

**Appendix E7**  
**Copies of Authority Comments & Correspondence**

**Amafa AkwaZulu-Natali**

**Heritage KwaZulu-Natal**

**Erfenis KwaZulu-Natal**



PO Box 2685  
Pietermaritzburg 3200

Tel: 033 394 6543

Fax: 033 342 6097

Email: amafa.pmb2@mweb.co.za

Website: www.heritagekzn.co.za

Date: 01 September 2010  
Attention: Rashieda Davids  
Tel: 031 266 3310  
Fax: 031 267 8560  
Email: [rdavids@gibb.co.za](mailto:rdavids@gibb.co.za)

Ref: 10/09/01-05

Dear Rashieda

**RE: Proposed installation of a trunk water main, Assagay**

We acknowledge receipt of your Basic Assessment Report for HIA requirements. In terms of the KwaZulu Natal Heritage Act No. 4 of 2008 and the National Heritage Resources Act No.25 of 1999 (Section 38 (1)) a **Heritage Impact Assessment is required**. Amafa KZN Heritage therefore requires the appointment of an Amafa accredited Heritage Practitioner to assist in the provision of recommendations and mitigation procedures.

You are required to include a hard copy of the following information in your report:

- a) Nature and Size/Length of development in hectares / meters<sup>2</sup> and meters accordingly.
- b) Site description including preliminary findings on past land use.
- c) 1: 50 000 Topographic Map, Aerial Photographs, Site Photographs and GPS Coordinates.
- d) Location in terms of District Municipality and Local Municipality;
- e) Lot Number or Portion Number;
- f) Contact Details.

Please disregard the areas where requested information has already been submitted. Your assistance in this regard will be appreciated.

Best regards,

Sello Mokhanya (Principal Heritage Officer-Archaeology)



# water affairs

Department:  
Water Affairs  
REPUBLIC OF SOUTH AFRICA

Enq: Ms R.K. Pillay  
Date: 2<sup>nd</sup> July 2010  
File: 16/2/7/ U601/G1/X3  
Tel: 031-336 2742  
Fax: 031-305 9915  
Email: pillayr@dwa.gov.za

P.O. Box 1018, Durban, 4000. 88 Field Street, Southern Life Building, Durban, 4001  
Tel: (031) 336 2700, Fax: (031) 304 9546. www.dwa.gov.za

The Director  
Arcus Gibb  
P. O. Box 1365  
WESTVILLE  
3630

## ATTENTION: MS R. DAVIDS

Dear Madam

### RE: DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED INSTALLATION OF A TRUNK WATER MAIN IN ASSAGAY, DURBAN (JUNE 2010). DAE REFERENCE NO. DM/0040/09

Reference is made to the above-mentioned document received by this Office on the 10<sup>th</sup> June 2010.

This Department has the following comments with regard to the proposed project:

#### **(1) WASTEWATER MANAGEMENT DURING THE CONSTRUCTION PHASE**

- (1.1) The use of temporary toilet facilities during the construction phase of the development must not cause any pollution to water sources as well as pose a health hazard. In addition, these toilets must be situated out of the 1:100 year floodline of any watercourse.
- (1.2) It is also this Department's experience that projects of this nature may result in the generation of small volumes of water containing waste being generated during the construction phase. In this instance, the following is applicable:
- Water containing waste must not be discharged into the natural environment.
  - Measures to contain the water containing waste and safely dispose off it must be implemented.

#### **(2) SOLID WASTE MANAGEMENT**

- (2.1) All waste generated from the proposed project must be disposed off in a suitable manner so as not to cause any water pollution, nuisances or pose a health hazard.
- (2.2) All waste material generated from the project must be disposed off at a permitted landfill site that is authorised to accept such waste material.

Department of Water Affairs | Departement van Waterwese | Muhaasho wa zwa Madi | uMnyango wezaManzi | Ndzawulo ya la Mati  
Lefapha la Dilaba tsa Metsi | Kgoro ya Merero ya Meetse | Lefapha la Merero ya Metsi | LiTiko leTemanzi  
iSebe lezaManzi | UmNyango weeNdeba zaManzi

(2.3) Contaminated/hazardous waste materials are to be disposed of at a permitted hazardous landfill site.

(2.4) Such waste must be placed in skips and stored in a designated storage/collection area prior to being removed for safe disposal.

**(3) STORMWATER MANAGEMENT**

(3.1) It is imperative that there is proper management of stormwater on the site during and after construction.

(3.2) After construction, the area should be contoured to ensure free flow of runoff and to prevent ponding of water.

**(4) EROSION CONTROL**

(4.1) Measures to prevent excessive soil erosion must be implemented. Extra precautions must be taken as the soils in this area are deemed as highly erodible. If soil erosion cannot be prevented, it must be minimised.

(4.2) Erosion control measures to be implemented in areas sensitive to erosion such as near water supply points, edges of slopes, etc. These measures could include the use of sand bags, hessian sheets, retention or replacement of vegetation.

(4.3) Measures must be in place to prevent erosion of banks along which the pipeline may run during heavy rains.

**(5) WATER USE AUTHORISATION (WATER RESOURCES, WETLANDS & RIPARIAN AREAS)**

(5.1) Mr Norman Ward of this Department's Water Resources Management Section must be contacted on (031) 336 2700 in order to obtain the necessary authorisations, for the **alteration** to the bed, banks, course or characteristics of a watercourse and the **impedance and/or diversion** of flow of a water course as well as any **abstraction and/or storage** of water.

(5.2) Authorisation is therefore required from this Department (Please refer to point [6.1] of this letter) prior to the commencement of this project, should any part of the pipeline encroach upon the riparian zone of drainage lines or watercourses.

(5.3) Due to the nature of the project and the proposed pipeline route, it is anticipated that there will be disturbances to wetland and riparian areas occurring. In addition the comments/authorisation received by Mr Ward (Water Resources Management Section), the Water Quality Section of this Department has the following comments in this regard:

(5.3.1) The extent of damage must be minimised.

(5.3.2) The wetland and riparian areas must be rehabilitated immediately. This rehabilitation and management plan should ideally be included in the Environmental Management Plan (EMP).

- (5.3.3) The banks adjacent to the construction site must be stabilised to prevent collapse and erosion.
- (5.3.4) Areas to be utilised by heavy machinery, etc must be clearly demarcated and a responsible person must be appointed to ensure that there is full compliance with the EMP.
- (5.4) The recommendations and proposed mitigation measures made in the Report entitled '*eThekwini Trunk Water Main Pipeline: Specialist Aquatic Assessment*' by the Institute of Natural Resources (Report no. 402/09) are supported by the Water Quality Management Section of this Department.

**(6) GENERAL**

- (6.1) The responsibilities and conditions contained in the draft EMP are noted. Compliance to the final approved EMP must be audited regularly by the designated Environmental Control Officer.
- (6.2) It is important that the following basic steps are taken into account in the event of a spillage of chemicals, fuel, etc. The following can be addressed in the EMP as part of the Spill Contingency Plan:
- Stop the source of the spill;
  - Contain the spill;
  - All significant spills must be reported to this Department and other relevant authorities;
  - Remove the spilled product for treatment or authorised disposal;
  - Determine if there is any soil, groundwater or other environmental impact;
  - If necessary, remedial action must be taken in consultation with this Department; and
  - The incident must be documented.
- (6.3) No forms of secondary pollution should arise from the disposal of sewage and refuse. Any pollution problems arising from the above activity is to be addressed immediately by the Applicant.
- (6.4) Storage of material, chemicals, fuels, etc must not pose a risk to the surrounding environment and this includes surface and groundwater. Such storage areas must be located outside the 1:100 year floodline of any watercourse and must be fenced to prevent unauthorised access into the area. Temporary bunds must also be constructed around chemical or fuel storage areas to contain possible spillages.
- (6.5) There must be no unacceptable impact on the quality of both surface and groundwater in the area arising from the proposed project.
- (7.9) Notwithstanding the above, the responsibility rests with the applicant to identify any sources or potential sources of pollution from his undertaking and to take appropriate measures to prevent any pollution of the environment. Failure to comply with the requirements of the National Water Act (Act 36 of 1998) could lead to legal action

being instituted against the applicant.

Please do not hesitate to contact this office should you have any concerns, comments or queries.

Yours faithfully

A handwritten signature in black ink, appearing to read 'P. K. P.', written in a cursive style.

for REGIONAL DIRECTOR: KWAZULU-NATAL  
RKP/rkp/14437

**SUSTAINABLE DEVELOPMENT AND CITY ENTERPRISES**  
**Development Planning, Environment and Management**

Head: Ms S. Moonsammy

Enq: Mr. K. Samie  
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E-mail: SamieK@durban.gov.za

166 K.E. Masinga (Old Fort) Road  
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4000  
Tel: +27 31 311 7875  
Fax: +27 31 311 7134



Attention: **Rashieda Davids**  
Arcus Gibb  
PO Box 1365  
Westville  
3630

ARCUS GIBB (Pty) Ltd

2009 -04- 30  
RECEIVED

OUR REFERENCE: EIA/366  
DAEA REFERENCE:

Tel: 031-267-8560  
Fax: 031-266-3310

**COMMENTS: BACKGROUND INFORMATION FOR THE PROPOSED ASSAGAY TRUNK WATER MAIN**

Herewith comment on the Background Information Document regarding the above project.

ETHEKWINI TRAFFIC AUTHORITY

1. Any road closures or deviations proposed must be discussed and approved by the ETA (Vishay Hariram : Manager: Traffic Operations)

ENVIRONMENTAL MANAGEMENT

1. Detailed layout maps/plans meeting the requirements as detailed in the guide document: "Environmental Impact Assessment for Capital Projects: Administrative Roles and Responsibilities" to be provided in the Basic Assessment Report.
2. The layout must show the alignment of the pipe and any associated infrastructure in relation to the existing (including adjacent) environment. Sensitive areas (i.e. river crossings) must be shown in greater detail.
3. Construction and operation phase impacts to river/stream crossings must be adequately mitigated and these areas must be rehabilitated after construction activities have been completed.
4. Impacts to riparian areas and/or adjacent wetlands and vegetation along the alignment must be assessed.
5. Erosion hindering structures must be placed in and along areas that are susceptible to erosion to reduce and prevent any further soil erosion and subsequent sedimentation.
6. Wetland areas and other environmentally sensitive areas must be suitably and visibly demarcated and cordoned off prior to, and during construction activities.

Please feel free to contact this Department for further enquiries in this regard.

Yours sincerely

P.S. CROUCAMP

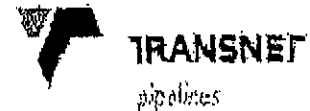
Manager: Development Assessment  
Environmental Management Department

Date: 23/04/2009

cc: Leisel Bowes

Water & Sanitation

[LeiselBo@dmws.durban.gov.za](mailto:LeiselBo@dmws.durban.gov.za)



30 July 2009

Ref: PYP/W1/07/05/02/8911

Ms Karen Hager  
Drawing Office Supervisor  
Ethekewini Water & Sanitation  
P.O. Box 1038  
**DURBAN**  
4000

Dear Ms Hager

**PROPOSED NEW WATER MAIN ALONG ALVERSTONE, ASSAGAY CRESCENT,  
ASSAGAY ROAD AND HLUPHEKA PLACE; ASSAGAY**

Your letter #294667 dated 24 July 2009 refers.

Transnet Pipelines (ex-Petronet), a division of Transnet Limited, has no objection in principle to the proposed water main along Assagay Road crossing the 323,8mm and 406,4mm diameter pipelines within Transnet's 6,1m and 6m wide pipeline servitudes respectively as depicted on your drawing Sheet 1 – 4, subject to compliance to our standard crossing conditions and requirements. Our pipelines are affected on Assagay Crescent as shown on your drawing Sheet 3.

This authority to proceed shall only be valid for six (6) months from the date of this letter. If it is envisaged that the work will commence at a later stage an extension of time must be requested timeously.

**CONDITIONS**

Prior to commencement of the work it is required that a representative of Transnet Pipelines be present to indicate the position of the pipelines and to undertake any work on Transnet's pipeline that may be necessary. In this connection the **Servitude Supervisor, Mr Pieter Venter at (031) 710 9257 or 083 284 0962 at least 14 days** before the date on which you wish to commence the work in the vicinity of the pipeline.

Arrangements will also be made to visit the site periodically whilst the work is in progress. Should the work be undertaken without Transnet Pipelines' representative being contacted as mentioned above, Transnet Pipelines reserves the right to request that you expose the pipeline at your cost in order that an examination can be made for possible damage.

The attached standard crossing conditions and requirements for underground services must be complied with.

A division of  
Transnet Limited  
Registration Number  
1990/000900/08

202 Anton Lembede Street  
Durban  
4001

P.O. Box 3113  
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Directors: FTM Phaswana (Chairman) C F Wells\* (Acting Group Chief Executive) Dr I Abedian Prof GK Everingham NBP Gcaba MJ Hankinson  
Dr ND Hasele OBE\* PG Joubert NNA Matyumza BT Ngcuka MP Moyo NR Ntshingila KC Ramon A Singh\* (Acting Chief Financial Officer)  
\*Executive \*British



Group Company Secretary: Z Stephen

Heavy plant or mechanical driven equipment (for example, excavator) shall not be used in the pipeline servitude. All excavations must be done by hand. Hand-held compactors shall be used in the servitude area.

It is imperative that our representative must be contacted before work commencement to determine our pipeline levels and also assist you with our pipeline related information. It is also important that our representative must witness and approve all the crossings/works. Please be informed that in the event of damage of our pipeline/s, repair costs will be to your account.

On completion of the work you are required to return a copy of this letter to our office, duly endorsed and signed by your site representative as well as Transnet Pipelines' representative that the work was satisfactorily completed and conditions adhered to.

Yours Sincerely

)  


**Mr M.T. HADEBE**  
**SERVITUDE MANAGEMENT**

**SIGNATURE**

**DATE**

**APPLICANT** :.....

.....

**SERVITUDE SUPERVISOR** :.....

.....

P2-18 [CE 8]

***Transnet Pipelines Standard Crossing Conditions and Requirements  
For Underground Services (Cables, Pipes, etc.)***

1. The service/s shall cross below the pipeline/s with a minimum clearance of 300mm. This level must be maintained for a minimum distance of 3m on either side of the centre line of the pipeline/outermost pipelines.
2. Where the service/s run/s parallel to the pipeline/s it/they shall not encroach upon Transnet's pipeline servitude/s.
3. No manholes or any other permanent structure shall be erected within the pipeline servitude/s.
4. It is preferred that no joints in a service shall be situated within the pipeline servitude/s. Should this, however, not be possible the joints shall be placed such that they are equidistant from the centre line of the pipeline/outermost pipelines.
5. **NO BLASTING IS ALLOWED WITHIN A PIPELINE SERVITUDE.** Application to carry out blasting within 500m of a pipeline must be made to this office in writing in terms of paragraph 17.1, chapter 10 of the regulations embodied in the Explosives Act and Regulations (Act 26 of 1956) as amended.
6. Excavation and backfilling within the area of the pipeline servitude/s shall be undertaken by and at the applicant's cost. Such work must be undertaken by hand without the use of mechanical or power equipment.

All excavation work to be carried out within Transnet's pipeline servitude/s will comply with the OHS Act (Act 85 of 1993) and SABS 1200 D : Earthworks specification.

7. In backfilling the excavation the applicant shall provide a minimum of 150mm of selected soft padding around the pipeline/s where it/they was/were exposed. The padding must be properly compacted, in layers, by hand.

This padding sand must meet with the approval of Transnet Pipelines' representative on site. The pH value must not be less than 5,5. The bedding and padding material must be fine sand or fine non-cohesive soil, free from stone, gravel, lumps and which does not cake or form lumps when drying out. The P.I. (Plasticity Index) must not exceed 6. The diameter of the largest particle of sand must not be greater than 2mm. Prior to any delivery to site an independent lab test will be required of the sand to be delivered on site and any number of tests may be conducted.

Examples of padding sand which have been used in the past, amongst others, include the following:

- i) plaster sand
- ii) washed Umgeni River sand (Kwa Zulu-Natal)
- iii) suitably leached mine sand (Gauteng)

It should, however, be noted that crusher dust is not acceptable  
No backfilling may be carried out unless authorised by Petronet's representative.

8. The pipeline/s shall not be left exposed unnecessarily.
9. All fragile services such as PVC pipes, earthenware, pitch fibre pipes and cables laid within the pipeline servitude/s shall be protected with concrete or similar protective slabs laid over them for a distance of 3m on either side of the centre line of the pipeline/ outermost pipelines.

10. In the interest of safety to the applicants service it is recommended that the route of his service at the point/s of crossing be indicated by 6 metres of hazard tape being placed 600 mm below the ground and/or that the actual point/s of crossing be indicated by 3 (three) permanent and clearly visible markers. These markers should be provided and maintained by and at the applicants' cost.
11. All steel pipes and cables crossing the pipeline/s shall be suitably wrapped or sheathed with an acceptable anti-electrolysis insulating covering for the full width of the pipeline servitude/s. It is, however, recommended that in your own interest this protection be extended for a minimum distance of 30m on either side of Transnet's pipeline/s measured perpendicular to its axis/their axes.

For steel pipes 100mm diameter or larger two flexible test leads shall be provided by you to enable the monitoring of possible electrolytic corrosion to Transnet's pipeline/s. Each test lead shall comprise of a sufficient length of red PVC insulated wire of 35mm<sup>2</sup> section soldered or brazed onto your service/s and suitably re-insulated. Transnet Pipelines shall provide two black test leads from its pipeline/s as well as a junction box. All test leads shall terminate inside this junction box. Costs incurred will be to the applicant's account. Where applicable, quotations will be furnished on request.

13. Should authorisation be granted that work may proceed, Transnet Pipelines' representative must be contacted prior to any work being undertaken within Transnet's pipeline servitude/s. Details of contact person will be furnished when application is made to carry out work.
14. Transnet shall not be liable for any damage, including consequential loss or damage whether direct or indirect which might be caused to the applicant's service during normal operations, routine maintenance and repairs to the pipeline/s.
15. a) The APPLICANT shall and hereby does indemnify TRANSNET against -
  - i) any damage to TRANSNET's own property, whether movable or immovable, including any consequential damage directly flowing from physical damage to any such property;
  - ii) liability in respect of any damage to the property, whether movable or immovable of the APPLICANT or third parties;
  - iii) liability in respect of the death of or injury to any employees of TRANSNET or the APPLICANT or any third party;
  - iv) any legal costs or expenses reasonably incurred in connection with claims or actions arising out of any of the foregoing;

whenever such damage, injury or death is due to or arises out of the construction, installation or existence of the WORKS or any portion thereof, or the use thereof by the APPLICANT, provided that the APPLICANT shall incur no liability for any damage, injury or death which is due to wilful misconduct or gross negligence on the part of TRANSNET or any of its employees.

- b) TRANSNET shall notify the APPLICANT forthwith of the occurrence of any damage or the receipt of any claim or damage for or against which the APPLICANT is prima facie liable to indemnify TRANSNET in terms of paragraph (a) of the clause and shall, in respect of such claim or demand abide by the directions of the APPLICANT as to whether and on what terms it shall be settled, compromised or contested, it being understood and agreed that whatever action may be taken by TRANSNET pursuant to such directions of the APPLICANT shall be at the APPLICANT's risk and expense.

16. These conditions only apply to construction of the applicant's service across Transnet's pipeline servitude/s and do not grant you the right to do any excavations in future for repair or maintenance purposes. Should such future excavations within the servitude area/s be necessary permission will have to be requested timeously from this office. In cases of emergency, this office or Transnet Pipelines' representative as mentioned above, may be contacted telephonically for such permission.



PROVINCE OF KWAZULU - NATAL - ISIFUNDAZWE SAKWAZULU - NATALI

**DEPARTMENT OF TRANSPORT  
UMNYANGO WEZOKUTHUTHA**

Enquiries : MS N.A. Shawe  
Tel No : 031-4698900  
Date : 02 June 2011

Mr Russell Stow  
Arcus GIBB (Pty) Ltd  
PO Box 1365  
Westville  
Durban  
3630

Dear Mr R. Stow

**RE: ENVIRONMENTAL BASIC ASSESSMENT FOR THE PROPOSED INSTALLATION OF A TRUNK WATER MAIN, ASSAGAY**

Further to receipt of the Environmental Basic Assessment Report and a site inspection conducted on 6<sup>th</sup> April 2011 to assess the impact of the installation of a trunk water main in Assagay along Kassier Road (P454), please note the following:-

- The Kwazulu-Natal Department of Transport has no objection to the pipeline being constructed within the road reserve of Kassier Road (P454).
- No comments regarding the Draft BAR are noted.

Yours Sincerely

N. Shawe  
Control Technician



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Postal Address: Private Bag X02, Merebank, 4059 Republic of South Africa  
Tel: (27) (031) 4698900 Fax: (27) (031) 4690150

**COST CENTRE METRO**