

Enquiries: Z Makhathini Telephone: 012 336 7305

Reference: 12/2

## MINISTER OF WATER AND SANITATION

## NATIONAL ASSEMBLY: QUESTION 3600 FOR WRITTEN REPLY

A draft reply to the above mentioned question asked by Mr L J Basson (DA) is attached for your consideration.

DRAFT REPLY: RECOMMENDED/ NOT RECOMMENDED/ AMENDED

ACTING DIRECTOR-GENERAL

DATE: 30 11 2018 .

DRAFT REPLY: APPROVED/ NOT APPROVED/ AMENDED

NKWINTI GE, MP

MINISTER OF WATER AND SANITATION

DATE: 03/12/2018

#### NATIONAL ASSEMBLY

#### FOR WRITTEN REPLY

#### **QUESTION NO 3600**

# DATE OF PUBLICATION IN INTERNAL QUESTION PAPER: 23 NOVEMBER 2018 (INTERNAL QUESTION PAPER NO. 42)

# 3600. Mr L J Basson (DA) to ask the Minister of Water and Sanitation:

- (1) (a) What is the (i) name and (ii) current safety status of each dam under the control of his department, (b) when last did the dam safety office of his department conduct safety inspections on each dam and (c) what was the outcome of the inspection in each case;
- (2) what mechanisms has his department put in place to deal with dams that pose safety risks?

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### THE MINISTER OF WATER AND SANITATION

- (1) Refer to Annexure A for the details on current safety status of each dam. In Part (1). Table 1 of the annexure explains the condition rating of the dam based on the most recent Dam Safety Evaluation (DSE) report by an Approved Professional Person (APP). Table 2 contains a list of category 2 and 3 dams which must be subjected to a five yearly DSE (category 1 Evaluation (DSE) was implemented in 2016, which explains why only 72 dams on the list Table 2 also indicates the dams that have been rehabilitated to improve their safety and will currently been evaluated by APP's.
- (2) The outcomes of dam safety evaluations determine the type of intervention/mechanism required to address the safety risk. These interventions/mechanisms could either be maintenance related or capital intensive where dam rehabilitation is required. For these as part of routine maintenance as prescribed in the operations and maintenance manuals. For capital intensive safety risks are addressed through Dam Safety Rehabilitation Programme (DSRP).

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Table 1: Dam Safety: Proposed Score Card for the Condition of a Dam

Symbol /Score	Analysis of condition from the Recommendations and Findings of a Dam Safety Evaluation Report by an APP
Α	Dam in good condition and routine maintenance are acceptably up to date. An evaluation interval of longer than 5 years can be recommended (if the owner request it or for farmers/ smaller municipalities.)
B	Dam in reasonable condition but not complying to modern standards. Only routine maintenance and routine inspections recommended. An evaluation interval of longer than 5 years cannot be recommended.
С	Significant outstanding maintenance by the normal operation and maintenance staff recommended restoring dam to a functional state. Elementary monitoring systems like settlement beacons and flow monitoring included beach
D	for example repair major erosion or cavitation's, repair slope protection, reinstate crest level, refurbish outlet works or gates. Work is considered significant rehabilitation if it is outside the capacity of the normal operation and maintenance staff and the appointment of a contractor is necessary and the work should be done under guidance of an APP. Drafting of an Operation and Maintenance Manual and or Emergency Preparedness Plan and install sophisticated monitoring instruments under guidance of an APP also included here.
Е	Upgrading recommended for example increase spillway capacity, increase freeboard, provide buttress / thicken dam to improve stability or install stress cables, install slope protection, install additional drainage or grouting or water seals to reduce leakage. A licence to alter and the services of an APP will be required.
F	Dam unsafe. Restrictions on operation recommended, for example water level may not exceed a specified level.

Table 2: List of DWS owned dams (Category II and III only)

Class		Hazard Rating	Category	Date Last	Condition /	
1	RAMAH CANAL BALANCING NO 1	Small	Significant	2		Status
2	BISSETSDRIFT CROSSING DAM	Small	Significant	2	1-Jan-91	
3	JAN TSHATSHU DAM	Small	Significant	2	1-Jun-96	
4	WOBURN 3 DAM	Small	Significant	2	24-Aug-99	Rehab
5	LIMIETSKLOOF DAM	Medium	Significant	2	25-Oct-05	
6	ELANDSDRIFT STUDAM	Medium	High		3-Dec-99	
7	MAJOLA DAM	Medium	Low	3	28-May-01	
3	MAGWA DAM	Medium	Significant	2	31-May-01	
)	GCUWA DAM	Medium		2	31-May-01	
0	NSAMI DAM	Medium	High	3	1-Jun-01	
1	RUST DE WINTER DAM	Large	High	3	1-Sep-02	Rehab
2	TAUNG DAM	Large	High	3	29-Jan-03	Rehab
3	PONGOLAPOORT DAM		High	3	11-Aug-03	Rehab
4	HAMMARSDALE DAM	Large	High	3	3-Oct-03	DSE In progres
5	DIMBAZA DAM		High	2	21-Jan-04	Rehab
6	BOSPOORT DAM	Small	Significant	2	10-Sep-04	DSE In progres
7	NKADIMENG DAM	Medium	High	3	10-Dec-04	Rehab
3	CATA DAM	Medium	Significant	2	24-Jan-05	Rehab
	THABINA DAM	Large	High	3	1-Feb-05	Rehab
	DONNY BROOK 1 DAM	Large	High	3	16-Feb-05	
	GLENBROCK DAM	Medium	Low	2	6-Aug-05	
	KLEIN MARICOPOORT DAM	Medium	High	3	19-Aug-05	
	MNYAMENI DAM	Medium	High	3	4-Oct-05	DSE In progress
	WOBURN 2 DAM	Large	High		25-Oct-05	m progress
	L ASSEMBLY	Small	Significant		25-Oct-05	

27   SINGIZI DAM	25	RIETSPRUIT DAM	T 8.4 15				
28		27 Other Medium					
Page					ant 3		
					3		
		THE PARTY OF DATE	Medit	ım High			
1   SPIESHEQU DAM			Medic	ım Significa			
Medium   Low   2 27-Nov-06   DSE in progress			Mediu				
Medium   Significant   2   27-Nov-06   DSE in progress							
Medium   Significant   2   27-Nov-06   DSE in progress							
36   METSIMATSHO (SWARTWATER)   Medium   Significant   2   10-Jan-07   DSE in progress   Significant   2   26-Jan-07   DSE in progress   Significant   2   30-Jan-07   DSE in progress   Significant   2   28-May-07   DSE in progress   Significant   2   28-Sep-07   DSE in progress   Significant   2   31-Oct-07   DSE in progress   Significant   2   31-Oct-07   DSE in progress   Significant   2   31-Oct-07   SE in progress   Significant   2   31-Oct-08   SE in progress   Significant							
MOADU DAM		METSIMATSHO (SWARTWATER)					000 /// progress
37   NOOITGEDACHT DAM		NQADU DAM					
39	37						
39   KASTEEL DAM	38	JAGERSRUST DAM					DSE In progress
Modellum	39			Significar			DSE In progress
A				4.3.44.44		18-Aug-07	
Medium   Significant   2   26-Sep-07   DSE In progress					3		
Medium   Significant   2   26-Sep-07   25E in progress							
Same   Significant   Signifi		NIENETYANA DAM	Mediur	n Significan		26-Sep-07	DOL III progress
SOLOPICITE   DAM		CAMUEN RESERVOIR NO.3	Small	Significan		31-Oct-07	
BALANSEERDAM S2 ORANJE RIET   Small   Significant   Sign	-	STOMPDRIFT DAM	Large				
KANAAL	45	BALANSEERDAM S2 ORANJE RIE					Kenab
RODIFONTEIN DAM	-			o granoun	٠   ٢	10-Dec-07	
48		KRUGERSDRIFT DAM	Medium	High	2	0 1 00	
ARAMAH CANAL BALANCING NO 2   Small Significant 2   10-Apr-08   DSE In progress		ROOIFONTEIN DAM				9-Jan-08	
Age	48	RAMAH CANAL BALANCING NO 2					
December   December	49	BOEGOFRERG DAM					DSE In progress
Significant   2   29-Sep-08	50	WEI TEVREDE DAM				24-Jun-08	DSE in progress
Small						29-Sep-08	
High   3   21-Oct-08		NZHELELE DAM				20-Oct-08	Rehah
Significant   2   27-Oct-08		SEDIDA DAM			3		11011010
Small   Significant   Signif				Significant	2		
Significant			Small	Significant			
SEROALO DAM			Small				
57         AMABELE DAM         Small         Significant         2         27-Oct-08         DSE In progress           58         MADIKWE DAM         Medium         Significant         2         3-Nov-08         DSE In progress           60         KLEINPLAS DAM         Medium         High         3         3-Dec-08         DSE In progress           61         THEEWATERSKLOOF DAM         Large         High         3         3-Dec-08         DSE In progress           62         LINDLEYSPOORT DAM         Large         High         3         3-Dec-08         DSE In progress           63         BARTELSFONTEIN RESERVOIR         Small         Significant         2         5-Dec-08           64         GROOTDRAAI DAM         Large         High         3         26-Jan-09           65         DRIEKLOOF DAM         Large         High         3         27-Jan-09         DSE In progress           67         BLOEMHOF DAM         Large         High         3         28-Jan-09         DSE In progress           68         WATERDOWN DAM         Large         High         3         13-Apr-09         DSE In progress           70         ROOIKRANS DAM         Medium         High         3 <t< td=""><td></td><td></td><td>Small</td><td></td><td></td><td>27 Oct 00</td><td></td></t<>			Small			27 Oct 00	
MADIKWE DAM						27-001-00	
Symbol							DSE In progress
60         KLEINPLAAS DAM         Medium         High         3         3-Dec-08         DSE In progress           61         THEEWATERSKLOOF DAM         Large         High         3         3-Dec-08         DSE In progress           62         LINDLEYSPOORT DAM         Large         High         3         3-Dec-08         DSE In progress           63         BARTELSFONTEIN RESERVOIR         Small         Significant         2         5-Dec-08           64         GROOTDRAAI DAM         Large         High         3         26-Jan-09           65         DRIEKLOOF DAM         Large         High         3         27-Jan-09         DSE In progress           66         STERKFONTEIN         Large         High         3         28-Jan-09         DSE In progress           67         BLOEMHOF DAM         Large         High         3         28-Jan-09         DSE In progress           68         WATERDOWN DAM         Large         High         3         13-Apr-09         DSE In progress           69         CAPES THORNE DAM         Medium         High         3         8-Jul-09         DSE In progress           70         ROOIKRANS DAM         Medium         High         3         9-Jul		BULSHOEK DAM					DSE In progress
61         THEEWATERSKLOOF DAM         Large         High         3         3-Dec-08         DSE In progress           62         LINDLEYSPOORT DAM         Large         High         3         3-Dec-08           63         BARTELSFONTEIN RESERVOIR         Small         Significant         2         5-Dec-08           64         GROOTDRAAI DAM         Large         High         3         26-Jan-09           65         DRIEKLOOF DAM         Large         High         3         27-Jan-09         DSE In progress           66         STERKFONTEIN         Large         High         3         28-Jan-09         DSE In progress           67         BLOEMHOF DAM         Large         High         3         9-Feb-09           68         WATERDOWN DAM         Large         High         3         13-Apr-09           69         CAPES THORNE DAM         Medium         High         3         8-Jul-09         DSE In progress           71         WRIGGLESWADE DAM         Large         High         3         8-Jul-09         DSE In progress           72         DRIEL BARRAGE         Medium         High         3         27-Aug-09         DSE In progress           75         ONVER	60	KLEINPLAAS DAM					DSE In progress
62	61	THEEWATERSKLOOF DAM					DSE In progress
BARTELSFONTEIN RESERVOIR   Small   Significant   Signifi	62	LINDLEYSPOORT DAM					
64         GROOTDRAAI DAM         Large         High         3         26-Jan-09           65         DRIEKLOOF DAM         Large         High         3         27-Jan-09         DSE In progress           66         STERKFONTEIN         Large         High         3         28-Jan-09         DSE In progress           67         BLOEMHOF DAM         Large         High         3         28-Jan-09         DSE In progress           68         WATERDOWN DAM         Large         High         3         9-Feb-09         DSE In progress           69         CAPES THORNE DAM         Medium         Significant         2         18-Jun-09         DSE In progress           70         ROOIKRANS DAM         Medium         High         3         8-Jul-09         DSE In progress           71         WRIGGLESWADE DAM         Large         High         3         9-Jul-09         DSE In progress           72         DRIEL BARRAGE         Medium         High         3         26-Aug-09         DSE In progress           73         QEDUSIZI DAM         Large         High         3         27-Aug-09         DSE In progress           75         ONVERWACHT RESERVOIRS         Small         Significant	63	BARTEL SEONTEIN PESEDVOID					
19   19   19   19   19   19   19   19		GROOTDRAALDAM				5-Dec-08	
Carge   High   3   27-Jan-09   DSE In progress					3	26-Jan-09	
STERRY-ONTEIN				High	3		DSE In progress
68 WATERDOWN DAM 69 CAPES THORNE DAM 70 ROOIKRANS DAM 71 WRIGGLESWADE DAM 72 DRIEL BARRAGE 73 QEDUSIZI DAM 74 RIETFONTEIN WEIR 75 ONVERWACHT RESERVOIRS 76 ROODEPOORT DAM 77 ROOIKRAAL DAM 78 WELTEVREDEN WEIR 79 ROOIKRAAL DAM 79 ROOIKRAAL DAM 79 ROOIKRAAL DAM 79 ROOIKRAAL DAM 70 Large High 70 Redium High 71 WRIGGLESWADE DAM 70 Redium High 71 WRIGGLESWADE DAM 71 Large High 72 DRIEL BARRAGE 73 QEDUSIZI DAM 74 RIETFONTEIN WEIR 75 ONVERWACHT RESERVOIRS 76 ROODEPOORT DAM 77 Small Significant 78 WELTEVREDEN WEIR 79 ROOIKRAAL DAM 78 WELTEVREDEN WEIR 79 ROOIKRAAL DAM 79 ROOIKRAAL DAM 70 ROOIKRAAL DAM 70 ROOIKRAAL DAM 71 Large High 71 Significant 72 Large High 73 Large High 74 RIETFONTEIN WEIR 75 Small Significant 76 ROODEPOORT DAM 77 Small Significant 78 WELTEVREDEN WEIR 79 ROOIKRAAL DAM 70 ROOIKRAAL DAM 71 Large High 71 Large High 72 Large High 73 21-Dec-09	-		Large	High			DOL III progress
69         CAPES THORNE DAM         Large         High         3         13-Apr-09           70         ROOIKRANS DAM         Medium         Significant         2         18-Jun-09         DSE In progress           71         WRIGGLESWADE DAM         Large         High         3         8-Jul-09         DSE In progress           72         DRIEL BARRAGE         Medium         High         3         26-Aug-09         DSE In progress           73         QEDUSIZI DAM         Large         High         3         27-Aug-09           74         RIETFONTEIN WEIR         Small         Significant         2         10-Sep-09         DSE In progress           75         ONVERWACHT RESERVOIRS         Small         Significant         2         10-Sep-09         DSE In progress           76         ROODEPOORT DAM         Small         Significant         2         29-Sep-09           78         WELTEVREDEN WEIR         Small         Significant         2         19-Nov-09         DSE In progress           30         VAAL DAM         Large         High         3         21-Dec-09			Large	High			
CAPES THORNE DAM   Medium   Significant   2   18-Jun-09   DSE In progress							
ROOIKRANS DAM					2		1000
71 WRIGGLESWADE DAM  Large High 3 9-Jul-09 DSE In progress  72 DRIEL BARRAGE  73 QEDUSIZI DAM  RIETFONTEIN WEIR  75 ONVERWACHT RESERVOIRS NO.1,2 & 3  76 ROODEPOORT DAM  78 WELTEVREDEN WEIR  79 ROOIKRAAL DAM  Medium Significant  Significant 2 19-Nov-09 DSE In progress  Medium Significant 2 19-Nov-09 DSE In progress  NO.1,2 & 3 19-Nov-09 DSE In progress							DSE in progress
72 DRIEL BARRAGE Medium High 3 26-Aug-09 73 QEDUSIZI DAM Large High 3 27-Aug-09 74 RIETFONTEIN WEIR Small Significant 2 10-Sep-09 DSE In progress 75 ONVERWACHT RESERVOIRS Small Significant 2 10-Sep-09 76 ROODEPOORT DAM Small Significant 2 29-Sep-09 778 WELTEVREDEN WEIR Small Significant 2 19-Nov-09 DSE In progress 78 ROOIKRAAL DAM Medium Significant 2 19-Nov-09 DSE In progress 79 ROOIKRAAL DAM Medium Significant 2 19-Nov-09 DSE In progress 80 VAAL DAM Large High 3 21-Dec-09		WRIGGLESWADE DAM			3		
73   QEDUSIZI DAM	72	DRIEL BARRAGE					DSE In progress
74 RIETFONTEIN WEIR Small Significant 2 10-Sep-09 DSE In progress NO.1,2 & 3  75 ONVERWACHT RESERVOIRS Small Significant 2 10-Sep-09 DSE In progress NO.1,2 & 3  76 ROODEPOORT DAM Small Significant 2 29-Sep-09 Small Significant 2 19-Nov-09 DSE In progress No.1,2 & 3  78 WELTEVREDEN WEIR Small Significant 2 19-Nov-09 DSE In progress No.1,2 & 3  79 ROOIKRAAL DAM Medium Significant 2 19-Nov-09 DSE In progress No.1,2 & 3  80 VAAL DAM Large High 3 21-Dec-09	73	QEDUSIZI DAM			3		
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78 WELTEVREDEN WEIR Small Significant 2 29-Sep-09 79 ROOIKRAAL DAM Medium Significant 2 19-Nov-09 DSE In progress 30 VAAL DAM Large High 3 21-Dec-09							
79 ROOIKRAAL DAM Medium Significant 2 19-Nov-09 DSE In progress 30 VAAL DAM Large High 3 21-Dec-09		A/EL TEVOCOCALIANO				29-Sep-09	
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Large High 3 21-Dec-09		/A A L (D) A L D					DSE In progress
IATIONIAL ADDRESS.		AAL DAM					Po⊏ III progress
	NATIONAL	4.5.5.5.5.5.5.5				21 060-08	

8	1 BOSKOP DAM	100				
8:		Med			3 23-Dec-0	9
8:		Larg			3 14-Jan-10	
84		Larg			3 14-Jan-10	)
85		Larg			3 15-Jan-10	
86		Larg			3 1-Feb-10	DSE In progress
87		Large			3 3-Feb-10	DOL III progress
88	THE CONTRACT OF THE CONTRACT O	Large		3	3 12-Apr-10	
89	BIISHMANOKOANITE TAN	Medi		3		
90		Large		3	13-Apr-10	
91		Medi	um High	3		
92	OXKRAAL DAM	Large	High	3		
93	SANDILE DAM	Large	High	3		
94	DEBE DAM	Large		3		DOEL
95	OUKLOOF DAM	Large		3		DSE In progress
	GLEN MELVILLE DAM	Large		3	20-Jul-10	DSE in progress
96	GLEN BOYD BALANCING DAM	Mediu		nt 2		DSE In progress
97	DER BROCHEN DAM	Large		3	22-Jul-10	
98	NANDONI DAM	Large	High	3	27-Jul-10	DSE In progress
99	ROODEFONTEIN DAM	Mediu	m High		10-Aug-10	
100	KLIPFONTEIN DAM (W4)	Mediur		3	16-Aug-10	
101	BRONKHORSTSPRUIT DAM	Large		3	16-Aug-10	
102	INANDA DAM		High	3	17-Aug-10	DSE In progress
103	HAZELMERE DAM	Large	High	3	31-Aug-10	
104	POORTJIESKLOOF DAM	Large	High	3	31-Aug-10	
105	CLANWILLIAM DAM	Large	High	3	7-Sep-10	
106	MTATA DAM	Large	High	3	8-Sep-10	Raising
107	MHLANGA DAM	Large	High	3	1-Oct-10	
108	NTSHINGWAYO DAM	Large	High	3	1-Oct-10	
109	VAALKOP DAM	Medium		3	1-Jan-11	
110	KALKFONTEIN DAM	Large	High	3	26-Jan-11	Rehab
111	MANKWE DAM	Large	High	3	2-Feb-11	Rehab
112	MARICO PONETO DA	Medium		2	3-Feb-11	Reliab
113	MARICO-BOSVELD DAM	Medium		3	3-Feb-11	
114	ROODEKOPJES DAM	Medium	High	3	9-Feb-11	
114	GROOTHOEK DAM (MOUTLOATS)	Medium	High	3	15-Feb-11	
115	SETLOGELO) DAM				10-160-11	
116	ROODE ELSBERG DAM	Large	High	3	18-Apr-11	
	BEN ETIVE DAM	Medium	Significant	2	19-Apr-11	<del></del>
117	FLORISKRAAL DAM	Medium	High	3	19-Apr-11	
118	LEEU-GAMKA DAM	Medium	High	3		DSE In progress
119	KLIPBERG DAM	Medium	High	3	20-Apr-11	DSE In progress
120	BUFFELJAGS DAM	Medium	High	3	20-Jun-11	
121	KAMMANASSIE DAM	Large	High	3	20-Jun-11	
122	KLIPHEUWEL DAM	Medium	High		20-Jun-11	DSE in progress
123	MIERTJIESKRAAL DAM	Medium	High	3	21-Jun-11	
124	MAKOTSWANE DAM	Medium	Significant	3	22-Jun-11	
125	DISANENG DAM	Medium		2	12-Jul-11	
	BEVENSON DAM	Medium	Significant	2	3-Aug-11	
127	BUFFELSPOORT DAM	Large	Significant	2	10-Aug-11	DSE In progress
128	ROODEPLAAT DAM		High	3	15-Aug-11	
.129	DORINGRIVIER DAM	Large	High	3	15-Aug-11	
	LUBISI DAM	Medium	High	3	15-Aug-11	
	KWENA DAM	Large	High	3	15-Aug-11	
	MIDDEL LETABA DAM	Large	High	3	30-Aug-11	
	NCORA DAM	Large	High	3	31-Aug-11	
	CRAIGIE BURN	Large	High	3	1-Sep-11	
	KLIPDRIFT DAM	Large	High	3	7-Sep-11	
		Small	Significant	2	16-Sep-11	
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13		Large	e High		1400	
13	NAHOON DAM	Large		3		
13		Medi		3		
_13	9 LOERIE DAM	Medi		3		
14		Large	1 11 20 11	3		
14	1 TZANEEN	Large		3		
14:	2 VERGELEGEN DAM	Mediu		3		Raising
14:	3 BOSSIESPRUIT DAM	Mediu			28-Sep-11	
144	4 DREISELEN DAM	Mediu		2	12-Oct-11	
145	5 LEPELLANE DAM				25-Oct-11	
146	MOLATEDI DAM	Mediu			25-Oct-11	
147	LOTLAMORENG DAM	Mediu		3	31-Jan-12	
148	LAKENVALLEI DAM	Small	Significa		1-Apr-12	
149	GXETU DAM	Large	High	3	1-Apr-12	
150		Mediu			14-May-12	
151		Large	High	3	15-May-12	
152		Mediui		3	1-Aug-12	Rehab
153	TI TOTAL TOTAL	Large	High	3	18-Oct-12	
154		Large	High	3	19-Oct-12	
155		Mediur	n Significan	t 2	30-Oct-12	
156		Large	High	3	30-Oct-12	
157		Large	High	3	30-Oct-12	
	RUSTFONTEIN DAM	Large	High	3	26-Nov-12	
158	KNELLPOORT DAM	Large	High	3	26-Nov-12	
159	ERFENIS DAM	Large	High	3	27-Nov-12	
160	KOPPIES DAM	Medium	High	3	27-Nov-12	
161	DOORNDRAAI DAM	Medium		3	23-Jan-13	
162	GLEN ALPINE DAM	Medium	High	3	23-Jan-13	<del></del>
163	KLERKSKRAAL DAM	Medium		3	25-Jan-13	
164	TRICHARDTSFONTEIN DAM	Medium		3	2-Feb-13	
165	RHENOSTERKOP DAM	Large	High	3		
166	WOODSTOCK DAM	Large	High	3	7-Feb-13	
167	KILBURN DAM	Large	High	3	20-Feb-13	
168	WITKLIP DAM	Medium	High		20-Feb-13	DSE In progress
169	VLUGKRAAL DAM	Medium	Significant	3	27-Feb-13	
170	TONTELDOOS DAM	Medium		2	14-May-13	DSE In progress
171	SESHEGO DAM	Medium	Significant	2	14-May-13	
172	KORENTEPOORT DAM	Large	Significant	2	20-Jun-13	
173	CALIFORNIA DAM	Medium	High	3	28-Aug-13	
174	BLYDERIVIERSPOORT DAM		Significant	2	30-Sep-13	
175	MAGOEBASKLOOF DAM	Large	High	3	13-Jan-14	
176	VONDO DAM	Large	Significant	3	14-Jan-14	
177	PIETERSFONTEIN DAM	Large	High	3	15-Jan-14	
178	FIKA-PATSO DAM	Medium	High	3	21-Jan-14	
	KILBURN-OMGEWINGS NO.3DAM	Large	High	3	10-Mar-14	
	VLAKBULT DAM	Medium	Significant	2	11-Mar-14	
	TOURS DAM	Small	Significant	2	11-Mar-14	
		Medium	Significant	2	19-Mar-14	
	HARTBEESKUIL DAM	Medium	High	3	19-Mar-14	
	EBENEZER DAM	Large	High	3	24-Mar-14	
	KATRIVIER DAM	Large	High	3	24-Mar-14	
	HARTBEESPOORT DAM	Large	High	3	26-Mar-14	
186	ALBASINI DAM	Large	High	3	26-Mar-14	
	IOVERDONAL BALL		High	3	26-Mar-14	
187	VYGEBOOM DAM	Large			L MOTIVICITE 14	
187 N	KLASERIE					
187 N 188 H 189 E	KLASERIE BERGRIVIER DAM	Medium	High	3	28-Mar-14	
187 N 188 H 189 E 190 (	KLASERIE	Medium Large	High High	3	28-Mar-14 28-Mar-14	
187 N 188 H 189 E 190 C	KLASERIE BERGRIVIER DAM	Medium	High	3	28-Mar-14	

	192 KWAGGASKLOOF DAM-PAR	RT OF M	edium	High	3	14-May-1	1
<u> </u>	193   EGMONT DAM					14-May-1	4 D
			dium		3	22-May-1	1
	The state of the s	Me	dium	High	3		
		La	rge	High	3		
		Sm	all	High	2	19-Aug-14	D
	197 TIERKLOOF DAM		dium	Significan	it 2		
	198 NGWEKAZI DAM		dium	Significan		16-Sep-14	
	199 GEMSBOKHOEK		dium	Low		12-Nov-14	
	200 VERGELEGEN DAM		dium	Significant	2	25-Nov-14	
	201 BALURADAM	Med	dium	Low		30-Jan-15	
	202 KLIPVOOR DAM		dium	High	2	7-Feb-15	C
	203 TURFLOOP DAM		lium		3	25-Feb-15	
2	04 DOUGLAS WEIR	Sma		Significant		27-Feb-15	E
20	05 ROCKVIEW DAM			Significant		1-Mar-15	
20	06 BRANDVLEI DAM & GROTER	Larc		High	3	1-Mar-15	Е
	BRANDVLEI RESERVOIR	Med	ium	High	3	1-Mar-15	D
20	07 BIZANA DAM			<del> </del>			
	08 VAALHARTS-STUWAL	Med		Significant	2	11-Mar-15	С
20		Sma		High	2	13-Mar-15	D
21		Sma		High	2	16-Mar-15	D
21		Medi		Significant	2	18-Mar-15	
26	THE TOTAL PROPERTY OF THE PROP	Medi	um	Significant	2	20-Mar-15	C
21		Medi	um	Significant	2	24-Mar-15	D
		Smal		High	2	29-Mar-15	
213		Smal		Significant	2		D
214		Large		Significant	3	30-Mar-15	C
215		Small		High		31-Mar-15	В
216		Large		High	2	31-Mar-15	
217		Large		High	3	1-Apr-15	C
218		Large			3	1-Apr-15	С
219	ELANDSKLOOF DAM	Large		High	3	1-Apr-15	C
220	TSOJANA DAM	Mediu		High	3	1-Apr-15	С
221	CORANA			Significant	2	1-Apr-15	E
222		Mediu		Significant	2	1-Apr-15	D
223	SPIOENKOP DAM	Large		High	3	1-Apr-15	С
224		Small		ligh	3	1-Apr-15	C
225		Mediur		ligh	3	29-May-15	
226		Mediur		Significant	2	31-May-15	С
227	LOSKOP DAM	Small	S	Significant	2	6-Jul-15	E
228	NOOITCE DAOUT DAVI	Large	H	ligh	3	30-Jul-15	
229	NOOITGEDACHT DAM WESTOE DAM	Large		ligh	3	30-Jul-15	C B
230		Mediun	ı H	ligh	3	1-Nov-15	
231	JOZANASHOEK DAM	Large		ligh	3	2-Nov-15	С
232	KOMMANDODRIFT DAM	Large		igh	3	2-Nov-15	С
	DE MISTKRAAL	Medium		igh	3		A
233	JERICHO DAM	Medium		igh	3	21-Jan-16	C
234	PATENSIE BALANCING DAM	Medium		gnificant	2	30-Jan-16	С
235	SCHEEPERSVLAKTE DAM	Medium	_	gh		29-Feb-16	C
236	THRIFT DAM (MOUNTHOPE)	Medium		gnificant	3	7-Mar-16	A
237	ZAAIHOEK DAM	Large			2	7-Mar-16	E
238	MUTSHEDZI DAM	Medium	His		3	7-Mar-16	A
239	WOLWEDANS DAM			gnificant	2	14-Mar-16	С
240	SCHEEPERS DAM	Large	Hig		3	15-Mar-16	С
241	MIDMAR DAM	Small		nificant	2	15-Mar-16	С
242	XIKUNDU STUWAL	Large	Hig		3	25-Mar-16	C
243	DUTHUNI DAM	Medium	Sig	nificant	2	29-Mar-16	C
244	PHIPHIDI	Small		nificant	2	29-Mar-16	В
- 1 1	VAL ASSEMBLY	Medium	Sig	nificant	2	29-Mar-16	C
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24	5 MODJADJI DAM	Medi	um	High	3	1 50 1		
24	- TOROT DAM	Mediu	um	High	3	77701		C
24		Mediu		Significant	1 2			C
	LIVE TO LEGINAL DAIVI	Mediu		Significant				С
249		Large		High		29-Mar-1		A
250		Small		Significant	3	29-Mar-1		С
251	<u></u>	Constit		Significant		29-Mar-1		A
252		Small		Significant		29-Mar-1		C
253	I SHAKHUMA DAM	Large		Significant High	2	30-Mar-1	6	E
254	- LEOKITA DAIV	Small			3	30-Mar-1		
255	TITLE ONLY	Mediur		Significant	2	30-Mar-1		С
256	BLUECRANE DAM	Small		Significant	2	30-Mar-16		В
257	WAGENDRIFT DAM	Large		Significant	2	30-Mar-16		C
258	HEYSHOPE DAM			High	3	30-Mar-16	;	C
259	MORGENSTOND DAM	Mediun		High	3	30-Mar-16		C
260	SPITSKOPKRAAL DAM	Large		Significant	3	30-Mar-16		D
261	VANDERKLOOF DAM	Medium		Significant	2	31-Mar-16		D
77	FLAG BOSHIELO	Large		ligh	3	31-Mar-16		C
262	BOTTERKLOOF DAM	Large		ligh	3	3-May-16		
263	MOLEPO DAM	Medium	$\rightarrow$	Significant	2	30-Mar-17		В
264	PELLA DAM	Medium		Significant	2	31-Mar-17		D
265	MAHLANGU DAM	Medium		ligh	3	19-Jun-17		C
266	MIDDELKRAAL DAM	Medium		ignificant	2	6-Jul-17		
267	MASHASHANE DAM	Small	S	ignificant	2	7-Jul-17		D
268	THAPANA DAM	Medium	Si	ignificant	2	12-Jul-17		
269	NEUSBERG WEIR	Medium		gnificant	2	27-Jul-17		
270	DUIVENHOKS DAM	Medium		DW W	2	8-Sep-17		
271	PLEASANTVIEW DAM	Large		gh	3	18-Sep-17		В
272	SINQUMENI DAM	Medium	Sig	gnificant	2	20-Sep-17		С
	MABELENI DAM	Medium	Lo		2	22-Sep-17		В
	NGOTWANE DAM	Medium	Sig	nificant	2	26-Sep-17		D
	ACORNHOEK DAM	Medium	Sig	nificant	2	23-Oct-17		С
	MISVERSTAND-STUWAL	Medium	Lov		2	31-Oct-17		
	CHUNIESPOORT DAM	Medium	Sia	nificant	2	18-Jan-18		D
	SEHILIWANE DAM	Medium		nificant	2	10-Jan-18		
79	SEHUJWANE DAM	Medium		nificant	2	11-May-18		
	EDINBURGH DAM	Medium	Hig	h	3	24-May-18		
81 [	LOLA MONTES DAM	Medium		nificant	2	8-Aug-18		
	DE HOOP DAM	Large	High		3	27-Aug-18	-	
	TO BALANCING DAM	Small		nificant	2		DSE	In progress
	WITHAANSDRIFT WEIR	Small		nificant				
84 L	UDEKE DAM		High		2			
35 S	PRING GROVE DAM		High		3		DSE	n progress
	MUNDTS CONCESSION DAM	Medium	i ngn		3			3.500