

# Inspection and Test Plan (ITP) 007: Leak Detection System

Senex Tethys Brine Tank 2

RSA Contractors Pty Ltd

Lot Description: \_\_\_\_\_

Commencement Date: \_\_\_\_\_



## Abbreviations

Third Party	TP	RSA Contractors	RSA	Nominated Project Personnel	NPP	Principle Contractor	PC
Surveyor	SUR	RPEQ	RPEQ	Supervisor	SUP	Inspect	INS
Test	TST	Project Engineer	PE	Witness Point	WP	Hold Point	HP
Visual	VIS	Check	CHK	Written	WRI	Monitor	M
Milestone	MST	Review	R				

Inspection and Test Plan Details							Contractor			Client		
Item	Inspection Activity	Work By	Standard / Spec	Criteria	Frequency	Record	Resp	Type	Signoff	Resp	Type	Signoff
01	Lot Identification	Contractor	Technical Specification/IFC Drawings	Location of works identified as per IFC drawings	1/Lot	ITP Verification Checklist/Lot drawing	RSA	CHK		Senex	CHK	
02	Survey control and Setout	Contractor	Technical Specification/IFC Drawings	Confirm centres of both sump and tank locations	1/Lot	ITP Verification Checklist	RSA	HP		Senex	HP	
03	Excavation of sump	Contractor	Technical Specification/IFC Drawings	Located at 3m outside from the hinge point of the tank pad. To be trenched to a depth of 3.17 m (to be confirmed on site) Sump excavated to correct dimensions in line with Concept Tanks 0.8m diameter excavation to design depth. Sump pit depth to be determined onsite ensuring sufficient fall from tank centre to sump	1/Lot	ITP Verification Checklist	RSA	CHK		Senex	WP	
04	Installation of HDPE sump base and chamber at correct height and level	Contractor	Technical Specification/IFC Drawings	Poly sump base to be installed at 200mm below leak detection pipe. Sump chamber installed plumb to correct height minimum 150mm above top of tank	1/Lot	ITP Verification Checklist	RSA	CHK		Senex	WP	
05	Backfill - Sump	Contractor	Technical Specification/IFC Drawings	Backfill in accordance with CT requirements. Compaction testing in line with Earthworks specification	1/Lot	ITP Verification Checklist / Test	RSA	CHK		Senex	HP	
06	Leakage pipe trench excavation	Contractor	Technical Specification/IFC Drawings	Trench excavated to correct lines and levels in line with CES drawings. 1:100 fall to sump Sufficient excavation width to facilitate	1/Lot	ITP Verification Checklist	RSA	CHK		Senex	WP	

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Item	Inspection Activity	Work By	Standard / Spec	Criteria	Frequency	Record	Resp	Type	Signoff	Resp	Type	Signoff
				installation.								
07	Installation of 50mm HDPE leakage pipe	Contractor	Technical Specification/IFC Drawings	50mm HDPE pipe and bends installed in accordance with CT and manufacturer requirements. Minimum 150mm cover at centre of tank Pipe installed on 50mm sand bedding (optional) as per CT recommendations  HDPE pipe riser installed 300mm above FSL at centre of tank, temporary seal to prevent sediment ingress.  Pipe to be left exposed at centre of sump pit	1/Lot	ITP Verification Checklist	RSA	CHK		Senex	WP	
08	Surface Water Runoff	Contractor	Technical Specification/IFC Drawings	DN110 HDPE pipe for construction surface water runoff to be installed 1:100 fall to swale drain	1/Lot	ITP Verification Checklist	RSA	CHK		Senex	WP	
09	Backfill - Trench	Contractor	Technical Specification/IFC Drawings	Backfill in accordance with CES requirements and general earthworks specifications 98% +/-2% moisture (Ring beam area) 96% +/-2% moisture (All other areas)	Min 2 tests per lot	ITP Verification Checklist / Test Report	RSA	CHK		Senex	WP	
10	Acceptance of work	Contractor	Technical Specification/IFC Drawings	Work completed in accordance with CES requirements. Compaction reports received and meeting specification As-constructed survey data obtained	Once per lot	ITP Verification Checklist	RSA	CHK		Senex	HP	

Test Details			Normal Testing Level			Required Result(s)
Item	Test	Description	Max Lot Size	Min Test Frequency	Min No of tests	Criteria
01	AS 1289 .2.22, AS1289.5.1.1, AS 1289.5.4.1, AS1289.5.8.1	<b>General Fill</b> Standard Dry density ratio, Moisture Content	1	2/LOT	2	-2% dry to +2% wet OMC SDDR 96%

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Contractor Construction Manager:			
	(Print Name)	(Signature)	(Date)
Client Superintendent:			
	(Print Name)	(Signature)	(Date)

Document Status				
Revision Status	Responsible Person	Signed	Dated	Revision
Draft By:	Madhu Achana			Rev0
Reviewed By:				
Submitted By:				
Approved By:				