



SHARK BAY RESOURCES PTY LTD

BITTERNS RECYCLING PROJECT

FIELD PIPING INSTALLATION SCOPE OF WORK

DOCUMENT NO. 23092-SOW-024

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1. INTRODUCTION

1.1 Project Background

Since 1962, salt has been produced and harvested from large evaporative lagoons on Heirisson Prong, in the southern region of Shark Bay, about 900 kilometres north of Perth in WA. Shark Bay Resources (SBR) operates the 7,000 hectare solar salt field at Useless Loop, and exports high quality salt to various overseas markets. The Company is wholly owned by the Japanese company Mitsui & Co, Ltd.

SBR have initiated a project titled “Bitterns Recycling” (the Project). Bitterns is the term used to describe the concentrated brine that is produced after the majority of the NaCl has been precipitated in the crystalliser ponds. It is currently collected in the F5 and F7 ponds where it infiltrates into the aquifer below the basement of the ponds. This process is critical to production activities and to reduce reliance on the seepage process as well as recover remaining NaCl, it is proposed to pump the bitterns from F7 to the first pond in the evaporative process (PM1), to recycle the brine.

The key requirements of the Project relevant to this Scope of Work (herein SOW) are summarised as follows:

- The transportation to site of 20,700m of DN560 white co-extruded HDPE pipe and associated sweep bends.
- The construction of a bitterns recycling pipeline from the F7 bitterns pond pump station to pond PM1.
- The transportation to site of 750m DN355 white co-extruded HDPE pipe and associated sweep bend.
- The construction of a seawater flush pipeline from the F7 bitterns pond pump station to a tie into an existing seawater supply line.

The site plan in Appendix A display the existing Site layout and key infrastructure of the Project.

1.2 Preamble

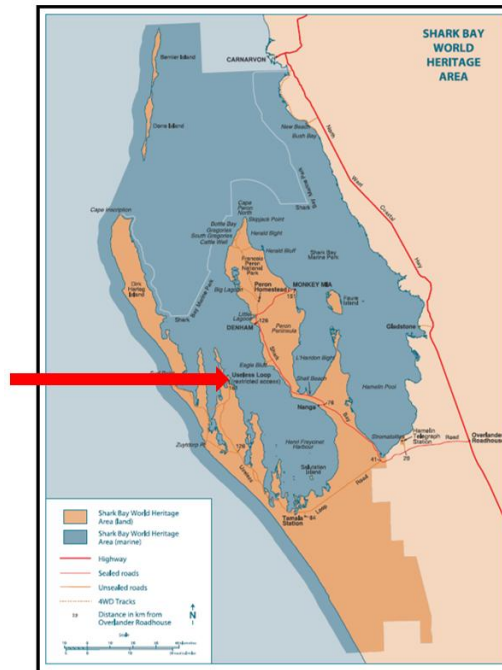
This SOW document has been prepared by the Principal SBR, for use by the Contractor. The purpose of the document is to:

- Specify the nature, extent and limits of the SOW, which are to be carried out by the Contractor.
- Provide sufficient information in order to obtain a cost and schedule from the Contractor, for all works included in the SOW.

1.3 Site Location

The closed townsite of Useless Loop is approximately 440km north of Geraldton and 860km north of Perth via road in the Shark Bay World Heritage area.

Useless Loop Road from the Shark Bay Road turnoff is approximately 120km of unsealed road.



2. DEFINITIONS

The following definitions apply:

Bitterns	means the collected brine after the salt crystallization process that is currently treated as a waste product
SBR	means Shark Bay Resources Pty Ltd
Site	means the Useless Loop site, approximately 900kms north of Perth
Scope of Work, SOW	means this document and any other referenced within
Works	means all things required of the Contractor under the Contract, including any approved variations
Contractor	means the persons or body corporate that has undertaken to carry out the Works, and includes the Contractor's permitted assigns, successors, legal representatives, and sub-Contractor's/consultants
Tender	means the proposal submitted by the Tenderer
Tenderer	means a person, firm or company invited to tender for the Works
SBR Representative	means the SBR nominated project contact person, which may be an SBR employee, or a third-party consultant
Contract	means the legally binding agreement between SBR and the Contractor to execute/supply/deliver the Works
Project	means the Project for which this Scope of Work is required
EH&S	means environment, health and safety
Principal	means Shark Bay Resources Pty Ltd

3. SCOPE GENERAL

This SOW includes the supply of all necessary management, supervision, labour, materials, equipment, testing, survey and consumables to carry out the piping installation works as described in section 4 Scope Specific, except for the items specifically mentioned in Section 5 Works Excluded.

Any items not clearly specified herein but deemed essential to fulfil the requirements of the SOW shall be notified to the SBR Representative who shall advise whether the Contractor shall include them in the Works. This includes

the balance of information/documents/drawings required to complete the specified Works if not provided within.

All work shall be performed in accordance with the relevant standards applicable to the entirety of the Works.

Where any conflict of requirements exists, the order of precedence shall be as follows, with the first item having highest preference:

- Work Health and Safety Act 2020.
- Work Health and Safety Mines Regulations 2022.
- Work Health and Safety General Regulations 2022.
- Australian Standards.
- This document.
- SBR technical specifications and standards.

The work required is described within this document, its attachments and references unless otherwise noted herein. The Contractor shall be responsible for the performance of the whole of the work including such work as may be required, but not specifically described herein, in order to complete the Works.

The Contractor is required to suitably liaise and interface with other parties as required typically including but not limited to various SBR departments and stakeholders, other Contractor's working on this Project, and others as required from time to time throughout the duration of these Works.

The timing of all installation works and the requirement for exclusion zones or restricted access as deemed required by the Contractor's risk assessment, or as directed by SBR, shall be communicated in detail to the SBR Representative with adequate notice, and shall at all times be to the approval of SBR.

The Contractor shall at its own expense, suitably protect the Works including nearby/adjacent and otherwise potentially impacted infrastructure from damage for the duration of the Works. This includes damage from personnel and equipment movements, weather events, excavations etc. Particular care must be taken to avoid damage to existing services for the town and Site, i.e. power, and where excavating in close vicinity to such services as identified in the excavation permit process, the Contractor shall excavate by hand.

Departure from the SOW and all other documents is prohibited unless authorised in writing by the SBR Representative prior to commencement of work.

4. SCOPE SPECIFIC

4.1 General

The SOW includes the delivery and installation of all pipework and fittings, including all valves, drains, and other appendages in accordance with this document, supplied drawings and specifications, except for items specifically excluded as listed in Section 5 of this document.

Note that the Contractor shall take into account the likely expansion and/or contraction of pipe materials during construction, after construction, and in operation, so as to ensure that any snaking or contraction of the pipeline is suitably accounted for and does not cause damage to the pipeline and/or its adjacent infrastructure, and remains on/within its intended route/pipe corridors. The Contractor shall propose a detailed methodology which includes the required engineering calculations to ensure this is suitably accounted for, prior to mobilisation to Site, to the SBR Representative's approval.

All new pipelines and pipeline branches/extensions shall be coextruded white. Fabrication and installation shall be in accordance with SBR specification 00-SPE-P-010.

All bends to be sweep type bends. Any non-standard bend angles to be from fabricated segmented elbows with same radius as standard sweep bends.

All pipe flange backing rings and bolt sets shall be of 316SS material.

Stainless flanges shall not be electrically connected to carbon steel. Given that all backing rings for flange connections and bolt sets are 316 stainless steel, the Contractor is required to provide isolating sleeve/washers at every location where stainless steel bolts will interface with the cast iron body of a valve or instrument.

All gaskets shall be 3mm EPDM rubber. ID of gasket shall match ID of pipe.

Electro-fusion branch (welded Ts) saddles shall not be used for any offtakes for drains, air release valves, and vacuum breaker valves. No mechanical style, bolted or strapped, tapping saddles shall be used for offtakes.

4.2 Review of Existing Data

The Contractor shall carry out a review of all supplied drawings and other information and shall determine/advise whether additional information is required from SBR in order to carry out the Works. The Contractor shall specifically provide SBR with a list of additional information that is required to complete the Works when submitting a Tender for the Works.

4.3 Site Construction and Installation Works

4.3.1 Site Mobilisation, Site Establishment & Site Facilities

The Contractor shall be responsible for all Site mobilisation and de-mobilisation requirements. This includes all required transport of personnel, materials and equipment, provision of any transport or other permits, Site access requirements for personnel and deliveries, and provision of suitable notice to the SBR Representative, prior to mobilisation and de-mobilisation from Site.

SBR have provided a KMZ file (23092-KMZ-001rB) which is viewable on Google Earth to assist with understanding the different access, laydown and turnaround constraints that will be experienced over the full length of the pipeline and the Contractor's submission (schedule, methodology and pricing) shall take this into consideration. The contractor shall review the information at tender stage and nominate which locations are suitable for the Contractor to use for laydown of materials and equipment, establishment of Contractor's facilities, ie Site offices, crib and ablution facilities, stores etc.

The Contractor shall carry out all required Site establishment works, including but not necessarily limited to:

- Offload of Contractor's equipment and supply materials (other than those that are specifically "Client Supplied" as stated in Section 6 of this document).
- Arranging with the SBR Representative for SBR inspection of the Contractor's equipment in accordance with SBR requirements prior to their use.
- Upkeep of work areas and SBR supplied Site facilities to the satisfaction of SBR.
- Provision of necessary signage, barricades and the like to clearly designate the Contractor's work and other Site areas/facilities, and to suitably inform and protect personnel from risks when working near and/or entering the Contractor's construction area.

SBR require that the Contractor be fully self-sufficient throughout the construction period. SBR equipment (e.g. Franna, telehandler, EWP and forklift) and facilities (e.g. crib rooms, offices and ablutions) will not be made available to the Contractors during the site works.

The Contractor shall mobilise a fuel pod for remote re-fuelling of diesel equipment, vehicle, gensets as required for the Works. Diesel is free issued by SBR and the pod can be refilled as required at the SBR workshop fuel tank.

Upon Completion of the Works, and once the Contractor's de-mobilisation from Site has been approved by SBR, the Contractor shall return all areas used by them for the Works to their previous state, that is to say that at a minimum these areas are left as they were found, with all rubbish, redundant materials and the like cleaned up and removed from the areas, to the satisfaction of SBR.

4.3.2 Setting Out

The Contractor shall be responsible for carrying out and preserving all required survey set-out of the Works in accordance with the supplied drawings. The Contractor shall be responsible for ensuring the construction is carried out in the correct positions and to the correct levels.

4.3.3 Bitterns Recycling F7 Pond to PM1 Pond Pipeline

The bitterns will be pumped by a new pump station at pond F7 to the first pond in the evaporation process (PM1) via a new DN560 HDPE pipeline approximately 20,700m in length as per the supplied drawings, pipeline number 560-BR-301-P1.

The Contractor shall supply labour and equipment to fully assemble and install all pipework and fittings of this pipeline, including all valves, drains, and other appurtenances in accordance with this document, supplied drawings and specifications, except for items specifically excluded within Section 5 of this document.

The pipe route will follow existing access roads and flow channels for the majority of this length, and as such, preparation of above ground benches and clearings on road edges and the like suitable for the pipe to sit in will be constructed by others.

The pipe will need to be installed underground at a number of locations where existing road access is to be maintained. The Contractor shall allow for all excavation, backfill and compaction required to construct underground crossings 2-10. The Upper and Lower Bar Road (crossing 1) will be coordinated and completed by SBR. All underground crossings will be direct buried pipe aside from crossing 1 and 2. Refer to the supplied drawings and also section 4.3.5 of this document for detail of each underground crossing.

The pipeline is to be earth pinned every 150m that the pipe runs above ground and is not constrained by air release valves or underground road crossings within 500m. Allow approximately 2m per earth pin.

There are two drain connection points to be located at chainages 2810 and 8060 as indicated on the drawings. The Contractor shall supply and install all components, excluding the valves, for the drain connection points along the pipeline. The exact location and orientation of these drain points shall be as directed by the SBR Representative.

The Contractor shall install the free issued DN350 actuated valve to be located near to the discharge of the pipeline, as per the supplied drawings.

The Contractor shall install three free issued flow meters for leak detection located at chainages 8030, 13886 and 20200 as specified in the supplied drawings. Flow meters are DN350 so the Contractor will need to allow for reducers and expanders to suit.

The pipeline installation is summarised in Table 1 below. The supplied drawings provide a clearer understanding of the construction requirements.

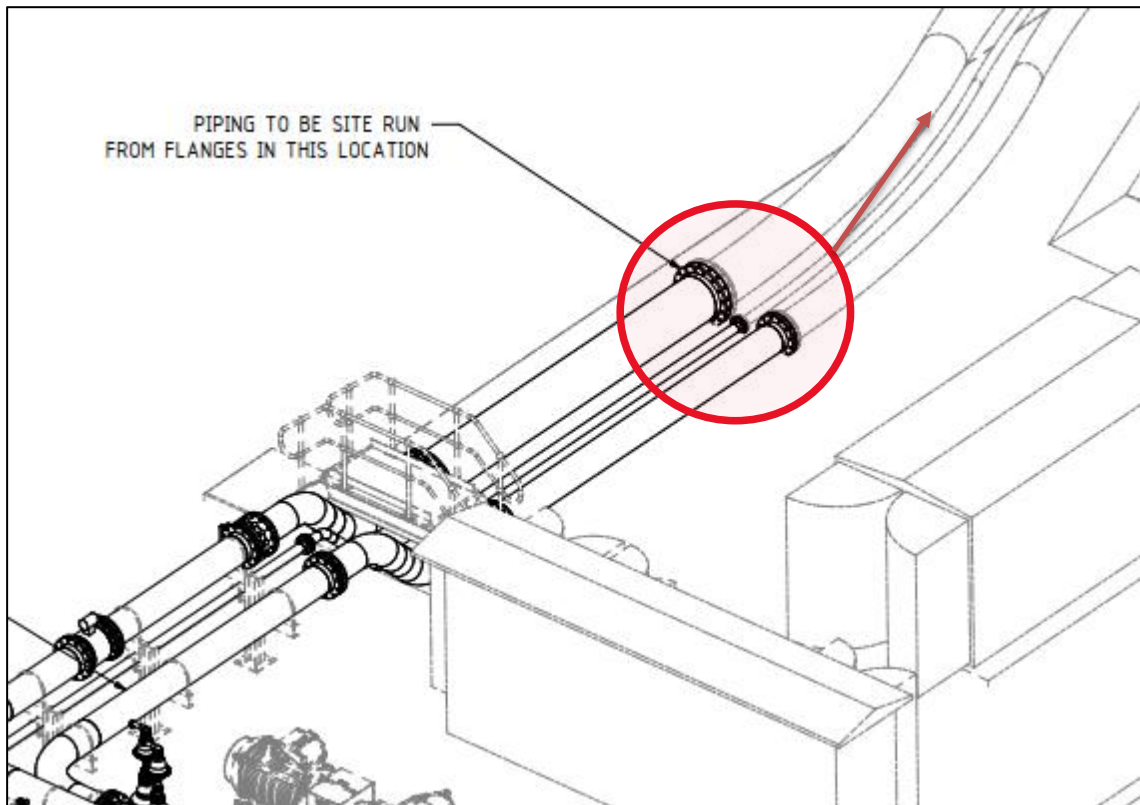
Table 1: Pipeline section summary.

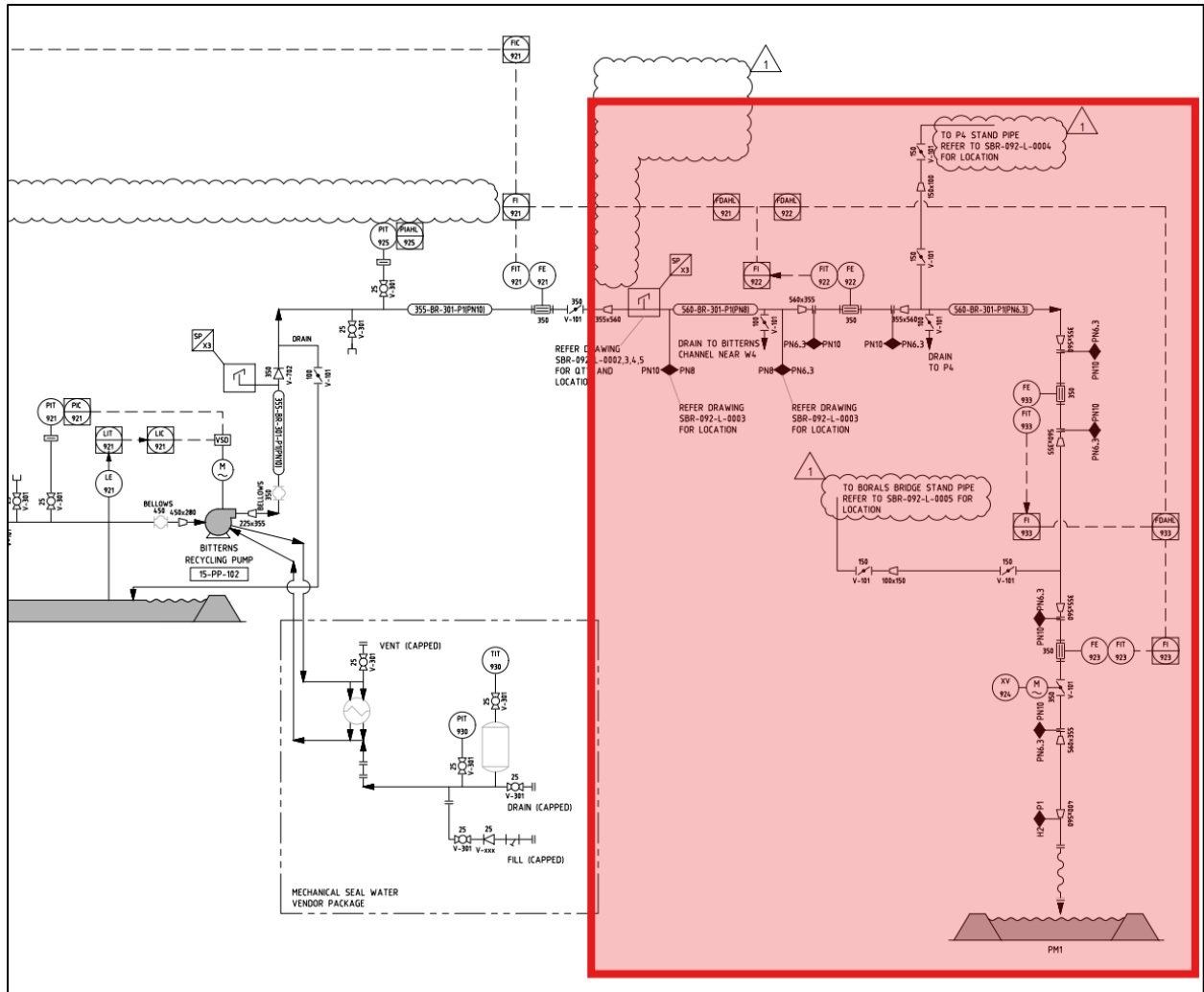
PIPELINE SECTION	CHAINAGE FROM	CHAINAGE TO	PIPE LENGTH (m)	DESCRIPTION	INSTALL SCOPE
15-PP-102 Pump Station	0	0	0	Pump discharge flange.	Field piping scope battery limit.
Section 1	0	600	600	15-PP-102 to Lower Bar Rd.	First ≈200m pipeline above ground then buried below ground with approx. 1m of cover before bend and for remainder of chainage along F6 / F8 Pond levee road. SBR to trench and backfill for bitterns recycling pipe and seawater flush line. Final sleeved crossing in front of F6 / F8 culvert will lead into Lower and Upper Bar Rd crossing.
Section 2	600	750	150	Upper/Lower Bar crossing.	SBR to trench and backfill for sleeved bitterns recycling pipe and seawater flush line. Pipeline install works need to align with SBR HV shutdown.

					<u>Critical timeframe as power to the townsite will be isolated.</u> As part of this shutdown, SBR will coordinate haul road traffic control.
Section 3	750	975	225	Alignment with Washery Waste Line along waste ponds.	Above ground piping to be run on the Southern side the existing Washery Waste line.
Section 4	975	1065	70	Western haul road crossing.	Pipeline buried sleeved with approx. 1m of cover.
Section 5	1065	3430	2365	W Series Pond levee.	Above ground following on the West side of the washery waste pipeline on the W pond channel levee, with road crossings as nominated.
Section 6	3430	7268	3838	Airport Rd	Above ground following on the West side of the washery waste pipeline on the Airport Rd.
Section 7	7268	7333	65	Airport Rd Crossing to L1.	Pipeline buried with approx. 1m of cover.
Section 8	7333	8165	832	L1/P4 Western bank.	Above ground following on the West side of the washery waste pipeline on the L1/P4 western bank ending with an underground crossing.
Section 9	8165	16904	8739	Flume northern end.	Above ground following the edge of the flume access road.
Section 10	16904	19004	2100	Flume existing section A.	Starting with an underground crossing then above ground following the edge of the flume access road. Critical - width of access of 4.5m to edge of pipeline must be maintained.
Section 11	19004	19104	100	Rubberneck Access Track crossing.	Pipeline buried with approx. 1m of cover.
Section 12	19104	20208	1104	Flume existing section B.	Above ground following the edge of the flume access road. Critical - width of access of 4.5m to edge of pipeline must be maintained.

Section 13	20208	20700	492	Discharge to PM1.	Downhill, above ground and cross country to discharge point. Access track by others ≈4.5m wide.
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The battery limits of this scope item shall be the first flange connection located after the bitterns pump station as per snip below, to the discharge flange into the PM1 pond.

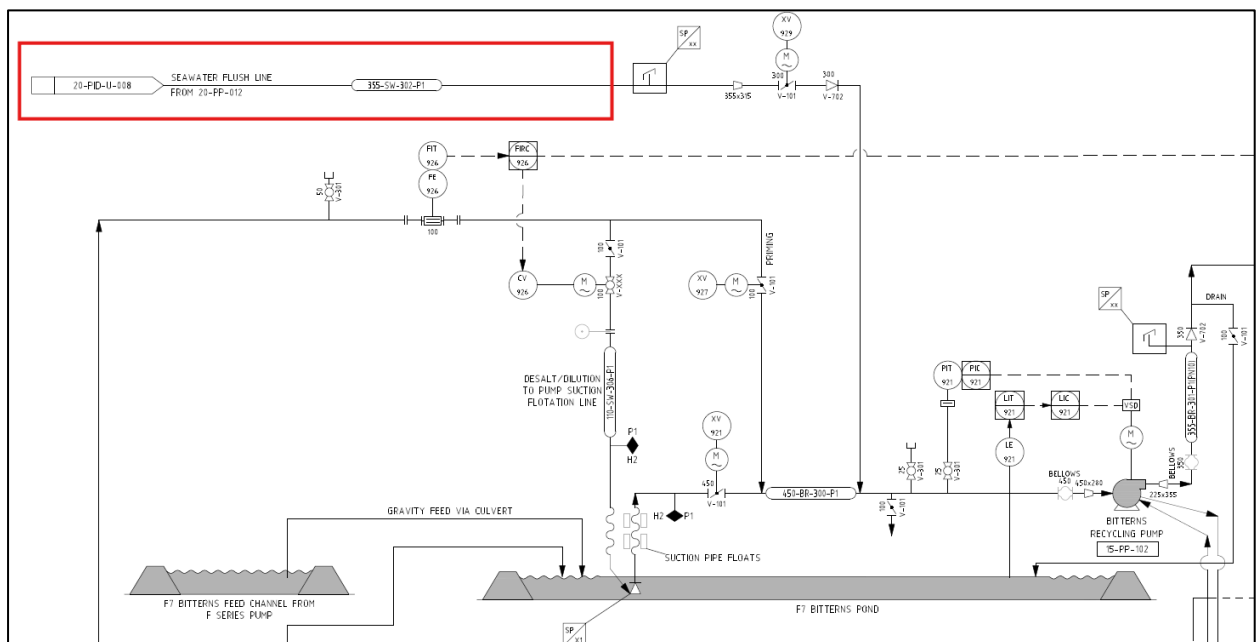




The existing Seawater Transfer Pump 20-PP-012 currently provides seawater to the washery waste transfer pump 15-PP-101 suction pipe via pipeline 355-SW-302-P1. To provide a seawater flush to the new bitterns recycling pump pipeline, it is planned to tee off the existing 355-SW-302-P1 seawater pipeline and install a new pipeline to the suction of the bitterns recycling pump at F7. The pipeline will be approximately 750m from the pump station to the connection point.

The pipe route will cross the Upper Bar Road and follow the pond banks to the new pumping station. It will be buried along the F8 / F6 levee exiting the ground once it reaches the F7 levee. The road crossing, as with the Bitterns Return Pipe, will be by SBR who will manage all excavation, backfill and compaction required to construct this crossing. Refer to the supplied drawings and also section 4.3.5 of this document for detail of the underground crossings. Excavation and backfill of the pond banks from the road crossing to the pumping station will be by SBR.

The battery limits of this scope item shall be from the tie into the 355-SW-302-P1 seawater pipeline, to the last flange at the bitterns recycling pump station as per snip below.



Each crossing location is currently of sand/gravel material construction. When excavating, the Contractor shall take care to identify existing layers of the access road construction, segregating clearly different materials and

stockpiling for re-use. The SBR Representative shall inspect and approve the materials for suitability for re-use for backfill. Backfill and compaction shall be in accordance with the supplied typical details utilising the material that had been excavated, ensuring it is clear of large rocks and other debris. If deemed required, clean quarry fill is available free-issue on Site at the R4 quarry (near the Useless Loop townsite) for use during backfill.

In addition to the requirements of Section 10.3 of SBR specification 00-SPE-P-010, the following applies for backfill of buried piping;

- Backfill shall be placed equally each side of the pipe to avoid disturbing the approved installed pipe conduit.
- Suitable backfill material shall be placed around the pipe to a depth of 300 mm above the top of the pipe or as detailed on the Drawings.
- The remainder of the trench shall be backfilled to finished ground level with material previously excavated from the trench.
- All backfill shall be compacted to 90% of maximum standard dry density as measured by AS1289 Part 3, except under roadways and access areas where the backfill shall be compacted to 95% of maximum standard dry density.
- Compaction of the backfill material shall be by hand operated mechanical vibratory compaction equipment. Compaction shall not be used within 150 mm of the pipe.

The Contractor shall note that existing services may exist within areas that these underground crossings are required, and as such the Contractor is responsible for the compliance with the required safety procedures for such works. This includes but is not limited to SBR's excavation permit and isolation permit processes and the provision by the Contractor to suitably protect existing services during such works.

All excavation works will require close coordination with SBR with regards traffic management, and suitability for re-use of materials, to SBR's approval. Crossing 1 is considered critical and will require close coordination with SBR and their nominated earthworks contractor.

4.3.6 Air Release Valves

The Contractor shall fabricate and install air release valve and vacuum breaker arrangements at locations shown nominally on the supplied drawings, and in quantities, noted below and in accordance with the relevant standards and codes.

- 40 x single air release/vacuum breaker arrangements as per SBR-092-P-0010
- 4 x double air release/vacuum breaker arrangements as per SBR-092-P-0011.

The air release valves and vacuum breakers and isolation valves shall be free issued.

Pipeline to be earth pinned both sides of Tee piece flanges to prevent excessive pipe movement. Earth pins to cover approximately 2m of pipe.

4.3.7 Standpipes

Two standpipes are to be supplied and installed by the Contractor. The construction shall be of 316SS and follow the design of the existing standpipes on site noted in "Z-20-DD-M-064".

Locations of the standpipes shall be as follows:

- Chainage 8060 located near the existing washery waste discharge point into P4.
- Chainage 16966 located near Borals Bridge.

The exact positions shall be determined during installation in consultation with SBR.

4.3.8 Survey

Post pipeline installation, the Contractor shall carry out an as-built top-of-pipe survey of all newly installed pipelines and branches, which shall also include underground crossing locations. It is acceptable to SBR that the underground road crossings can be site measured for depth post construction by inclusion of sighting duct (100mm PVC or similar) suitably installed during backfill, and integrated into the survey data, with the aim of minimising multiple surveyor mobilisations. The Contractor shall provide to the SBR Representative all survey

data in native and PDF format, so as to allow determination of the locations for items such as air release valves, vacuum breakers, drains etc.

4.4 Delivery

The Contractor shall deliver to Site all Contractor Supply items, other resources, equipment and the like required to carry out the Site installation works as nominated within this SOW.

The Contractor shall provide all necessary cradles, jigs and any other items required to ensure that the delivery of the items to the Site result in no damage to the items and pose no threat to any person's safety. Refer to Specification – Packaging and Transport 00-SPE-G-019 for further detail on packaging and transport requirements. Any costs associated with repair/rectification of damaged items will be at the expense of the Contractor.

The Contractor shall be responsible for obtaining all statutory permits and approvals required and complying with all regulations regarding the transport of the items to the Site.

Any deliveries to Site of supplied items require 1 week minimum notice to be given to the SBR Representative so as to allow for sufficient planning for arrival at Site and offload.

The delivery driver(s) must be made aware of their requirements for Site entry in accordance with Section 7 of this document.

The Contractor shall be responsible for the offloading of the items at the Site. The Contractor's personnel to fulfil this requirement must be fully inducted in accordance with Section 7 of this document.

4.5 Testing

All Works carried out by the Contractor under this SOW shall include the required testing in accordance with the relevant regulations, standards, codes, drawings and SBR technical specifications. Where conflict exists between these documents, the Contractor shall seek clarification from the SBR Representative.

All testing equipment shall be suitably calibrated by a NATA accredited authority.

The Contractor shall submit to SBR for approval suitably detailed Inspection and Test Plan's (ITP) in accordance with the supplied document, 00-SPE-Q-001 Construction Quality Control Procedure.

Should the Contractor wish to propose any alternative testing methods/standards for SBR review and approval, the Contractor shall submit the proposed alternative method/standard within their Tender. The Contractor is not authorised to follow alternative testing methods/standards unless approved in writing by the SBR Representative.

4.6 Data, Documentation, and Reporting

The Contractor shall provide and comply with the following.

4.6.1 Project Execution Plan

Prior to Site mobilisation and the commencement of the works, the Contractor shall provide a "Project Execution Plan" document that clearly explains and describes the Contractor's Works, including at a minimum:

- A methodology, general & technical, including the detailed plan for managing thermal dynamics of the pipelines as per section 4 of this SOW.
- A project schedule (Gantt chart or similar) describing the anticipated durations of all tasks to complete the Works.
- A manning schedule showing personnel movements in accordance with the approved roster.
- A commercial program describing the anticipated payment claims/invoicing throughout the project.
- The Contractor's EH&S Management System specific to the project, including the Hydrocarbon Controls Procedure, and an Emergency Management Procedure, amongst others identified in Section 7.
- The risk register following the risk assessment carried out for the Works.
- A traffic management plan for the Works.

4.6.2 Reporting

The Contractor shall provide a weekly report to SBR's satisfaction, detailing at a minimum the previous week's and cumulative:

- Works carried out, and Works planned for the next week;
- issues;
- technical queries or other technical items;
- EH&S issues and statistics, and
- resources on Site, diesel used, etc

On completion of the Works, and at any time during the Works as requested by SBR, the Contractor shall provide to SBR all requested information regarding the Works.

4.6.3 Manufacturers Data Report

The Contractor is to compile a Manufacturers Data Report for the Works in accordance with SBR's Construction Quality Control procedure during the works, for submission to SBR within two weeks of Completion.

The MDR shall include, but not be limited to;

- Manufacturer's Certificates of Conformity (CoC).
- AS/NZS 4130 compliance certificates for all HDPE pipework.
- HDPE pipe and fitting material traceability records.
- Factory inspection and test records.
- Product datasheets for all supplied pipework, fittings and associated components.
- Pressure rating certification for all HDPE pipework and fittings.
- Installation, handling and storage recommendations.
- Welding and jointing procedures.
- Weld registers and weld mapping for complete traceability.

Vendor data, manufacturer's certificates, material traceability records, weld procedures, welder qualifications, weld mapping and complete traceability for the Works shall be included within the MDR.

5. WORK EXCLUDED

The Contractor is not required to provide the following:

- Geotechnical investigation and engineering.
- Structural installation.
- Preparation of above ground benches and clearings for proposed pipe routes.
- Trenching and backfill of the first section of pipeline from F7, F6 and F8 junction up to and including Upper Bar Road crossing (bitterns recycling and seawater flush lines).
- Any other civil works, apart from road crossings.
- Debeading of any of the butt welds.
- The piping supply and installation works required at the new pump location and/or outside of the stated battery limits.
- Electrical, instrumentation and control supply and installation unless stated otherwise (eg, flowmeters and automated control valve).
- Commissioning although the Contractor will need to re-mobilise to site should defects/faults be identified in the commissioning process.

6. PRINCIPAL SUPPLIED

The following will be free issued to the Contractor:

- 3,276m of DN560 PE100 PN10 / SDR17 in 21m lengths.
- 3,066m of DN560 PE100 PN8 / SDR21 in 21m lengths.
- 14,784m of DN560 PE100 PN6.3 / SDR26 in 21m lengths.
- 777m of DN355 PE100 PN8 / SDR21 in 21m lengths.
- 6 x DN560 PE100 PN12.5 / SDR13.6 sweep bends.

- 1 x DN355 PE100 PN10 / SDR17 sweep bend.
- DN350 actuated valve and associated concrete mounting plinths in required location.
- All manual valving including drain points and air / vacuum release valves.
- Three DN350 flow meters and associated concrete mounting plinths in required locations.
- Diesel for mobile equipment, light vehicles, generators and the like being used to carry out the Works on Site. SBR to refuel a pod once every 2 days as well as available at the site workshop fuel bowser for mobile equipment.
- Fill and facing materials (if required) from on Site supply, however, the Contractor shall allow for excavation, processing, loading and transport on Site of the free issued material. Material is available for loading (by the Contractor) from the R4 quarry near the Useless Loop Townsite.
- Access to existing information, i.e. drawings, photos, and other Site data as available.
- Accommodation and messing for personnel during their rostered time on Site as approved by SBR.

7. SITE REQUIREMENTS

The SBR Useless Loop operation is governed under the Work Health and Safety (Mines) Regulations 2022 (herein the Mines Regulations). The Contractor, the Contractor's sub-Contractor's, and the Contractor's equipment shall at all times comply with the requirements under the Mines Regulations.

7.1 Environment, Health & Safety Management

The Contractor shall execute the works in accordance all SBR plans, policies and procedures. SBR's Contractor Management Procedure SBR-PRO-0082 is provided to communicate the minimum requirements of SBR's Environment Health & Safety Management Plan. The Contractor shall develop a project specific EH&S Management Plan to shall be provided to SBR for review and approval within four weeks of Contract award.

Project specific HSE requirements in addition to requirements outlined in SBR-PRO-0082 of the Contractor are as follows;

- Preparation and submission of necessary SBR permits.
- Construction Risk Assessment Workshop (CRAW).
- Traffic management, temporary barricading, safety signs and notices for the work areas.
- Interfaces with SBR maintenance and operations personnel, and other Contractors. (At times during the construction process, there will be planned traffic movements past the pipeline installation area).
- Site works risk assessments (including SWMS's, JSA's and Take 5's).

7.2 Inductions

All the Contractor's personnel, including their sub-Contractor's, shall complete the SBR induction prior to mobilising to, and commencing work on Site. The induction is computer based, can be completed off Site, and typically requires 2.5hrs to complete.

Personnel driving light vehicles onsite are required to complete a light vehicle VOC. The Contractor shall allow 1 hour per person for completion of this VOC.

Delivery drivers can be escorted to the worksite without an induction but will be subject to Fitness for Work in accordance with Section 7.4.

7.3 Administration & Supervision

The Contractor shall appoint a competent person to be responsible for general control of the Works. This person shall also be responsible for all matters concerning the safety of the works and personnel on site.

The nominated supervisor must be at least Schedule 26 (or Section 44) approved in accordance with WHS Regulations.

7.4 Fitness for Work

SBR has a Fitness for Work policy that demands 0.00% BAC when on the operational Site. All personnel will be subjected to a drug & alcohol screen on arrival at Site, plus daily alcohol testing while onsite. Random or for cause

drug & alcohol screens can occur at any time. Refusal to comply with a request for a D&A test will result in immediate removal from Site.

7.5 Pre-mobilisation Requirements

The Contractor shall provide the following for all personnel, pre-mobilisation to Site:

- A pre-employment medical which is to be current within at least 12 months from mobilisation.
- A drug & alcohol screen which is to be current within at least 30 days from the first mobilisation date for that person.
- A police clearance which is to be current within at least 12 months mobilisation.
- Contractor personnel tickets/qualifications matrix, including provision of copies of tickets and competencies. The Contractor shall provide copies of all high risk licences for personnel, including copies of current Verification of Competency from nationally accredited training organisations.

7.6 Risk Assessment

All Site works and tasks shall be suitably risk assessed by the Contractor utilising typical risk management tools, ie Job Safety Analysis (JSA, JHA), Safe Work Instructions (SWI) and Take 5's etc. Risk assessments shall identify risks and hazards associated with the tasks proposed to be performed, with appropriate controls identified and implemented to suitably eliminate, and/or mitigate risks and hazards.

A construction risk assessment workshop (CRAW) shall be carried out by the Contractor pre-mobilisation which aims to identify at a high level all hazards and risks associated with the works, and suitable controls that remove or suitably mitigate the hazards and risks identified. The Contractor shall invite SBR to attend the CRAW, and the final risk assessment (specifically the controls) shall be reviewed and approved by SBR pre-mobilisation.

7.7 Interface Areas

Various sections of the work areas will be subject to interfacing with SBR and other Contractor's operations. The Contractor is to ensure they thoroughly understand the interface issues and make allowance within their tender for costs that may be incurred.

Areas of interface are as follows:

- SBR electricians (undertaking the isolation, instrumentation and control works for the project).
- Project civil construction works.
- SBR and other Contractors attending the flume or pond areas using access and haul roads adjacent to the construction site.

7.8 Site Contamination

Due to the sensitive nature of the environment, strict controls are required by the Contractor to prevent hydrocarbon spills or other contamination to the environment, and to efficiently and adequately contain and recover hydrocarbon spills and other contamination should they occur. The Contractor shall provide their relevant procedures/plans to control such spills and contamination to SBR for their approval prior to Site mobilisation. The procedures/plans shall describe the Contractor's methods of hydrocarbon managing, storage, handling, controls, contamination prevention and clean-up procedures, etc. All spills and contamination no matter how small shall be reported to the SBR Site representative immediately, or as soon as is reasonably practical to do so.

In addition to this, due to the close proximity to SBR crystalliser ponds, rubbish and waste shall be managed such that there is no risk of contamination by wind-blown materials. The Contractor shall provide their own bins if necessary to contain rubbish. As outlined in the induction, there shall be no glass taken into the ponds area.

7.9 Communications

The Contractor shall ensure the following communication and reporting requirements are met;

- Kick-off meeting with SBR prior to works commencing.
- Daily pre-starts (documented) and forwarded to the SBR representative.
- Daily site meetings and discussions with SBR as required.

- Weekly progress meetings with SBR stakeholders once site works commence to discuss; actual vs planned progress against the schedule, plan for the following week, HSE concerns, and any other issues and/or concerns.
- Detailed progress report to validate monthly progress claims.

The Contractor's supervisor shall attend a 15-minute SBR daily pre-start meeting, weekly site meetings and any other meeting as requested by SBR.

8. SITE CONDITIONS

As a guide to the ambient conditions, the following information is provided (Source: Australian Government Bureau of Meteorology Website, averages for Denham):

Mean daily maximum temperature	26.8°C
Highest recorded shade temperature	47.0°C
Mean daily minimum temperature	17.8°C
Lowest recorded temperature	5.5°C
Relative humidity	up to 100%
Average yearly rainfall	223.2 mm
Maximum daily rainfall	182.4 mm
Maximum monthly rainfall	247.7 mm
Mean daily evaporation	9 mm
Maximum operating wind speed	23 metres per second
AS1170.2-2002 Wind Region	C
Terrain Category	Refer AS 1170

The Contractor is responsible for ensuring that all equipment and components provided are suitable for the environmental conditions as specified for the design life.

The Contractor shall allow for all weather conditions throughout the Contract period. No extension of time for inclement weather will be granted unless specifically agreed to within the Contract.

9. TECHNICAL REQUIREMENTS

The technical requirements and reference documents that are applicable/relevant to this SOW are as follows:

9.1 Company Plans, Procedures, Standards & Specifications

The following Company plans, procedures, standards and specifications are issued as reference for the Contractor's works:

Document No.	Title
SBR-PRO-0082	SBR Contractor Management Procedure
00-SPE-G-002	Useless Loop Information for Contractors
00-SPE-P-010	Piping
00-SPE-C-002	Roadworks Construction
00-SPE-Q-001	Construction Quality Control Procedure

00-SPE-G-019	Packaging and Transport
SBR-PRO-0082	SBR Contractor Management Procedure

The Contractor shall request any additional documents that may be referenced within the above supplied documents, should they require them.

9.2 Reference Drawings and Documents

The following reference documentation is applicable to this SOW;

Document No.	Title
SBR-092-L-0001r1	Overall Layout
SBR-092-L-0002r1	Sheet 1 of 10
SBR-092-L-0003r1	Sheet 2 of 10
SBR-092-L-0004r1	Sheet 3 of 10
SBR-092-L-0005r1	Sheet 4 of 10
SBR-092-L-0006r1	Sheet 5 of 10
SBR-092-L-0008r1	Sheet 7 of 10
SBR-092-L-0009r1	Sheet 8 of 10
SBR-092-L-0010r1	Plan & Elevation Profile
SBR-092-L-0011r1	Pipe Layout Elevation Details
SBR-092-L-0012r0	Sheet 9 of 10
SBR-092-L-0013r0	Sheet 10 of 10
SBR-092-C-0001r1	Pipeline Road Crossings Typical Details
SBR-092-C-0002r1	Pipeline Road Crossings Bitterns & Flush Line at Crossing 1
SBR-092-C-0003r1	Bittern Discharge Pipe Details
SBR-092-C-0012r0	F6, F7 & F8 Pond Underground Services Levee Sections
SBR-092-P-0010r0	Single Air Release Valve Arrangement
SBR-092-P-0011r0	Double Air Release Valve Arrangement
SBR-092-P-0012r0	Telemetry Station 1 Flow Meter Arrangement
SBR-092-P-0013r0	Telemetry Station 2 & 3 Flow Meter & Actuated Valve Arrangement
SBR-092-P-0024r0	Standpipe Takeoff Arrangement
SBR-092-P-0025r0	Drain Valves Arrangement
Z-20-PID-U-010r1	Piping & Instrumentation Diagram Sheet 1

The Contractor shall request any additional drawings that may not have been supplied as above, or that may be required in addition to the above.

It shall be the Contractor's responsibility to ensure that they are working from the latest revision of drawings.

9.3 Statutory Requirements

The Works shall comply with all statutory regulations and appropriate Codes of Practice and Standards relevant to such work in Western Australia.

Particular attention is drawn to the following;

- WHS Act Work Health and Safety Act 2020
- WHS General Regulations - Work Health and Safety General Regulations 2022
- WHS Mines Regulations - Work Health and Safety (Mines) Regulations 2022

9.4 Standards & Codes

All work and equipment shall be covered by the applicable provisions of the latest editions of relevant Codes and Standards.

10. WORK PROGRAM

The Contractor shall provide with their Tender a preliminary project schedule in Gantt Chart format which illustrates the expected durations and milestones for the completion of the Works, including the following at a minimum:

The Contractor shall submit a detailed project schedule in Gantt Chart format within two weeks of award. The detailed schedule shall provide additional detail to that which was submitted at the Tender stage, to SBR's satisfaction, and subject to SBR's approval.

The Contractor shall note that the excavation works for the underground crossings will need to be timed to suit SBR's operational requirements. As such the Contractors proposed schedule for carrying out the road crossing construction requires the approval of the SBR Representative, and the timing may be subject to change at SBR's discretion to suit SBR's operational needs.

11. APPENDIX A – EXISTING & PROPOSED INFRASTRUCTURE

