l

W

**B**

**P**

Brandford, Dealesville

**I**

*Lower Riet Irrig Board*

Vaal River

**I**

**I**

*Douglas Weir*

**I**

*Scholzburg and Ritchie Irrig Board*

**I**

**I**

LOWER ORANGE WMA

*Krugersdrift*

Riet River

Modder

Modder River GWS

Orange-Vaal Canal

Hamilton Park

**B**

*Riet River GWS*

Jacobsdal, Ritchie

**S**

**I**

*Mazelspoort Weir*

**B**

**P**

W

 *Kalkfontein Irrig Board*

W

**P**

**P**

Bloemfontein

De Brug, Brandkop, Bloemspruit and Grootvlei

 *Marksdrift*

**B**

**S**

W

Orange

**P**

Kaalfontein Canal

**B**

**B**

 S

W

Ramah Branch Canal

Koffiefontein

*Mockes*

*Boesmanskop*

**B**

Caledon Bloemfontein

*Orange-Riet Irrig Control*

**P**

**I**

 *Lesaka*

Botshabelo

**I**

Orange-Riet Canal

W

 W

 S

Thaba Nchu

**P**

*Kalkfontein*

*Rustfontein*

**B**

W

Scheiding

PW

**I**

Tierpoort Irrig. Board

Tierpoort

**I**

Reddersburg, Edenburg, Luckhoff, Opperman

**H**

*Groothoek*

**P**

**B**

Uitkyk

**B**

**B**

Dewetsdorp

*VanderKloof*

**MODDER / RIET CATCHMENT**

**B**

W

Springfontein, Bethulie, Trompsburg and Phillipolis

De Hoek

 Knellpoort

**UPPER ORANGE WMA**

**B**

S

Zastron, Wepener, Ficksburg, Clocolan, Clarens

Vanderkloof GWS

*Armenia*

**P**

Balancing Dam

Reservoir

Urban

Tunnel

WMA boundary

Purification Works

W

**B**

**H**

**I**

S

**P**

Irrigation Scheme

 Water Flow

 Hydro Power

Sewerage Treatment Work

 Pumpstation

 Pipeline / Canal

 **I**

**P**

**B**

**B**

**P**

S

Aliwal North

Smithfield, Rouxville, Welbedacht,

**I**

Colesberg, Hopetown, Vanderkloof, Orania

**P**

**P**

*Makhaleng*

**LESOTHO**

**Appendix A3: Schematic Diagram of the Upper OrangeWMA**

Caledon

 W

*Welbedacht*

W

 *Gariep*

S

W

 *Egmont*

**I**

**P**

**P**

**I**

 Orange-Fish Tunnel

Orange River

 Tienfontein

 Novo

**I**

 *Bethulie*

**I**

H