Reference	Issue Raised	Raised By	Response
Issues Related to Traffic			
RF	Noted that the roads surrounding Metalloys are of poor quality and that the increase in traffic will decrease the quality of the road surface further.	W.S. Maybury	A traffic impact assessment was undertaken and can be found in Appendix 23 or as summarised in section 10.5. The baseline traffic scenario is described in section 6.13 and the impact of the M14 Furnace on traffic has been assessed in 12.1.15 and 15.2.15.
RF	Enquired whether the increase in traffic volumes will have an impact on the traffic delays on the surrounding areas.	W.S. Maybury	A traffic impact assessment was undertaken and can be found in Appendix 23 or as summarised in section 10.5. The baseline traffic scenario is described in section 6.13 and the impact of the M14 Furnace on traffic has been assessed in 12.1.15 and 15.2.15.
Issues Related to Noise			
RF	Noted that the noise could be a disturbance.	W.S. Maybury	A noise impact assessment was undertaken and can be found in Appendix 24 or as summarised in section 10.6. The baseline noise scenario is described in section 6.11 and the impact of the M14 Furnace on noise levels has been assessed in 12.1.11 and 15.2.11.
OD	Noted that the noise levels must be reduced near the communities.	R. Jones	A noise impact assessment was undertaken and can be found in Appendix 24 or as summarised in section 10.6. The baseline noise scenario is described in section 6.11 and the impact of the M14 Furnace on noise levels has been assessed in 12.1.11 and 15.2.11.
OD2	Noted that the noise from the industry affected the neighbouring communities.	B. Hlakotsa	A noise impact assessment was undertaken and can be found in Appendix 24 or as summarised in section 10.6. The baseline noise scenario is described in section 6.11 and the impact of the M14 Furnace on noise levels has been assessed in 12.1.11 and 15.2.11.
Issues Related to Visual			
OD	Enquired whether a visibility study will be undertaken for the M14 Furnace, as it is situated next to the community.	J.M. Mohosho	A visual impact assessment was not undertaken as the M14 Furnace will be located inside an existing building with additional auxiliaries and facilities required sited amongst the existing infrastructure.
Issues Related to Storage			
RF	Noted that the storage of hazardous goods could have a potential effect on the environment and humans.	W.S. Maybury	The Environmental Management Plan attached in Appendix 25 address the transportation, storage and handling of hazardous goods.
Issues Related to Health			
OD2	Enquired how often the industries confirm that the local communities are not being affected or infected by the air quality.	E.L. Botha	A heath risk assessment was undertaken and can be found in Appendix 20 or as summarised in section 10.2. The impact of the M14 Furnace has been assessed in 12.1.10 and 15.2.10.
OD2	Enquired whether Metalloys complies to the NOSA system.	R. Jones	Metalloys does not comply with NOSA, they do however comply with the BHP Billiton Management Standards.
Issues Related to Air Quality			
RF	Noted that the project will require permits amendments or issuance under APPA, and that compliance with Section 9 of APPA is required.	M. Lushaba	An application will be made in terms of the National Environmental Management: Air Quality Act (Act 39 of 2004) for an air emissions licence.
RF OD	Noted that Health and Air Quality is of particular concern.	W.S. Maybury K. Ramakau	A heath risk assessment was undertaken and can be found in Appendix 20 or as summarised in section 10.2. The impact of the M14 Furnace has been assessed in 12.1.10 and 15.2.10. An air impact assessment was undertaken and can be found in Appendix 18 or as summarised in section 10.1. The baseline scenario is described in section 6.10 and the impact of the M14 Furnace has been assessed in 12.1.9 and 15.2.9.
RF	Noted that the air quality study must take into account the fact that the Vaal Triangle is a priority area under NEMAQA.	P. van den Bon	The air impact assessment has taken cognisance of the Vaal Priority Airshed, as attached in Appendix 18.

Reference	Issue Raised	Raised By	Response
OD	Noted that the air quality must be continuously monitored.	R. Jones M. Ratsatsinyarie	Metalloys has a well-established monitoring network comprising: • Three TIOMS continuous monitoring stations for PM10. • Twelve dust fall out buckets monitoring PM10 on a monthly basis. Kindly note stack monitoring will be installed at the M14 Furnace.
OD	Concern that emission levels won't be cut down from what they currently are.	M. Mandy	The Emission Reduction Strategy (ERS) driven by the Air Quality Management Plan for the Vaal Triangle Air-shed Priority Area (VTAPA) identifies the required reduction by Metalloys. Please refer to the Environmental Management Plan attached in Appendix 25 for commitments made in terms of the air quality.
OD	Noted that there must be deadline dates for the implementation of projects to reduce emissions.	M. Mandy	The Emission Reduction Strategy (ERS) driven by the Air Quality Management Plan for the Vaal Triangle Air-shed Priority Area (VTAPA) identifies the required reduction by Metalloys.
OD	Noted that the local community experience more air pollution during winter, and that the community also contribute to the increased air pollution during winter.	S.E. Masoka	There is a relationship between air quality and temperature. In winter, pollution is often trapped during inversions (when a layer of warm air lies atop a layer of cold air) and until this arrangement is ended, the convection that normally carries away pollutants will not occur. The cooking and heating fires of the local community will add to the pollution during the winter. An air impact assessment was undertaken and can be found in Appendix 18 or as summarised in section 10.1. The baseline scenario is described in section 6.10 and the impact of the M14 Furnace has been assessed in 12.1.9 and 15.2.9.
OD	Noted that the M14 Furnace is situated next to the community and that the air pollution may have a negative effect on the environment where the community is living.	J.M. Mohosho M. Ratsatsinyarie	A heath risk assessment was undertaken and can be found in Appendix 20 or as summarised in section 10.2. The impact of the M14 Furnace has been assessed in 12.1.10 and 15.2.10. An air impact assessment was undertaken and can be found in Appendix 18 or as summarised in section 10.1. The baseline scenario is described in section 6.10 and the impact of the M14 Furnace has been assessed in 12.1.9 and 15.2.9.
OD	Enquired whether there will be continuous health inspections for the employees.	J.M. Mohosho	Employees and Contractors undergo: • Health, safety and environmental site induction prior to commencing with work on the site as per the Metalloys Conditions of Employment. • Undergo the prescribed medical examinations prior to entering/ exiting the site and annually as per the Metalloys Conditions of Employment. • Inductions and medical records are maintained.
OD	Enquired how the air quality/ health will influence the residential community and agriculture.	M.A. Saib	A heath risk assessment was undertaken and can be found in Appendix 20 or as summarised in section 10.2. The impact of the M14 Furnace has been assessed in 12.1.10 and 15.2.10. An air impact assessment was undertaken and can be found in Appendix 18 or as summarised in section 10.1. The baseline scenario is described in section 6.10 and the impact of the M14 Furnace has been assessed in

Reference	Issue Raised	Raised By	Response
			12.1.9 and 15.2.9.
OD	Enquired how the surrounding companies will be affected due to the air emissions blowing in their direction.	M. Naude	A heath risk assessment was undertaken and can be found in Appendix 20 or as summarised in section 10.2. The impact of the M14 Furnace has been assessed in 12.1.10 and 15.2.10. An air impact assessment was undertaken and can be found in Appendix 18 or as summarised in section 10.1. The baseline scenario is described in section 6.10 and the impact of the M14 Furnace has been assessed in 12.1.9 and 15.2.9.
OD2	Enquired whether dust bags is included in the monitoring.	R. Jones	Metalloys has a well-established monitoring network comprising: • Three TIOMS continuous monitoring stations for PM10. • Twelve dust fall out buckets monitoring PM10 on a monthly basis. Kindly note stack monitoring will be installed at the M14 Furnace
OD2	Enquired whether the air quality is continually monitored after hours and whether this information is in the public domain.	R. Jones	Metalloys has a well-established monitoring network comprising: • Three TIOMS continuous monitoring stations for PM10. • Twelve dust fall out buckets monitoring PM10 on a monthly basis. Kindly note that the monitoring data has been utilised in the air impact assessment undertaken and can be found in Appendix 18 or as summarised in section 10.1.
OD2	Noted that the air quality is affected the neighbouring communities.	B. Hlakotsa	A heath risk assessment was undertaken and can be found in Appendix 20 or as summarised in section 10.2. The impact of the M14 Furnace has been assessed in 12.1.10 and 15.2.10. An air impact assessment was undertaken and can be found in Appendix 18 or as summarised in section 10.1. The baseline scenario is described in section 6.10 and the impact of the M14 Furnace has been assessed in 12.1.9 and 15.2.9.
Issues Related to water			
OD	Enquired where the water will be going once it has been used.	S.E. Masoka	A technical review was undertaken and can be found in Appendix 17, the water balance is located in section 7.10.
OD	Enquired whether the ground water will be contaminated due to the sludge dam.	M. Naude	Sludge from West Plant will be deposited at the licenced New West Plant Sludge Dam or New North Plant Sludge Dam. Groundwater contamination is not expected as the Sludge Dams are lined with a primary and secondary system which can be summarised as follows: **Primary liner** The primary liner commenced with the placing of a 100mm thick leachate collection layer compromising 13/19mm aggregate on top of the secondary liner. A number of M65 geo-pipes were built into this layer and fall towards a collection sump located below the Penstock outlet tower for the dam. A 50mm fine soil was placed over the gravel, four x 150mm thick layers of "clay" compacted as before then followed, the clay was topped with 60mm of plaster sand on the basin of the dam with a U-64 geo-fabric on the sloping sides of the embankment. The primary liner was sealed with a 2mm thick HDPE membrane.

Reference	Issue Raised	Raised By	Response
			Secondary liner Starting at the bottom, 150m of in situ soil was ripped and compacted to 100% Proctor Density. The in situ material was followed by 2 x 150mm layers of "clay" compacted to 100% Proctor density at 25 above optimum moisture content. A 1mm thick HDPE membrane was then placed over the clay and covered with a 100m thick sand cushion.
OD2	Enquired about the borehole testing program surrounding the West Plant Sludge Dam.	R. Jones	In terms of the New West Plant Sludge Dam Waste Licence (Ref 12/9/11/L96/3), samples from boreholes SR11, SR12 and SR12A be analysed at biannual intervals for: • Alkalinity (P.Alk); • Chemical oxygen demand (COD); • pH; • Total dissolved solids (TDS); • Clorides (Cl); • Nitrate (NO_3-N); and • Potassium. and must be analysed at annual intervals for the following: • Electrical Conductivity (EC); • Calcium (Ca); • Magnesium (Mg); • Sodium (Na); • Sulphate (SO_4); • Fluoride (F); • Manganese (Mn); • Aluminium (Al); • Potassium (K); • Sodium (Na); and • Free Cynaide as CN.
OD2	Requested that the chemicals in the water must be removed.	B. Hlakotsa	Two Closed Circuit Cooling Water (CCCW) systems will be used for the furnace. In such systems water is circulated from a tank through pumps and a cooling tower to the various parts of the furnace that require cooling. The hot water returns to a tank. The level in the tank is maintained by Rand Water which is treated by a softener and appropriate dosing to minimise corrosion and fouling. Regeneration water and rinse water pass into the sludge water system.
Issue Related to the Operation			
RF	Enquired when will operation commence	A. Mecchi	Key dates for the M14 Furnace Project are: • Feb 2008 – May 2011 – Obtain environmental authorisation. • May 2011 to May 2012 – Construction activities. • June 2012 – Operation.
Issues Related to Social and Labour Aspects			
RF OD	Requested community labour empowerment.	S.T. Dhlomo Umshini Consultancy Services M. Oliphant M. Thabo	The recruitment process is undertaken by the Human Resources Department for further information please contact the Human Resources Superintendent at 016 360 2111.
OD	Requested that the stakeholders and local community should be used as the contractors for the projects.	L. Mashinini N.S. Matlhare M. Ratsatsinyane	The recruitment process is undertaken by the Human Resources Department for further information please contact the Human Resources Superintendent at 016 360 2111.

Reference	Issue Raised	Raised By	Response
OD	Enquired how the projects will provide job opportunities for the local community.	S.E. Masoka	The recruitment process is undertaken by the Human Resources Department for further information please contact the Human Resources Superintendent at 016 360 2111.
OD	Noted that the project will have a positive impact on the local economy, as the local community will be empowered and provided with job opportunities.	M.D. Mathonkha N.S. Matlhare D.T. Tshabalala	Thank you for this positive comment.
OD	Requested the all the information must be available in additional languages, such as South Sotho, Xhosa and other popular languages in Midvaal.	S.E. Masoka K. Ramakau D.N. Tshabalala	The Background Information Documents were distributed in English, Afrikaans and South Sotho. A translator was also present at the open days.
OD	Noted that the economic empowerment of the local community must be ensured.	M. Mtimkulu M.A. Nzaba P.Parks K.Ramakau	The recruitment process is undertaken by the Human Resources Department for further information please contact the Human Resources Superintendent at 016 360 2111.
OD	Noted that the youth and stakeholders in the surrounding community must be provided with the required skill to obtain employment.	P.Parks D.N. Tshabalala D.T. Tshabalala	The recruitment process is undertaken by the Human Resources Department for further information please contact the Human Resources Superintendent at 016 360 2111.
OD	Noted that the quality of life among the local community must be improved, through social responsibility.	K. Ramakau	The recruitment process is undertaken by the Human Resources Department for further information please contact the Human Resources Superintendent at 016 360 2111.
OD	Requested the establishment of an employment co-ordinating team, consisting of local stakeholders.	M. Thabo	The recruitment process is undertaken by the Human Resources Department for further information please contact the Human Resources Superintendent at 016 360 2111.
OD	Requested an employment strategy.	D.N. Tshabalala	The recruitment process is undertaken by the Human Resources Department for further information please contact the Human Resources Superintendent at 016 360 2111.
OD2	Enquired whether the community will benefit from the M14 Project.	M.B. Mamokete	The recruitment process is undertaken by the Human Resources Department for further information please contact the Human Resources Superintendent at 016 360 2111.
OD2	Requested the contact details for the Gauteng Department of Agriculture and Rural Development (GDARD).	F.B. Sawert	MEC Nandi Mayathula-Khoza - 011 355-1900
OD2	Requested that local labour must be used during the construction phase.	R. Jones	The recruitment process is undertaken by the Human Resources Department for further information please contact the Human Resources Superintendent at 016 360 2111.
OD2	Enquired whether labour will be sourced from outside areas for construction, and whether these labourers will be relocated back should they not have permanent employment after construction.	R. Jones	The recruitment process is undertaken by the Human Resources Department for further information please contact the Human Resources Superintendent at 016 360 2111.
Issues Related to Waste			
RF	Enquired whether solid waste is generated and what happens with the waste.	P. van den Bon	M14 Furnace will generate: • Slag waste that will be stockpiled of at the existing licenced Pre-Metrec Slag Stockpile • Sludge that will be directed to the existing Pelletising Plant or diverted to the existing licenced North or West Sludge Dams. • Dust that will be stockpiled of at the existing licenced Bagfilter Material Stockpiles. • Compactable Domestic will be disposed of at Simmer & Jack (occasionally at Platkop). • Building Rubble will be disposed of at Platkop or Simmer & Jack. • Industrial Dry waste will be disposed of at Platkop or Simmer & Jack.

Reference	Issue Raised	Raised By	Response
			• Spillage/Incident will be disposed of at Holfontein.
Issues Related to Technology			
RF	Enquired which alternative technologies are available and how do they compare with the proposed technology.	P. van den Bon	A technical review was undertaken and can be found in Appendix 17, the alternative technology has been evaluated in section 6.
Issues Related to Power Generation			
OD	The power issue must take serious consideration.	M. Joshua	Thank you, this has been noted.
Issues Related to Adjacent Landowners			
OD	Enquired how the project will affect neighbouring properties.	M.A. Saib	Please refer to the impact assessment contained in section 12.
OD	Noted that the projects will influence adjacent business plans negatively.	M.A. Saib	Thank you, this has been noted.