

4810-93 Street, Edmonton, Alberta T6E 5M4 Phone: (780) 469-2401 Fax: (780) 468-2422

Client	Tervita Corpo	oration	Client Tan	k No.	Feed Tank #900			
Province/LSD	AB 02-18	-052-11W5	Inspection	Date	Jun 4, 2012			
Location	Granada		Inspection	туре	VI / VE / UT / MFL			
Service					Interim Ins	sp'n		
Manufacturer	Argo Sales L	td.	Interim Ty	Interim Type				
Serial Number	8315		Next Inspe	ection	2017			
Туре			Next Type		VI/VE/UT/ MFL			
Foundation	Raised grave	el pad	Ext.Cathodic		No			
Ext. Coating	White coating	Anodes		No				
Int. Lining	Devoe 253		Status					
Insulation	None		Volume		1000 bbl			
Manway	2'x3' rectang	ular manway	Diameter		17.3 ft			
Vapour Rec.	None		Height		24 ft			
MAWP			Year Built		2004			
MAWV			RAE Job #	#	2878			
Max. Temp		D55		No				
Min. Temp								
Fill Height								
Secondary Cor	ntainment R	ectangular - Co	ncrete Height	1.5 ft V	Vidth 55 ft	Ler	ngth 250 ft	
History Log					-		,	
Component Shell course 1		Material	Material		Mat. Thick. 0.188 in		Corr. Allow.	
Component	Shell course 2	Material		Mat. Thick.	0.188 in	Corr.	Allow.	
Component S	Shell course 3	Material		Mat. Thick.	0.188 in	Corr.	Allow.	

Date Printed: Jul 31, 2012



4810-93 Street, Edmonton, Alberta T6E 5M4 Phone: (780) 469-2401 Fax: (780) 468-2422

Component	Shell course 4	Material		Mat. Thick.	0.188 in	Corr. Allow.	
Component	Floor	Material		Mat. Thick.	0.25 in	Corr. Allow.	
			•				
Component	Deck	Material		Mat. Thick.	0.25 in	Corr. Allow.	

Comments

The inspection was performed using the RAE Tank Inspection procedure 604B rev. 8

This was one of nine tanks on the Granada site. All tanks were sharing the same secondary containment. This tank was labeled as "Feed Tank #900" and was located in the NE section of the containment.





Containment

The secondary containment was composed of concrete walls. The containment was shared between nine tanks of various sizes.

Piping Observations

Some of the piping was insulated and metal cladded.

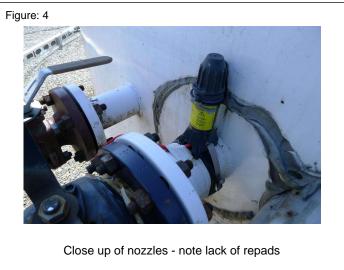
The nozzles in this tank were not reinforced. According to API 650/653, all nozzles greater than NPS 2 in size must be equipped with repads.

The piping connections to the tank were equipped with bellows.

Date Printed: Jul 31, 2012 Report No: SO000252 Page 2

4810-93 Street, Edmonton, Alberta T6E 5M4 Phone: (780) 469-2401 Fax: (780) 468-2422



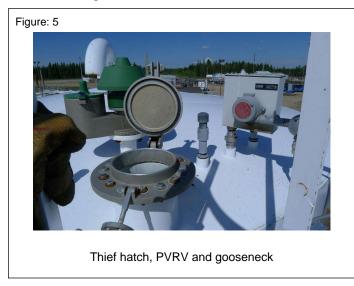


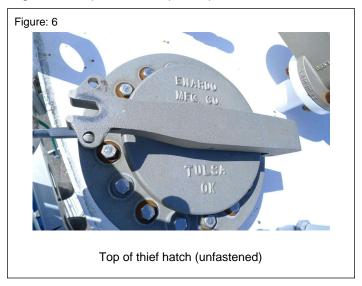
Pressure Protection Observations

The thief hatch on the roof was not designed for pressure relief.

A pressure and vacuum relief valve was installed on the roof beside the thief hatch.

There was a gooseneck nozzle in the centre of the roof, making the tank open to atmospheric pressure.





Date Printed: Jul 31, 2012 Source: Field Reporting

4810-93 Street, Edmonton, Alberta T6E 5M4 Phone: (780) 469-2401 Fax: (780) 468-2422

External Observations

The tank was un-insulated and was coated white. The external coating was mostly in good condition. A few large scrapes in the coating were found on the first and second course on the NW side of the shell.

There was a small dent in the lower shell on the NW side of the tank.

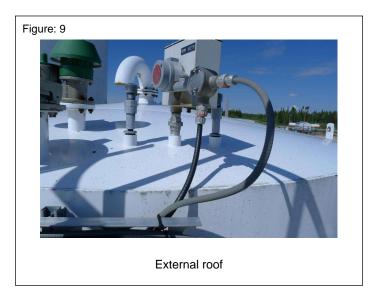
The tank was sitting on a raised gravel pad. The gravel pad was contained by a metal ring. Some vegetation was found growing in the gravel around the tank. The outer lip of the tank floor was covered by gravel. Leak detection tubes were in place beneath the tank floor.

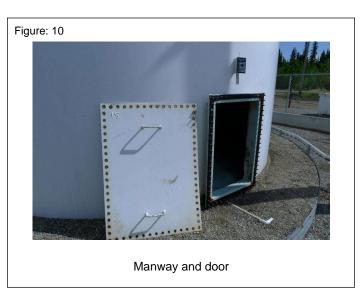
The level gauge was in good condition.

The ladder was in good condition.



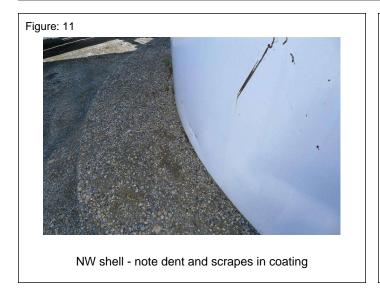






Date Printed: Jul 31, 2012 Report No: SO000252 Page 4

4810-93 Street, Edmonton, Alberta T6E 5M4 Phone: (780) 469-2401 Fax: (780) 468-2422



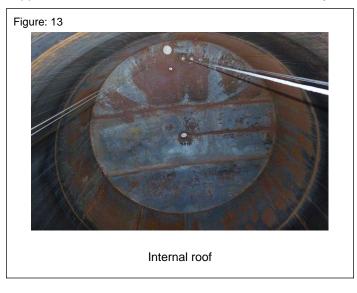


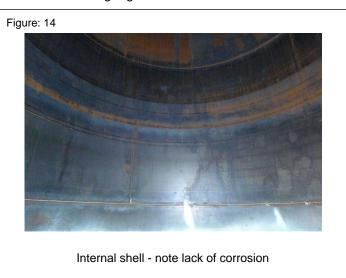
Internal Observations

The floor and the bottom ~4' of the shell was coated with light blue epoxy. The coating was mostly in good condition. A few isolated blisters and patches of blisters were found on the floor and shell. The coating had been patched with black coating in a few places. The coating patches were in good condition.

Very little corrosion was visible on the uncoated surfaces of the tank.

There were two level floats installed in the tank. On float was black and the other was bare metal. The black float appeared to be the active level float as it was the only one attached to a level gauge board on the outside of the tank.





Date Printed: Jul 31, 2012 Report No: SO000252 Page 5

4810-93 Street, Edmonton, Alberta T6E 5M4 Phone: (780) 469-2401 Fax: (780) 468-2422

Figure: 15

Internal shell/floor - note coating and coating patches

Figure: 16

Internal shell/floor - note level floats

NDE

Ultrasonic Testing: (all measurements in inches)

Floor

Front plate: 0.241, 0.248, 0.251, 0.247, 0.249 Middle plate: 0.250, 0.250, 0.250, 0.249, 0.250 Back plate: 0.247, 0.248, 0.249, 0.248, 0.248 (plate location in relation to manway)

Shell

First course: 0.186, 0.187, 0.187, 0.187, 0.187 Second course: 0.189, 0.188, 0.188, 0.189, 0.188

Floor Scan

As the tank was sitting directly on gravel, a magnetic flux leakage (MFL) floor scan was performed to check for bottom-side corrosion. No indications were found.

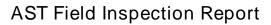
Recommendations

1. Clear gravel off of the outer floor lip (chime area)

2. Remove inactive level float

3. Clear vegetation away from tank

Date Printed: Jul 31, 2012 Report No: SO000252 Page 6



4810-93 Street, Edmonton, Alberta T6E 5M4 Phone: (780) 469-2401 Fax: (780) 468-2422

Tank: RAET28487

Inspector: Brent Drader

Reviewed By: Brent Drader

Date Printed: Jul 31, 2012 Source: Field Reporting