CIVIL PROJECTS

Underpinned by our commitment to building strong client relationships, Indus draws upon its deep local networks and dedicated team of skilled civil industry professionals to ensure the best project outcomes for our clients.
**Kwinana Hydrogen Plant**  
*Kwinana, Western Australia*

Works on this two-stage contract involved earthworks and the installation of stormwater drainage, oily water drainage, a fire water system, pulling pits and conduits for electrical and instrumental cables and the construction of reinforced concrete footings.

- **$4 Million**  
- **2010-2011**  
- **BHP Billiton**

**Tropicana Gold Project Airstrip and Bulk Earthworks**  
*North-east of Kalgoorlie, Western Australia*

The Tropicana Gold Airstrip project is located approximately 330km east northeast of Kalgoorlie Western Australia. The project comprised construction of an airstrip including the runway seal, Plant Pad (300,000m3 cut/fill/waste), a 250m road and 200m Primary Diversion Channel 1.

- **$18 Million**  
- **2011-2012**  
- **AngloGold Ashanti**  
- **Airstrip Construction and bulk earthworks**

**DeGrussa Copper Mine Tailings Storage Facility**  
*North of Meekatharra, Western Australia*

Indus was involved with the DeGrussa Copper Mine Tailings Storage Facility (TSF) from its inception and further lifts. Indus constructed the initial TSF in 2012, returned to construct Lift 1 in 2013 and most recently Lift 2 construction was completed in 2015.

- **$12 Million**  
- **2011-2015**  
- **Sandfire Resources**  
- **TSF Construction**

**Tropicana Gold Project Tailings Storage Facility**  
*North-east of Kalgoorlie, Western Australia*

The TSF consisted of 180,000m3 of low permeability material placed 6m wide on the face of an existing embankment. The floor of the facility was lined with a 200mm thick low permeability liner and 200mm sand protection layer totalling 1,800,000m2 with 230,000m2 lined with a 1.5mm HDPE liner.

- **$24 Million**  
- **2012-2013**  
- **AngloGold Ashanti**  
- **TSF Construction**
INDUS VALUES: COMMITMENT  RESPECT  ONE TEAM  COLLABORATION  INNOVATION

**Nova Nickel Project Tailings Storage Facility**
**Norseman, Western Australia**

The tailings storage facility for Sirius Resources’ Nova Nickel Project featured an aboveground impoundment covering 65 hectares with a maximum embankment height of 13.5m containing 800,000m^3^.

A composite liner system consisting of 300mm clay and a 2mm HDPE liner and an area of 570,000m^2^ was installed across the basin footprint and embankment walls.

- **$18 Million**
- **2015**
- **Sirius Resources**
- **TSF Construction**

**Muja Power Station Fly Ash Dam Embankment Lift**
**Collie, Western Australia**

Indus was contracted to construct an embankment raise on a Fly Ash Dam (FAD) along with associated drainage and infrastructure works. Additional load and haul work to empty the Bottom Ash Dam (BAD) (120,000 BCM).

- **$3 Million**
- **2016-2017**
- **Synergy**
- **Dam Raise**

**Kanowna Belle Tailings Storage Facility**
**Kalgoorlie, WA**

The project covered the construction of the starter embankments, decant access causeways, decant structures, under drainage and associated infrastructure for a tailings storage facility located at Kanowna Belle Gold mine.

- **$6 Million**
- **2018**
- **Northern Star Resources Limited**
- **TSF Construction**

**Jundee Tailings Storage Facility**
**Located near Wiluna WA, approximately 1000km North East of Perth**

The project involved the raising of TSF #1 and TSF #2. This involves bulk earthworks to raise the perimeter embankments using compacted mine waste which will be sourced from stock piles up to 4.1km away. Other works include the raising of the decant access way on both TSF and the raising of the existing decant structures.

- **$3 Million**
- **2018 - 2019**
- **Northern Star Resources Limited**
- **TSF Construction**
RESOURCE AND ENERGY INFRASTRUCTURE

Capel Dam HDPE Reline

Capel, WA

This project is located at Iluka Resources North Capel operation, located 25km south of Bunbury in Western Australia. Indus was contracted to complete the excavation and reline of one 3500m³ Acid Effluent Dam, one 25,000m² Iron Oxide Dam and to excavate and form up a new 80,000m³ Inert Waste Pit.

$1.7 Million
2018-2019
Iluka Resources
Reline
### Binningup Desalination Plant  
**Binningup, Western Australia**

This contract involved the excavation, installation and backfill of pipework; construction of reinforced concrete anchor blocks, building foundations, culverts, ring beams and ground slabs; installation of culverts along with drainage and road works. Indus also constructed the access roads, completed bulk earthworks and early civil works for this contract.

- **$25 Million**
- 2009-2011
- Southern Seawater Alliance
- Construction of desalination plant

### Jurien Bay Boat Ramps  
**Jurien Bay, Western Australia**

The Department of Transport undertook expansion works to the existing boat launching ramp at Jurien Bay Harbour to overcome the congestion on both land and water at the existing facility. Indus widened the existing boat ramp and constructed two additional ramps to double its capacity. Modifications and extensions to the existing car park were also completed.

- **$1 Million**
- 2012
- Transfield Services
- Boat ramp expansion works

### Samson Brook Dam Remedial Work  
**Waroona, Western Australia**

Works on the Samson Brook Dam included refurbishing the downstream face of the embankment to meet Australian National Committee on Large Dams (ANCOLD) requirements. The works included removal of the downstream and toe earthworks, which were replaced with new filter layers, clay embankment construction and clay cut off, rock armour and detailed earthworks.

- **$12 Million**
- 2012-2013
- Water Corporation of Western Australia
- Dam upgrade works

### Cockatoo Island Operations - Seawall Stage 4  
**Cockatoo Island, Western Australia**

Indus constructed Stage 4 of a new seawall embankment to allow Pluton Resources to expand mining operations on Cockatoo Island. The 260m seawall comprised approximately 100,000m3 of controlled rock fill and rock armour.

- **$13 Million**
- 2013-2014
- Pluton Resources
- Construction of a new seawall embankment
WATER AND MARINE INFRASTRUCTURE

Logue Brook Dam Spillway Remedial Works
Harvey, Western Australia
Indus completed these project works to upgrade the spillway at Logue Brook Dam. Works involved demolition of the existing spillway and bridge and construction of a new spillway comprising 2,500m³ of reinforced concrete, a new bridge and associated works.

$10 Million
2014-2015
Water Corporation of Western Australia

Decommissioning of Port Hedland Waste Water Treatment Plant
Port Hedland, Western Australia
The project consisted of the removal of all pipe networks within the battery limits of the site; approximately 5km of pipes including removal of all associated valves. All existing structures were removed and disposed offsite to a licensed waste facility.

$3 Million
2015
Water Corporation of Western Australia
Waste water treatment plant decommissioning

Toodyay Treated Wastewater Storage Dam Remedial Works
Toodyay, Western Australia
Indus was contracted to undertake remedial works to an existing waste water storage dam. Works included the plumbing out of sludge, removal or gravel, HDPE liner and sand layers, construction of a clay liner and stabilisation of the downstream face with cement stabilised road base.

$2 Million
2017
Water Corporation of Western Australia
Waste water treatment plant remedial works

Big Brook Dam Spillway Remedial Works Project
Pemberton, WA
Big Brook Dam consists of a central concrete gravity overflow section, with earthfill embankments on the left and right abutments. Ongoing surveillance of the dam has identified several issues relating to the performance of the earthfill embankments, with respect to seepage, piping and slope stability. Water Corporation required the services of Indus for corrective remedial works.

$2 Million
2018-2019
Water Corporation
Bridge remediation
INDUS CIVIL AND MINING
Capability Statement

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ROADS AND BRIDGES

Port Coogee Bridges & 4C Subdivision
Cockburn Sound, Western Australia

This project involved the construction of two bridges at Cockburn Sound (Bridge 5327 and Bridge 5328), including approach earthworks, approach slabs, piling, substructure and superstructure works. The scope also included the construction of a new residential subdivision.

$10 Million
2008-2009
Port Catherine Developments
Bridge construction and residential subdivision

Nullagine Project Haul Road
Nullagine, Western Australia

The BC Iron Mining Nullagine Project is located in Western Australia’s Pilbara region 296km SE of Port Hedland and 1,364 km NNE of Perth. The project involved construction of a 50km haul road. The haul road is used by pit haulers to haul DSO product from the crushing plant to the FMG rail facility.

$45 Million
2010-2011
BC Iron Joint Venture
Construction of mining haul road

Indian Ocean Drive Passing Lanes
Moore River, Western Australia

The project involved the construction of nearly 4km of passing lanes and improving an intersection at King Drive on Indian Ocean Drive. Works included constructing new pavements and roadways including all culverts, line markings, kerbing and signage.

$3 Million
2012
Main Roads Western Australia
Construction of passing lanes

Bunbury Road Train Assembly Area
Bunbury, Western Australia

Indus constructed a road train assembly area and an associated intersection on the Bunbury Port Access Road. Works involved constructing new pavement and drainage structures, and installing traffic facilities including street lighting, line marking, signage and kerbing.

$3 Million
2014
Main Roads Western Australia
Construction of a road train assembly area

INDUS VALUES: COMMITMENT RESPECT ONE TEAM COLLABORATION INNOVATION
**ROADS AND BRIDGES**

**South Western Highway - Burekup Realignment**  
**Burekup, Western Australia**

The project involved the construction of a new multi-span teerroff bridge over the Collie River, approximately 1.7km of new roadworks and demolition of existing structures.

- **$10 Million**  
  - **2015-2016**  
  - **Main Roads Western Australia**  
  - Road and bridge construction

**Albany Highway Passing Lanes**  
**Mount Barker, Western Australia**

Indus was contracted by Main Roads Western Australia to deliver the Mount Barker Passing Lanes project. Located in the Shire of Plantagenet, the project involved widening a 4.4 kilometre stretch along the Albany Highway to accommodate two separate passing lanes near Woogenellup Road and Martagallup Road.

- **$3 Million**  
  - **2016**  
  - **Main Roads Western Australia**  
  - Construction of two passing lanes

**Logue River Bridge**  
**Derby, Western Australia**

The Logue River Bridge Strengthening Project involved strengthening the existing bridge through the installation of carbon fibre reinforced strips under the existing deck, combined with a reinforced concrete overlay which widened the bridge to 8.6 metres between kerbs.

- **$2 Million**  
  - **2016**  
  - **Main Roads Western Australia**  
  - Strengthening of existing bridge

**Kalbarri National Park Access Roads and Carpark Upgrades**  
**Kalbarri, Western Australia**

Indus was awarded the contract to undertake upgrade works to existing roads and carparks in Kalbarri National Park. In total the Indus upgrades provided 22km of roads, 3 complete carparks providing hundreds of car bays to access the parks key areas and camp access works.

- **$9 Million**  
  - **2016-2017**  
  - **Department of Parks and Wildlife**  
  - Road construction and carpark repair
INDUS CIVIL AND MINING
Capability Statement

ROADS AND BRIDGES

Albany Highway Harold Road Passing Lanes
Kojonup, Western Australia

Indus was contracted to reconstruct approximately three kilometers of Albany Highway in the Kojonup region. The works included the construction of two additional passing lanes as well as construction of side roads and ancillary drainage works.

$4 Million
Main Roads Western Australia
2017

Miling Bypass
Miling, WA

Creation of a new Bypass on the Great Northern Highway around the town of Miling. The project included the construction and development of 13km of new roads. Works undertaken included bulk earthworks, rock removal, installation of concrete culverts and drainage, pavement sealing and line marking, push up and development of gravel pavement materials, and landscaping and rehabilitation.

$21 Million
Main Roads Western Australia
2018 - 2019

Onslow Road Upgrade
Onslow, WA

The project involves a 210mm structural overlay of the Onslow Road, sub-base and sub-grade repairs where required, upgrade of the North West Coastal Highway Intersection and culvert replacement/extensions where required.

$12 Million
Main Roads Western Australia
2018 - 2019

INDUS VALUES:
COMMITMENT    RESPECT    ONE TEAM    COLLABORATION    INNOVATION