structures will have to blend in with the natural environment.
5.3	He can foresee a risk that the Phase 2 pipeline will not be finalised by 2014.	Neels Grieshaber	Public Meeting and Open day - Lephalale (28 May 2009)	Noted
5.4	Who will be responsible for building the end user dams?	Members of the Agricultural Discussion Forum 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	AM mentioned that the end users will be responsible for building their own dams and that they will have to indicate where they will require the take-off points.
5.5	Requested for colour maps of the pipeline routes, proposed dams and other developments.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009	Correspondence received during broader PIP and PPP	Noted

6. ALTERNATIVES

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
6.1	Why does the pipeline not follow the route of the proposed ESKOM Transmission Line?	Unknown – focus group	Lephalale Focus Group Meeting (24 April 2009)	It is not preferred to lay steel water pipes in close proximity to such high voltage power lines due to the associated safety hazards and the impact on pipeline corrosion. Noted that there are mitigation measures where the route crosses high voltage power lines, with high associated costs. Also noted that Eskom's route might be longer.
6.2	Why it is not considered to raise the Mokolo dam wall?	Neels Grieshaber	Public Meeting and Open day - Lephalale (28 May 2009)	<i>See response under item 1.29.</i>
6.3	His inputs are being neglected. The proposed route has still not been discussed with him and he (and other landowners) might suggest better route options if consulted. It was also suggested the technical team walks the route with the relevant landowner for their input.	Gerhard Viljoen (Wolvenfontein 645 & Witbank 647)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	DH mentioned that the routes are not finalised and alternatives can still be investigated if landowners suggest better viable options. Separate onsite meetings will be held with the directly affected landowners during the EIA phase.
6.4	It was requested that DWA consider the following dam options: <ul style="list-style-type: none"> Building new dams at Vlieëpoort and Boschkop; and Raising the dam walls at Mokolo Dam and Klipvoor Dam. 	Members of the Agricultural Discussion Forum - 06 March 2009	Agri Discussion Forums (27 January 2009, 06 March 2009 & 26 May 2009)	AM noted these options were considered and that the topographical terrain at Vlieëpoort and Boschkop is not suitable for building dams. Also mentioned that the SADC Protocol entails a protracted procedure.

7. OPERATION AND MAINTENANCE

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
7.1	Who will manage the new pipeline since Exxaro is currently managing the existing line from the Mokolo Dam.	Neels Grieshaber	Public Meeting and Open day - Lephalale (28 May 2009)	OvdB mentioned the preferred option is for one party to manage the system as a whole. Noted they are still in negotiations with Exxaro regarding the ownership of the existing Exxaro pipeline.
7.2	Who will manage the pipeline? Who can be approached to address issues regarding the operation of the pipeline?	M. Schoeman (Farm Goedehoop 552 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	OvdB mentioned that will be a central management office for the pipeline which the landowners can contact regarding any matters.
7.3	Who will be responsible for the	Gerhard Botha	Agri Discussion	AM confirmed it would be the owner of the pipeline and not the landowner. Also noted the

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
	maintenance of the pipeline and service road?	(Koedoeskop Agricultural Union) 06 March 2009	Forums (27 January 2009, 06 March 2009 & 26 May 2009)	landowner can use the access road.

8. SERVITUDE

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
8.1	How wide will the new servitude be on the Phase 1 pipeline?	A.J. van der Walt (Farm Goedeheop 552 LQ)	Public Meeting and Open Day - Lephalale (28 May 2009)	FV noted it will be $\pm 40\text{m}$ during construction phase, where after the operational servitude required is $\pm 20\text{m}$. Mentioned the total reserve including the existing pipeline reserve will be $\pm 30\text{m}$ at the end of the construction process.
8.2	The engineering team must mark out the existing Exxaro servitude and show them where exactly the new servitude will be.	Werner Emslie (Farm Goedeheop 552 LQ)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	LvdM mentioned the construction servitude would be approximately 30-40m. The final designs must specify where exactly the construction servitudes will run. Mentioned that they will individually negotiate with landowners regarding the compensation of servitudes. Noted that operational servitude will be approximately 20m wide.
8.3	The Exxaro balancing dams servitude is not currently a registered servitude.	Gerhard Viljoen (Wolvenfontein 645 & Witbank 647)	Public Meeting and Open Day - Ashante Conference Venue (28 May 2009)	JP mentioned DWA to follow up with Exxaro.

9. INSTITUTIONAL ARRANGEMENTS

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
9.1	Dissatisfied that the DWA Regional Office is not attending the Mokolo Working Group Meetings and that they have cancelled a previous meeting that the Mokolo Irrigation Board had scheduled with them.	Louis Loots (Mokolo Irrigation Board)	Mokolo Working Group Meeting (26 May 2009)	OvdB noted DWA regional office would be invited to attend future meetings.
9.2	Stated he was disappointed when speaking to Mr. Mdikane (DWA Regional Office) who was not aware of the 50% cut-off limit for Mokolo Dam. Encouraged better	Louis Loots (Mokolo Irrigation Board)	Mokolo Working Group Meeting (26 May 2009)	Noted

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
	communication between DWA Departments and the MCWAP Project team.			
9.3	To whom must they report at DWA and who from DWA can assist them with queries?	Roland van Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009	Correspondence received during broader PIP and PPP	Queries must be sent to Mr. Ockie van den Berg and his details were given to the chairperson of the Forum. Mr. van den Berg also attended the working group meetings (14 May 2009 and 26 May 2009), forum meeting (26 May 2007) and several other meetings with landowners.

10. BROADER PUBLIC INVOLVEMENT PROCESS

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
10.1	Requested confirmation that the Project Steering Committee (PCS) representatives included the following parties: <ul style="list-style-type: none"> Roland van Tonder (Crocodile Irrigation Board); Hennie Barnard (Hartbeespoort Irrigation Board); Francois vd Berg (Agri SA); Gerhard Visser (TLU); and Dr. Wilhelm Schack (Environmental Forum) 	Roland van Tonder (Chairperson: Agri Discussion Forum) – 04 February 2009	Correspondence received during broader PIP and PPP	It was confirmed that these five individuals would represent the agricultural sector on the PSC.
10.2	Noted that they are still waiting for answers to the queries raised in letters sent on 04 and 16 February 2009.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 16 April 2009	Correspondence received during broader PIP and PPP	Noted. Many of the items have been addressed at the Agri forum discussion and through individual consultation.
10.3	Disappointed that the working group meeting originally scheduled for 02 April 2009 was cancelled. Asked for a new date.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 16 April 2009	Correspondence received during broader PIP and PPP	The Crocodile Working group meeting was scheduled and took place on 14 May 2009. The Mokolo working group meeting was scheduled and took place on 26 May 2009.

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
10.4	Dissatisfied about the cancellation of scheduled meetings by the project team.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009	Correspondence received during broader PIP and PPP	Noted. Noted that project team meetings are not necessary if sufficient information for meaningful discussions is not available.
10.5	Feedback required from project team on past issues raised.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009	Correspondence received during broader PIP and PPP	AM acknowledged that feedback from project team must improve.
10.6	Suggested that the Water Forum and Environmental Forum must merge to discuss both commercial and environmental aspects.	Wilhelm Schack – 06 March 2009	Correspondence received during broader PIP and PPP	The Water Forum and Environmental Forum merged into the Agri Discussion Forum.

11. GENERAL

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
11.1	How many people will reside in the proposed new Steenbokpan residential area?	Unknown – focus group	Lephalale Focus Group Meeting (24 April 2009)	SP - Will depend on the extent of development that is going to take place. Estimated to be up to 60 000 people.
11.2	Do the proposed pipeline routes take security risks into consideration?	Neels Grieshaber	Public Meeting and Open day - Lephalale (28 May 2009)	OvdB noted it would be important that the final design team takes this into consideration. JP mentioned it was indicated in their documents that they must investigate whether the Mokolo Dam is still a national key point.
11.3	Requested the name of the senior ESKOM Official in charge of the Medupi Project.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 16 April 2009	Correspondence received during broader PIP and PPP	Suggested that this request be addressed to the team conducting the Medupi EIA and Public Participation Process.
11.4	Expressed concern regarding the manner in which ESKOM and DWA were handling the whole situation.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 16 April 2009	Correspondence received during broader PIP and PPP	Noted

No.	ISSUE / COMMENT	RAISED BY	SOURCE	RESPONSE
		April 2009		
11.5	Arbitration procedure to be instituted should they disagree on issues.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009	Correspondence received during broader PIP and PPP	Noted
11.6	Participation from ESKOM is required.	Roland van Tonder (Chairperson: Agri Discussion Forum) – 08 May 2009	Correspondence received during broader PIP and PPP	Noted. The Agri forum should also make use of the participation forums established by Eskom.