



SYLVAN SOURCE CONFIDENTIAL

DATE: November 19, 2013

SUBJECT: FGD Water Test Results Summary

This is a summary of test results performed on a flue gas desulfurization (FGD) water sample provided from a coal-fired power plant facility. The test was run using the Sylvan Source Industrial System Pilot Unit located in San Carlos, CA.

FGD water sample test results

PARAMETER	FGD FEEDWATER	SSI PRODUCT WATER
pH	7.1	5.6
Alkalinity as CaCO3	79.7 ppm	20 ppm
TDS	13200 ppm	33 ppm
Cl-	7442 ppm	ND
NO2-	<2.5ppm	ND
NO3-	29.7 ppm	ND
PO4 3-	<25 ppm	1.2 ppm
SO4 2-	2971 ppm	ND
Li+	< 0.5 ppm	ND
Silica as SiO2	30 ppm	ND
Arsenic, total	< 2 ppb	ND
Boron	93.1 ppm	0.15 ppm
Cadmium, total	51 ppb	ND
Calcium	3979 ppm	ND
Chromium, total	30 ppb	4 ppb
Lithium	0.5 ppb	ND
Magnesium	675 ppm	ND
Mercury	15 ppb	0.086 ppb
Potassium	12.3 ppm	0.2 ppm
Selenium, total	1221 ppb	ND
Vanadium, total	< 20 ppb	1 ppb

Notes:

1. Feedwater sample provided by coal-fired power plant facility.
2. The Sylvan Source Product Water is the output of the Sylvan Source Industrial System Pilot Unit consisting of proprietary pretreatment and core system technologies.