



INTERNALS		OPTIONS/APPURTENANCES	
DEMISTER BY	-	SURF. PREP.	-
YORKMESH #	-	PRIMER	-
SANDWICH TYPE	-	FINISH	-
MATERIAL	-	BY	-
REMOVABLE	-	INSUL'N TYPE	-
INSTALLED BY	-	INSUL'N THK., mm	-
TRAYS BY	-	BY	-
SUPP'T BY	-	INSUL'N RINGS	-
INSTALLED BY	-	LADDER/CAGE	-
EXTENDED D.C.	-	PF DAVIT	-
PACKING BY	-	LADDER/PF/PIPE CLIPS	-
SUPP'T BY	-	FIREPROOFING	-
INSTALLED BY	-	PLATFORM	-
REDISTR'R	-	LIFT. LUGS	YES
BAFFLES	-	BASEPLATE	-
WEIR	-	OVHD. PIPE SUPP.	-
RISERS	-	INT. COATING	-
DISTRIB'R	-	BY	-
VORTEX BREAKER	-	COIL SUPPORTS	-
SYPHON DRAIN	-		
INT. LADDER/CAGE	-		
INTERNAL HEAD	-		
HEAT COIL	-		
SLOTTED STILLING WELLS	-		
STINGERS	-		

NOZZLE SCHEDULE						
MARK	SIZE	QTY	RATING	SERVICE	TYPE	REMARKS
N1	6"	1	150#	LIQUID INLET	FF	C/W DOWNCOMER
N2	6"	1	150#	SPARE	FF	C/W BLIND
N3/N4	6"	2	150#	SPARE	FF	C/W BLIND
N5	24"	1	-	PUMP OPENING	FF	C/W BLIND
N6	8"	1	150#	FREE VENT	RF	C/W BIRDSCREEN
N7	3"	1	150#	TRUCK PUMP OUT	RF	C/W DOWNCOMER
N8	4"	1	150#	LEVEL TRANSMITTER	RF	
N9	2"	1	-	LEAK DETECTION	CPLG	
N10	2"	1	-	DIPSTICK	PIPE	C/W CAP
M1	24"	1	150#	MANWAY	FF	C/W COVER

[illegible]

PERMIT STAMP	ENGINEER'S STAMP	<b>DPH FOCUS</b>				<b>ENCANA</b>			
			DRAWN	CHECKED	APPROVED DSGN. ENG.	APPROVED PROJ. ENG.	<b>T-5780</b> <b>AMINE/AGE BUILDING FLOOR DRAIN TANK</b>		
		BY	SJ	KJK					
		DATE	JAN 14/08	JAN 14/08					
		DPH PROJECT No		9971	DWG SIZE		11" x 17"	SCALE NTS	DRAWING NUMBER



## TANK DATA SHEET

REV

TAG NO. T-5780 PAGE 1 OF 3  
PO NUMBER FCSR-DPH-4017B  
END USER ENCANA FCCL OILS SANDS LTD.  
MODEL # \_\_\_\_\_

PROJECT Foster Creek Sulphur Recovery FacilityPROJECT # DPH Focus 9971SERVICE AMINE/AGE Building Floor Drain Tank

## DESIGN REQUIREMENTS

CODE & APPENDICES ☐ API 650 Appendix: \_\_\_\_\_ ☐ API 620 ☐ API 12D ☐ API 12F ☐ API 2000  
☐ OTHERS \_\_\_\_\_  
API MONOGRAM ☐ YES ☐ NO  
NOMINAL CAPACITY 5.3 m<sup>3</sup> LOCATION ☐ ABOVEGROUND ☒ INDOOR  
COMMODITY IN TANK Water ☒ UNDERGROUND ☐ OUTDOOR  
SPECIFIC GRAVITY 1.0 approx  
MIN. DESIGN METAL TEMP. -29°C °C REID VAPOR PRESSURE \_\_\_\_\_ kPaa  
DESIGN PRESSURE Atmospheric kPag DESIGN TEMPERATURE 100 °C  
DESIGN VACUUM \_\_\_\_\_ kPag  
OPERATING PRESSURE Atmospheric kPag OPERATING TEMPERATURE Atmospheric / 90 °C  
CORROSION ALLOWANCE SHELL Nil mm ROOF Nil mm FLOOR Nil mm  
MAXIMUM FILLING RATE 68 m<sup>3</sup>/hr MAX. EMPTYING RATE 70 m<sup>3</sup>/hr

## CONSTRUCTION REQUIREMENTS

DIMENSIONS DIAMETER Note 1 mm HEIGHT Note 1 mm  
BOTTOM ☐ CROWNED TOWARD CENTER ☐ SLANTED ☐ FLAT DOWN TOWARD CENTRE  
☐ CONE ANGLE FROM HORIZONTAL \_\_\_\_\_ ° SKIRT HEIGHT \_\_\_\_\_ mm  
FOUNDATION ☐ EARTH GRADE W/ PAVED SHOULDER ☐ CONCRETE SLAB ☐ EARTH GRADE W/ STEEL RING WALL  
☐ HOLD DOWN ANCHORS QUANTITY REQUIRED \_\_\_\_\_  
☐ FIXED ROOF ☐ CONE SELF SUPPORTING ☒ OTHER Dome  
☐ COVERED FLOATING ROOF  
☐ OPEN TOP FLOATING ROOF ☐ PONTOON TYPE ☐ SINGLE DECK ☐ DOUBLE DECK  
FLOATING ROOF SEALS  
TOP ANGLE ☐ INWARD ☐ OUTWARD  
☐ INSULATION SUPPORT RINGS  
☐ INSULATION HEIGHT \_\_\_\_\_ mm TYPE \_\_\_\_\_ THICKNESS \_\_\_\_\_ mm  
HEIGHT \_\_\_\_\_ mm TYPE \_\_\_\_\_ THICKNESS \_\_\_\_\_ mm  
☐ CLADDING HEIGHT \_\_\_\_\_ mm TYPE \_\_\_\_\_ THICKNESS \_\_\_\_\_ mm  
HEIGHT \_\_\_\_\_ mm TYPE \_\_\_\_\_ THICKNESS \_\_\_\_\_ mm  
☒ LIFTING LUGS QUANTITY 4  
☐ GROUND LUGS QUANTITY \_\_\_\_\_  
☐ TAILING LUGS QUANTITY \_\_\_\_\_  
TANK MATERIAL  
SHELL 1ST COURSE FRP Derakane 470 THICKNESS 6.35 mm  
2ND COURSE FRP Derakane 470 THICKNESS 6.35 mm  
REMAINING FRP Derakane 470 THICKNESS 6.35 mm  
ROOF FRP Derakane 470 THICKNESS 6.35 mm  
FLOOR FRP Derakane 470 THICKNESS 6.35 mm  
☒ DOUBLE WALL MATERIAL Concrete  
☐ TANK HEATING COIL SIZE \_\_\_\_\_ PIPING MATERIAL \_\_\_\_\_  
☐ FIRETUBE SIZE \_\_\_\_\_  
☐ LADDER ☐ CLIPS ☐ SAFETY CAGE ☐ SPIRAL STAIRCASE  
☐ PLATFORMS SIZE \_\_\_\_\_  
☐ LEVEL GAUGE BOARD ☐ SEAL  
☐ SAMPLE BOX (C/W BLOWCASE, SAMPLE LINES, DRAIN AND VALVES) DRAIN SIZE \_\_\_\_\_ DRAIN VALVE \_\_\_\_\_  
NO. OF SAMPLE DRAIN OFFS \_\_\_\_\_ SAMPLE LINES \_\_\_\_\_ SAMPLE VALVES \_\_\_\_\_  
ELEVATIONS 1. \_\_\_\_\_ 5. \_\_\_\_\_ 9. \_\_\_\_\_ 13. \_\_\_\_\_  
2. \_\_\_\_\_ 6. \_\_\_\_\_ 10. \_\_\_\_\_ 14. \_\_\_\_\_  
3. \_\_\_\_\_ 7. \_\_\_\_\_ 11. \_\_\_\_\_ 15. \_\_\_\_\_  
4. \_\_\_\_\_ 8. \_\_\_\_\_ 12. \_\_\_\_\_ 16. \_\_\_\_\_

REV	DESCRIPTION	DATE	BY	CHK'D	APP'D	REV	DESCRIPTION	DATE	BY	CHK'D	APP'D
A	AS-BUILT	01-Jun-09	JSJ								



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PO NUMBER FCSR-DPH-4017B  
END USER ENCANA FCCL OILS SANDS LTD.  
MODEL # \_\_\_\_\_  
SERIAL # \_\_\_\_\_

PROJECT	<u>Foster Creek Sulphur Recovery Facility</u>
PROJECT #	<u>DPH Focus 9971</u>
SERVICE	<u>AMINE/AGE Building Floor Drain Tank</u>

## ITEM

MARK

QTY.

SIZE

## RATING

O.S.  
PROJ.  
(mm)

TYPE

REMARKS

**SHELL**

FLOOR DRAIN INLET	N1	1	6"	150# FF		A	c/w blind
FLOOR DRAIN INLET (SPARE)	N2	1	6"	150# FF		A	c/w blind
FLOOR DRAIN INLET (SPARE)	N3	1	6"	150# FF		A	c/w blind
FLOOR DRAIN INLET (SPARE)	N4	1	6"	150# FF		A	c/w blind

**BOTTOM**

## ROOF

MANWAY	M1	1	24"	-	A	Note 2, c/w cover FRP
MANWAY	N5	1	24"	-	A	Note 2, c/w cover FRP
FREE VENT	N6	1	8"	150# RFWN	A	Note 3, Note 6 & c/w birdscreen
TRUCK PUMP-OUT	N7	1	3"	150# RFWN	A	Note 3 & c/w downcomer
LEVEL TRANSMITTER	N8	1	4"	150# RFWN	A	Note 3
LEAK DETECTION	N9	1	2"	Cplg	-	Note 4
DIPSTICK	N10	1	2"	Pipe	-	c/w cap

## MISCELLANEOUS

\*\* A = SINGLE FLANGE, B = DOUBLE FLANGE, C = SPECIAL FLANGE, D = SCREWED TYPE, E = OTHER

[illegible]





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MODEL # \_\_\_\_\_  
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REV

PROJECT Foster Creek Sulphur Recovery Facility  
PROJECT # DPH Focus 9971  
SERVICE AMINE/AGE Building Floor Drain Tank

**PAINTING/COATING**

		PAINT SYSTEM	SURFACE PREPARATION	PRIMER COAT	FINISH COAT	PRIMER DFT (mil)	FINISH DFT (mil)
EXTERIOR	N/A						
FLOOR							
SHELL							
ROOF							
INTERIOR	N/A						
FLOOR							
SHELL							
ROOF							
INT'L SHELL NOZZLE							
STRUCTURAL STEEL							

**NOTES**

1. Tank sizes: Internal (FRP): 1830 mm ID x 2070 mm high  
External (concrete): 2440 mm OD x 2680 mm high
2. Provide a standard Manway for N5
3. N6, N7 and N8 shall be 316SS nozzles.
4. Leak detection nozzle N9 complete with the following:
  - 6.35 mm SS monitoring tube on containment tank
  - Metal hand vacuum pump (25" Hg capacity)
  - 6.35 mm clear poly insertion tube
  - Suction reservoir (120 ml capacity)
  - Plastic pump carrying case
5. Tank c/w four 3½" pipe bollards.

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0

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A	AS-BUILT	01-Jun-09	JSJ								