pump & abrasion® TECHNOLOGIES

CURVE™ Slurry Pumps

Pump and Abrasion Technologies® (Pty) Ltd.
South Africa
Reg. No.: 2013/114441/07 (est. 2004)
592 Barolong Street, Unit 1, Icon Industrial Park
Sunderland Ridge, Centurion, South Africa
PO Box 54693, Wierda Park, 0149
Centurion, South Africa
Tel: +27 (0)12 666 0904/5 | **Email:** sales@pumpab.co.za

Pump and Abrasion Technologies® (Pty) Ltd. Australia
ABN: 62 617 704 435
10 Remisko Drive, Forrestdale, WA, 6112
Perth, Western Australia
Tel: +61 (08) 9707 2682 | **Email:** info@pumpab.com.au

Pump and Abrasion Technologies® Ltd. Canada
BN: 737 871 483
2054 Kingsway Blvd, Sudbury Ontario, Canada, P3B 4J8
Tel: +1 705 222 1753 | **Email:** salescanada@pabtglobal.com

Pump and Abrasion Technologies® USA, LLC
Phoenix | Arizona
Tel: +1 480 665 7384 | **Email:** brian@pabtglobal.com

pumpandabrasiontechnologies

@PumpandAbrasion

PABTglobal.com

CURVE™ Slurry Pumps

Approved by:_____

Date:_____

Platinum Client-FAR058-01_2020-Rev_01

PLATINUM CLIENT

FAR058

pump & abrasion® TECHNOLOGIES

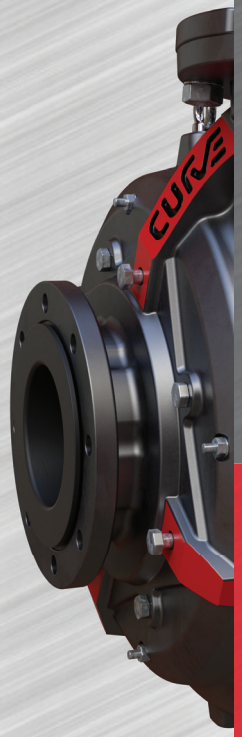
INTRODUCTION

A platinum client contacted Pump & Abrasion Technologies® to assist with a more reliable system for the Recleaner application. A complete pump audit was performed.

The lifespan on the parts was a big problem for the plant and they needed something that would reduce their downtime due to maintenance.

APPLICATION DETAILS

		PREVIOUS PUMP	SUCCESSFUL CURVE PUMP
PUMP MODEL		4/3 D	S150
TYPE	IMPELLER MATERIAL	METAL	METAL
	SUCTION LINER MATERIAL	RUBBER	POLY
	DRIVE LINER MATERIAL	RUBBER	POLY
	VOLUTE/CASING MATERIAL	RUBBER	POLY
WEEKS	IMPELLER LIFE	4 WEEKS	20 WEEKS
	SUCTION LINER LIFE	4 WEEKS	20 WEEKS
	DRIVE LINER LIFE	4 WEEKS	14 WEEKS
	VOLUTE/CASING LIFE	4 WEEKS	20 WEEKS
FLOW ACHIEVED		48 ℓ/s	48 ℓ/s
HEAD		15 m	15 m
SG		1.3	1.3
DRY TPH		68.8	
RUNNING SPEED		1750 RPM	864 RPM



OBJECTIVES

The main objective was to **improve wear life** therefore **reducing downtime** due to maintenance. The cancelation of gland service water was also a necessity.

INSPECTION PHOTOS

Images above show the Impeller after 12 weeks of running.

SAVINGS

	ANUAL POWER SAVING	TIME TO REPAIR	TIME BETWEEN MAINTENANCE	TOC
PREVIOUS PUMP	R 194,468.04	4 HOURS	4 WEEKS	R 357,419.00
SUCCESSFUL PUMP	R 172,060.20	2 HOURS	14 WEEKS	R 246,243.78
ACTUAL SAVING	R 22,407.80	2 HOURS	10 WEEKS	R 111,175.22
SAVINGS %	**11.52%**	**50%**	**66%**	**24.2%**

R 133,583.06 Total saving per year.

The pump is more expensive because it is a larger pump than the previous. But there is a massive saving due to less downtime for maintenance and a huge power saving aswell.