

THE GOVERNMENT OF THE FALKLAND ISLANDS

SUPPLEMENTARY REPORT  
ON THE  
PORT STANLEY  
WATER SUPPLY

APRIL 1977

Crown Agents for Oversea  
Government and Administrations  
4 Millbank  
LONDON SW1P 3JD

Ref Q367/44

(Under assignment by the Ministry of Overseas Development)

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His Excellency  
The Governor  
Port Stanley  
FALKLAND ISLAND

Our ref Q367/44

Your ref

Date 27 April 1977

Dear Sir

PORT STANLEY WATER SUPPLY  
FIRE-FIGHTING WATER SYSTEM

The proposals contained in Chapter 8 of our Report sent you in March last were based on hydrant flow requirements laid down by Assistant Divisional Officer D Davis after he had been in Stanley only a week. From the information he managed to gather during the remainder of his visit he was able to reduce his water requirements considerably. Our Mr Smith saw Mr Davis shortly after his return to the UK and from the discussion they had it was thought desirable to offer an amended scheme based on Mr Davis's revised requirements.

2 We now have pleasure in sending you ten copies of our Supplementary Report from which you will note that it has been found possible to reduce the FOB costs of the materials required for the recommended new mains etc by about 29%.

Yours faithfully

N B DYKE  
Head of Engineering Advisory  
Services Division

SU/VS/21

- 1 This Supplementary Report should be read in conjunction with Chapter 8 of our Report on the Port Stanley Water Supply - March 1977.
- 2 In paragraph 8.2 of our Report it was stated that Assistant Divisional Officer Davis recommended that three adjacent hydrants should each be capable of supplying not less than 450 g.p.m. with a residual pressure of not less than 25 p.s.i. He now considers that one third of this flow per hydrant would be adequate. The revised scheme which we now propose is based therefore on a flow of not less than 150 g.p.m. from each of three adjacent hydrants with a residual pressure of not less than 25 p.s.i.
- 3 Our revised scheme is detailed in the attached Appendices numbered 8A, 9A and 10A and correspond with Appendices 8, 9 and 10 in our original Report.
- 4 In general it will be noted that it has been found possible to reduce the diameter of the 12 inch (300 ND) main to 8 inch (200 ND), the ring main from 10 inch (250 ND) to 8 inch (200 ND), 8 inch (200 ND) mains to 6 inch (150 ND) and 6 inch (150 ND) mains to 4 inch (100 ND). There is one exception to this that is the length of main between Hydrants 1 and 2 has been left at 6 inch (150 ND) so as to provide about 50% more water than laying this length with 4 inch pipe would provide. In view of the high fire risk at the YPF Oil Depot we considered the small extra cost worthwhile.
- 5 The revision to the estimated FOB costs set out in paragraph 2.3.2 of our Report are as follows:-

	£
5.1 Hydrants	1386
5.2 Sluice Valves	1609
5.3 Indicator Plates and Posts	320
5.4 Pipes	52493
5.5 Duplicate Tank	18464
5.6 Pumps and Control Gear	1000
5.7 Miscellaneous	3764
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Estimated Total FOB	£79,036
UK Port Cost	<hr/> <hr/>

## SCHEDULE OF RECOMMENDED HYDRANTS

No	Location	Main dia mm
1	Ross Rd East outside YPF Depot	150
2	Ross Rd " near Cemetary	150
3	" " " outside FIC Store	150
4	" " " near Globe Hotel	100
5	Public Jetty	100
6	Ross Rd	100
7	" " by Upland Goose	100
8	" " by Town Hall	100
9	" " near Secretariat	100
10	" " junc Reservoir Road	150
11	Ross Rd West by Governor's House	150
12	" " " junc Race Course Rd	150
13	Race Course Road	100
14	Ross Rd West nr Sullivan House	150
15	" " "	100
16	James Street	100
17	Crn Philomel Hill and John St	200
18	Crn John St and Dean St	200
19	John St nr School	200
20	St Marys Walk	200
21	" " "	200
22	Crn St Marys Walk and Reservoir Rd	200
23	Fitzroy Road East	100

No	Location	Main dia mm
24	Crn Fitzroy Rd East & Hebe St	200
25	" " " " & Philomell Hill	200
26	" " " " & Dean St	100
27	" " " " & Villiers St	100
28	Crn Drury St & Brisbane Rd	100
29	Pioneer Rd	100
30	Crn Moody St & King St	100
31	Crn " " & Reservoir Rd	100
32	" Kent Rd & Glasgow Rd	100
33	Crn Brandon Rd & Brisbane Rd	150
34	" " " & Davis St	200
35	Davis St (East end)	100
36	Crn Davis St & Hebe St	200
37	" " " & Philomell Hill	200
38	" " " & Dean St	200
39	" " " & Villiers St	200
40	" " " & Dairy Paddock Rd	200
41	Callaghan Rd	100
42	" "	100

SCHEDULE OF RECOMMENDED MAINS AND  
ISOLATING VALVES FOR NEW FIRE FIGHTING SUPPLY

Code	Length (metres)/No Sluice Valves			Hydrants
	100 ND	150 ND	200 ND	
B-D			315/1	2
D-E			170/-	1
E-F			10/-	
F-G			160/-	1
G-H			10/-	1
H-J			200/1	1
J-K			150/-	2
K-L			150/-	
L-N			130/-	1
N-W			285/1	1
W-P			310/1	1
P-R			435/1	2
R-T			240/1	1
T-B			150/-	1
A-A'	140/1			1
A-A''		730/1		3
B-B'	220/1			1
C-C'	75/-			1
C-C''	90/-			1
D-C	65/1			
E-E'	80/1			1
F-F'	100/1			1
G-G'	80/1			1

Code	Length (metres)/No Sluice Valves			Hydrants
	100ND	150 ND	200 ND	
H-H'	100/1			1
J-J'	110/1			1
K-K'	120/1			1
L-M		180/1	440	2
M-M'	170/1			2
M-M''	275/-	210/1		2
N-N'	240/1			2
W-W'			1300	
P-Q		60/1		1
Q-Q'	50/-			1
Q-Q''	85/-			1
R-S		90/1		
S-S'	180/-			1
S-S''	125/-			1
T-U		140/1		
U-U'	130/-			1
U-U''	60/-			1
Totals	2495/11	1410/6	4455/5	42



ESTIMATED FLOWS FROM SAMPLE GROUPS  
OF 3 NO HYDRANTS RUNNING FULL BORE

No	Position	Est Height ft ASL	Est Flow gpm
1	Ross Road East by YPF Depot	10	210
2	Ross Road East by Cemetary	10	255
3	Ross Road East by FI Co	10	357
4	Ross Road East by Globe Hotel	20	264
5	On Public Jetty	10	253
17	Corner Philomel Hill and John Street	40	304
12	Corner Ross Road West Racecourse Road	20	256
13	Racecourse Road	30	106
14	Ross Road West nr Sullivan House	10	280
12	Corner Ross Road West and Racecourse Road	20	256
14	Ross Road West nr Sullivan House	10	254
15	Ross Road West nr Army Camp	10	132
37	Corner Davis St and Philomel Hill	115	267
41	Callaghan Road	120	129
42	" "	120	141

No	Position	Est Height ft ASL	Est Flow gpm
32	Kent Road	105	212
35	Davis Street (East end)	115	127
36	Corner Davis St & Hebe Street	115	221
16	James St	50	268
23	Fitzroy Rd East	70	165
24	Corner Fitzroy Road & Hebe St	70	292
2	Ross Road East by Cemetary	10	333
3	Ross Road East by FI Co	10	385
16	James Street	50	150