TURN-KEY WATER SOLUTIONS FOR MINING
END-TO-END WATER MANAGEMENT SOLUTIONS

WHY CHOOSE TOTAL EDEN? BECAUSE WE OFFER COMPLETE SOLUTIONS FOR FLUIDS MANAGEMENT IN MINING.

It is imperative that water in mining is managed efficiently and effectively. It is also imperative that mining operators have a solid, dependable water management products and service supplier.

At Total Eden, we can deliver a complete range of solutions for every situation. By dealing with one contractor for your water, fluid, and environmental management projects, you can improve your bottom line by increasing your logistical and operational efficiencies.

Our experience in delivering successful turn-key water management systems for mining projects large and small makes us a market leader in the industry.

CONSULTATION
RECOMMENDATION
SYSTEM DESIGN
DELIVERY / IMPLEMENTATION
MAINTENANCE / SUPPORT
REPORTING
PUMPS IN MINING


We design, build, commission and certify all types of projects including ongoing maintenance for large scale pumping stations and commercial water bores.

OUR SOLUTIONS INCLUDE:

- Dewatering & dispersal systems
- Treatment & filtration systems
- Drainage systems
- Well points & boreholes
- Floating pumps & pontoons
- Transfer pipelines & storage
- Electromagnetic & mechanical water meters

We can provide you with the very latest advances in pump equipment and associated technologies. We provide stand alone and packaged pump sets for water treatment, transfer and re-use to suit all flow requirements.

With access to leading brands including Grundfos, Tyco, Franklin, Lowara and Davey, you can trust us to get the job done effectively and efficiently.
WATER AND FLUID TRANSMISSION

WHEN IT COMES TO THE TRANSMISSION OF WATER OR FLUIDS BY PIPELINES, WE HAVE IT COVERED.

We offer a full range of water transfer solutions whether pumping from a pit, tank, dam or any other large water source including electric submersible pumps for transferring large volumes.

We offer pipeline construction and maintenance for polyethylene piping systems up to 1200mm diameter, as well as specialist piping systems for fluid transmission constructed from CPVC, HDPE and stainless steel.

OUR SOLUTIONS INCLUDE:

• Supply of polyethylene pipe & fittings
• Poly fabrication
• Pipe & riser systems
• Water supply & fixed sprinkler systems
• Pivot & lateral irrigators
• Valves and components
• Floating pumps & pontoons

CLIENT

BHP BILLITON
Rehabilitation Project
Pilbara Region

CLIENT

Arrow Energy
Release and re-use irrigation system
Central QLD
MONITORING THE ENVIRONMENT

OUR REAL-TIME DATA SOLUTIONS ALLOW YOU TO MANAGE WATER FLOWS AND TRANSMISSIONS MORE EFFECTIVELY.

We provide fully integrated solutions for water monitoring in mining operations using Supervisory Control And Data Acquisition (SCADA), Telemetry Technology and Central Control Systems for monitoring water and turbidity in mining operations.

Using these systems, mine operators are able to manage plant and equipment for a variety of water transmission applications including waste water treatment, environmental flows, natural gas and irrigation applications.

For mobile staff and remotely located equipment, we offer a detailed level of system monitoring and control directly via Smartphone or Tablet, enabling staff to remotely monitor and control equipment wherever they are in the world via the 3G, 4G and 5G GSM network.
WASTE WATER TREATMENT

SOLUTIONS FOR THE TREATMENT OF SEWAGE, POTABLE WATER FOR MINING CAMPS, TREATED WATER FOR EQUIPMENT COOLING, DUST SUPPRESSION, DISPERSAL OR RE-USE.

Our aim is to provide the most cost effective, water treatment systems available to ensure that contaminated waste water does not re-enter the biosphere and that treated waste water can be re-used on site.

Our turn-key capabilities and solutions focus on:

**Pre-treatment**
- Storage & sediment ponds
- Tanks

**Macro filtration**
- Water treatment plants

**Micro filtration**
- Reverse osmosis
- Ultra filtration (UF) membrane
- UV sterilisation
- Particle filtration & dosing

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**CLIENT**

**RIO TINTO**
Hamersley Agricultural Project
Near Tom Price, WA

**CLIENT**

**NEWCREST MINING**
Filtration allows gold mine to operate 24/7
Telfer, WA
We design and deliver practical water storage and re-use solutions for mine sites including turn-key solutions for:

**Aquifer recharge and environmental surface flows**
Including boreholes, transfer pipelines, pumps, filtration and automation systems.

**Dust suppression and coal washing**
Dams, sprinklers, pumps and pipelines, water treatment.

**Process operations**
Tanks, pipelines, filtration and pumping systems.

**Irrigation**
Dams, pivots & lateral sprinklers, soil moisture sensing and automated control systems.

**Stock watering**
Storage tanks, dams, stock troughs, pumps and pipelines.
ENVIROMENTAL CONTROL & RE-USE

ONE CONTRACTOR, COMPLETE SOLUTIONS.

We deliver custom solutions for treatment, re-injection and re-use of water around the mine site.

Dust Suppression
As a distributor of Nelson Sprinklers we are able to provide market leading products.

Re-vegetation & Irrigation
We specialise in the design, supply and installation of mainline, pivot & lateral move irrigators, large volume sprinklers, drip irrigation products and pumping stations.

Landscapes in Mine Camps
Using mining discharge water or bores, we can provide sustainable landscapes in mine camps.

Coal Washing & Tailing Management
We provide closed water circuit systems and efficient tailings disposal to satisfy both economic and environmental demands in these critical areas.
WATER IN MINING

END-TO-END WATER MANAGEMENT SOLUTIONS FOR MINE CAMPS.

We provide turn-key solutions that optimise water management and re-use options in mine camps. Our expertise covers, supply, transfer treatment, storage and use / re-use.

We also have the knowhow to construct practical, sustainable and aesthetic landscapes using indigenous plants and native backdrops for remote mining accommodation projects.
SERVICES, REPAIRS & SUPPLY

TOTAL EDEN ENGINEERING ARE A LEADING SERVICE PROVIDER TO ALL MAJOR MAKES AND MODELS UTILISED IN THE MINING, AGRICULTURE, GOVERNMENT AND MUNICIPAL MARKETS.

We provide a full service if required by utilising our mine spec crane trucks to remove pumps and infrastructure, return them to our state-of-the-art workshop facility and complete full photographic inspection reports for our clients.

We have one of the highest supply chain securities allowing us to work directly with all of the major manufacturers on a national and international level. We provide immediate support for Wellmaster products, Grundfos, Lowara, KSB, Franklin and Calpeda and one of the widest ranges of instrumentation support from Endress & Houser, Krohne and many more market leading manufacturers.

We pride ourselves on having full in house fabrication facilities and fully qualified and certified fabricators. We can manufacture all water transmission related products in house from basic headworks sets through to client specified and bespoke engineered solutions.
OHS&E

MANAGEMENT OF RISK.

Our ongoing goal is zero harm and zero environmental incidents.

OUR ACCREDITATIONS INCLUDE:

**AS/NZS 4801:2001 - Australian/New Zealand**
Occupational Health and Safety Management Systems

**OHSAS 18001:2007 – International**
Occupational Health and Safety Management Systems

**Australian Government Federal**
Building and Construction OHS Accreditation Scheme OHS&E

**NSW Government OHS**
Management Systems Guidelines

Our Environmental Policy and Project Specific Environmental Management Plans are based on AS/NZS ISO 14001 – Environmental Management Systems.