DATA SHEET

TANK

				PROJECT NO.	6620868/363
				DATA SHT NO.	
PROJECT:	NHC CAPACITY REVIEW			EQUIPMENT NO.	242-TNK-XXX
CLIENT:	VALE NEW CALEDONIA	LOCATION:	GORO, NEW CALEDONIA	REVISION NO.	O1
EQUIPMENT:	242-TNK-XXX	UNIT / AREA:	AREA 242		Rev.

GENERAL Special Documentation Package Requirements:

Measurement Units to be used in DVS Std 2205: SI

Manufacturer	Vendor to advise	Contract No.	Vendor to advise	Address	Vendor to advise
Eddition & Addendum to *DVS 2205*	Latest	Mfg. Serial No.	Vendor to advise	Year Built	Vendor to advise
Purchaser	Vale New Caledonia	Address	Goro, New Caledonia	Tank Designation	242-TNK-XXX

Size Limitations:

Shell Height	1.9 (m)	Tank Diameter	4.0 (m) ID		
Capacity:					
Maximum	23.9 m^3	Net Working	20.1 m^3		

Products Stored:	NHC Filtrate				
Liquid	Slurry	Max S.G.	1.23	Temperature	80 (°C)
Vapour Pressure	30 kPa(a)				
Other Special Service Conditions?					

DESIGN AND TESTING

Max. Design. Temp.	40 (°C)	Design Metal Temp	40 (°C)			Design Liquid Level	1.6 (m)
Design Pressure	0 kPag	External Pressure	ATM				
Maximum Fill Rate	200 m^3/h	Maximum Emptying rate	200	m^3/h			
Seismic Design:	GCT-01-000-8310-SP-0001					Seismic User Group	I
Importance Factor	1	Site Factor	1.25				
Wind Design:	GCT-01-000-8310-SP-0001						
Shell Design Method:		Variable Design Point		Elastic Analysis			
Plate Stacking Criteria:		Centreline		Flush		Inside X	Outside

Plate Widths (Shell course heights) and Thicknesses. Numbers below Indicate Course Number.

1.		2.		3.		4.		5.	
6.		7.		8.		9.		10.	
11.		12.		13.		14.		15.	

Joint Efficiency	N/A %	Shell to Bottom Weld Type	N/A	Shell to Bottom Weld Inspection	N/A
Open Top?	No				
Roof Type	Vendor to advise	Cone Slope		Dome Radius	Weld Joint Type
Normal Venting Device	Open flange vent (See Nozzle Schedule)			Emergency Venting Device	

Bottom:

Thickness	(mm)	Style	Flat	Slope	N/A	Weld Joint Type	Butt

Foundation:		Furnished by	Purchaser	Type	Raft
Anchors:		Size	Vendor to Advise	Quantity	Vendor to Advise
Foundation Design Loads:					
Base Shear Force		Wind	Vendor to Advise	Seismic	Vendor to Advise
Overturning Moment		Wind	Vendor to Advise	Seismic	Vendor to Advise
Ring Forces:					
Shell + Roof (New)	Vendor to Advise	Shell + Roof (Corroded)	Vendor to Advise	Roof Live Load	Vendor to Advise
Internal Pressure		Partial vacuum		Wind	Seismic
Bottom Forces:		Floor (New)		Floor (Corroded)	Product Wt.
Water Wt.		Internal Pressure		Partial vacuum	Other

Hydro-Test fill height	(m)	Settlement Measurements Required		Extended Duration of Hydro-Test	
Supplimental Test Water Quality Spec					
Post-Pressure-Test Actitives Required of the Manufacturer:		Broom		Potable Water Rinse	Dry Interior

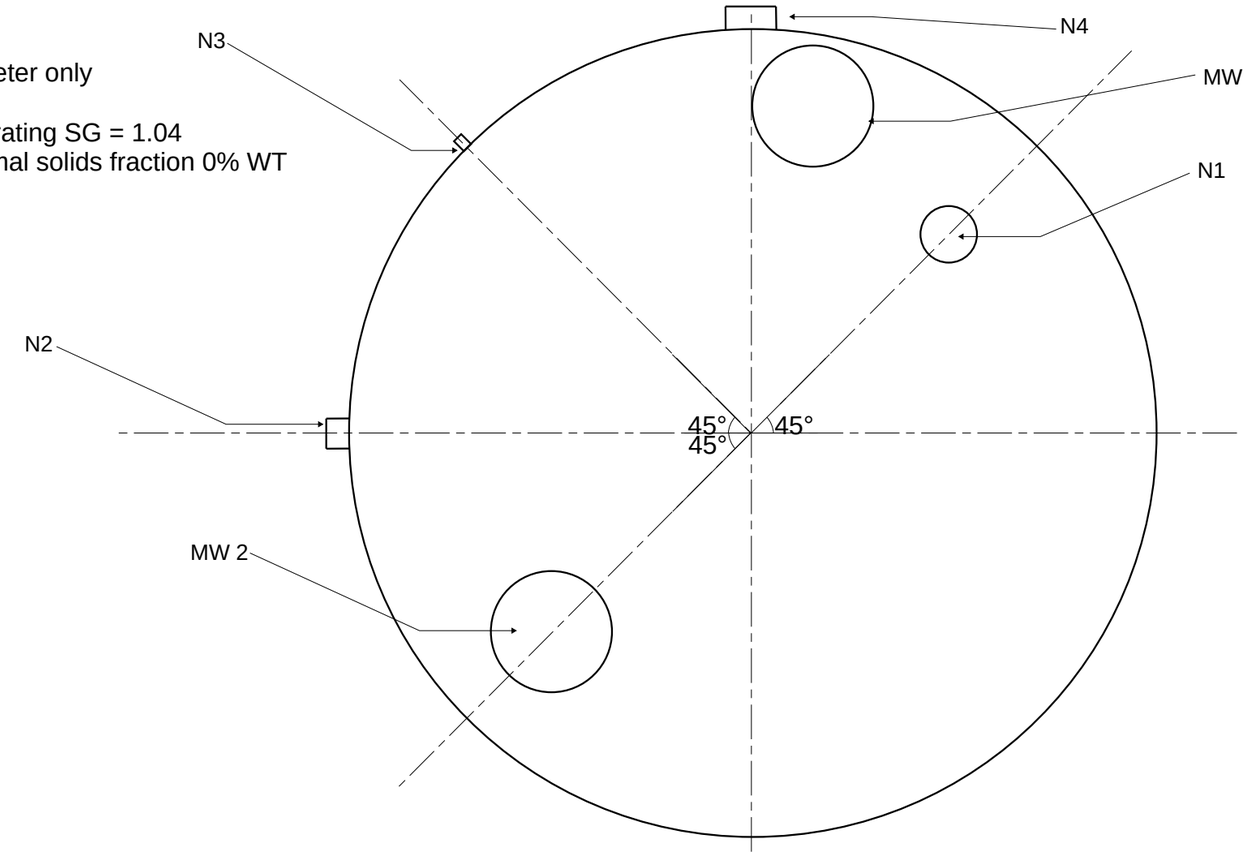
Inspection by	Manufacturer	in Shop	Manufacturer	in Field	Note, APAVE required for X-ray
SupplementalNDE Responsibility			Supplemental NDE Specification		
Positive Material Identification?	NO		PMI Requirements	N/A	

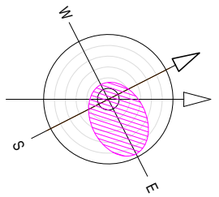
Coatings:

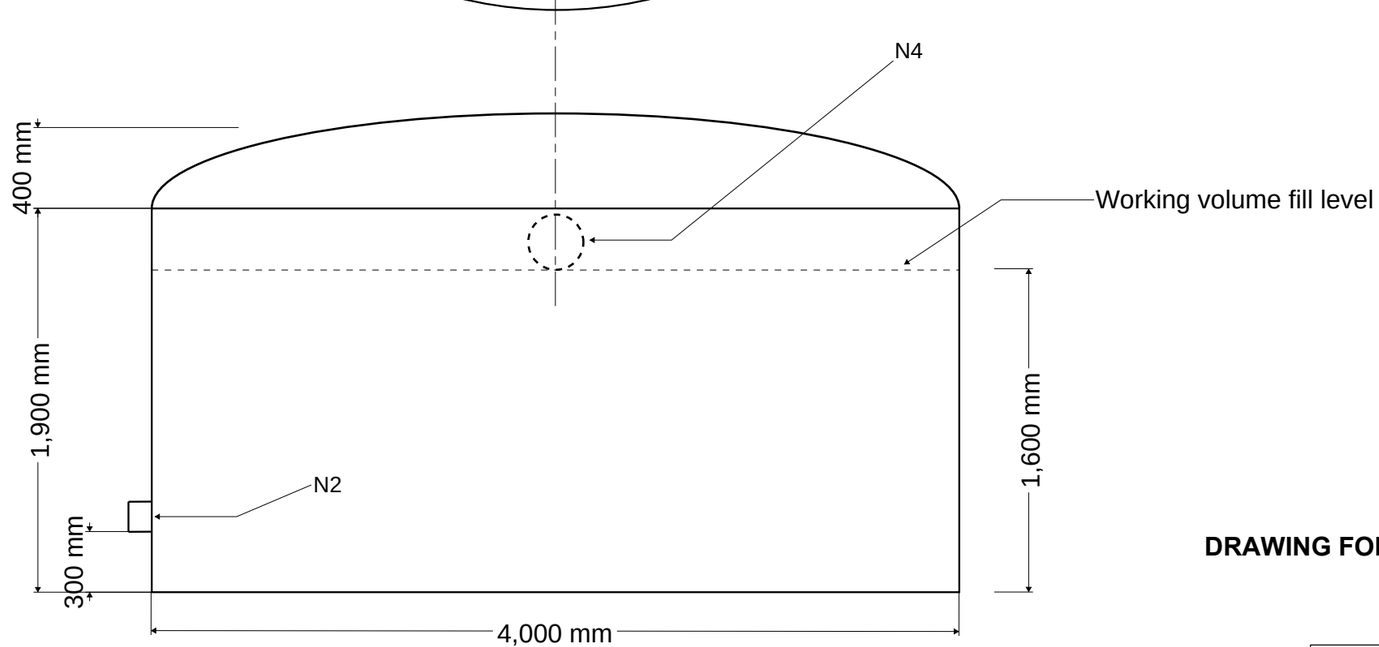
Internal Coatings by	N/A	Per Spec	(Not req'd, Others, Tank Mfg.)
External Coating by	N/A	Per Spec	(Not req'd, Others, Tank Mfg.)
Under-Bottom Coating by	N/A	Per Spec	(Not req'd, Others, Tank Mfg.)
Platforms, Structural steel	N/A	Per Spec	(Not req'd, Others, Tank Mfg.)

83	Weight of Tank											
84	Full of Water	Vendor to Advise	Empty	Vendor to Advise	Shipping	Vendor to Advise	Brace/Lift Spec.					
85												
86	Remarks:											
87	BASIC MECHANICAL REQ.		GCT-01-000-8470-SP-0002									
88	TANKS		GCT-01-000-8430-SP-0002									
92	WIND AND SEISMIC LOADING		GCT-01-000-8310-SP-0001									
100	* If box is blank, Manufacturer shall determine and submit as per Appendix L.											
101	**Table 1 MATERIALS OF CONSTRUCTION**											
102	Component		Material*	C.A.	Component		Material*	C.A.				
103	Shell, Course ___ to ___		Polystone G Black B100	0	Reinforcing Pads		Polystone G Black B100	0				
104	Shell, Course ___ to ___		Polystone G Black B100	0	Manhole/Nozzle Necks		Polystone G Black B100	0				
105	Shell, Course ___ to ___		Polystone G Black B100	0	Manhole/Nozzle Flanges		Polystone G Black B100	0				
106	Shell, Course ___ to ___		Polystone G Black B100	0	Flange Covers		Polystone G Black B100	0				
107	Shell, Course ___ to ___		Polystone G Black B100	0	Anchor Attachments		Polystone G Black B100	0				
108	Roof		Polystone G Black B100	0	Submerged Piping		Polystone G Black B100	0				
109	Bottom		Polystone G Black B100	0	Wetted Structurals		Polystone G Black B100	+				
110	Annular Ring			0	Non-wetted Structurals			+				
111	+ Check here if C.A. is to apply to each exposed surface											
112	**Table 2 BOLTS and ANCHORS**											
113	Component		Head Type*	Bolt or Anchor Material*			Nut Material*	C.A.				
114	Flange Bolting		Stud					++				
115	Structural Bolting		Hex					++				
116	Anchor Bolts		Vendor to Advise					++				
117												
118	++ Total C.A., on the nominal diameter											
119	**Table 3 NOZZLE and MANHOLE SCHEDULE* (for Fixed Roof, Shell, and Bottom)**											
120	Mark	Service	Size, DN, or Dia (mm)	Neck Sch or Wall Thick.	Reinf. Plate Dimen.	Full Pen. On Open. (Y/N)	Flange Type	Flange Class or Thick.	Gasket Bearing Surf. Dimen. & Finish	Gasket Thick. & Dimen.	Gasket Mat'l & Descript.	Proj. to FF or CL or form Datum Lines
125	N1	Vent	150				Vendor to Advise	Vendor to Advise				
127	N2	Filtrate Discharge	150				Vendor to Advise	Vendor to Advise				
128	N3	Drain	50				Vendor to Advise	Vendor to Advise				
129	N4	Overflow	250				Vendor to Advise	Vendor to Advise				
130	MW1	Filtrate Hose Access	600				Vendor to Advise	Vendor to Advise				
131	MW2	Tank Access	600				Vendor to Advise	Vendor to Advise				
142												
143												
144												
145	**OTHER TANK APPURTENANCES**											
146	Platform, Stairway, and Railing:	None Required										
147	Galvanizing Req'd?	N/A	Stairway Style		N/A	Walk Surf. Type		N/A				
148	Stair and Walkway Clear Width		National Safety Standards									
149	Mixer/Agitator :	None Required										
150	Quantity	N/A	Size	N/A	Per Spec	N/A						
151	Insulation:											
152	Required?	None Required	Thickness	N/A	Material	N/A						
153	Per Specs	N/A	Responsibility for Insulation and Installation			N/A						
154	Structural Elements:											
155	Lift Lugs?	YES	Description									
156	Shell Anchorage		Vendor to Advise	Type	Vendor to Advise							
157												
158												

Notes
1. Design working volume = 20.1m^3
2. Noted tank diameter is internal diameter only
3. Design fluid temperature = 35°C
4. Design fluid SG = 1.23, Normal Operating SG = 1.04
5. Design solids fraction 22% WT, Normal solids fraction 0% WT
6. Design solids SG = 3.51
7. Design Code: DVS 2205
8. Material: Polystone G Black B100
9. Tank must have hold-down bolts
10. Tank must have lifting lugs







Mark	Service	Size, DN, or Dia (mm)
N1	Vent	150
N2	Filtrate Discharge	150
N3	Drain	50
N4	Overflow	250
MW1	Filtrate Hose Access / Inlet	600
MW2	Tank Access	600

DRAWING FOR VENDOR DISCUSSION ONLY

REV.	DATE	DESCRIPTION DES REVISIONS /REVISION DESCRIPTION	DESS./ DRN.	VER. /CKD.	APP. /APP.	SIGNATURES
O2	16/01/2020	ISSUED FOR TENDER	DLK	ZM	JG	
O1	09/01/2020	ISSUED FOR VENDOR DISCUSSION	DLK	ZM	JG	

DESSIN DE REF. /REF. DRAWING | DESCRIPTION DES DESSINS DE REF. /REFERENCE DRAWING DESCRIPTION

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VALE NOUVELLE CALEDONIE
VALE NEW CALEDONIA

NUM. PROJET
PROJECT No.

Beca

NUMERO FOURNISSEUR DU PLAN
SUPPLIER DRAWING No. -

NUMERO VALE (FOURNISSEUR)
VALE SUPPLIER DRAWING No.

TITRE */TITLE*
NHC short Term Capacity Increase Filtrate Storage Tank

NUMERO DE DESSIN */DRAWING NUMBER*
6620868-363-SK-XXXX

REV.

1 2 3 4 5 6 7 8 9 10 11 12 A1