

# WATER CORPORATION

## GHOOLI PUMP STATION CONTAINMENT CELL DESIGN

### 12561300



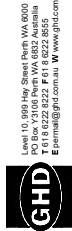
LOCALITY MAP  
NTS

DRAWING No.	TITLE
12561300-SK/01	LOCALITY AND SKETCH INDEX
12561300-SK/02	EXTENT OF CONTAMINATED MATERIAL
12561300-SK/03	PROPOSED CONTAINMENT CELL ARRANGEMENT
12561300-SK/04	SOUTHERN CONTAINMENT CELL DETAILS
12561300-SK/05	NORTHERN CONTAINMENT CELL DETAILS
12561300-SK/06	CONTAINMENT CELL PROFILE

Rev	Description	Checked	Approved	Date
0	APPROVED FOR ISSUE			
Author	M. JARING	Drawing Check	A. DE VERA	
Designer	N. AMBREY	Design Check	C. DAVYNE	

Plot Date: 18 November 2017 2:20 PM Plotted by: Michelle Jaring

File Name: ghooli.pump.station.sketch.12561300.dwg  
Project No: 61-12561300

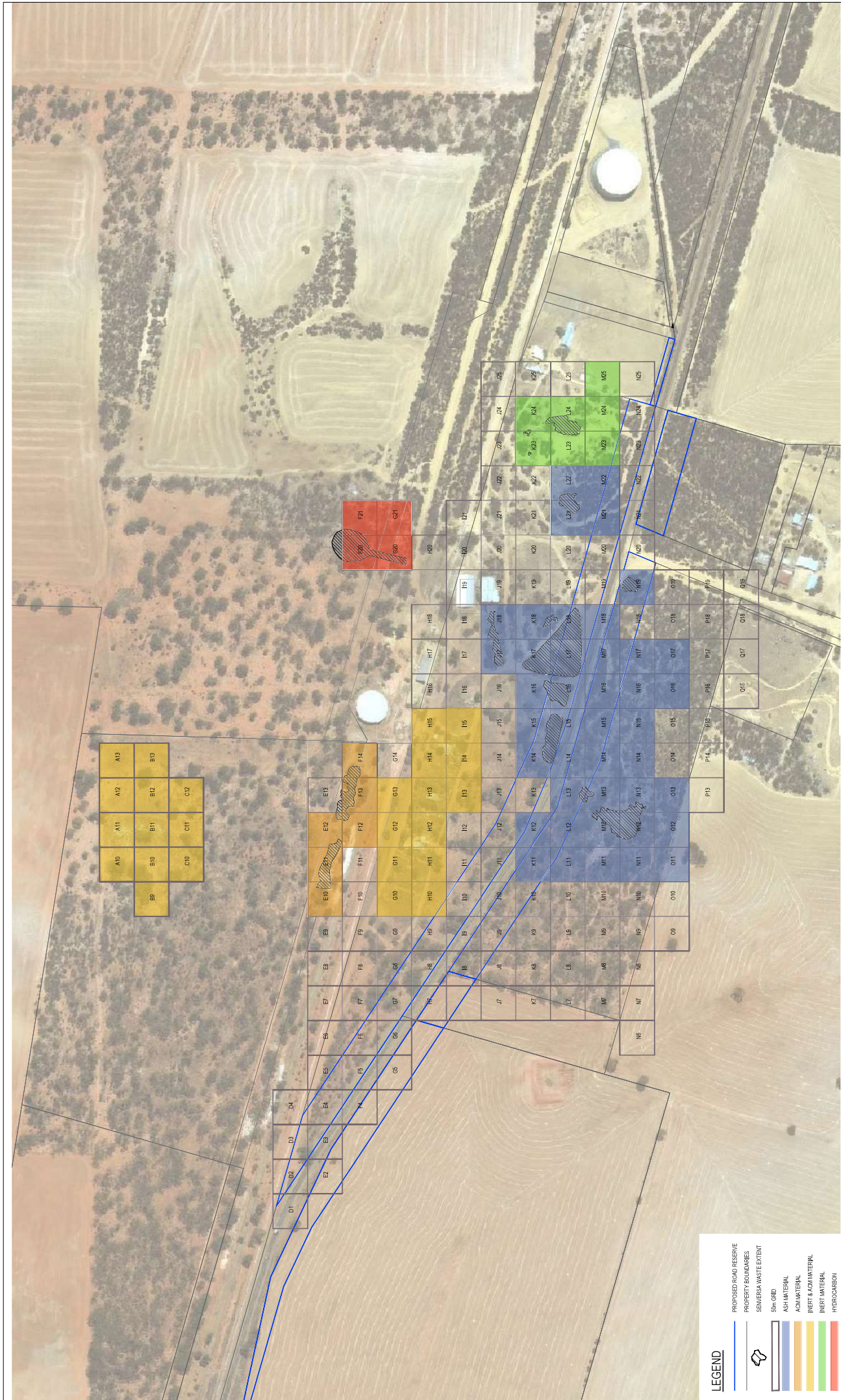


Client: WATER CORPORATION  
Project: GHOOOLI PUMP STATION  
CONTAINMENT CELL DESIGN  
Status: S4  
Status Code: S4

Drawing Title: LOCALITY AND SKETCH INDEX

Scale: A1  
Drawing No: SK01  
Page: 0





PLAN VIEW  
SCALE 1:250

0 APPROVED FOR ISSUE			Checked	Approved	Date
Rev	Description				
Author	M. JARROLD	Drawing Check	A. DE VERA		
Designer	N. AMBNEY	Design Check	C. O'NEILL		
Proj. Date: 22 November 2017 - 1:25 PM					
Proj. By: Michelle Jarrold					
File Name: ghooli_pump_station_dwg(1)125013000.dwg(125013000.dwg)					
Scale: 1:250					
Ghooli Pump Station					
Containment Cell Design					
FOR STAGE APPROVAL					
Client: WATER CORPORATION			Project No:	61-12561300	
Drawing Title: EXTENT OF CONTAMINATED MATERIAL			Status:	S4	
Scale: A1			Sheet No:	SK02	0



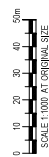


LEGEND

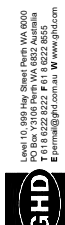
- PROPOSED ROAD RESERVE
- PROPERTY BOUNDARIES
- 5m GRID
- ASH MATERIAL
- ACM MATERIAL
- INERT & ACM MATERIAL
- INERT MATERIAL
- HYDROCARBON

Rev	Description	Checked	Approved	Date
0	APPROVED FOR ISSUE			
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File Name: ghoolipumpstation.dwg (1/2561/3000/ACM/Design) (2561/300/980).dgn



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CONTAINMENT CELL DESIGN  
Status S4  
Project No. 61-12561300

Drawing Title PROPOSED CONTAINMENT  
CELL ARRANGEMENT

Sheet No. A1  
Drawing No. SK03  
Rev 0



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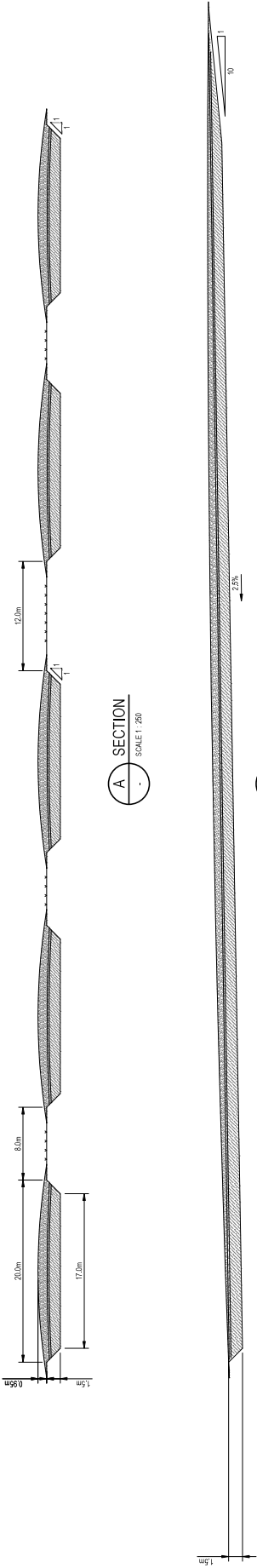


Client	WATER CORPORATION
Project	GHOOLI PUMP STATION CONTAINMENT CELL DE
Status	FOR STAGE APPROVAL

Drawing  
Title

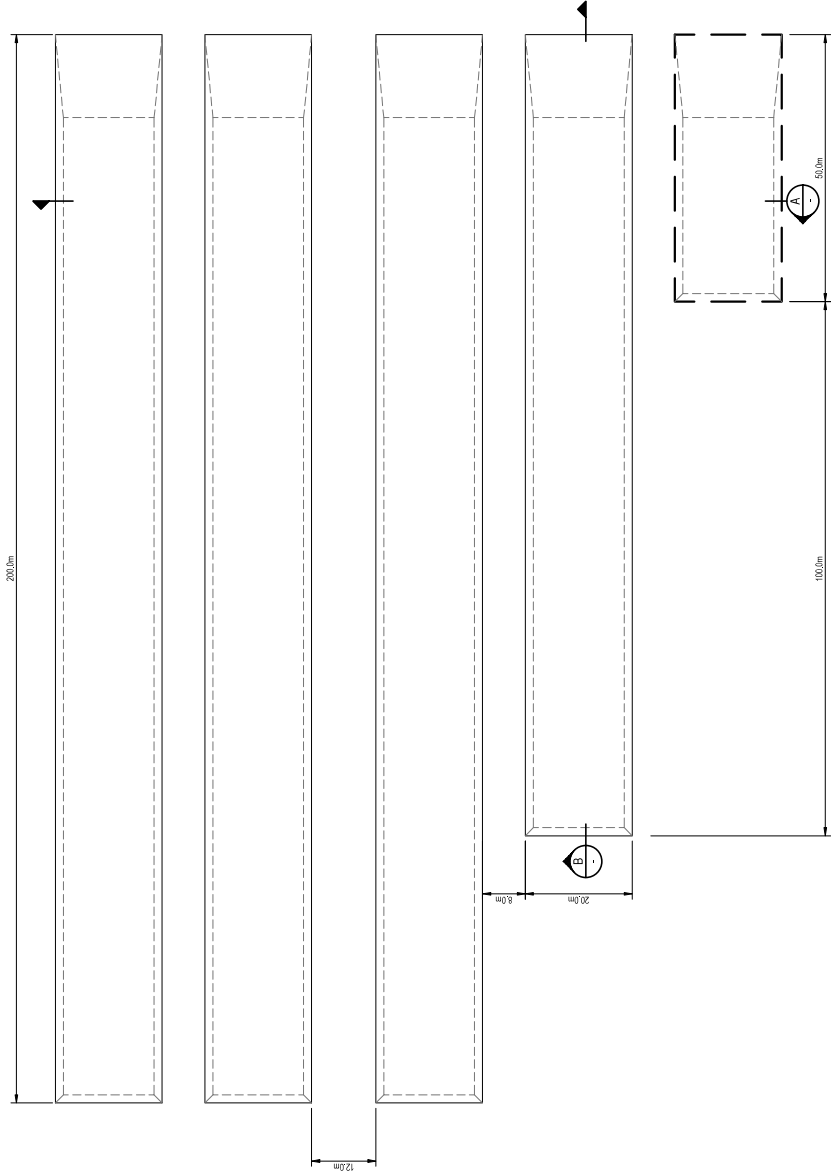
Size A1

Drawing No. SK04  
Rev 0



A SECTION  
SCALE 1:250

B SECTION  
SCALE 1:250



PLAN VIEW  
SCALE 1:500



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CONTAINMENT CELL DESIGN  
Project No. 61-12561300

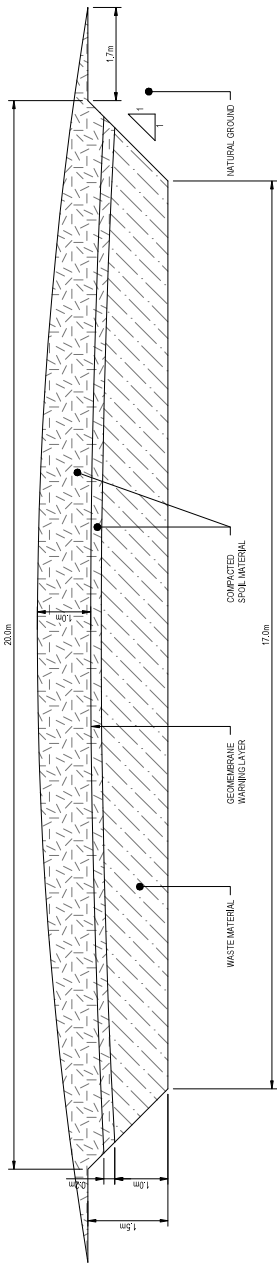
Drawing Title  
NORTHERN CONTAINMENT  
CELL DETAILS

Status  
S4

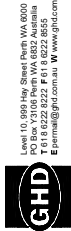
Sheet  
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Revision  
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Drawing No.  
SK05

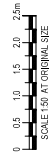


CONTAINMENT CELL PROFILE  
SCALE 1:50



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0	APPROVED FOR ISSUE			
Author	M. JARROLD	Drafting Check	A. DE VERA	
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Plot Date: 24 November 2011 11:48 AM Plot by: Michelle Jarrold

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Project No.  
61-12561300

Client: WATER CORPORATION  
Project: GHOOI PUMP STATION  
CONTAINMENT CELL DESIGN  
Status: S4  
FOR STAGE APPROVAL

Drawing Title: CONTAINMENT CELL DETAILS

Sheet No: A1

Page: 0

Drawing No: SK05

## **Appendix 2**

### **Senversa waste estimates**

**Table 1 Senversa waste estimates**

Containment cell	Volume ID	Location	Waste description	Senversa estimated volume (m³) [1]	Senversa estimated coverage of grid cell (%) [2]	Total impacted grid area (m²) [3]	Potential additional volume (m³) [4]	Potential total waste volume (m³)
North of GEH	Volume 1	North of the worker's cottages	ACM impacted stockpile and inert fill material.	1,322	7	17,500	810	2,132
	Volumes 2-4	Three worker's cottages, west of the pump station	Building structures, ACM material and scrap metal. A below ground ACM pipe was also identified to the south of the cottages.	893	-	42,500	-	893
	Volume 5	East of Ghooli North Road	Ash material, uncompacted fill material and ACM fragments.	520	8	5,000	230	750
	Volumes 7-8	North of GEH and east of Ghooli North Road	Ash material. A septic pipe was also identified.	1,175	35	13,750	449	1,624
	Volume 9	North of GEH and west of Ghooli North Road	Ash material and bituminous gravel.	252	11	12,125	541	793
	Volume 11	South-west of the pump station and north of GEH	Ash material.	212	5	10,000	473	685
	Volume 12	Eastern wall of the borrow pit	Building rubble.	1,417	7	13,125	614	2,031
	DPLH (former engineer's house)	North of the worker's cottages	Non putrescible general solid waste and ACM.	105	-	30,000	-	-105
	Hydrocarbon area	North of the pump station.	Hydrocarbon impacted soil.	1,092	32	12,500	425	1,517
	Other ACM			12	-	-	-	-12
	<b>ADSI northern containment cell requirement</b>			<b>7,000</b>	<b>-</b>	<b>156,500</b>	<b>3,542</b>	<b>10,542</b>
South of GEH	Volume 10	South of GEH and west of Ghooli South Road	Ash material, demolition waste, hard rubbish and uncompacted fill material.	6,845	24	58,750	2,227	9,072
<b>ADSI southern containment cell requirements</b>				<b>6,845</b>	<b>-</b>	<b>58,750</b>	<b>2,227</b>	<b>9,072</b>



**Table notes:**

- [1] Senversa estimated volume is the “average” or best estimate from Senversa (2021)
- [2] Senversa estimated coverage is the % of the total contaminated area, as defined by the shaded grid cells, which can be accounted for in Senversa’s waste volume calculations
- [3] The total impacted grid area is GHD’s calculated “grid cell” area for the total plan view extent of the contamination volume
- [4] The potential additional volume is the balance of the grid cell area x 0.05m (i.e., assuming a nominal 50mm minimum average scrape over the total contaminated area).