

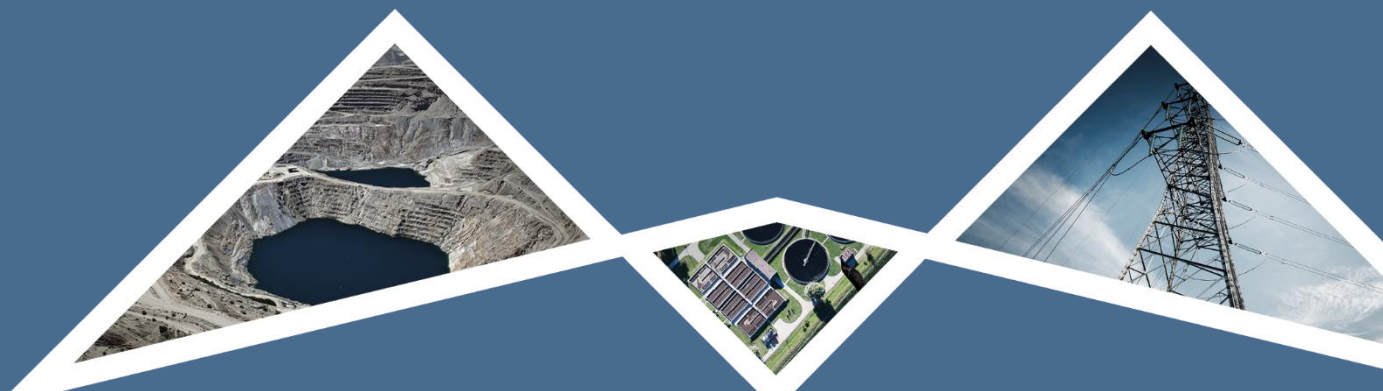


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T 011 789 7170 E info@eims.co.za W www.eims.co.za

PEGELO YA BOGOLO JWA TIKOLOGO -
TSHOBOKANYO YA KHUDUTHAMAGA
THUNGELA LEPHALALE COAL BED METHANE PROJECT

PASA REF NO: 12/4/17 PR





1 TSHOBOKANYO

Pegelo eno e neelana ka kakaretso ya maemo a a kwa godimo ya pegelo eno ya Tlhatlhubo. Mmadi o rotloediwa go sekaseka dikarolo tse di latelang tsa Pegelo e e feletseng ya Scoping fa go tlokega tshedimosetso e e oketsegileng kgotsa dintlha ka dintlha tse di farologaneng.

1.1 KAKARETSO YA POROJEKE

Thungela Operations Proprietary Limited, leloko la Thungela Resources Limited Group (morago ga moo e bidiwang Mokopi kgotsa Thungela) e rometse kopo ya Tokelo ya Tlhagiso (PR) go Petroleum Agency SA (PASA) ya methane ya malatlha (CBM) mo Lephallale Local Municipality, Limpopo Province, Afrika Borwa. Ditiro tsa patlisiso tsa historiki tse di tserweng go ya ka Tshwanelo ya Patlisiso (ER) di bontshitse motswedi wa CBM o o ka kgonang go dirisiwa le go ntshiwa. Mokopi o dirile kopo kwa PASA ya PR go ntsha le go tlhagisa (dirisa/solegelwa molemo) ke motswedi wa CBM.

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- *CBM ke mofuta wa gase ya tlhago e e ka bonwang go tswa mo mabolokelong a malatlha kgotsa mo mabolokelong a malatlha. Khase eno e dirwa Nakong ya go fetoga ga tlhago ga masaledi a dimela go nna magala ditsheng tsa ka tlas'a lefatshe, e leng thulaganyo e e bidiwang 'coalification'." go bopiwa ga magala. Fa malatlha a tlhaga, malatlha a tlala metsi mme gase ya methane e tshwarwa mo go yona*
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Thungela e ikaelela go ntsha motswedi wa CBM mo lefelong la PR ka dikgato. Ga jaana palogotlhe ya dikgato tsa tlhagiso di le 3 di solofetswe go fitlhelela tlhagiso e e tletseng ya tshimo e e akaretsang palogotlhe ya diheketara di le 134 302.6699 (ha). Kgato ya ntlha ya tlhagiso e na le didiba tsa tlhagiso di le 333 tse di tla golaganngwang ka netweke e e fitlhlilweng ya dipeipi go ya kwa lefelong la go baakanya gase. Kgato eno e tla akaretsa didiba di le 19 tse di leng teng tsa kgato ya patlisiso gammogo le didiba tse dintshwa tse di tla agiwang go ralala dithoto di le 20 tsa lefelo la EA, tsotlhe di ka nna 333 mme di le mo lefelong la diheketara di ka nna 20 443.

Lefelo la kopo la PR le EA le wela mo gare ga Masepala wa Selegae wa Lephallale (LM) le Masepala wa Setereke sa Waterberg (DM), Porofense ya Limpopo. Lefelo la tiriso ya EA le fitlhelwa ~14km kwa bokonebophirima jwa toropo ya Lephallale, 5km kwa bokone jwa Marapong, le ~11km kwa bokonebophirima jwa Onverwacht. Dikarolo tsa polase di le 20 tse di bopang kgato ya ntlha ya 1 ya ditiro tsa tlhagiso ke: Withoutpan 404 (Karolo 0); Paddakraal 405 (Karolo 0); Ganzepan 446 (Karolo 0); Vooruit 449 (Karolo 0); Schrikvoorby 445 (Karolo 0); Schrikvoorby 445 (Karolo 1); Gelykebult 450 (Karolo 0); Welgevonden 444 (Karolo 0); Eendragtpan 451 (Karolo 0); Grootpan 452 (Karolo 0); Elandsvley 453 (Karolo 0); Nooitgedacht 403 (Karolo 0); Bulklip 701 (Karolo 0); Bulklip 701 (Karolo 1); Leeuwfontein 400 (Karolo 0); Oliphantspad 255 (Karolo 0); Klimopfontien 223 (Karolo 0); Kurzabonakop 399 (Karolo 0); Kerryfontein 402 (Karolo 0); Waterval 169 (Karolo 0). Tse pedi (2) tsa dikarolo tseno tsa polase ke tsa poraefete, di le tharo (3) ke tsa Exxaro mme tse di setseng di le lesome le botlhanano (15) ke tsa Thungela.

Go tlhagisa CBM ka botlalo, go tshitshingwa go tlhotlhelediwa ka haeteroliki kgotsa go thubega ga haeteroliki ga meroko ya magala a a ikaeletsweng. Morago ga go tlhotlhelediwa, moroko wa magala o a ntshiwa metsi go fokotsa kgatelelo ya hydrostatic ya metsi mo teng ga moroko wa magala o o letlang gase go gololwa go ya kwa mosimeng. Go dira gase go akaretsa lefelo la go gatelela le go dira gore e nne seedi go tlhagisa setlhagiswa sa bofelo, e leng Gase ya Tlhago e e Seedi (LNG), e e tla anamisiwang kwa ntle ga lefelo ka dipalangwa tsa tsela. Tlhagiso e rulagantswe go tsaya paka ya dingwaga di le 30 go simolola ka letlha le dithebolo tsotlhe tse di maleba le dilaesense di amogetsweng ka lone.

1.1.1 TSHEKATSHEKO LE "5-SPOT" YA NTLHA

Ditiro tsa patlisiso tse di dirilweng ka fa tlase ga Tshwanelo ya Patlisiso ya ga Thungela di tlhomile motheo wa ntlha wa go supa bokgoni jwa setegeniki le jwa kgwebo jwa go epa CBM mo teng ga kgaolo ya Tshwanelo ya Tlhagiso (PR). Jaaka karolo ya ditiro tseno, Thungela o ne a aga 5-Spot ya ntlha mo polaseng ya Bulklip 701 mo

tshimologong ya dingwaga tsa bo-2000. Seno se ne se na le setlhopha sa didiba di le tlhano tsa CBM tse di neng di rotloediwa ka hydraulically mme di golagantswe le netweke e nnye ya go kgobokanya gase le metsi, yuniti ya kalafi ya metsi, le setheo se sennye sa go baakanya gase. 5-Spot e ne ya dirisiwa jaaka lefelo la teko la go bona gore a go ka direga pele ga nako mme ya tlhagisa tshedimose tso e e botlhokwa ya thutafatshe, ya tiriso le ya tlhagiso e e neng ya thusa go tlhama dikgato tse di latelang tsa porojeke.

1.1.2 BOSUPI JWA NTLHA JWA KGOPOLO (POC)

Go aga mo dipholo go tswa go 5-Spot ya ntlha, Thungela moragonyana o ne a tlhabolola 5-Spot ya bobedi mo polaseng ya Nooitgedacht 403 jaaka karolo ya lenaneo la phuruphutso. These wells were stimulated much later together with nine additional wells creating a functional 14-well wellfield. Didiba tseno di ne di rotloediwa ka hydraulically mme di golagantswe le lefelo la go baakanya gase le metsi. Didiba tseno di ne tsa tlhotlhedediwa moragonyana thata mmogo le didiba tse dingwe di le robongwe go tlhama lefelo le le dirang la didiba di le 14. Didiba; Setlhopha sa didiba di le 14 se ne se golagantswe le didiba di le 5 tsa ntlha, mme mmogo didiba di le 19 di ne tsa nna Bosupi jwa Kgopolo (PoC) jo bo atlegileng jwa khamphani, jo bo atlegileng jwa go bontsha bokgoni jo bo tsweleng jwa tlhagiso ya CBM, boleng jo bo tlhomameng jwa gase, le tlhagiso ya LNG ya selekanyo sa kgwebo ka fa tlase ga thulaganyo e e leng teng ya tikologo ya "37-Spot EA".

Bopaki jwa Mogopolo bo netefaditse kgonagalo ya go atolosa ditiro tsa CBM mo kgaolong ya Lephalale mme jaanong e bopa karolo e e botlhokwa ya Kgato ya 1 ya tlhagiso e e atolositsweng. Mo mabakeng a EIA e, Kgato ya 1 e na le didiba tse di ka nnang 333 ka kakaretso, mme palo eno e akaretsa:

- Didiba tse 19 di agilweng ka nako ya go batlisisa,
- Didiba tse dintšhwa tse di ka nnang 314 tse di tla bopang karolo ya tatelano ya tlhagiso ya Kgato ya 1.

Didiba tse di leng teng le mafaratlhatlha a a amanang le ona di tla tsennngwa mo kगतong ya tiro ya Kgato ya 1 mme di tla golagana le dinetweke tse di pharaletseng tsa go kgobokanya gase le metsi, didirisiwa tsa go baakanya le dithulaganyo tsa tlhagiso tsa nako e telele tse di tshitshingwang mo tlhabolong e e tletseng ya Kgato ya 1.

Kopanyo eno ya mafaratlhatlha a pelenyana a patlisiso le PoC go nna Kgato 1 e netefatsa tsweliso fa gare ga ditiro tsa go tlhagisa tshedimose tso tsa hisitori, sekao sa tiriso se se netefaditsweng, le thulaganyo ya tlhagiso e kgolo e e sekasekilweng jaaka karolo ya tiriso eno.

1.1.3 KGATO YA 1 (KOPO E)

Kgato eno e tla akaretsa dithoto di le 20 tse di tlhalositsweng fa godimo le go tsenya didiba tse dintšhwa le mafaratlhatlha a tlhagiso a CBM a a amanang le yone. Jaaka ntlha ya tshimologo Thungela e supile mkgwa o o tshwanang wa keriti ya didiba o o akaretsang kgaolo ya tiriso ya EA ka kitlano ya didiba di le 1 mo diheketareng di le 40/16 kgotsa 400m go tswa mo go tse dingwe mo Bokone-Borwa, Botlhaba-Bophirima.

Lefelo la mafelo a didiba le le lengwe le tla tlhalosiwa, sa ntlha ke lefelo la motswedi o o lebisitsweng (k.g.r. boteng le go nna teng ga maroko a malatlha) mme sa bobedi, go ela tlhoko dikgoreletsi tsa sebopego kgotsa tsa tikologo tse di ka tlhagelelang mo lefelong le le rileng. Dikao tsa dikgoreletsi tse di tla, fa go kgonega, di ka tilwa fa go tlhomiwa mafelo a didiba di ka akaretsa, mme go sa lekanyediwe go:

- Diponagalo tse di bosisi tsa biophysical le tikologo, jaaka mafelo a a metsi, melatswana ya metsi, metswedi, mafelo a a bosisi a bodulo kgotsa mefuta e e amegang ka tshomarelo, etc.
- Dintlha tse di masisi tsa loago le setso: tiriso ya lefatshe e e leng teng e e ka nnang e sa tsamaisane le mafaratlhatlha a didiba (sekao: magae), mafelo a mabitla kgotsa mabitla, mafelo a thutamarope kgotsa paleontological, jalo le jalo.
- Diponagalo tsa thutafatshe kgotsa tsa sebopego, tse di jaaka mela ya diposo, mafelo a go sa tlhomamang ga thutafatshe, dithaba tse di tlhomameng, kgotsa dithaba tse di nang le matlapa.

Didiba tse di farologaneng di tla golagangwa le netweke ya go kgobokanya gase ka dipeipi tsa gase tse di ka fa tlase ga lefatshe mme dipeipi tsa go ntsha metsi di tla nna mo ditseleng tse di tshwanang le tsa dipeipi tsa gase. Di-peipi di tla tsamaisa gase go ya kwa setemeng sa LNG go baakanya gase le metsi go ya kwa seteisheneng sa

phepafatso ya metsi go alafa metsi. Ditlhopho tse di farologaneng di tla sekasekiwa mo thulaganyong eno ya EIA ya tiriso kgotsa go latlwa ga metsi a a phepafaditsweng go supa tiriso e e siameng ya motswedi ono.

Thungela o dirile kopo kwa bothating jo bo maleba jo bo tlhomilweng, e leng PASA, jwa EA ya Tshwanelo ya Tlhagiso ka kakaretso le kgato ya ntlha ya tlhagiso (ke gore didiba di le ~333 le mafaratlhatlha a a amanang le tsona). Mafaratlhatlha a a akaretsang dikgato tse di setseng mo tshwanelong ya tlhagiso ga a akarediwe mo EIA e mme a tla tlhoka go sekasekwa le go dirisiwa ka go farologana fa tlhokego ya katoloso eno le dikgato tsa isagwe di tlhaga.

EIMS e tlhomilwe ke Thungela go diragatsa seabe sa EAP e e ikemetseng mo go tseyeng thulaganyo ya EIA go tshegetsa dikopo tsa dithebolo tse di tlhokegang tsa taolo ya tikologo. Ditumalano tseno di akaretsa, mme ga di a lekanyediwa mo go:

- EA go ya ka NEMA;
- Lenaneo la Tsamaiso ya Tikologo (EMPr) go ya ka MPRDA;
- WUL go ya ka NWA;
- WML in terms of the NEMWA; le
- AEL go ya ka NEMAQA (Fa go tshwanela).

1.2 TLHOKEGO YA POROJEKE ENO

Lethomeso la thulaganyo e e golagantsweng ya metswedi ya tlhago ya Aforika Borwa le na le botlhokwa jo bo botlhokwa mo go lokafatseng tlhabololo ya metswedi ya gase ya tlhago mo nageng. Sa ntlha, lethomeso le gatelela botlhokwa jwa go farologana ga maatla, mme gase ya tlhago, e le motswedi wa motlakase o o phepa le o o siameng mo tikologong fa go bapisiwa le malatlha, e tsamaisana sentle le maikaelelo a. Ka go kopanya gase ya tlhago mo lephateng la maatla, Aforika Borwa e ka fokotsa kgase ya khabone le go tlhabolola potefolio ya motlakase e e tsweleng. Sa bobedi, ditsholofelo tsa kgolo ya ikonometri tse di amanang le tlhabololo ya gase ya tlhago di kwa godimo, mme di ngoka dipeeletso go ralala ketane yotlhe ya boleng, go simolola ka patlisiso le go epa go ya go tlhabololo ya mafaratlhatlha. Mo godimo ga moo, tiriso e e anameng ya gase ya tlhago go ralala madirelo, go fetlha motlakase le dipalangwa go na le bokgoni jwa go rotloetsa go tlhola ditiro le go rotloetsa ditiro tsa ikonometri. Sa boraro, go lemoga botlhokwa jwa tshireletsego ya maatla, lethomeso le amogela gore gase ya tlhago e ka dira jaaka motswedi wa maatla o o ikanyegang le o o fetofetogang, o o kgonang go dira jaaka tshegetso ka dinako tsa tlhokego e e kwa godimo le go tlatsa metswedi ya motlakase e e ntšhwafaditsweng.

Mo godimo ga moo, lethomeso le le golagantsweng la metswedi le baya kgatelelo e kgolo mo tikologong, ka gase ya tlhago e bonwa jaaka motswedi wa maatla wa phetogo o o ka thusang go fokotsa go ikaega ga Aforika Borwa mo malatlhang, e leng seabe se segolo mo kgotleng ya mowa le digase tse di tswang mo tikologong. Ka jalo, go fetogela kwa gase ya tlhago go ka nolofatsa tlhagiso ya motlakase o o phepa, go tsamaisana le maikaelelo a lefatshe ka bophara.

Kwa bokhutlong, lethomeso le le golagantsweng la metswedi ya Aforika Borwa le tsamaisana le pharologano ya maatla, kgolo ya ikonometri, tshireletsego ya maatla, tshomarelo ya tikologo, tlhabololo ya metselegae, kgogedi ya dipeeletso tsa dinaga di sele le bokgoni jwa thomelontle e e gatelelang seabe sa yona mo ikonoming go siamisana tlhabololo ya metswedi ya gase ya tlhago mo Aforika Borwa.

1.3 DITHUTO TSA BAITSEANAPE

Jaaka karolo ya EIA e, dipatlisiso di le mmalwa tsa boitseanape di dirilwe go batlisisa ditlamorago tse di botlhokwa tse di tlhokang dipatlisiso tse di oketsegileng. Dipatlisiso dingwe le dingwe tsa tlaleletso tse di ka

lemogiwang mo nakong ya thulaganyo ya go sekaseka le go rerisana di tla sekasekiwa le go akarediwa mo kगतong ya EIA. Lenaane la dipatlisiso tsa pele tsa boitseanape ke tse di latelang:

- Boleng jwa mowa le phetogo ya tlelaemete
- Ikonomi
- **Tsa metsi a a kafa tlase ga lefatshe**
- **Boswa le Thutofosili**
- **Tsa metsi a a mo godimo ga lefatshe**
- Modumo
- Loago
- Tsa ditshedi le tikologo
- **Tsa ponalo ya naga**
- **Metsi le Lefelo le lemetsi (Wetland)**
- **Mmu, Temothuo le Thutotshelo ya metsi mo mmung**
- **Thulaganyo e e Kotsi Thata - Tekolo ya Boleng ba Dikotsi**
- **Thoromo ya lefatshe kgotsa/dikotsi tsa thoromo ya lefatshe**
- Dipalangwa

1.4 DITLAMORAGO TSE DI SUPIWENG LE TSHOBOKANYO YA TSHEKATSHEKO YA DIKATLAMO

Go ikaegile ka mofuta le bogolo jwa mafaratlhatlha a porojeke a a tshitshinngwang gammogo le tikologo e e amogelang, ditlamorago tsa pele di supilwe le go sekasekwa mo tshekatshekong eno ya kgato ya tlhatlhobo. Dipholo tsa ditherisano tsa setšhaba di tla dirisediwa go tlhabolola ditlamorago tse di ka nnang teng (sekao, go akaretsa ditlamorago tsa tlaleletso) tse di tla tokafadiwang gape mo thulaganyong ya tshekatsheko le ditherisano tsa EIA. Ditlamorago tse di ka nnang teng tsa tikologo di ne tsa lemogiwa ka nako ya thulaganyo ya tlhatlhobo, mme ditlamorago tseno di ne tsa lemogiwa ke EAP ka tirisano mmogo le baitseanape ba ba tlhomilweng.

Ditlamorago di supilwe mo dikgatong tse di farologaneng tsa porojeke, e leng, maano, kago, tiragatso, go tloisiwa, tsosoloso le go tswalwa. Mokgwa o anameng wa mokgwa wa go lekanyetsa botlhokwa ke go tlhomamisa kotsi ya tikologo ka go akanyetsa ditlamorago tsa tshusumetso nngwe le nngwe (go akaretsa mofuta, bogolo, nako, bogolo, le go boela morago) le go amanya se le kgonagalo/kgonagalo ya tshusumetso e diragalang. Ditlamorago di ka nna tse di siameng kgotsa tse di sa siamang ka tlhago. Thulaganyo eno ya tshekatsheko e tlhomamisa kotsi ya tikologo. Mo godimo ga moo, dintlha tse dingwe, go akaretsa ditlamorago tse di kopaneng le kgonagalo ya tatlhegelo e e sa fetogeng ya metswedi, di dirisediwa go tlhomamisa ntlha ya go baya kwa pele e e dirisiwang mo kotsing ya tikologo ya morago ga phokotso go tlhomamisa botlhokwa jwa kakaretso jwa thulo. Bokao ka kakaretso bo arogantswe jaaka bo bo kwa tlase, jo bo magareng kgotsa jo bo kwa godimo mme bo tla dira mo ditlamorago tse di siameng le tse di sa siamang tse di lemogilweng.

Go ikaegilwe ka ditiro tsa porojeke, lenaane la kgato ya go sekaseka la ditlamorago tse di ka nnang teng tse di supilweng pele ga nako tsa dithitokgang tse di rileng tsa tikologo le dikgato tsa porojeke le kwadilwe fa tlase.

Tiro ya Porojeke	Kgato	Kgono kgotsa Kamego e e ka Diregang	Setlhogo sa Tikologo
Dipatlisiso tsa ntlha tsa lefelo le thulaganyo ya thulaganyo.	Thulaganyo	Tatlhegelo ya bokgoni jwa mmu, kgogolego ya mmu, kgogolego ya mmu, tshenyego ya mmu	Mmu
		Tshenygo ya ditsela tsa temothuo, ditirelo tse di leng teng le mafaratlhatlha	Loago

Tiro ya Porojeke	Kgato	Kgono kgotsa Kamego e e ka Diregang	Sethogo sa Tikologo	
Dipalangwa tsa dipalangwa.		Ditlamorago tse di amang pabalesego le pabalesego ya baagi ba selegae.		
		Tshekatsheko e e amanang le pabalesego e e amanang le tthagiso ya gase.		
		Modumo o o oketsegileng ka ntlha ya go oketsega ga modumo le modumo o o oketsegileng.		
		Ditlamorago tsa pharakano mo bathong – lorole, modumo, pabalesego – go tswa mo ponong ya loago le ya go tshwenya		
		Ditlamorago tse di amang matshelo a beng ba masimo		
		Ditlamorago tsa tetla ya go dira mo setšhabeng		
		Go tsena ga batho – gape go ka nna le go kgaogana ga loago le go farologana ga ditso, koketsego ya HIV/AIDS.		
		Seabe mo ikonoming ya Aforika Borwa		
		Ditlamorago tsa Tshireletsego ya Motlakase		Ikonomi
		Kgolo ya Ikonomi ya Selegae le Tlhabololo ya Magae		
		Job Creation and Home Income		
		Tshebediso ya ditjhelete tsa kantle ho naha le poloko ya forex		
		Kgolo ya baagi le kgatelelo mo mafaratlhatlheng a selegae		
Ditlamorago tsa bojanala le tiriso e e farologaneng ya lefatshe				
Kago ya ditsela tsa go tsena	Kago	Tshenyego, tatlhegelo e e oketsegileng le go kgaogangwa ga setšhaba sa dimela	Ikholoji	
Kampo ya go aga le go aga dikampa tsa go aga		Mefuta e e farologaneng ya dimela tse di farologaneng, segolobogolo dimela tse di farologaneng.		
		Kgogolego e e bakwang ke phefo le phefo		
		Go fudusiwa ga setšhaba sa diphologolo ka ntlha ya tatlhegelo ya bonno, dintsho tse di thamaletseng le kgoreletso (thulano ya tsela, modumo, lesedi, lorole, thothomelo le go tsoma diphologolo).		
Go phepafatsa lefelo la sediba, go tlhoma, go epa, go tlhotlheletsa.		Tatlhegelo ya bodulo jwa metsi	Dinoka le metsi	
		Phokotsego ya boleng jwa metsi a a kwa godimo		
		Disruption of watercourse hydrology		
Phetiso ya metsi, kalafi le go latlha ga metsi.		Tatlhegelo ya bokgoni jwa mmu, kgogolego ya mmu, kgogolego ya mmu, tshenyego ya mmu	Mmu	
		Tshenyego ya ditsela tsa temothuo, ditirelo tse di leng teng le mafaratlhatlha		Loago
		Ditlamorago tse di amang pabalesego le pabalesego ya baagi ba selegae.		
Gas & Water Pipeline Construction ke gane		Tshekatsheko e e amanang le pabalesego e e amanang le tthagiso ya gase.		
		Modumo o o oketsegileng ka ntlha ya go oketsega ga modumo le modumo o o oketsegileng.		
		Ditlamorago tsa pharakano mo bathong – lorole, modumo, pabalesego – go tswa mo ponong ya loago le ya go tshwenya		
Kago ya mafaratlhatlha a kabo ya motlakase.	Ditlamorago tse di amang matshelo a beng ba masimo			
	Ditlamorago tsa tetla ya go dira mo setšhabeng			
	Go tsena ga batho – gape go ka nna le go kgaogana ga loago le go farologana ga ditso, koketsego ya HIV/AIDS.			
LNG Plant and booster / compressor station construction.	Seabe mo ikonoming ya Aforika Borwa			
	Go kgoreletsa: Dipopego tsa Hisetori - Metheo ya dipopego tsa Hisetori		Boswa	
	Go kgoreletsa: Dipopego tsa Hisetori - Kraals			
Dipalangwa tsa dipalangwa.	Go kgoreletsa: Dikago tsa Hisetori - Mesima			
	Go kgoreletsa: Dikago tsa Hisetori - Go epolotswe pit			
	Go kgoreletsa: Mafelo a Boepi - Lefelo le le lengwe le le bonweng			
Poloko le go latlha ga matlakala.	Go kgoreletsa: Mafelo a Boepi - Lefelo la Motlha wa Tshipi	Hydrology (metsi a a kwa godimo)		
	Kgogolego ya mmu			
	Ditshilafalo tse di tsenang mo tikologong ya metsi a a kwa godimo			
	Koketsego ya kelelo ya metsi			
	Kgonagalo ya merwalela e e oketsegileng			
	Go senyega ga metsi a ka fa tlase ga lefatshe le go nna seretse ka ntlha ya kgotlhelo ya metsi a pula go tswa kwa lefelong la kago.		Geohydrology (Metsi a a ka fa tlase ga lefatshe)	
	Boleng jo bo boko a jwa leachate bo ka tswa mo kampeng ya kago e e ka nnang le ditlamorago tse di sa siamang mo boleng jwa metsi a a fa fatshe.			
Go kokoanya le go tlhokomela dikoloi tse di bokete le metšhini mo lefelong go ka baka kgotlhelo ya haeterokhabone ya metswedi ya metsi a a ka fa tlase ga lefatshe.				

Tiro ya Porojeke	Kgato	Kgono kgotsa Kamego e e ka Diregang	Sethogo sa Tikologo
		Tshomarelo e e sa siamang le taolo ya dikhemikale tse di kotsi mo lefelong e ka baka kgotlelelo ya metsi a a ka fa tlase ga lefatshe.	
		Go ntsha metsi mo aquifer e e ikaeletseng ya malatla go ka nna le ditlamorago tse di sa siamang mo metsing a a ka fa tlase ga lefatshe le mo dilekanong tsa metsi a a fa godimo ga lefatshe. Go fokotsega ga maemo a metsi a ka fa tlase ga lefatshe ka ntlha ya go fokotsega ga polokelo ya aquifer go ka baka go bopega ga khounu ya kgatelelo ke gore, kgaolo ya tlotlhetso ya metsi a ka fa tlase ga lefatshe mme ka jalo go fokotsega ga maemo a phreatic/piezometric a kgaolo.	
		Go fuduga ga metsi a ka fa tlase ga lefatshe a a letswai go tswa mo aquifer e e boteng, e e thubegileng go ya kwa (di)aquifer tse di kwa godimo, tse di nowang ka nako ya kgato ya thagiso ya gase.	
		Go fuduga ga gase e e sa tlhomamang go tswa kwa aquifer e e kwa teng, e e thubegileng go ya kwa (di)aquifer e e kwa godimo, e e nowang ka nako ya kgato ya go thagisa gase.	
		Ditlamorago tsa Tshireletsego ya Motlakase	Ikonomi
		Kgolo ya Ikonomi ya Selegae le Tihabololo ya Magae	
		Go Tlhama Ditiro le Lotseno lwa kwa Gae	
		Tshebediso ya ditjhelete tsa kantle ho naha le poloko ya forex	
		Kgolo ya baagi le kgatelelo mo mafaratlhatlheng a selegae	
		Ditlamorago tsa bojanala le tiriso e e farologaneng ya lefatshe	
		Ditlamorago mo metswedeng ya dilo tsa bogologolo	Palaeontology
		Phokotsego ya boleng jwa mowa o o mo tikologong	Boleng jwa mowa
		Koketso Modumo	Modumo
		Tshenyego e e oketsegileng ya naga ya selegae	Tsa pono
		Go senyega ga dipono go tswa mo R33 le R572 gaufi le lefelo le le tshitshintsweng	
		Tshenyego e e oketsegileng ya tikologo jaaka e bonwa go tswa mo ditseleng tse di bapileng le tsone	
		Tshenyego e e oketsegileng ya naga ya selegae jaaka e bonwa go tswa mo magaeng	
		Go senyega ga dipono go tswa kwa Dipolokelong tsa Tlhago tsa Poraefete tsa Olifantspad le Gideon Troskie	
		Lesedi La Rona Le Na Le Ditlamorago Tse di Sa Siamang	
		Thoromo ya lefatshe kgotsa e e tlotlhetsoang thoromo ya lefatshe	Thoromo ya lefatshe
		Tshenyego ya ditsela tse di leng teng / ditselana tse di leng teng	Dipalangwa
		Pitlagano ya pharakano	
		Pabalesego ya badirisi ba tsela	
Go tlhokomela le go tlhokomela dipeipi le dipeipi.	Operation	Go tswela go tselela ga setšhaba sa dimela tsa selegae ke mefuta ya dimela tse di tseletseng gammogo le kgogolego ka ntlha ya mmu o o tshwengwang	Ikholoji
Phetiso ya metsi, kalafi le go latlwa ga metsi.		Go fuduga le go kgaogangwa ga setšhaba sa diphologolo (go akaretsa mefuta e e mo kotsing) ka ntlha ya dikgoreletsi tse di tsweleng tsa anthropogenic (modumo, lorole le thothomelo) le go senyega/tatlhegelo ya bonno (matlakala, dintsho tsa mo tseleng le/kgotsa go tsoma dipholo).	
Dipalangwa tsa dipalangwa.		Tatlhegelo ya bodulo jwa metsi	Dinoka le metsi
LNG Plant Operations		Phokotsego ya boleng jwa metsi a a kwa godimo	
		Disruption of watercourse hydrology	
		Tatlhegelo ya bokgoni jwa mmu, kgogolego ya mmu, kgogolego ya mmu, tshenyego ya mmu	Mmu
Poloko le go latlwa ga matlakala.		Tshenyego ya ditsela tsa temothuo, ditirelo tse di leng teng le mafaratlhatlha	Loago
		Ditlamorago tse di amang pabalesego le pabalesego ya baagi ba selegae.	
		Tshekatsheko e e amanang le pabalesego e e amanang le thagiso ya gase.	
		Modumo o o oketsegileng ka ntlha ya go oketsega ga modumo le modumo o o oketsegileng.	
		Ditlamorago tsa pharakano mo bathong – lorole, modumo, pabalesego – go tswa mo ponong ya loago le ya go tshwenya	
		Ditlamorago tse di amang matshelo a beng ba masimo	
		Ditlamorago tsa tetla ya go dira mo setšhabeng	

Tiro ya Porojeke	Kgato	Kgono kgotsa Kamego e e ka Diregang	Sethogo sa Tikologo
		Kokotlego ya batho – go ka direga gore go nne le thubego ya loago le go farologana ga merafo, kokotsego ya HIV/AIDS jalo jalo."	
		Seabe mo ikonoming ya Aforika Borwa	
		Kgogolego ya mmu	Hydrology (metsi a a kwa godimo)
		Ditshilafalo tse di tsenang mo tikologong ya metsi a a kwa godimo	
		Increase in runoff	
		Kgonagalo ya merwalela e e oketsegileng	
		Go ntsha metsi mo aquifer e e ikaeletsweng ya malatlha go ka nna le ditlamorago tse di sa siamang mo metsing a a ka fa tlase ga lefatshe le mo dilekanong tsa metsi a a fa godimo ga lefatshe. Go fokotsega ga maemo a metsi a a ka fa tlase ga lefatshe ka ntlha ya go fokotsega ga polokelo ya aquifer go ka baka go bopega ga khounu ya kgatelelo ke gore, kgaolo ya tshotlheletso ya metsi a a ka fa tlase ga lefatshe mme ka jalo go fokotsega ga maemo a phreatic/piezometric a kgaolo.	Geohydrology (Metsi a a ka fa tlase ga lefatshe)
		Go fuduga ga metsi a a ka fa tlase ga lefatshe a a letswai go tswa mo aquifer e e boteng, e e thubegileng go ya kwa (di)aquifer tse di kwa godimo, tse di nowang ka nako ya kgato ya tshagiso ya gase.	
		Go fuduga ga gase e e sa tlhomamang go tswa kwa aquifer e e kwa teng, e e thubegileng go ya kwa (di)aquifer e e kwa godimo, e e nowang ka nako ya kgato ya go tshagisa gase.	
		Kgotlelelo ya metsi a a ka fa tlase ga lefatshe ka ntlha ya go tshologa ga metsi le go elela go tswa mo mafelong a polokelo ya metsi a a leswe.	
		Boleng jo bo bokoja jwa leachate bo ka tswa mo kgaolong ya maoto a sejalo se se ka nnang le ditlamorago tse di sa siamang mo boleng jwa metsi a a kwa tlase ga lefatshe.	
		Go kokoanya le go tlhokomela dikoloi tse di bokete le metšhini mo lefelong go ka baka kgotlhelo ya haeterokhabone ya metswedi ya metsi a a ka fa tlase ga lefatshe.	
		Tshomarelo e e sa siamang le taolo ya dikhemikale tse di kotsi mo lefelong e ka baka kgotlelelo ya metsi a a ka fa tlase ga lefatshe.	
		Go dutla ga dilo tse di kotsi go tswa mo ditankang, dipeipi kgotsa didiriswa tse dingwe go ka baka kgotlelelo ya metsi a a ka fa tlase ga lefatshe.	
		Ditlamorago tsa Tshireletsego ya Motlakase	Ikonomi
		Kgolo ya Ikonomi ya Selegae le Tlhabololo ya Magae	
		Go Tlhama Ditiro le Lotseno lwa kwa Gae	
		Tshebediso ya ditjhelete tsa kantle ho naha le poloko ya forex	
		Kgolo ya baagi le kgatelelo mo mafaratlhatlheng a selegae	
		Ditlamorago tsa bojanala le tiriso e e farologaneng ya lefatshe	
		Phokotsego ya boleng jwa mowa o o mo tikologong	Boleng jwa mowa
		Koketso Modumo	Modumo
		Tshenyego e e oketsegileng ya naga ya selegae	Tsa pono
		Tshenyego ya ponalo ya naga go tswa mo ditseleng tsa R33 le R572 gaufi le setsha se se tshitshinngwang.	
		Tshenyego e e oketsegileng ya tikologo jaaka e bonwa go tswa mo ditseleng tse di bapileng le tsone	
		Tshenyego e e oketsegileng ya naga ya selegae jaaka e bonwa go tswa mo magaeng	
		Go senyega ga dipono go tswa kwa Dipolokelong tsa Tlhago tsa Poraefete tsa Olifantspad le Gideon Troskie	
		Lesedi La Rona Le Na Le Ditlamorago Tse di Sa Siamang	
		Thoromo ya lefatshe kgotsa e e tshotlheletsang thoromo ya lefatshe	Thoromo ya lefatshe
		Tshenyego ya ditsela tse di leng teng / ditselana tse di leng teng	Dipalangwa
		Pitlagano ya pharakano	
		Pabalesego ya badirisi ba tsela	
Go tloswa ga mafaratlhatlha a porojeke.	Go tloswa	Tatlhegelo ya bokgoni jwa mmu, kgogolego ya mmu, kgogolego ya mmu, tshenyego ya mmu	Mmu
Well sealing and concrete		Tshenyego ya ditsela tsa temothuo, ditirelo tse di leng teng le mafaratlhatlha	Loago
		Ditlamorago tse di amang pabalesego le pabalesego ya baagi ba selegae.	

Tiro ya Porojeke	Kgato	Kgono kgotsa Kamego e e ka Diregang	Sethogo sa Tikologo	
<p>batching.</p> <p>Dipalangwa tsa dipalangwa.</p> <p>Go latlwa ga matlakala.</p>		Tshekatsheko ya setšhaba ka ga pabalesego ka nako ya ditiro tsa go kgaolwa		
		Modumo o o oketsegileng ka ntlha ya go oketsega ga modumo le modumo o o oketsegileng.		
		Ditlamorago tsa pharakano mo bathong – lorole, modumo, pabalesego – go tswa mo ponong ya loago le ya go tshwenya		
		Ditlamorago tse di amang matshelo a beng ba masimo		
		Ditlamorago tsa tetla ya go dira mo setšhabeng		
		Go tseba ga batho ba bantsi – go ka baka gape go rethefala ga loago, go farologana ga merafo, le go gola ga malwetse a a ja ka HIV/AIDS jalo.		
		Seabe mo ikonoming ya Aforika Borwa		
		Kgogolego ya mmu		Hydrology (metsi a a kwa godimo)
		Ditshilafalo tse di tsenang mo tikologong ya metsi a a kwa godimo		
		Increase in runoff		
		Kgonagalo ya merwalela e e oketsegileng	Geohydrology (Metsi a a ka fa tlase ga lefatshe)	
		Go fokotšega ga ditlamorago tša go ntšha metsi, go tlatša metsi gape ka morago ga ditiro le go tlaa ga meralo ya malahla ya ka tlase ga mmu mo go ka tlišang go phagama gape ga 'hydraulic head' ya lefelo le maemo a metsi a selete		
		Metsi a boleng bjo bo bokoa a a tšwago go 'sulphide bearing minerals' tšeo di amanago le meralo ya mahlala yeo e ntšhitšwego metsi, mo go tlogo ba le kamego e mpe go boleng bja metsi a ka tlase ga mmu.		
		Migration of saline groundwater from the deep, fractured aquifer to the overlying, potable aquifer(s) during the borehole closing and decommissioning phase.		
		Go tšhaba ga khase go tšwa ka mo gare ga 'fractured aquifer' ya ka tlase ga mmu go ya go efe kapa efe ya 'potable aquifer' ya ka godimo, ge e ba didiba tša khase di sa tswalwa sentle.		
		Kgotlelelo ya metsi a a ka fa tlase ga lefatshe ka ntlha ya go tshologa ga metsi le go elela go tswa mo mafelong a polokelo ya metsi a a leswe.		
		Boleng jo bo bokoa jwa leachate bo ka tswa mo kgaolong ya maoto a sejalo se se ka nnang le ditlamorago tse di sa siamang mo boleng jwa metsi a a kwa tlase ga lefatshe.		
		Go tlošwa ga dirori tse di bokete le metšhine jaaka karolo ya kgato ya go tloša mo lefelong go ka baka kgotlelelo ya hydrocarbon ya metswedi ya metsi a a fa fatshe.		
		Ditlamorago tsa Tshireletsego ya Motlakase		Ikonomi
		Kgolo ya Ikonomi ya Selegae le Tlhabololo ya Magae		
		Phokotso ya lotseno lwa badiri le malapa		
		Tshebediso ya ditjhelete tsa kante ho naha le poloko ya forex		
		Kgolo ya baagi le kgatelelo mo mafaratlhatlheng a selegae		
Ditlamorago tsa bojanala le tiriso e e farologaneng ya lefatshe				
Phokotsego ya boleng jwa mowa o o mo tikologong	Boleng jwa mowa			
Koketso Modumo	Modumo			
Thoromo ya lefatshe kgotsa e e tlhotlheletsang thoromo ya lefatshe	Thoromo ya lefatshe			
Tshenyego ya ditsela tse di leng teng / ditselana tse di leng teng	Dipalangwa			
Kgotlagano ya Dipalagwa(Traffic congestion)				
Pabalesego ya badirisi ba tselo				
<p>Soil reinstatement.</p> <p>Ripping of compacted soils.</p> <p>Peo le go tlhomiwa ga dimela.</p> <p>Dipalangwa tsa dipalangwa.</p>	Tsosoloso le go tswalwa	Tatlhegelo ya bokgoni jwa mmu, kgogolego ya mmu, kgogolego ya mmu, tshenyego ya mmu	Mmu	
		Tshenyego ya ditsela tsa temothuo, ditirelo tse di leng teng le mafaratlhatlha	Loago	
		Ditlamorago tse di amang pabalesego le pabalesego ya baagi ba selegae.		
		Tshekatsheko ya setšhaba ka ga pabalesego ka nako ya ditiro tsa go kgaolwa		
		Modumo o o oketsegileng ka ntlha ya go oketsega ga modumo le modumo o o oketsegileng.		
		Ditlamorago tsa pharakano mo bathong – lorole, modumo, pabalesego – go tswa mo ponong ya loago le ya go tshwenya		
		Ditlamorago tse di amang matshelo a beng ba masimo		
Ditlamorago tsa tetla ya go dira mo setšhabeng				

Tiro ya Porojeke	Kgato	Kgono kgotsa Kamego e e ka Diregang	Setlhogo sa Tikologo
		Go tseba ga batho – gape go ka nna le go kgaogana ga loago le go farologana ga ditso, koketsego ya HIV/AIDS.	
		Seabe mo ikonoming ya Aforika Borwa	
		Kgogolego ya mmu	Hydrology (metsi a a kwa godimo)
		Ditshilafalo tse di tsenang mo tikologong ya metsi a a kwa godimo	
		Koketsego ya kelelo ya metsi	
		Kgonagalo ya merwalela e e oketsegileng	
		Ditlamorago tsa Tshireletsego ya Motlakase	Ikonomi
		Kgolo ya Ikonomi ya Selegae le Tlhabololo ya Magae	
		Phokotso ya lotseno lwa badiri le malapa	
		Tshebediso ya ditjhelete tsa kante ho naha le poloko ya forex	
		Kgolo ya baagi le kgatelelo mo mafaratlhatlheng a selegae	
		Ditlamorago tsa bojanala le tiriso e e farologaneng ya lefatshe	

Go latela ditlamorago tse di fa godimo tsa biophysical le tsa loago le ikonomi tse di supilweng le go lekwa mo kgatong eno ya go Sekaseka, kotsi ya tikologo ya pele ga phokotso, kotsi ya tikologo ya morago ga phokotso, le botlhokwa jwa bofelo fa go dirisiwa ntlha ya botlhokwa¹ mo ditlamoragong dingwe le dingwe di tthagisiwa fa tlase ka sekale sa mmala se se emelang dikotsi tse di kwa godimo tsa Tikologo go ya go

Environmental Significance Rating (ER)	
Boleng	Tlhaloso
≤ -17	Tlhotlheletso e e kwa godimo (ke gore, fa e le gore tlhotlheletso e tshwanetse go nna le tlhotlheletso mo thulaganyong ya go tlhabolola mo kgaolong).
> -17 ≤ -9	Ka tsela e e sa siamang (ke gore, fa ditlamorago di ka tlhotlheletsa tshwetso ya tlhabololo mo kgaolong).
> -9 < 0	E e sa siamang e e kwa tlase (ke gore fa khuetsa e e ka se nne le tlhotlheletso e e tlhamaletseng mo tshwetsong ya go tlhabolola mo lefelong).
0	Ga go na tshusumetso
>0 < 9	E e siameng e e kwa tlase (ke gore fa tshusumetso e e ka se nneng le tlhotlheletso e e tlhamaletseng mo tshwetsong ya go tlhabolola mo lefelong).
≥ 9 < 17	Tlhaloso e e siameng (ke gore, fa go na le tlhotlheletso e e ka tlhotlheletsang tshwetso ya go tlhabolola mo kgaolong eo).
≥ 17	Tlhotlheletso e e kwa godimo (ke gore, fa go na le tlhotlheletso e e siameng mo thulaganyong ya go tlhabolola mo kgaolong).

¹ Leba Karolo 11.1.2 ya Pegelo e e feletseng ya Bogolo e e tlhalosang ka moo ntlha ya botlhokwa e balelwang le go dirisiwa ka teng mo bokaong jwa bofelo. Ela tlhoko gore botlhokwa jwa bofelo go akaretsa ntlha ya pele mo mabakeng a mangwe bo ka felela ka bokao jwa bofelo jo bo kwa godimo go na le maemo a pele ga phokotso.



Table 1: Ditekanyetso tsa botlhokwa jwa tikologo tsa ditiro tsa pele le morago ga tiriso ya diphokotso.

Environmental Theme / Specialist Discipline	Tshosometso	Kgato	Pre-mitigation Significance	Post-mitigation Significance	Final Significance Including Priority Factor
Terrestrial Biodiversity	Tshenyego, tatlhegelo e e oketsegileng le go kgaogangwa ga setšhaba sa dimela	Kago	-14	-6	-7.5
	Mefuta e e farologaneng ya dimela tse di farologaneng, segolobogolo dimela tse di farologaneng.	Kago	-15	-4	-5
	Kgogolego e e bakwang ke phefo le phefo	Kago	-15	-7.5	-9.375
	Go fudusiwa ga setšhaba sa diphologolo ka ntlha ya tatlhegelo ya bonno, dintsho tse di tlhamaletseng le kgoreletso (thulano ya tsela, modumo, lesedi, lorole, thothomelo le go tsoma diphologolo).	Kago	-16	-6.75	-8.4375
	Go tswelala go tsenelela ga setšhaba sa dimela tsa selegae ke mefuta ya dimela tse di tseneletseng gammogo le kgogolego ka ntlha ya mmu o o tshwenngwang	Operation	-15	-6.75	-8.4375
	Go fuduga le go kgaogangwa ga setšhaba sa diphologolo (go akaretsa mefuta e e mo kotsing) ka ntlha ya dikgoreletsi tse di tswelelang tsa anthropogenic (modumo, lorole le thothomelo) le go senyega/tatlhegelo ya bonno (matlakala, dintsho tsa mo tseleng le/kgotsa go tsoma dipholo).	Operation	-15	-6.75	-8.4375
Aquatic/Wetland	Lefelo la bodulo	Kago	-6.5	-5	-5
	Boleng jwa metsi	Kago	-7	-5.5	-5.5
	Flow	Kago	-5.5	-2.25	-2.25
	Lefelo la bodulo	Operation	-6.5	-4.5	-4.5
	Boleng jwa metsi	Operation	-7	-2.5	-2.5
	Flow	Operation	-5.5	-2.25	-2.25
Mmu	Tatlhegelo ya bokgoni jwa mmu, kgogolego ya mmu, kgogolego ya mmu, tshenyego ya mmu	Thulaganyo	-1.25	-1	-1
	Tatlhegelo ya bokgoni jwa mmu, kgogolego ya mmu, kgogolego ya mmu, tshenyego ya mmu	Kago	-9	-6.75	-9.28125
	Tatlhegelo ya bokgoni jwa mmu, kgogolego ya mmu, kgogolego ya mmu, tshenyego ya mmu	Operation	-5	-4	-5
	Tatlhegelo ya bokgoni jwa mmu, kgogolego ya mmu, kgogolego ya mmu, tshenyego ya mmu	Go tloiswa	-6.75	-4	-5

Environmental Theme / Specialist Discipline	Tshosometso	Kgato	Pre-mitigation Significance	Post-mitigation Significance	Final Significance Including Priority Factor
	Tatlhegelo ya bokgoni jwa mmu, kgogolego ya mmu, kgogolego ya mmu, tshenyego ya mmu	Rehab & Closing	-4	-1.75	-1.96875
Loago	Tshenyo ya ditsela tsa temothuo, ditirelo tse di leng teng le mafaratlhatlha	Thulaganyo	-5	-5	-5
	Ditlamorago tse di amang pabalesego le pabalesego ya baagi ba selegae.	Thulaganyo	-5	-5	-5
	Tshekatsheko e e amanang le pabalesego e e amanang le tlhagiso ya gase.	Thulaganyo	-5	-5	-5
	Modumo o o oketsegileng ka ntlha ya go oketsega ga modumo le modumo o o oketsegileng.	Thulaganyo	-5	-5	-5
	Ditlamorago tsa pharakano mo bathong – lorole, modumo, pabalesego – go tswa mo ponong ya loago le ya go tshwenya	Thulaganyo	-5	-5	-5
	Ditlamorago tse di amang matshelo a beng ba masimo	Thulaganyo	-5	-5	-5
	Ditlamorago tsa tetla ya go dira mo setšhabeng	Thulaganyo	-5	-5	-5
	Influx of people – also possible social disintegration and cultural differentiation, increase in HIV/AIDS etc.	Thulaganyo	-5	-5	-5
	Seabe mo ikonoming ya Aforika Borwa	Thulaganyo	5	5	5
	Tshenyo ya ditsela tsa temothuo, ditirelo tse di leng teng le mafaratlhatlha	Kago	-9	-9	-11.25
	Ditlamorago tse di amang pabalesego le pabalesego ya baagi ba selegae.	Kago	-9	-9	-11.25
	Tshekatsheko e e amanang le pabalesego e e amanang le tlhagiso ya gase.	Kago	-11	-9	-11.25
	Modumo o o oketsegileng ka ntlha ya go oketsega ga modumo le modumo o o oketsegileng.	Kago	-9	-9	-11.25
	Ditlamorago tsa pharakano mo bathong – lorole, modumo, pabalesego – go tswa mo ponong ya loago le ya go tshwenya	Kago	-9	-9	-11.25
	Ditlamorago tse di amang matshelo a beng ba masimo	Kago	-9	-9	-11.25
	Ditlamorago tsa tetla ya go dira mo setšhabeng	Kago	-9	-9	-11.25
	Influx of people – also possible social disintegration and cultural differentiation, increase in HIV/AIDS etc.	Kago	-11	-11	-13.75
	Seabe mo ikonoming ya Aforika Borwa	Kago	16.25	16.25	20.3125
Tshenyo ya ditsela tsa temothuo, ditirelo tse di leng teng le mafaratlhatlha	Operation	-14	-13	-17.875	
Ditlamorago tse di amang pabalesego le pabalesego ya baagi ba selegae.	Operation	-14	-13	-17.875	

Environmental Theme / Specialist Discipline	Tshosometso	Kgato	Pre-mitigation Significance	Post-mitigation Significance	Final Significance Including Priority Factor
	Tshekatsheko e e amanang le pabalesego e e amanang le tlhagiso ya gase.	Operation	-14	-12	-16.5
	Modumo o o oketsegileng ka ntlha ya go oketsega ga modumo le modumo o o oketsegileng.	Operation	-13	-13	-16.25
	Ditlamorago tsa pharakano mo bathong – lorole, modumo, pabalesego – go tswa mo ponong ya loago le ya go tshwenya	Operation	-13	-13	-16.25
	Ditlamorago tse di amang matshelo a beng ba masimo	Operation	-13	-13	-16.25
	Ditlamorago tsa tetla ya go dira mo setšhabeng	Operation	-13	-12	-15
	Go tsena ga batho – gape go ka nna le go kgaogana ga loago le go farologana ga ditso, koketsego ya HIV/AIDS etc.	Operation	-15	-15	-18.75
	Seabe mo ikonoming ya Aforika Borwa	Operation	21.25	20	30
	Tshenyho ya ditsela tsa temothuo, ditirelo tse di leng teng le mafaratlhatlha	Go tloswa	17.5	17.5	26.25
	Ditlamorago tse di amang pabalesego le pabalesego ya baagi ba selegae.	Go tloswa	17.5	17.5	26.25
	Tshekatsheko e e amanang le pabalesego e e amanang le tlhagiso ya gase.	Go tloswa	17.5	17.5	26.25
	Modumo o o oketsegileng ka ntlha ya go oketsega ga modumo le modumo o o oketsegileng.	Go tloswa	17.5	17.5	26.25
	Ditlamorago tsa pharakano mo bathong – lorole, modumo, pabalesego – go tswa mo ponong ya loago le ya go tshwenya	Go tloswa	17.5	17.5	26.25
	Ditlamorago tse di amang matshelo a beng ba masimo	Go tloswa	13.75	17.5	26.25
	Ditlamorago tsa tetla ya go dira mo setšhabeng	Go tloswa	17.5	17.5	26.25
	Go tsena ga batho – gape go ka nna le go kgaogana ga loago le go farologana ga ditso, koketsego ya HIV/AIDS etc.	Go tloswa	17.5	17.5	26.25
	Seabe mo ikonoming ya Aforika Borwa	Go tloswa	20	18.75	28.125
	Tshenyho ya ditsela tsa temothuo, ditirelo tse di leng teng le mafaratlhatlha	Rehab & Closing	21.25	20	30
	Ditlamorago tse di amang pabalesego le pabalesego ya baagi ba selegae.	Rehab & Closing	21.25	20	30
	Tshekatsheko e e amanang le pabalesego e e amanang le tlhagiso ya gase.	Rehab & Closing	21.25	20	30
	Modumo o o oketsegileng ka ntlha ya go oketsega ga modumo le modumo o o oketsegileng.	Rehab & Closing	21.25	20	30

Environmental Theme / Specialist Discipline	Tshosometso	Kgato	Pre-mitigation Significance	Post-mitigation Significance	Final Significance Including Priority Factor
	Ditlamorago tsa pharakano mo bathong – lorole, modumo, pabalesego – go tswa mo ponong ya loago le ya go tshwenya	Rehab & Closing	21.25	20	30
	Ditlamorago tse di amang matshelo a beng ba masimo	Rehab & Closing	17.5	20	30
	Ditlamorago tsa tetla ya go dira mo setšhabeng	Rehab & Closing	21.25	20	30
	Go tsena ga batho – gape go ka nna le go kgaogana ga loago le go farologana ga ditso, koketsego ya HIV/AIDS etc.	Rehab & Closing	21.25	20	30
	Seabe mo ikonoming ya Aforika Borwa	Rehab & Closing	22.5	21.25	31.875
Boswa	Go kgoreletsa: Dipopego tsa Hisetori - Metheo ya dipopego tsa Hisetori	Kago	-19	3.5	4.375
	Go kgoreletsa: Dipopego tsa Hisetori - Kraals	Kago	-6	3.5	3.5
	Go kgoreletsa: Dikago tsa Hisetori - Mesima	Kago	-15	3.5	3.9375
	Go kgoreletsa: Dikago tsa Hisetori - Go epolotswe pit	Kago	-3	3	3
	Go kgoreletsa: Mafelo a Boepi - Lefelo le le lengwe le le bonweng	Kago	-6.5	3.25	4.0625
	Go kgoreletsa: Mafelo a Boepi - Lefelo la Motlha wa Tshipi	Kago	-12.75	4	5
	Kgogolego ya mmu	Kago	-8.25	-4	-5
Hydrology (metsi a a kwa godimo)	Kgogolego ya mmu	Operation	-8.25	-5	-6.25
	Kgogolego ya mmu	Go tloswa	-7.5	-4	-5
	Kgogolego ya mmu	Rehab & Closing	-4.5	-4	-5
	Ditshilafalo tse di tsenang mo tikologong ya metsi a a kwa godimo	Kago	-12	-5.5	-6.875
	Ditshilafalo tse di tsenang mo tikologong ya metsi a a kwa godimo	Operation	-12	-5.5	-6.875
	Ditshilafalo tse di tsenang mo tikologong ya metsi a a kwa godimo	Go tloswa	-12	-5.5	-6.875
	Ditshilafalo tse di tsenang mo tikologong ya metsi a a kwa godimo	Rehab & Closing	-7.5	-4	-5

Environmental Theme / Specialist Discipline	Tshosometso	Kgato	Pre-mitigation Significance	Post-mitigation Significance	Final Significance Including Priority Factor
	Koketsego ya kelelo ya metsi	Kago	-10	-10	-11.25
	Koketsego ya kelelo ya metsi	Operation	-10	-10	-11.25
	Koketsego ya kelelo ya metsi	Go tlosiwa	-10	-10	-11.25
	Koketsego ya kelelo ya metsi	Rehab & Closing	-6.75	-6.75	-7.59375
	Bokgoni jwa merwalela	Kago	-9	-4.5	-4.5
	Bokgoni jwa merwalela	Operation	-9	-4.5	-4.5
	Bokgoni jwa merwalela	Go tlosiwa	-9	-4.5	-4.5
	Bokgoni jwa merwalela	Rehab & Closing	-6.75	-4.5	-4.5
	Go senyega ga metsi a ka fa tlase ga lefatshe le go nna le seretse ka ntlha ya kgotlhelo ya metsi a pula a a elelang go tswa kwa lefelong la kago.	Kago	-8	-1.75	-1.75
Geohydrology (Metsi a a ka fa tlase ga lefatshe)	Boleng jo bo bokoa jwa leachate bo ka tswa mo kampeng ya kago e e ka nnang le ditlamorago tse di sa siamang mo boleng jwa metsi a a fa fatshe.	Kago	-11	-4.5	-5.625
	Mobilisation and maintenance of heavy vehicle and machinery on-site may cause hydrocarbon contamination of groundwater resources.	Kago	-11	-4.5	-5.625
	Tshomarelo e e sa siamang le taolo ya dikhemikale tse di kotsi mo lefelong e ka baka kgotlelelo ya metsi a a ka fa tlase ga lefatshe.	Kago	-4	-1.75	-1.75
	Go ntsha metsi mo aquifer e e ikaeletseng ya malatlha go nna le ditlamorago tse di sa siamang mo metsing a a ka fa tlase ga lefatshe le mo dilekanong tsa metsi a a fa godimo ga lefatshe. Go fokotsega ga maemo a metsi a ka fa tlase ga lefatshe ka ntlha ya go fokotsega ga polokelo ya aquifer go ka baka go bopega ga khounu ya kgatelelo ke gore, kgaolo ya tshotlheletso ya metsi a ka fa tlase ga lefatshe mme ka jalo go fokotsega ga maemo a phreatic/piezometric a kgaolo.	Operation	-17.5	-3.25	-4.875

Environmental Theme / Specialist Discipline	Tshosometso	Kgato	Pre-mitigation Significance	Post-mitigation Significance	Final Significance Including Priority Factor
	Go fuduga ga metsi a a letswai a ka fa tlase ga lefatshe go tswa kwa aquifer e e boteng, e e thubegileng go ya kwa (di)aquifer e e kwa godimo, e e nowang ka nako ya kgato ya tlhagiso ya gase.	Kago	-14	-3.25	-4.875
	Go fuduga ga gase e e sa tlhomamang go tswa kwa aquifer e e kwa teng, e e thubegileng go ya kwa (di)aquifer e e kwa godimo, e e nowang ka nako ya kgato ya go tlhagisa gase.	Kago	-14	-3.25	-4.875
	Go ntsha metsi mo aquifer e e ikaeletseng ya malatlha go ka nna le ditlamorago tse di sa siamang mo metsing a a ka fa tlase ga lefatshe le mo dilekanong tsa metsi a a fa godimo ga lefatshe. Go fokotsega ga maemo a metsi a ka fa tlase ga lefatshe a kgaolo ka ntlha ya go fokotsega ga polokelo ya aquifer go ka baka go bopega ga khounu ya kgatelelo ke gore, kgaolo ya tlhotlheletso ya metsi a ka fa tlase ga lefatshe mme ka jalo go fokotsega ga maemo a phreatic/piezometric a kgaolo.	Operation	-21.25	-4	-6
	Go fuduga ga metsi a a letswai a ka fa tlase ga lefatshe go tswa kwa aquifer e e boteng, e e thubegileng go ya kwa (di)aquifer e e kwa godimo, e e nowang ka nako ya kgato ya tlhagiso ya gase.	Operation	-17	-4	-6
	Go fuduga ga gase e e sa tlhomamang go tswa kwa aquifer e e kwa teng, e e thubegileng go ya kwa (di)aquifer e e kwa godimo, e e nowang ka nako ya kgato ya go tlhagisa gase.	Operation	-17	-4	-6
	Kgotlelelo ya metsi a a ka fa tlase ga lefatshe ka ntlha ya go tshologa ga metsi le go elela go tswa mo mafelong a polokelo ya metsi a a leswe.	Operation	-12	-3.75	-4.6875
	Boleng jo bo bokoa jwa leachate bo ka tswa mo kgaolong ya maoto a sejalo se se ka nnang le ditlamorago tse di sa siamang mo boleng jwa metsi a a ka fa tlase ga lefatshe.	Operation	-12	-3.75	-4.6875
	Go kokoanya le go tlhokomela dikoloi tse di bokete le metshini mo lefelong go ka baka kgotlhelho ya haeterokhabone ya metswedi ya metsi a a ka fa tlase ga lefatshe.	Operation	-12	-3.75	-4.6875

Environmental Theme / Specialist Discipline	Tshosometso	Kgato	Pre-mitigation Significance	Post-mitigation Significance	Final Significance Including Priority Factor
	Tshomarelo e e sa siamang le taolo ya dikhemikale tse di kotsi mo lefelong e ka baka kgotlelelo ya metsi a a ka fa tlase ga lefatshe.	Operation	-12	-3.75	-4.6875
	Go dutla ga dilo tse di kotsi go tswa mo ditankang, dipeipi kgotsa didiriswa tse dingwe go ka baka kgotlelelo ya metsi a a ka fa tlase ga lefatshe.	Operation	-12	-3.75	-4.6875
	Go ntsha metsi go ama go fokotsega, go nosetsa gape morago ga tiro le morwalela wa ditlhako tsa magala tse di ka fa tlase ga lefatshe tse di ka felelang ka go boela morago ga tlhogo ya haeteroliki ya selegae le maemo a metsi a kgaolo.	Go tlosiwa	16	-6	-7.5
	Boleng jo bo kwa tlase jwa metsi a a tswang mo diminerale tse di nang le salefaete tse di amanang le ditlhako tsa magala a a ntshang metsi le difatlhego tse di tla nnang le ditlamorago tse di sa siamang mo boleng jwa metsi a a ka fa tlase ga lefatshe.	Go tlosiwa	-23.75	-6	-7.5
	Go fuduga ga metsi a a letswai a ka fa tlase ga lefatshe go tswa kwa aquifer e e boteng, e e thubegileng go ya kwa (di)aquifer e e kwa godimo, e e nowang ka nako ya go tswalwa ga mosima le go tlosiwa mo tirisong.	Go tlosiwa	-16	-6	-7.5
	Go fuduga ga gase e e sa tlhomamang go tswa kwa aquifer e e kwa teng, e e thubegileng go ya kwa (di)aquifer e e kwa godimo, e e nowang fa didiba di sa tswalelwa sentle.	Go tlosiwa	-16	-6	-7.5
	Kgotlelelo ya metsi a a ka fa tlase ga lefatshe ka ntlha ya go tshologa ga metsi le go elela go tswa mo mafelong a polokelo ya metsi a a leswe.	Go tlosiwa	-6.5	-2.25	-2.53125
	Boleng jo bo bokoa jwa leachate bo ka tswa mo kgaolong ya maoto a sejalo se se ka nnang le ditlamorago tse di sa siamang mo boleng jwa metsi a a kwa tlase ga lefatshe.	Go tlosiwa	-6.5	-2.25	-2.53125
	Go tlosiwa ga dirori tse di bokete le metšhine jaaka karolo ya kgato ya go tlosa mo lefelong go ka baka kgotlelelo ya hydrocarbon ya metswedi ya metsi a a fa fatshe.	Go tlosiwa	-6.5	-2.25	-2.53125
	Tshireletsego ya Maatla	Thulaganyo	6.25	6.25	8.59375
Ikonomi	Tlhabololo ya ikonomi ya selegae le tlhabololo ya metseselegae ka ntlha ya porojeke e.	Thulaganyo	6.25	6.25	8.59375
	Go tlhola ditiro le lotseno lwa malapa ka ntlha ya ditšhono tsa ditiro tse di oketsegileng.	Thulaganyo	6.25	6.25	8.59375
	Kgogedi ya dipeeletso tsa kwa ntle le dipoloko tsa forex	Thulaganyo	6.25	6.25	8.59375

Environmental Theme / Specialist Discipline	Tshosometso	Kgato	Pre-mitigation Significance	Post-mitigation Significance	Final Significance Including Priority Factor
	Koketsego ya baagi ka ntlha ya kgatelelo ya badiri le kgatelelo mo mafaratlhatlheng a selegae.	Thulaganyo	.256	6.25	8.59375
	Bojanala le tiriso ya lefatshe le le farologaneng.	Thulaganyo	-6.25	-6.25	-7.8125
	Tshireletsego ya Maatla	Kago	14	14	19.25
	Kgolo ya Ikonomi ya Selegae le Tlhabololo ya Magae	Kago	13	13	17.875
	Go Tlhama Ditiro le Lotseno lwa kwa Gae	Kago	13	13	17.875
	Tshebediso ya ditjhelete tsa kante ho naha le poloko ya forex	Kago	12	12	16.5
	Kgolo ya baagi le kgatelelo mo mafaratlhatlheng a selegae	Kago	-10	-10	-13.75
	Bojanala le tiriso ya lefatshe le le farologaneng.	Kago	-12	-6.25	-8.59375
	Tshireletsego ya Maatla	Operation	14	14	19.25
	Kgolo ya Ikonomi ya Selegae le Tlhabololo ya Magae	Operation	13	13	17.875
	Go Tlhama Ditiro le Lotseno lwa kwa Gae	Operation	13	13	17.875
	Tshebediso ya ditjhelete tsa kante ho naha le poloko ya forex	Operation	12	12	16.5
	Kgolo ya baagi le kgatelelo mo mafaratlhatlheng a selegae	Operation	-10	-10	-13.75
	Bojanala le tiriso ya lefatshe le le farologaneng.	Operation	-12	-12	-16.5
	Tshireletsego ya Maatla	Go tloswa	-14	-13	-17.875
	Kgolo ya Ikonomi ya Selegae le Tlhabololo ya Magae	Go tloswa	-13	-13	-17.875
	Go Tlhama Ditiro le Lotseno lwa kwa Gae	Go tloswa	-13	-12	-16.5
	Tshebediso ya ditjhelete tsa kante ho naha le poloko ya forex	Go tloswa	-12	-10	-13.75
	Kgolo ya baagi le kgatelelo mo mafaratlhatlheng a selegae	Go tloswa	10	13	17.875
	Bojanala le tiriso ya lefatshe le le farologaneng.	Go tloswa	12	12	15
	Tshireletsego ya Maatla	Rehab & Closing	-14	-13	-17.875
	Kgolo ya Ikonomi ya Selegae le Tlhabololo ya Magae	Rehab & Closing	-13	-12	-16.5
	Go Tlhama Ditiro le Lotseno lwa kwa Gae	Rehab & Closing	-13	-10	-13.75
	Tshebediso ya ditjhelete tsa kante ho naha le poloko ya forex	Rehab & Closing	-12	-13	-17.875
	Kgolo ya baagi le kgatelelo mo mafaratlhatlheng a selegae	Rehab & Closing	10	13	17.875
	Bojanala le tiriso ya lefatshe le le farologaneng.	Rehab & Closing	12	12	15
Thutofosili (Palaeontology)	Kamego mo metlhobong ya thutofosili	Kago	-10.5	11.25	12.65625
Boleng jwa mowa	Boleng ba moya o o re dikologileng	Kago	-10	-7.5	-7.5
	Boleng ba moya o o re dikologileng	Tsamaiso	-12	-8.25	-8.25
	Boleng ba moya o o re dikologileng	Go tloswa	-10	-7.5	-7.5

Environmental Theme / Specialist Discipline	Tshosometso	Kgato	Pre-mitigation Significance	Post-mitigation Significance	Final Significance Including Priority Factor
	Koketso Modumo	Kago	-10	-7.5	-7.5
Modumo	Koketso Modumo	Operation	-9.75	-9	-9
	Koketso Modumo	Go tlosiwa	-10	-7.5	-7.5
	Tshenyego e e oketsegileng ya naga ya selegae	Kago	-6	-4	-4
	Tshenyego e e oketsegileng ya naga ya selegae	Operation	-6.75	-4.5	-4.5
Tsa Pono	Go senyega ga dipono go tswa mo R33 le R572 gaufi le lefelo le le tshitshintsweng	Kago	-6	-4	-4
	Go senyega ga dipono go tswa mo R33 le R572 gaufi le lefelo le le tshitshintsweng	Operation	-6.75	-4.5	-4.5
	Tshenyego e e oketsegileng ya tikologo jaaka e bonwa go tswa mo ditseleng tse di bapileng le tsone	Kago	-6	-4	-4
	Tshenyego e e oketsegileng ya tikologo jaaka e bonwa go tswa mo ditseleng tse di bapileng le tsone	Operation	-6.75	-4.5	-4.5
	Tshenyego e e oketsegileng ya naga ya selegae jaaka e bonwa go tswa mo magaeng	Kago	-6	-4	-4
	Tshenyego e e oketsegileng ya naga ya selegae jaaka e bonwa go tswa mo magaeng	Operation	-6.75	-4.5	-4.5
	Go senyega ga dipono go tswa kwa Dipolokelong tsa Tlhago tsa Poraefete tsa Olifantspad le Gideon Troskie	Kago	-6	-4	-4
	Go senyega ga dipono go tswa kwa Dipolokelong tsa Tlhago tsa Poraefete tsa Olifantspad le Gideon Troskie	Operation	-6.75	-4.5	-4.5
	Lesedi La Rona Le Na Le Ditlamorago Tse di Sa Siamang	Kago	-6	-4	-4
	Lesedi La Rona Le Na Le Ditlamorago Tse di Sa Siamang	Operation	-6.75	-4.5	-4.5
	Thoromo ya lefatshe kgotsa e e tlhotlheletsang thoromo ya lefatshe	Kago	-4	-3.75	-5.15625
	Thoromo ya lefatshe kgotsa e e tlhotlheletsang thoromo ya lefatshe	Operation	-4.5	-3.75	-3.75
Thoromo ya lefatshe	Thoromo ya lefatshe kgotsa e e tlhotlheletsang thoromo ya lefatshe	Go tlosiwa	-4	-3	-3
	Tshenyego ya ditsela tse di leng teng / ditselana tse di leng teng	Kago	-11	-5.5	-6.1875
	Tshenyego ya ditsela tse di leng teng / ditselana tse di leng teng	Operation	-13	-6.5	-7.3125
Dipalangwa	Tshenyego ya ditsela tse di leng teng / ditselana tse di leng teng	Operation	-13	-6.5	-7.3125

Environmental Theme / Specialist Discipline	Tshosometso	Kgato	Pre-mitigation Significance	Post-mitigation Significance	Final Significance Including Priority Factor
	Tshenyego ya ditsela tse di leng teng / ditselana tse di leng teng	Go tloswa	-5	-2.5	-2.5
	Pitlagano ya pharakano	Kago	-11	-5.5	-6.1875
	Pitlagano ya pharakano	Operation	-13	-6.5	-7.3125
	Pitlagano ya pharakano	Go tloswa	-10	-2.5	-2.5
	Pabalesego ya badirisi ba tsela	Kago	-13	-6.5	-7.3125
	Pabalesego ya badirisi ba tsela	Operation	-15	-7.5	-8.4375
	Pabalesego ya badirisi ba tsela	Go tloswa	-12	-3	-3



1.5 GO NNA LE SEABE MO SETŠHABENG

Thulaganyo ya go tsaya karolo ga setšhaba (PPP) ya kopo e e dirilwe go ya ka ditlhokego tsa Melawana ya NEMA EIA, le go tsamaisana le melawana ya Tsamaiso e e Kopaneng ya Tikologo (IEM). Thulaganyo e e kopaneng ya PPP e a dirwa e e akaretsang kopo ya EA, kopo ya WUL gammogo le kopo ya AEL. IEM e kaya thulaganyo e e bulegileng le e e bonalang ya go tsaya karolo, e mo go yona batsayakarolo le di-I&AP tse dingwe ba fiwang tšhono ya go akgela ka porojeke le go nna le dikakanyo tsa bona le go akarediwa jaaka karolo ya thulaganyo ya porojeke mme kwa bofelong go itsise thulaganyo eno ya EIA le go tsaya ditshwetso tsa bolaodi.

Le fa go ne go na le kitsiso ya ntlha e e dirilweng ka Ngwanatsele 2023, porojeke e ne ya emisiwa mme ya simololwa gape ka 2026 mme morago ga moo kitsiso ya bobedi le pitso ya go ikwadisa e simolotse ka 20 Mopitlwe 2026. Kitsiso ya ntlha e ne ya dirwa ka Seesimane, Seafrikanse, Sepedi le Setswana mme e ne ya newa ka mokgwa o o latelang:

- Makwalo a a kwadisitsweng, difekese, di-imeile le di-SMS: Kitsiso e ne ya abelwa di-I&AP tsotlhe tse di supilweng pele le tse di kwadisitsweng mo nakong e e fetileng go akaretsa mekgatlho ya puso, mekgatlho e e seng ya semolao, bommasepala ba ba maleba, makhanselara a wate, beng ba lefatshe le mekgatlho e mengwe e e ka nnang le kgatlhego kgotsa e amegang.
- Dipapatso tse di tlhalosang porojeke e e tshitshinngwang le thulaganyo ya EIA di ne tsa gatisiwa mo makwalodikgannyeng a Mogol Pos le Lekae mme di anamisiwa gaufi le lefelo la kopo. Dipapatso tsa ntlha tsa makwalodikgang di ne di gatisitswe ka Seesemane, Seafrikanse, Sepedi le Sesetswana.
- Dikitsiso tsa lefelo la A1 Correx di le masome a marataro le bobedi (62) (ka Seesemane, Seafrikanse, Sepedi le Sesetswana) di ne tsa bewa mo mafelong a togamaano a le 36 mo teng le mo tikologong ya lefelo la kopo ya Tshwanelo ya Tlhagiso magareng ga 16 le 20 Mopitlwe 2026.
- Mo godimo ga mekgwa e e fa godimo ya kitsiso, papatso ya radio e ne ya gasiwa magareng ga 18 le 20 Mopitlwe 2026 mo seteisheneng sa radio sa Waterberg Stereo.

Tshedimosetso e e malebana le go nna teng ga Pegelo ya Tlhatlhobo ya Tshekatsheko ya Setšhaba e neelwa ka mokgwa o o latelang go di-I&AP tsotlhe tse di kwadisitsweng:

- Makwalo a a kwadisitsweng a a nang le dintlha tsa gore pegelo ya tlhatlhobo e ka bonwa kae le/kgotsa go sekasekwa, letlha le nako ya kopano ya setšhaba, dintlha tsa kgoagano tsa EIMS gammogo le nako ya ditshwaelo tsa tshekatsheko ya setšhaba;
- Dikitsiso tsa facsimile tse di nang le tshedimosetso e e tshwanang le e e kwadisitsweng e e tlhalositsweng fa godimo;
- Dikitsiso tsa SMS moo dinomoro tsa difouno tsa selula di neng di le teng tsa di-I&AP tse di kwadisitsweng; le/kgotsa
- Romela lekwalo le le nang le tshedimosetso e e tlhalositsweng fa godimo.

Kakaretso ya maemo a a kwa godimo ya dikakgelo tse di tlhagisitsweng go fitlha ga jaana fa e sale dikitsiso tsa ntlha tsa Pego ya goikwadisa di phasaladitswe di tlhagisiwa fa tlase:

- Kopo ya go ikwadisa jaaka I&AP ya porojeke.
- Kopa tshedimosetso e e amanang le bokamoso jwa porojeke.
- Kopo ya tshedimosetso (le diforomo tse di amanang le seabe sa baamegi) mabapi le gore o ka ikwadisa jang jaaka I&AP.
- Kopo ya tshedimosetso ka ga dithoto tse di amegileng, ka bobedi mo kgaolong ya PR le mo kgaolong ya EIA.
- Tlhalosa ka moo porojeke eno e tla amang ditiro tse dingwe tsa ikonomi mo kgaolong eno.

Thulaganyo ya semolao ya malatsi a le 30 ya go tsaya karolo ga setšhaba e ikaeletse go neela tšhono ya go buisana le beng ba lefatshe, setšhaba le batsayakarolo ba ba botlhokwa go bona dikakgelo dipe fela, matshwenyego kgotsa tshedimosetso e nngwe e e maleba e e ka nnang botlhokwa mo tshekatshekong e e tswelelang ya ditlamorago tsa tikologo. Mekgwa ya go tsaya karolo e tihalositswe fa godimo, mme tirisanommogo e nngwe e tla dirwa mo kgatong ya EIA morago ga go wediwa ga kgato ya tlhatlhobo. Ditshwaelo tsotlhe, matshwenyego le tshedimosetso e e abetsweng mo dithulaganyong tsa ditherisano di tla sekasekiwa ke EAP gammogo le baitseanape go itsise dipholo tsa dipatlisiso tse di farologaneng.