Shad Montgomery

From: Harrold Gurley [harroldgurley@yahoo.com]
Sent: Thursday, January 19, 2012 1:12 PM
To: Shad Montgomery
Subject: Re: Dust

Follow Up Flag: Follow up
Flag Status: Flagged

Shad,

The weight of the cassette was 511.965mg. If you are using MSHA pre-weight to calculate dust concentration add 0.28mg, that is the difference between our balance and MSHAs on a consistent basis = 512.245mg.
Will work on the quartz analysis, that may take a while but will get it to you asap.

Harrold Gurley
Researcher
Dept. of Mining and Minerals Resources Eng.
Southern Illinois University
1230 Lincoln Drive
Carbondale, IL 62901-6603
Office: Engineering room A307c
Tel. 618-453-4094
harroldgurley@yahoo.com

From: Shad Montgomery <SMontgomery@SunriseCoal.com>
To: Harrold Gurley <harroldgurley@yahoo.com>
Sent: Thursday, January 19, 2012 10:23 AM
Subject: RE: Dust

Would like to know the weight, and % of coal dust and quartz, if possible. Thanks a bunch!

From: Harrold Gurley [mailto:harroldgurley@yahoo.com]
Sent: Thursday, January 19, 2012 10:47 AM
To: Shad Montgomery
Subject: Dust

Shad,

I got your dust samples, will weigh and send results. Will analyze the dust, are you looking for something specific or just want to know what is in it?

thanks,

Harrold Gurley
Researcher
Dept. of Mining and Minerals Resources Eng.

Shad Montgomery

Shad,

Quartz content of the sample you sent is 11.1%. Should have the particle size distribution soon.

thanks,

Harrold Gurley
Researcher
Dept. of Mining and Minerals Resources Eng.
Southern Illinois University
1230 Lincoln Drive
Carbondale, IL 62901-6603
Office: Engineering room A307c
Tel: 618-453-4094
harroldgurley@yahoo.com

Pup.
Max quartz limit for 8 hrs is 5%. I'll get the rest to you as they get it done

Shad

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071212-SIU SRC-PSD

SOP Name: **HAROLD'S**

Microtrac Inc. A Div. of Nikkiso Co., Ltd.

10.5.2

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07/12/2012 15:55

DB Rec: 1399

Bluewave

S4702

Distribution:	Volume	Run Time:	30 Sec	Fluid:	CURRENT CARRIER		
Progression:	Standard	Run#:	Avg of 3	Fluid Ref Index:	1.333	Loading Factor:	0.1755
Up Edge(um):	2000	Particle:	COAL DIST	Above Residual:	0	Trans. L1:L2:	0.914:0.906
Low Edge(um):	0.0107	Transparency:	Absorbing	Below Residual:	0	RMS Residual:	0.244%
Residuals:	Disabled	Part. Ref. Index:	N/A			Flow:	55 %
#Channels:	70	Particle Shape:	Irregular	Cell ID:	0039	Usonic Power:	40 Watts
Analysis Mode:	BLUEWAVE			Multi Run Delay:	0 Min.	Usonic Time:	120 Sec.
Filter:	Enabled	DB Record:	1399	Recalc Status:	Original	Serial Number:	S4702
Analysis Gain:	0	Database:	C:\Program Files\Microtrac FLEX 10.5.2\Databases\S4702ST.MDB				

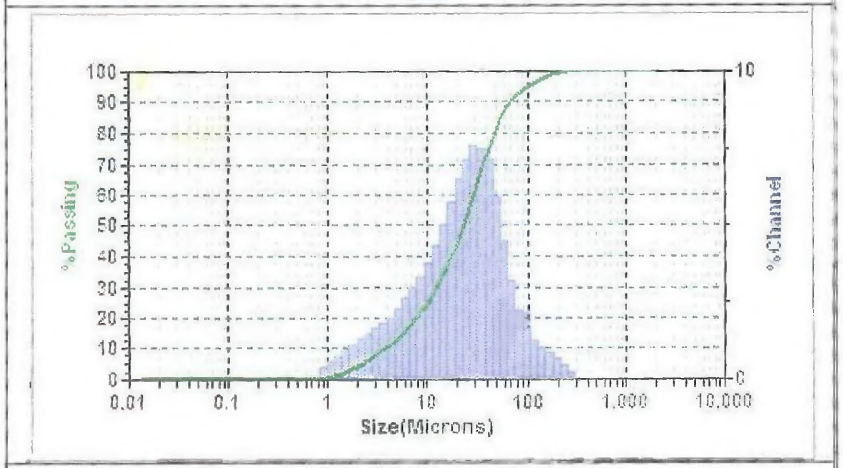
Data	Value
MV(um):	32.41
MN(um):	1.576
MA(um):	9.66
CS:	6.21E 01
SD:	23.17
Mz:	27.13
σ:	26.27
Ski:	0.429
Kg:	1.289

Size(um)	%Tile

%Tile	Size(um)
10.00	3.86
20.00	7.81
30.00	12.44
40.00	17.41
50.00	22.77
60.00	28.84
70.00	36.30
80.00	46.53
90.00	67.32
95.00	99.19

Dia(um)	Vol%	Width
22.77	100.0	46.34

UDefName	UDefData



Size(um)	%Chan	% Pass	Size(um)	%Chan	% Pass
2000	0.00	100.00	5.50	2.26	14.38
1674	0.00	100.00	4.62	2.00	12.12
1408	0.00	100.00	3.89	1.80	10.12
1184	0.00	100.00	3.27	1.63	8.32
995.5	0.00	100.00	2.750	1.48	6.69
837.1	0.00	100.00	2.312	1.33	5.21
703.9	0.00	100.00	1.944	1.15	3.88
591.9	0.00	100.00	1.635	0.97	2.73
497.8	0.00	100.00	1.375	0.77	1.76
418.6	0.00	100.00	1.156	0.58	0.99
352.0	0.00	100.00	0.972	0.41	0.41
296.0	0.22	100.00	0.817	0.00	0.00
248.9	0.48	99.78	0.687	0.00	0.00
209.3	0.66	99.30	0.578	0.00	0.00
176.0	0.85	98.64	0.486	0.00	0.00
148.0	1.05	97.79	0.409	0.00	0.00
124.4	1.28	96.74	0.344	0.00	0.00
104.6	1.63	95.46	0.2890	0.00	0.00
87.99	2.23	93.83	0.2430	0.00	0.00
73.99	3.18	91.60	0.2040	0.00	0.00
62.22	4.51	88.42	0.1720	0.00	0.00
52.32	5.97	83.91	0.1450	0.00	0.00
44.00	7.12	77.94	0.1220	0.00	0.00
37.00	7.47	70.82	0.1020	0.00	0.00
31.11	7.59	63.36	0.0860	0.00	0.00
26.16	7.14	55.76	0.0720	0.00	0.00
22.00	6.51	48.62	0.0610	0.00	0.00
18.50	5.78	42.11	0.0510	0.00	0.00
15.55	5.01	36.33	0.0430	0.00	0.00
13.08	4.32	31.32	0.0360	0.00	0.00
11.00	3.75	27.00	0.0300	0.00	0.00
9.25	3.32	23.25	0.02550	0.00	0.00
7.78	2.95	19.93	0.02150	0.00	0.00
6.54	2.60	16.98	0.01810	0.00	0.00

Warnings: NONE