



LEGEND	
SOUTHERN WORKS BOUNDARY	---
LOCATION OF EXISTING ZONES TO BE REFURBISHED / UPGRADED	
LOCATION OF PROPOSED NEW WORK ZONES	

**SITE DETAILS**  
 LOCATION: 30°58'22.64"E, 29°57'22.57"S  
 THE SOUTHERN WASTEWATER TREATMENT WORKS IS LOCATED ON 2 BADULLA DRIVE, MEREMERT ON THE NORTH-EASTERN BANK OF THE UMLAAS CANAL. THE WWTW IS SURROUNDED BY RESIDENTIAL AND INDUSTRIAL DEVELOPMENT.  
 ACCESS:  
 TO ACCESS THE SOUTHERN WWTW, TAKE EXIT 8 OFF THE M4 SOUTHERN FREEWAY INTO DURBAN ROAD HEADING TOWARDS MEREMERT. TURN LEFT INTO BASIL FEBRUARY ROAD WHICH THEN CONTINUES INTO BADULLA DRIVE, LEADING TO THE WORKS.

ZONE	PROCESS	SCOPE OF WORKS		CO-ORDINATES		
		DESCRIPTION	POINT	Y	X	
A	PRIMARY TREATMENT	REFURBISHMENT OF 2x 30ML/G PRIMARY SEDIMENTATION TANKS, EFFLUENT CHANNEL & SPLITTER BOX.	A	-2666.235	3315281.274	
B	PRIMARY TREATMENT	UPGRADE & REFURBISHMENT OF EXISTING PRIMARY SLUDGE PUMP STATION.	A	-2694.280	3315314.522	
C	SLUDGE THICKENING	INSTALLATION OF SLUDGE DEGRITTING FACILITY.	B	-2666.227	3315314.154	
D	SLUDGE THICKENING	REFURBISHMENT OF EXISTING SLUDGE THICKENER & PUMP STATION.	B	-2659.502	3315372.574	
E	SLUDGE THICKENING	CONSTRUCTION OF A NEW SLUDGE THICKENER & PUMP STATION.	C	-2612.642	3315291.106	
F	SLUDGE DIGESTION	REFURBISHMENT OF EXISTING 2x PRIMARY DIGESTERS & ASSOCIATED HEATING & MIXING FACILITY.	D	-2606.229	3315274.035	
G	SLUDGE DIGESTION	CONSTRUCTION OF 2x NEW PRIMARY DIGESTERS & ASSOCIATED HEATING & MIXING FACILITY.	E	-2575.817	3315298.274	
H	SLUDGE DIGESTION	REFURBISHMENT OF EXISTING SECONDARY DIGESTER & PUMP STATION.	F	-2617.402	3315244.279	
I	SLUDGE DIGESTION	CONSTRUCTION OF A NEW SECONDARY DIGESTER & PUMP STATION.	F	-2648.033	3315246.609	
J	BIO-GAS STORAGE	REFURBISHMENT OF EXISTING GAS HOLDER.	G	-2532.852	3315334.377	
K	BIO-GAS STORAGE	CONSTRUCTION OF A NEW GAS HOLDER.	H	-2536.509	3315301.880	
L	SLUDGE DEWATERING	CONSTRUCTION OF A NEW SLUDGE DEWATERING FACILITY.	I	-2597.089	3315211.000	
M	SLUDGE DRYING	CONSTRUCTION OF A NEW SLUDGE DRYING FACILITY.	J	-2515.387	3315279.324	
N	GENERAL WORKS	CONSTRUCTION OF A NEW TANKER BAY FACILITY AND ACCESS ROAD.	K	-2573.968	3315230.845	
O	FINAL EFFLUENT DISCHARGE	CONSTRUCTION OF A NEW 21ML RAW SEWAGE STORAGE BASIN.	L	-2538.494	3315258.945	
P	FINAL EFFLUENT DISCHARGE	UPGRADE OF EXISTING LOW-LIFT PUMP EFFLUENT PUMP STATION.	M	-2589.040	3315176.375	
Q	FINAL EFFLUENT DISCHARGE	PORTION OF LAND BASED SEA-OUTFALL TO BE REPLACED.	N	-2381.284	3315103.097	
			O	-2578.579	3316054.498	
			P	-2573.106	3316150.938	
			Q	-2015.417	3316565.118	

AECOM Drawing No. J01945-- 01 - WAT - 01-001 - P - 00

**AECOM**  
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THE MASTER HELD AT THE AECOM DURBAN OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL

FUNCTION	NAME	SIGNATURE
DESIGNED BY	A KARODIA	N/A
DRAWN BY	A KARODIA	N/A
DESIGN CHECKED BY	S. JUCWANTH	N/A
DRAWING CHECKED BY	S. JUCWANTH	N/A
APPROVAL - CONSULTANT		
NAME	H von STADEN	SIGNATURE
DATE		PROFESSIONAL REG No. 980529

NOTES:  
 a) Acceptance of this plan by Ethekwini Water and Sanitation shall not in anyway imply the acceptance by the said of any responsibility or liability for the accuracy or efficacy of any structure or design shown thereon.  
 b) I, the undersigned in exercise of the copyright in the plan which this endorsement appears in terms of Section 21 of the Copyright Act 1978 (Act 96 of 1978) by virtue of the fact that:  
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 do hereby assign such copyright for all purpose to the Ethekwini Water and Sanitation.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

AS BUILT: \_\_\_\_\_ DATE: \_\_\_\_\_

SIGN: \_\_\_\_\_

REVISIONS

Revision	Date	Description
00	05/02/2014	PRELIMINARY ISSUE

UNDERGROUND SERVICES CHECKED		
SERVICE	DATE	SIGNATURE
S.W DRAINS		
SEWERS		
WATER MAINS		
TELKOM CABLES		
ELECTRIC CABLES		
SPOORNET CABLES		
E.S.C. CABLES		
OIL PIPE LINE		

NOTE: Only underground services affected by new construction work are shown.  
 Care must be taken during excavations for road foundations, trenches etc, to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Wherever possible these must be located before work proceeds.

WATER AND SANITATION



TECHNICAL SUPPORT: DESIGN BRANCH

Contract No. PSC.2012/002

Project Title SOUTHERN WASTEWATER TREATMENT WORKS

Project No. (-)  
 Drawing Title LAYOUT & SCOPE OF WORKS

Works Project Engineer: K. BRACKENBURY

Manager : (Design): D. LARKIN

Deputy Head : Technical Support: F.B STEVENS

Drawing No.	Sheet	Rev.
54931/C/01/001/P	1 OF 1	00

