



IMPLEMENTATION OF ENVIRONMENTAL, HEALTH AND SAFETY SYSTEMS IN WATER SUPPLY INDUSTRY

Roland A David; Consultant





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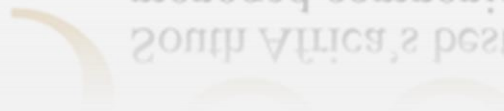
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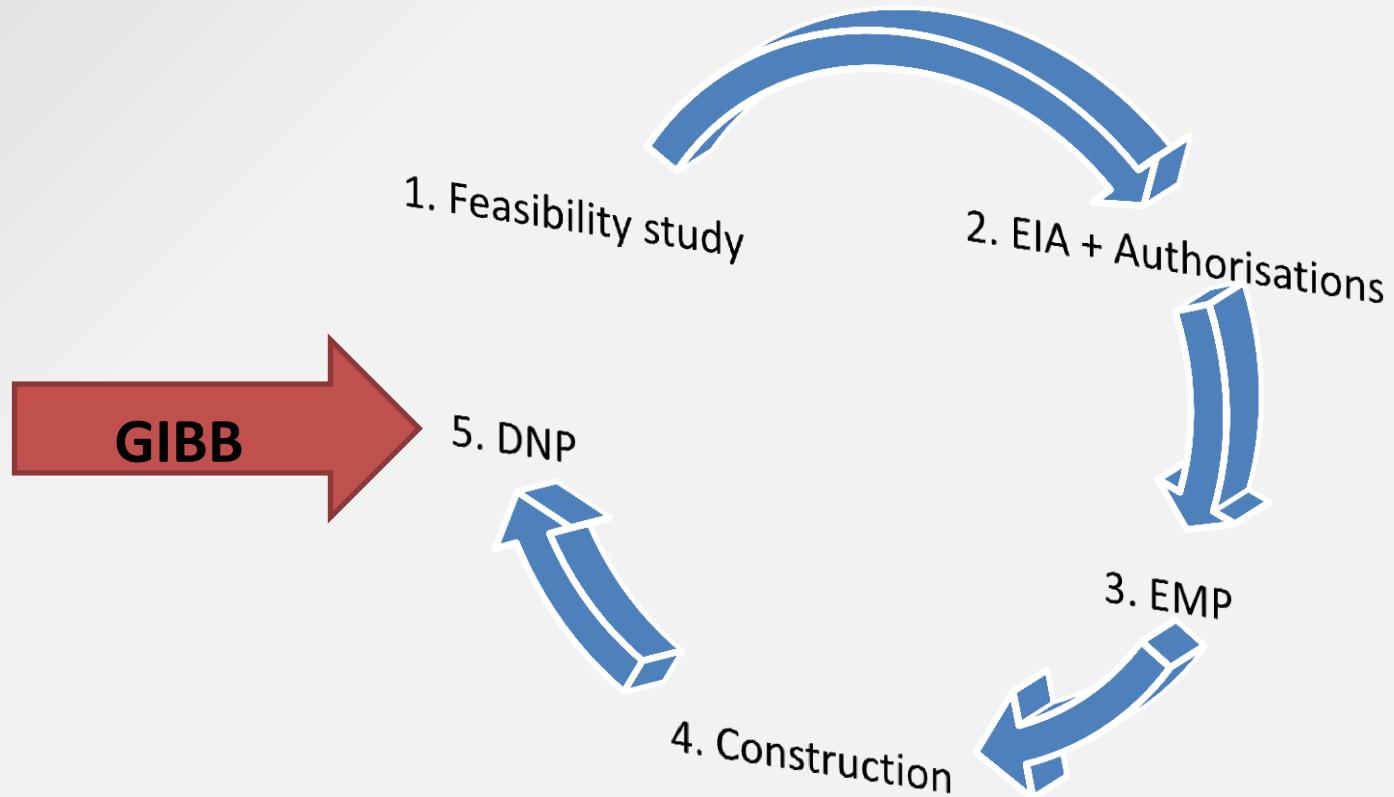
SWAZILAND

PROJECT OVERVIEW



- 4 packages
- 9 towns
 - Intakes
 - Pump stations
 - Treatment works
 - Reservoirs
 - Kiosks
- 8 rehabilitation and/or upgrade
- 1 completely new facility





- Review EMP
- Review SSEMP against EMP
- Operation and maintenance (O+M) manuals
- Asset management strategy (AMS)



AUDITS + INSPECTIONS



- Effectiveness of erosion control measures
- Storm water management systems
- Rehab measures
- Monitor new grievances
- Hazardous materials and waste



DEFECTS NOTIFICATION ACTIVITIES



- Ensuring active and passive control measures
- Compliance to Local and international guidelines
- H&S compliance



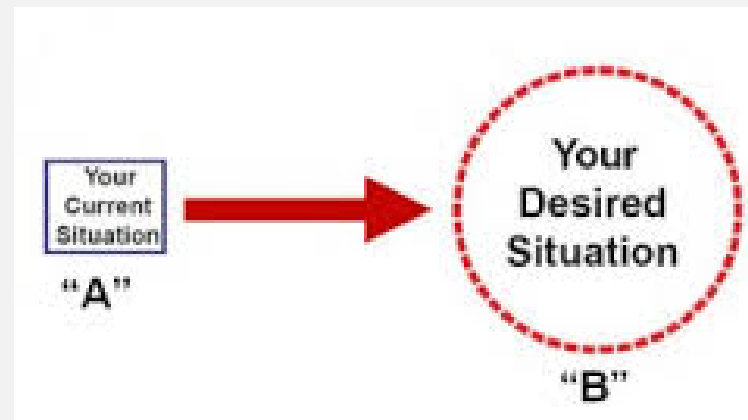


- Evaluate levels of readiness of related personnel
- Assess performance against AMS and O+M
- Develop training plan





NO DOCUMENTATION





- Audit
 - Information gathering
 - “Situation on the ground”
 - Understanding of the problems
 - Evaluate levels of training
 - Identify risk
 - Propose mitigation measures
 - Consult with contractor to resolve issues relating to construction activities

What is
the plan?



PLAN OF ACTION



- Document review
 - Review of EMP
 - Review of SSEMP
 - Review of AMS
 - Review of O+M manuals
- Outcome
 - Seriously lacking with regards to EHS issues



- **DOCUMENTATION**
- Review draft EHS Policy
- Review draft EMS
- Update system docs to meet international standards
- Develop procedures
- Train
- Implement
- Review



CONCLUSION



- Lack of documentation is the “Waterfall”
- Cannot implement management principles without **documentation**
- Cannot train without **documentation**
- Cannot evaluate without **documentation**



- Contract an EHS consultant from the beginning
- ECO is environmentally oriented.
- If no documentation exists start developing as soon as EMP is approved.





- [illegible]

THANK YOU



CONTACT DETAILS



Roland A David

Cell: 083 799 1068

Email: rdavid@gibb.co.za



Head Office

Johannesburg

South Africa

14 Eglin Road

Sunninghill 2191

Tel: +27 11 519 4600

Fax: +27 11 807 5670

www.gibb.co.za