

# PRESSURE VESSEL & COLUMN INSPECTION REPORT

**LSD:** 06-25-046-03W4      **Date:** 2015-01-20      **SAP Equipment ID** 62045563

VESSEL STATIC DATA										
<b>Plant:</b> Rivercourse				<b>OP Unit:</b>			<b>System:</b>			
<b>Prov. Insp . #:</b> 0545993		<b>NB#:</b> N/S		<b>CRN:</b> A4060.32			<b>Equip Tag#:</b> 62045563			
<b>Equipment Description:</b> SCRUBBER							<b>Serial #:</b> 0196404			
<b>Manufacturer:</b> WATERFLOOD							<b>Vessel Class:</b> vessel			
<b>Internal Access:</b> No				<b>Description:</b>			<b>Year Built:</b> 2001			
<b>MAWP:</b> 1793 kpa				<b>At Temp</b> 93 C			<b>MDMT:</b> -29 C			
<b>Code:</b> N/S				<b>RT:</b> None			<b>PWHT:</b> No			
<b>Diameter:</b> 406 mm		<b>Length:</b> 1168 mm		<b>(T/T):</b> mm		<b>OAL:</b> mm		<b>Orientation:</b> Vertical		
<b>SHELL</b>		<b>Mat'l:</b> Unknown SA 106B		<b>Thickness:</b> 0.00 9.53 mm			<b>Corr Allowance:</b> 0.00 1.6 mm			
<b>HEAD</b>		<b>Mat'l:</b> Unknown SA 516-70		<b>Thickness:</b> 0.00 8.3 mm			<b>Corr Allowance:</b> 0.00 1.6 mm			
<b>Nozzle</b>		<b>Mat'l:</b>		<b>Thickness:</b>			<b>Corr Allowance:</b>			
<b>Internal Coating:</b> No				<b>Internal Clad:</b>			<b>Capacity:</b> m3			
<b>Manway:</b> No				<b>Inspection Port:</b> Yes			<b>Skirt</b> X <b>Legs</b> <b>Saddle</b>			
<b>Nozzle Rating:</b> 150 lb ANSI				<b>Painted:</b> Yes			<b>Insulated:</b> No			
PROCESS DATA										
<b>Production Description:</b>				<b>Sweet</b> <b>Sour:</b>						
<b>Operating Pressure</b> kpa				<b>Operating Temp:</b> C			<b>Status:</b> Shut-In			
PSV STATIC DATA										
Tag #	Serial No.	Location	Size(mm)		Set Press (kPa)	Capacity Imperial (SCFM)	Manufacturer	Model	Last Service	Service Company
			Inlet	Outlet						
3238	83353-7	Head	50.80	50.80	345	474	Taylor Valve	T-8200-2	2010/06/07	GUEST
PSV DETAILS										
	Type(Thread/Flange)		ANSI Rating		Size(In/mm)					
<b>PRD Inlet</b>	Threaded		N/A		50.80					
<b>PRD Outlet</b>	Threaded		N/A		50.80					
NDE Equipment Records										
Procedure #	Description	Manufacturer	Model#	Serial#	Due Date					
**** See Associated NDE Report										

## INSPECTION SUMMARY

VESSEL IS FIT FOR SERVICE.

## RECOMMENDATIONS

RECOMMEND TO SERVICE PSV BEFORE PUTTING VESSEL BACK INTO SERVICE.

## NONCONFORMANCES/INSPECTION DEFICIENCIES

PSV SERVICE IS PAST DUE.

Service PSV prior to re-commissioning the vessel.



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### INSPECTION PLANNING

Inspection Strategy		Availability		Inspection Interval	5 year
Inspection Date	2015/01/20	Date of Last Inspect		Date of Next Insp	2020

### REPORT CERTIFICATION

The SignatureS below certify that inspections/tests have been completed in accordance with the identified inspection strategy and that the specified equipment is considered fit for service until the date of next inspection.

Inspected by	Justin Orichowski		Cert #	758	Date	2015/01/20
Reviewed and Approved by					Date	
Criticality Assessment Rerun		Inspection Planning Rerun				
Assessed Next Inspection Date	2020					

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## DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	Accept		No	GOOD CONDITION.
V2	General Corrosion	Accept		No	NO CORROSION OBSERVED.
V3	General Leaks	N/A		No	NOT IN SERVICE.
V4	Vibration	N/A		No	NOT IN SERVICE.
V5	Dissimilar Flange Rating	Accept		No	
V6	Ladder/Stairway	N/A		No	
V7	Heads	Accept		No	GOOD CONDITION.
V8	Guy Wires	N/A		No	
V9	Electrical Ground	N/A		No	
V10	Painted Inactive Corrosion	N/A		No	
V11	Coating/Painting	Accept		No	PAINT IN GOOD CONDITION.
V12	Expansion Joint or Bellows	N/A		No	
V13	Gauge/Site Glass	Accept		No	GOOD CONDITION.
V14	Shell	Accept		No	GOOD CONDITION.
V15	Jacket	N/A		No	
V21	Support Other (Please explain)	Accept		No	PIPING IS WELL SUPPORTED.
V22	Foundation	Accept		No	
V23	Anchor Bolts	N/A		No	WELDED TO FOUNDATION.
V24	Saddle/Skirt	Accept		No	SKIRT IN GOOD CONDITION.
V25	Davit	N/A		No	
V26	Fireproofing	N/A		No	
V31	Connections Other (Please explain)	Accept		No	PIPING CONNECTIONS IN GOOD CONDITION.
V32	Small Branches	Accept		No	
V33	Nozzles	Accept		No	GOOD CONDITION.
V34	Manways	N/A		No	
V35	Reinforcing Pads	N/A		No	
V36	Inadequate Thread Engagement	Accept		No	ADEQUATE THREAD ENGAGEMENT OBSERVED.
V37	Bolting	Accept		No	
V38	Flanges	Accept		No	
V39	Leak Clamps	N/A		No	
V41	Insulation Other (Please explain)	N/A		No	
V42	Damage	N/A		No	
V43	Penetrations	N/A		No	
V44	Insulation Jacket	N/A		No	
V45	Banding	N/A		No	
V46	Seals/Joints	N/A		No	
V51	Relief Devices Other (Please explain)	Concern		No	SERVICED 06/2010 - PSV SERVICE IS PAST DUE.
V52	Corrosion	Accept		No	
V53	Leaks	N/A		No	
V54	Restricted Inlet/Outlet	Accept		No	

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V55	Manual Operation Lever	N/A		No	
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## DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments

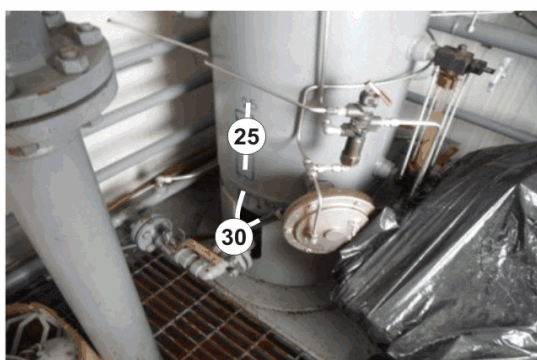
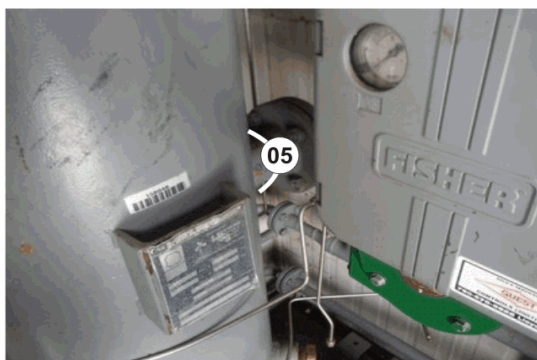
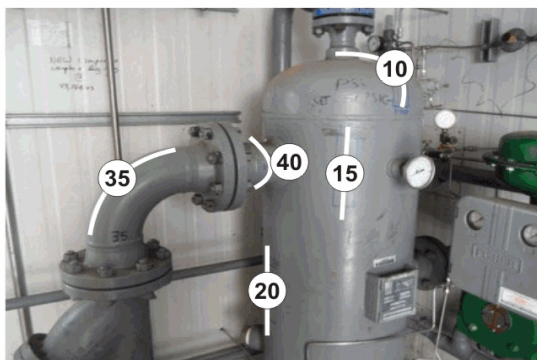
## DETAILED INSPECTION UT THICKNESS

CML	Nom. Thickness (mm)	CURRENT READINGS (mm)	short term corr rate (mm/y)	long term corr rate (mm/y)	remaining life (year)	Survey Date	Comments
10 (SHELL) 9.53 mm	0.00	8.38	0.0000	0.0000	198.0	2015/01/20	NO COMMENTS within C/A
15 (SHELL) 9.53 mm	0.00	8.92	0.0000	0.0000	198.0	2015/01/20	NO COMMENTS within C/A
20 (SHELL) 9.53 mm	0.00	9.30	0.0000	0.0000	198.0	2015/01/20	NO COMMENTS within C/A
25 (SHELL) 9.53 mm	0.00	9.17	0.0000	0.0000	198.0	2015/01/20	NO COMMENTS within C/A
30 (HEAD) 8.3 mm	0.00	9.32	0.0000	0.0000	198.0	2015/01/20	NO COMMENTS
05 (BAND 3 XS)	7.62	7.14	0.0341	0.0341	192.6	2015/01/20	NO COMMENTS
35 (90L 4 40)	6.02	5.61	0.0287	0.0287	169.8	2015/01/20	NO COMMENTS
40 (BAND 4 XS)	8.56	7.87	0.0484	0.0484	147.3	2015/01/20	NO COMMENTS

Inspected By	Signature	CGSB Level	CGSB No.	Survey Date	UT Equip	Due Date OF Calibration	NDE Procedure No.
Justin Orichowski		1	16325	01/20/2015	104_91638503_EPOCH4	06/17/2015	WQS UT-001

## EXAMINATION ILLUSTRATION

<b>DISTRICT:</b>	AB- SOUTH	<b>FACILITY:</b>	RIVERCOURSE	<b>LOCATION/LSD:</b>	06-25-046-03W4
<b>EQUIP NAME:</b>	SCRUBBER			<b>PROV REG No.:</b>	A#0545993
<b>SERIAL No.:</b>	0196404	<b>Equip No.:</b>	62045563	<b>National Board No.:</b>	



NOTES:

## PHOTOGRAPHS

<b>EQUIP NAME:</b>	SCRUBBER	<b>PROV REG No.:</b>	A#0545993
<b>SERIAL No.:</b>	0196404	<b>Equip No.:</b>	62045563
		<b>National Board No.:</b>	



NAMEPLATE



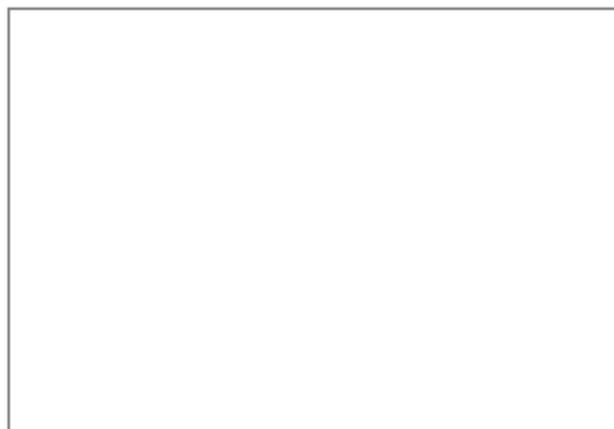
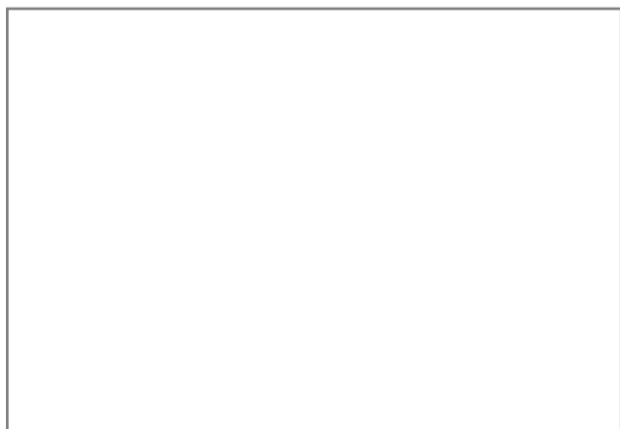
OVERALL



PSV



PSV TAG



NOTES: