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This document was created in response to a Freedom of Information request made to CSIRO.

FOI Number: FOI2011/32

Date: 9 December 2011

Request: Any data pertaining to the presence of arsenic within the residue drying areas

(RDAs) at Alcoa's WA refineries

Document: Sample analysis spreadsheet

For more information, please refer to CSIRO's FOI disclosure log at www.csiro.au/FOILog

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	A Sample	Na S	Cu :Zn	0 E	Cr.	F Ga	G :Sr	H I	-As	Th.	K L		1	N
2	UNITS		ppm ppm	ррт	'ppm	ррт	ppm	ppm	ppm	ppm	.ppm	.ppm	*** ** ***	
4	UT3	3.56	15	10:	600	300:	115	157:	30	20	311	40:	25	
5														
3														
10														
13														
14 15														
16	UT12	3.58	20:	15:	600	250:	114:	155	30:	201	318	30	24.5-	
18														
20 21														
22														
24														
25														
28														
30	UT24	3.68	20:	10:	600	300	106:	154	301	20;	307	30:	24.5:	
	UT24 Rpt	3.7		10(IS	is	auu	108:	160-IS	30	20 IS	15	is		
34														
36														
38														
39 40														
41														
43		***************												
46	UT35	3.61	20 1	15:	600	250:	111:	1601	30	20:	323	30	24.5;	
48														
49 50														
51 52														
53 54	Sample Preparation No sample preparation	was required o	i : on these samples.											·-··
55 56	Analytical Methods													
57 58	The sample(s) have been Hydrofluoric, Nitric, Hyd	Irachioric and	Perchloric Acids.Th	is extended dig	est :			;						
59	approaches a Total dige not completely attacked	st for many ele	ements howeverso	me refractory π	ninerals are	·····							··	
61	Na, Cu, Zn			·····									·····	
	have been determined i	y Inductively	Coupled Plasma (IC	P) Optical Emis	sion									
65	Ga, Sr, As	••••••											•••••••	
67 68	have been determined	y Inductively	Coupled Plasma (IC	P) Mass Spectro	ometry.					-		······································	· -	
69	The samples have been	fused with Sa	rium Parovida and	subsequently !!	he melt has							-		
71	been dissolved in dilute furnace temperatures,	Hydrochloric	acid for analysis. B	ecause of the hi	igh ;							······································	······································	
73	efficient for determinat	ion of Major e	lement compositio	n (Including Silic										·
74 75	the samples or for the o	etermination	or retactory minera	a species.		·		<u>k</u>		<u>-</u>			••••••	
76 77	V, Cr, Sc have been determined	: by Inductively	i Coupled Plasma (K	P) Optical Emis	sion	- :		·····					 ; -	
79	Spectrometry.		<u> </u>					· · · · · · · · · · · · · · · · · · ·						
	Th, 9b, U have been determined	by Inductively	Coupled Plasma (K	P) Mass Specto	ametry.		1	-						
82			<u> </u>	*****							:			