

Sulphur Dioxide

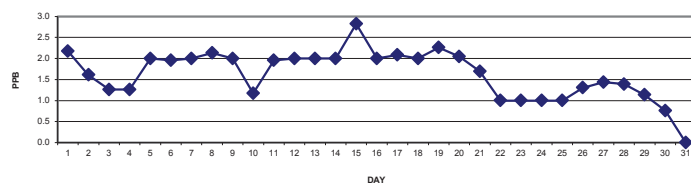
BHP Billiton Diamonds Inc. - EKATI
OCTOBER 2012
SULPHUR DIOXIDE (SO2) hourly averages in ppb

MST																												
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	Daily 24-Hour		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Max	Avg	Rdgs	
Day																												
1	3	2	2	2	2	IZS	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	3	3	2	3	2.2	24	
2	2	2	2	2	2	IZS	2	1	2	2	1	2	2	2	1	1	1	1	2	2	2	1	1	1	2	1.6	24	
3	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	2	2	2	2	2	1	2	1	1	1	2	1.3	24	
4	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	2	2	2	1	2	2	1	2	1	1	2	1.3	24	
5	1	2	2	2	2	IZS	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	3	2.0	24	
6	2	2	2	2	2	IZS	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0	24	
7	2	2	2	2	2	IZS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0	24	
8	2	2	2	3	4	IZS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2.1	24	
9	2	2	2	2	2	IZS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0	24	
10	2	2	2	1	2	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.2	24	
11	2	2	1	2	2	IZS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0	24	
12	2	2	2	2	2	IZS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0	24	
13	2	2	2	2	2	IZS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0	24	
14	2	2	2	2	2	IZS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0	24	
15	2	2	2	3	4	IZS	3	4	3	5	5	5	4	3	2	2	2	2	2	2	2	2	2	2	5	2.8	24	
16	2	2	2	2	2	IZS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0	24	
17	2	2	2	2	4	IZS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2.1	24	
18	2	2	2	2	2	IZS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.0	24	
19	2	2	2	2	3	IZS	2	2	4	2	4	3	2	2	2	2	2	2	2	2	2	2	2	2	4	2.3	24	
20	2	2	2	2	2	IZS	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2.0	24	
21	2	2	4	4	5	IZS	2	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	5	1.7	24	
22	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24	
23	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24	
24	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24	
25	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24	
26	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	1.3	24	
27	2	2	2	2	2	IZS	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	2	2	2	2	1.4	24	
28	2	2	2	2	2	IZS	1	1	1	1	1	1	1	2	2	1	2	2	1	1	1	1	1	1	2	1.4	24	
29	1	1	1	1	1	IZS	1	1	1	1	1	C	0	0	2	0	0	0	0	0	0	0	7	4	7	1.1	24	
30	4	4	1	1	1	IZS	0	0	0	0	0	C	C	1	1	1	1	1	0	0	0	0	0	0	4	0.8	24	
31	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
Hourly Max	4	4	4	4	5	NA	3	4	4	5	5	5	4	3	3	2	3	2	2	2	2	3	7	4				
Hourly Avg	1.7	1.7	1.7	1.7	2.0	NA	1.5	1.5	1.6	1.6	1.6	1.7	1.6	1.6	1.7	1.5	1.6	1.5	1.5	1.5	1.5	1.6	1.8	1.6				

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

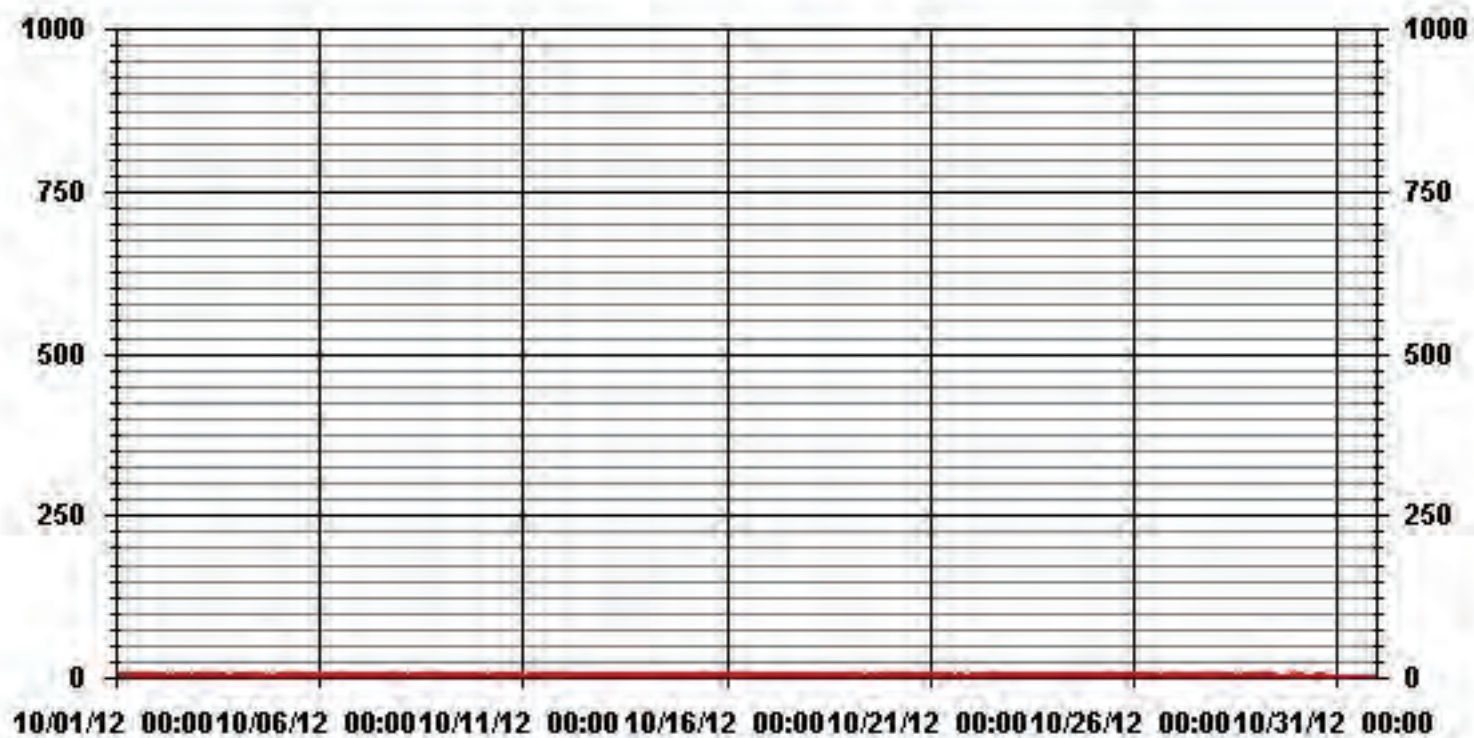
24 HOUR AVERAGES FOR OCTOBER 2012

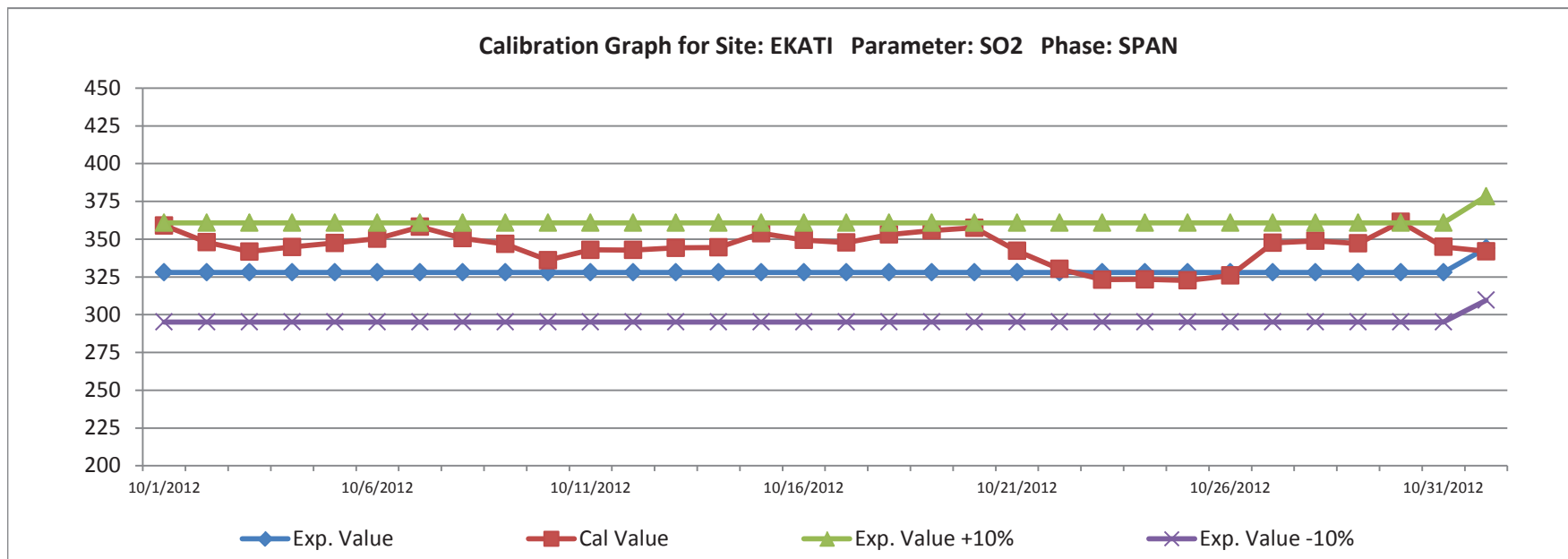


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	668				
MAXIMUM 1-HR AVERAGE:	7	PPB	@ HOUR(S)	22	ON DAY(S) 29
MAXIMUM 24-HR AVERAGE:	2.8	PPB			ON DAY(S) 15
IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	744	HRS
MONTHLY CALIBRATION TIME:	3	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	0.77		MONTHLY AVERAGE:	1.63	PPB

01 Hour Averages





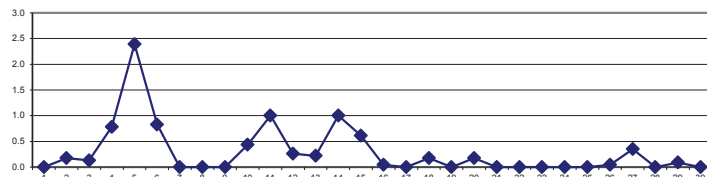
BHP Billiton Diamonds Inc. - EKATI
NOVEMBER 2012
SULPHUR DIOXIDE (SO2) hourly averages in ppb

MST																									DAILY		24-HOUR	RDGS.		
HOUR START	HOUR END	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	MAX.	AVG.	
DAY		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00					
1		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
2		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	2	0.2	24		
3		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.1	24		
4		1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0.8	24		
5		3	2	2	3	5	IZS	4	3	4	3	3	3	2	2	1	1	1	1	1	2	2	1	2	4	5	2.4	24		
6		3	0	1	4	3	IZS	0	0	0	0	0	0	0	0	0	0	0	1	2	1	4	0	0	0	4	0.8	24		
7		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
8		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
9		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
10		0	0	0	0	0	IZS	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	0.4	24		
11		1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24		
12		1	1	0	1	1	IZS	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3	24	
13		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.2	24		
14		1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24		
15		1	1	1	1	1	IZS	1	0	1	1	1	0	0	1	1	1	1	1	0	0	0	0	0	0	1	0.6	24		
16		0	0	0	0	0	IZS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24		
17		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
18		0	0	0	0	0	IZS	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	2	0.2	24		
19		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
20		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4	0.2	24		
21		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
22		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
23		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
24		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
25		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
26		0	0	0	0	0	IZS	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0.0	24		
27		0	0	0	1	0	IZS	0	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0.3	24		
28		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
29		0	0	0	0	0	IZS	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0.1	24		
30		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
HOURLY MAX		3	2	2	4	5	NA	4	3	4	3	3	3	2	2	1	1	4	1	2	2	4	1	2	4					
HOURLY AVG		0.4	0.2	0.2	0.4	0.4	NA	0.3	0.2	0.4	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.3	0.3	0.3					

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

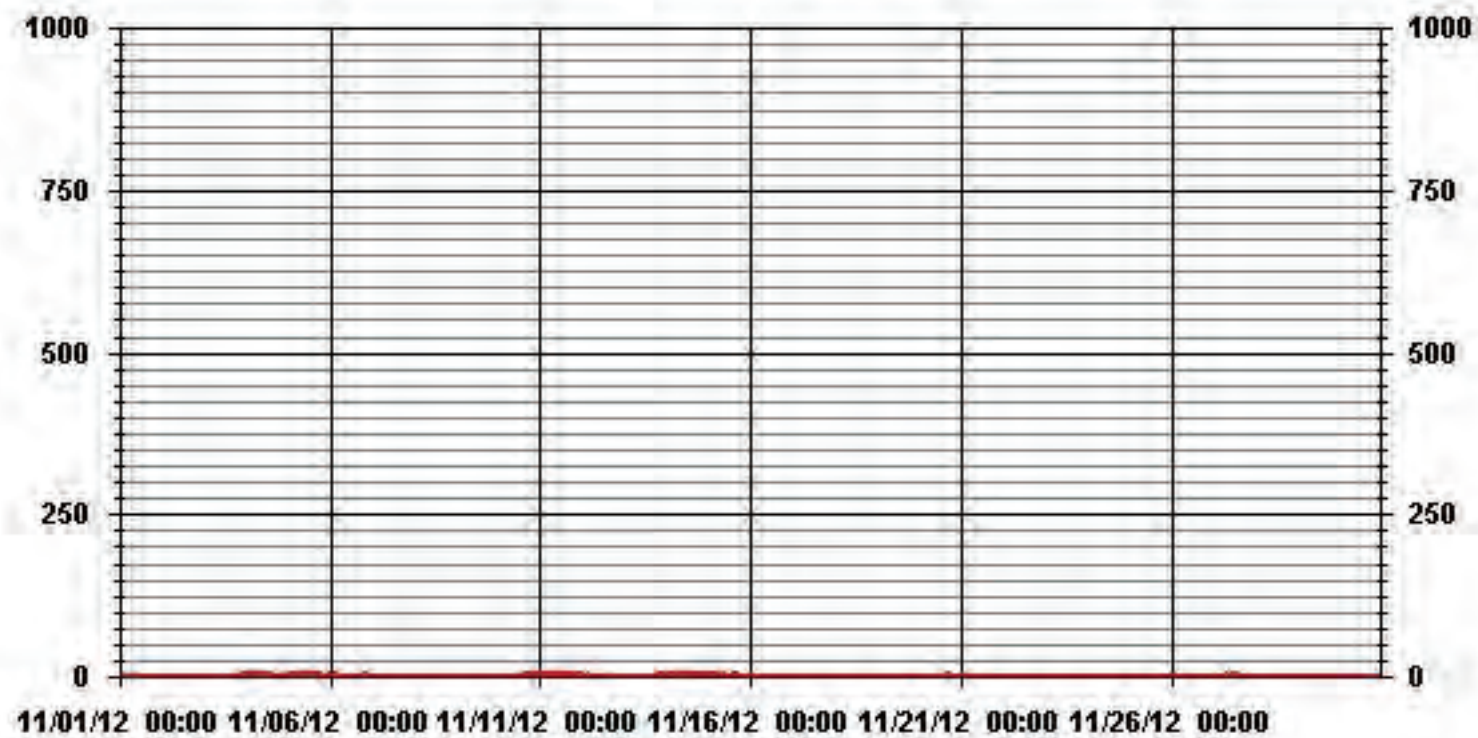
24 HOUR AVERAGES FOR NOVEMBER 2012



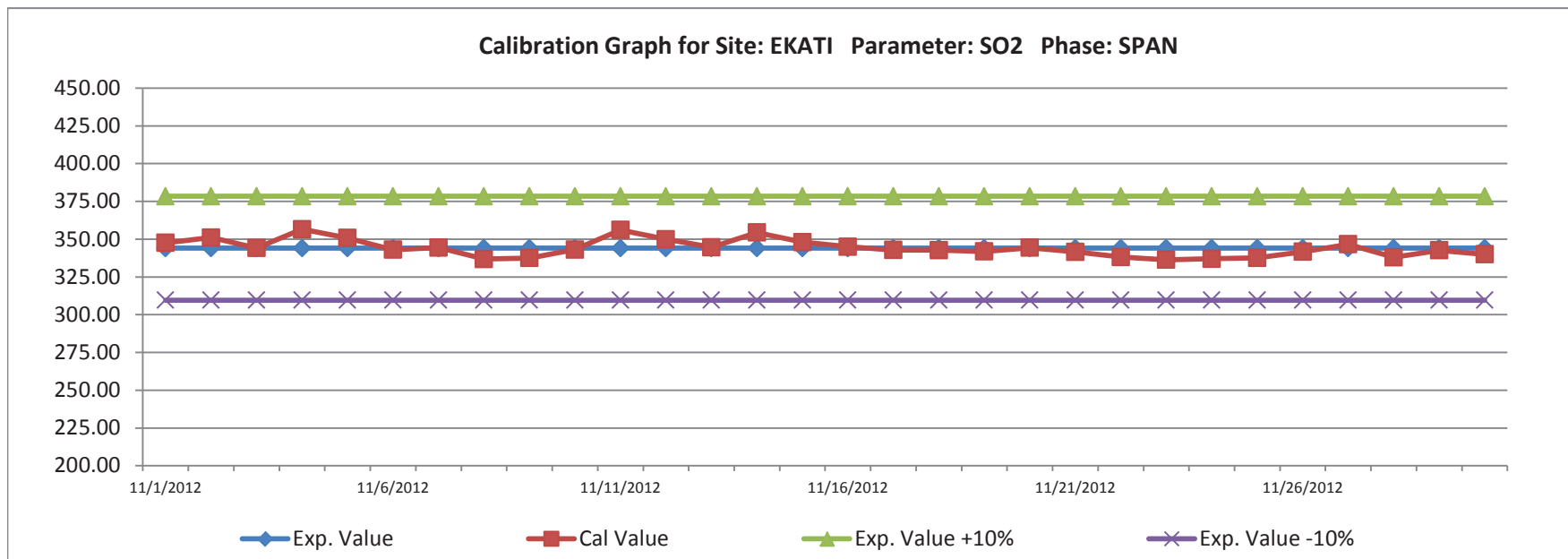
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	152				
MAXIMUM 1-HR AVERAGE:	5	PPB	@ HOUR(S)	4	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	2.4	PPB			ON DAY(S)
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	0.66		MONTHLY AVERAGE:	0.29	PPB

01 Hour Averages



— EKATI SO₂ PPB



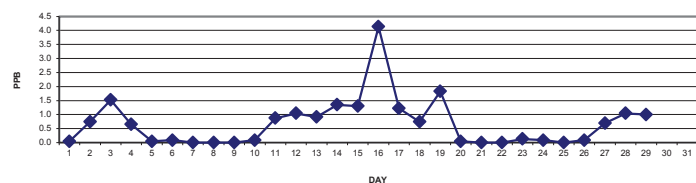
BHP Billiton Diamonds Inc. - EKATI
DECEMBER 2012
SULPHUR DIOXIDE (SO2) hourly averages in ppb

MST		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR START	HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS
DAY																												
1		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.0	24
2		0	0	0	1	2	IZS	2	1	0	2	1	1	0	0	0	0	0	2	3	0	0	0	2	0	3	0.7	24
3		2	2	3	2	2	IZS	5	2	4	2	2	2	0	0	1	2	0	0	2	0	0	1	0	1	5	1.5	24
4		0	0	1	0	0	IZS	0	1	2	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	0.7	24
5		1	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
6		1	0	0	0	0	IZS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24
7		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
8		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
9		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
10		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0.1	24
11		0	0	0	0	0	IZS	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	3	4	4	0.9	24
12		2	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	24
13		1	3	1	1	1	IZS	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	3	0.9	24
14		1	1	1	1	0	IZS	1	0	0	1	1	1	1	3	3	2	2	1	1	2	2	2	2	2	3	1.3	24
15		2	2	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	1.3	24
16		4	5	3	6	7	IZS	2	8	8	6	7	5	3	1	2	3	2	2	3	4	4	4	3	3	8	4.1	24
17		3	1	1	1	1	IZS	1	1	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	3	1.2	24
18		1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0.7	24
19		1	1	1	1	2	IZS	0	1	3	2	4	6	2	3	2	1	1	4	2	1	1	1	1	1	6	1.8	24
20		1	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
21		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
22		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
23		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	2	0.1	24
24		0	0	1	0	0	IZS	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24
25		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
26		0	0	0	0	0	IZS	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24
27		0	0	0	0	0	IZS	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	24
28		1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1.0	24
29		1	1	1	1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1	1.0	4
30		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
31		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
HOURLY MAX		4	5	3	6	7	NA	5	8	8	6	7	6	3	3	3	3	2	4	3	4	4	4	3	4			
HOURLY AVG		0.8	0.7	0.6	0.6	0.7	NA	0.6	0.7	0.9	0.8	0.8	0.8	0.6	0.5	0.6	0.6	0.5	0.6	0.8	0.5	0.6	0.6	0.8	0.7			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

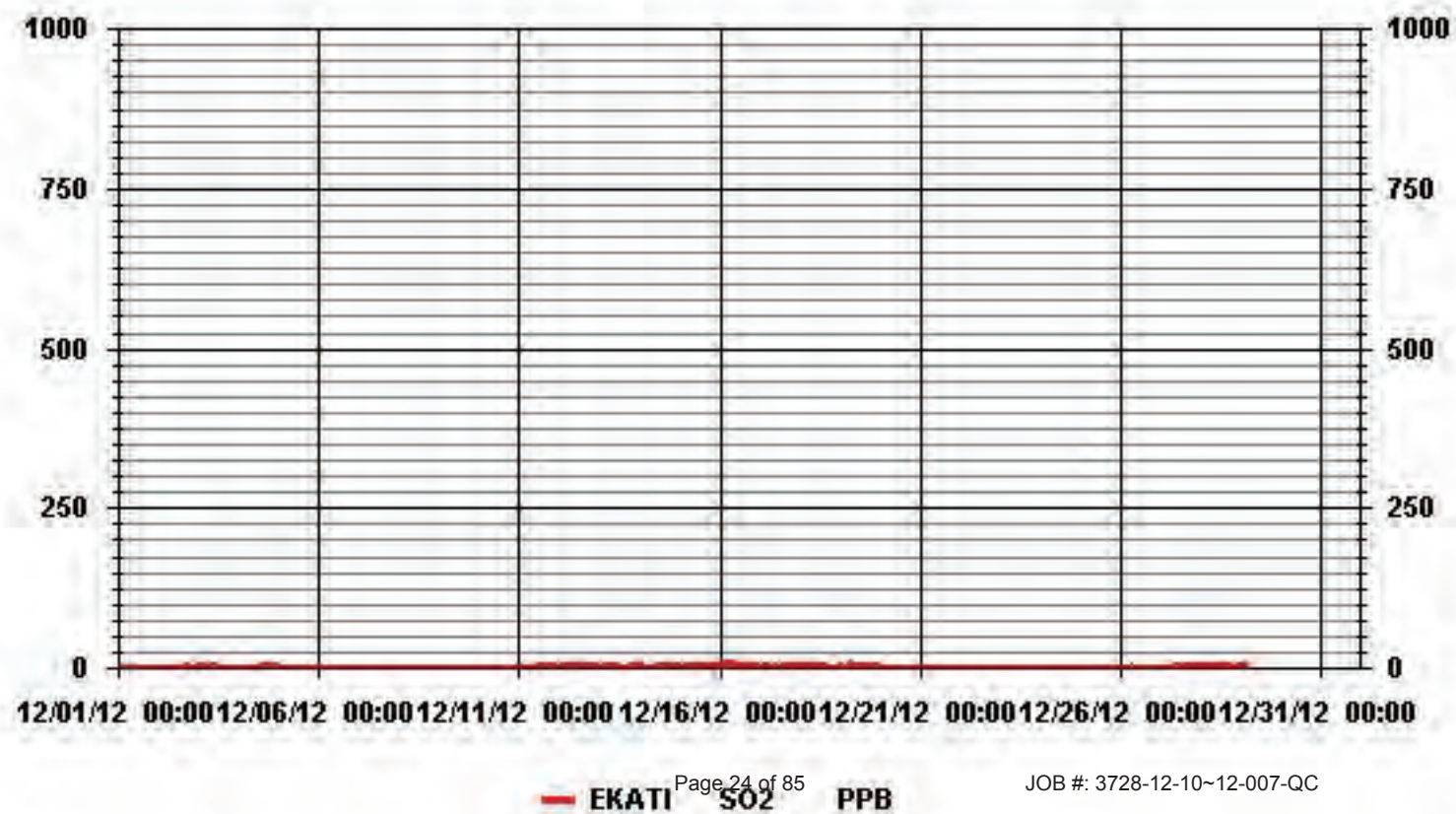
24 HOUR AVERAGES FOR DECEMBER 2012

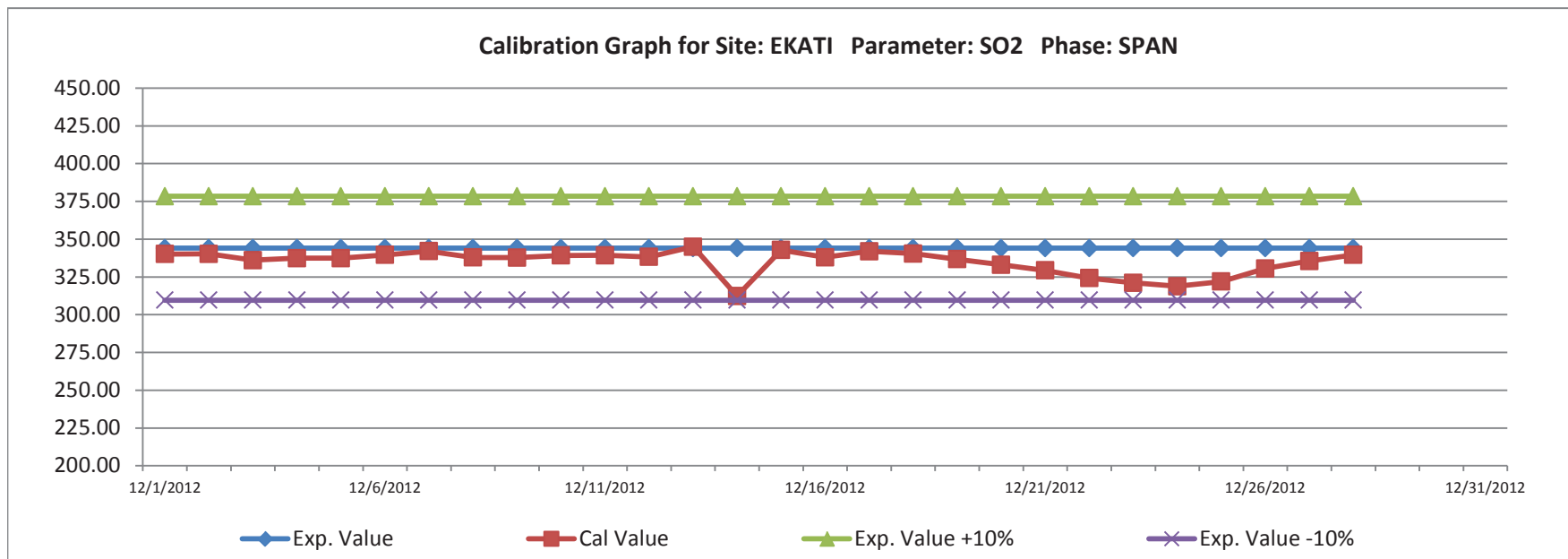


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	281				
MAXIMUM 1-HR AVERAGE:	8	PPB	@ HOUR(S)	7, 8	ON DAY(S) 16
MAXIMUM 24-HR AVERAGE:	4.1	PPB			ON DAY(S) 16
IZS CALIBRATION TIME:	28	HRS	OPERATIONAL TIME:	676	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	90.9	%
STANDARD DEVIATION:	1.09		MONTHLY AVERAGE:	0.67	PPB

01 Hour Averages





Nitrogen Dioxide

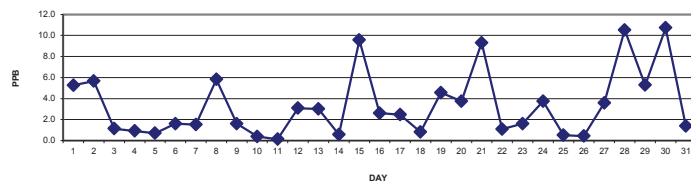
BHP Billiton Diamonds Inc. - EKATI
OCTOBER 2012
NITROGEN DIOXIDE (NO2) hourly averages in ppb

MST																										DAILY 24-HOUR		
HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX	AVG	RDGS	
DAY																												
1	11	2	8	10	1	IZS	1	1	1	0	0	0	0	7	11	10	4	4	5	3	7	16	12	7	16	5.3	24	
2	7	9	11	8	9	IZS	2	2	2	2	1	1	1	2	2	2	4	7	18	21	8	9	1	1	21	5.7	24	
3	1	1	2	2	2	IZS	1	1	4	2	1	1	1	0	0	0	1	0	1	0	0	0	1	4	4	1.1	24	
4	10	1	0	0	0	IZS	1	1	0	1	1	0	0	0	0	0	0	0	2	0	1	1	1	1	10	0.9	24	
5	0	0	0	0	1	IZS	0	1	1	0	1	1	1	1	3	4	1	1	0	0	0	0	0	0	4	0.7	24	
6	0	0	0	0	1	IZS	0	2	6	6	2	1	1	2	2	1	1	1	2	0	1	2	4	2	6	1.6	24	
7	1	3	3	2	2	IZS	4	1	2	6	5	1	1	0	1	0	0	0	0	0	0	0	1	2	6	1.5	24	
8	0	0	4	21	26	IZS	6	4	5	10	10	5	2	4	7	2	0	3	1	0	1	0	19	4	26	5.8	24	
9	7	13	3	3	1	IZS	0	0	1	0	2	1	0	0	2	1	1	2	0	0	0	0	0	0	13	1.6	24	
10	0	0	0	0	0	IZS	0	0	1	0	0	1	1	1	1	0	0	1	3	0	0	0	0	0	3	0.4	24	
11	0	0	0	0	0	IZS	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.1	24	
12	0	0	0	0	0	IZS	0	0	1	0	0	0	1	0	1	2	1	2	2	0	10	26	16	9	26	3.1	24	
13	1	4	7	7	3	IZS	11	5	0	2	3	2	0	1	1	0	1	2	5	0	2	4	4	4	11	3.0	24	
14	2	4	2	2	1	IZS	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.6	24	
15	0	0	1	10	25	IZS	10	26	16	27	24	28	19	9	2	3	3	4	2	1	2	2	3	3	28	9.6	24	
16	2	2	2	2	2	IZS	2	1	3	2	3	3	2	3	3	3	3	2	1	1	4	6	4	4	6	2.6	24	
17	3	4	5	5	26	IZS	0	5	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	2	26	2.5	24	
18	2	2	0	2	3	IZS	1	4	0	0	0	0	0	0	0	0	0	1	0	0	2	2	0	0	4	0.8	24	
19	0	0	2	2	18	IZS	0	0	21	9	19	14	0	0	2	1	0	3	4	2	2	5	1	0	21	4.6	24	
20	0	0	2	1	0	IZS	0	2	2	13	20	8	3	5	5	4	2	1	1	2	4	4	3	4	20	3.7	24	
21	4	13	32	28	33	IZS	17	8	5	7	8	4	3	2	3	11	6	5	4	2	2	3	11	3	33	9.3	24	
22	2	2	2	1	0	IZS	0	2	3	4	2	2	0	0	0	1	1	2	1	0	0	0	0	0	4	1.1	24	
23	1	3	2	2	1	IZS	1	1	5	1	1	2	1	2	2	2	1	2	3	0	0	1	1	2	5	1.6	24	
24	1	3	4	4	10	IZS	1	0	10	16	2	1	0	1	5	3	3	3	2	2	4	6	2	3	16	3.7	24	
25	0	0	0	0	0	IZS	0	0	0	1	0	1	3	4	1	0	0	0	0	0	0	0	1	1	4	0.5	24	
26	0	1	0	0	0	IZS	0	0	0	1	2	1	0	0	0	1	1	3	0	0	0	0	0	0	3	0.4	24	
27	0	0	0	0	0	IZS	0	0	0	2	1	0	0	1	6	3	7	0	0	0	1	13	18	30	30	3.6	24	
28	29	33	30	28	24	IZS	9	6	7	8	7	2	1	3	9	5	11	18	5	1	2	2	2	0	33	10.5	24	
29	1	1	0	0	0	IZS	0	0	0	0	0	C	0	0	0	0	0	1	0	0	3	21	51	38	51	5.3	24	
30	38	31	16	11	12	IZS	9	6	15	14	0	C	C	C	C	C	7	12	4	2	9	5	2	0	38	10.7	24	
31	0	0	0	0	0	IZS	0	2	0	0	0	0	1	1	0	1	0	0	2	6	1	6	8	4	8	1.4	24	
HOURLY MAX	38	33	32	28	33	NA	17	26	21	27	24	28	19	9	11	11	11	18	18	21	10	26	51	38				
HOURLY AVG	4.0	4.3	4.5	4.9	6.5	NA	2.5	2.6	3.6	4.4	3.8	2.8	1.4	1.6	2.3	2.0	1.9	2.6	2.2	1.4	2.2	4.4	5.5	4.1				

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

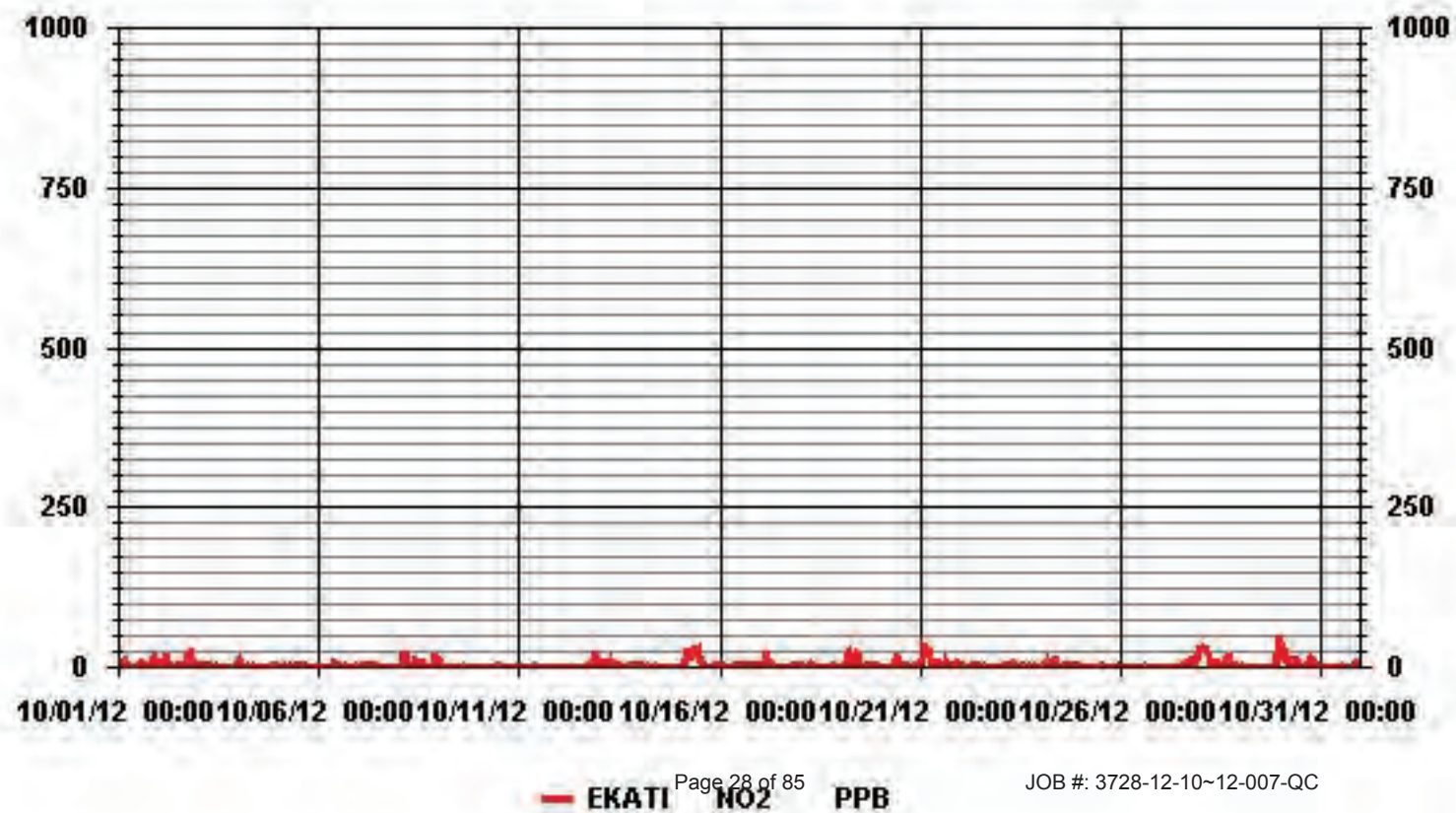
24 HOUR AVERAGES FOR OCTOBER 2012

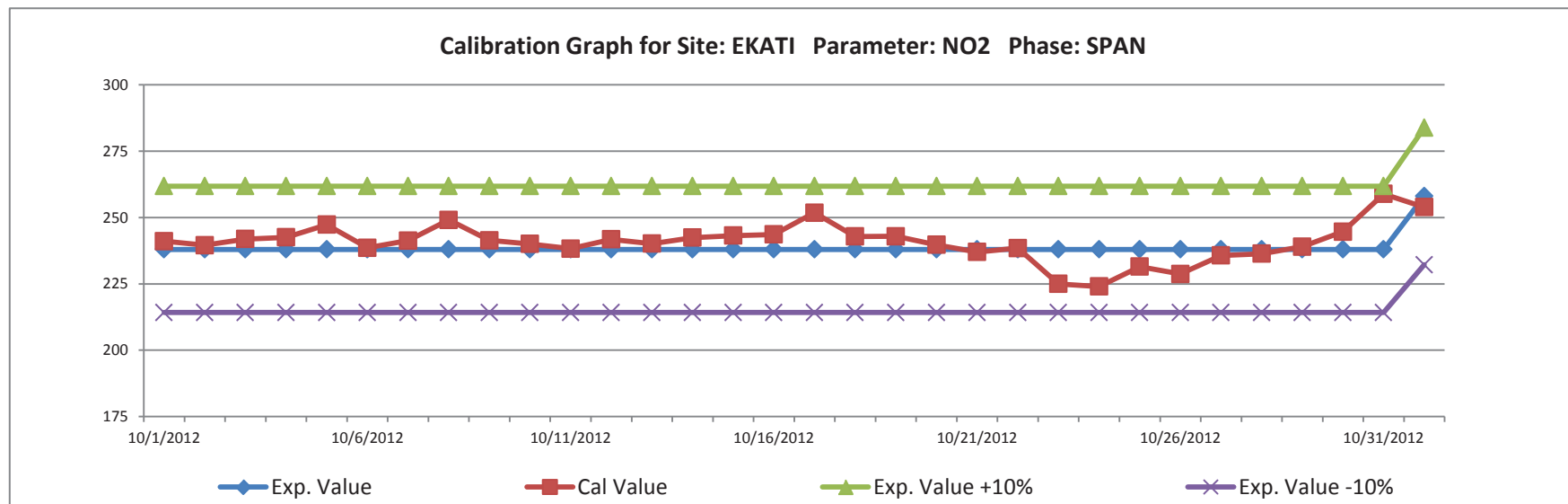


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	444				
MAXIMUM 1-HR AVERAGE:	51	PPB	@ HOUR(S)	22	ON DAY(S) 29
MAXIMUM 24-HR AVERAGE:	10.7	PPB			ON DAY(S) 28
IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	744	HRS
MONTHLY CALIBRATION TIME:	6	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	6.12		MONTHLY AVERAGE:	3.28	PPB

01 Hour Averages





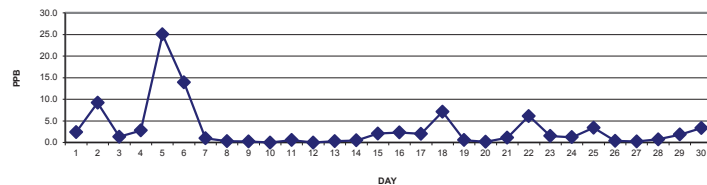
BHP Billiton Diamonds Inc. - EKATI
NOVEMBER 2012
NITROGEN DIOXIDE (NO2) hourly averages in ppb

MST																									DAILY	24-HOUR	RDGS.		
Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00		0:00	MAX.
Day																													
1		1	3	4	7	4	IZS	5	7	4	3	4	1	0	0	0	0	0	0	1	0	1	0	2	8	8	2.4	24	
2		11	5	8	8	8	IZS	0	0	0	4	1	2	0	3	2	1	2	25	28	32	38	28	3	2	38	9.2	24	
3		5	2	0	1	0	IZS	0	7	5	2	1	0	0	0	1	0	0	1	3	0	0	1	0	2	7	1.3	24	
4		1	0	0	2	1	IZS	0	1	0	0	1	1	0	0	3	1	2	2	0	6	10	10	12	11	12	2.8	24	
5		30	24	24	29	43	IZS	37	28	32	29	26	29	19	24	9	6	7	15	15	33	33	20	27	36	43	25.0	24	
6		45	12	20	45	44	IZS	3	1	0	2	7	2	1	0	0	0	2	12	32	28	38	7	6	13	45	13.9	24	
7		12	2	0	1	2	IZS	2	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	12	1.0	24	
8		0	0	0	0	0	IZS	0	0	0	0	0	3	0	1	0	0	0	2	1	0	0	0	0	0	3	0.3	24	
9		0	0	0	0	0	IZS	0	0	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0.2	24	
10		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
11		1	0	0	0	0	IZS	0	0	0	0	1	0	0	0	1	3	0	1	5	1	0	0	0	0	5	0.6	24	
12		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
13		1	0	0	0	0	IZS	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3	24	
14		0	0	0	0	2	IZS	0	0	0	0	0	0	1	1	2	1	0	0	0	0	0	3	1	3	0.5	24		
15		0	0	0	0	0	IZS	0	0	1	0	1	1	2	3	3	5	6	10	5	4	0	2	3	2	10	2.1	24	
16		2	1	4	4	1	IZS	3	6	8	4	1	2	2	2	3	3	1	3	3	1	0	0	0	0	8	2.3	24	
17		0	0	0	0	0	IZS	5	4	0	0	3	2	5	2	0	1	0	2	4	0	0	1	8	9	2.0	24		
18		10	6	8	12	6	IZS	7	5	2	5	11	24	26	4	6	6	4	4	3	3	2	2	4	4	26	7.1	24	
19		4	3	2	2	2	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.6	24	
20		0	0	0	0	1	IZS	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0.2	24	
21		0	1	1	2	2	IZS	1	0	1	1	2	0	2	2	5	4	1	0	0	0	0	0	0	1	5	1.1	24	
22		2	7	13	4	15	IZS	6	6	9	4	14	29	13	2	2	3	1	11	0	0	0	0	0	0	29	6.1	24	
23		0	1	0	1	0	IZS	0	0	9	4	5	2	0	0	3	0	1	0	0	1	0	2	6	0	9	1.5	24	
24		0	0	0	0	0	IZS	0	0	0	4	5	6	3	1	0	0	1	0	1	1	1	4	1	0	6	1.2	24	
25		0	0	0	0	0	IZS	0	15	8	3	8	3	10	1	1	12	4	0	2	5	2	1	1	2	15	3.4	24	
26		1	0	0	0	1	IZS	0	0	0	0	2	3	0	1	0	1	0	0	0	0	0	0	0	0	3	0.4	24	
27		0	0	0	0	0	IZS	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.3	24	
28		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	1	2	7	6	1	0	0	0	0	7	0.7	24	
29		0	0	0	0	0	IZS	0	6	8	4	1	5	5	3	5	5	0	0	0	0	0	0	0	0	8	1.8	24	
30		0	0	0	0	0	IZS	6	5	1	1	2	19	3	2	0	3	5	8	9	1	1	6	4	1	19	3.3	24	
Hourly Max		45	24	24	45	44	NA	37	28	32	29	26	29	26	24	9	12	7	25	32	33	38	28	27	36				
Hourly Avg		4.2	2.2	2.8	3.9	4.4	NA	2.5	3.1	3.3	2.5	3.2	4.5	3.1	1.7	1.5	1.9	1.3	3.4	3.9	3.9	4.2	2.8	2.7	3.1				

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

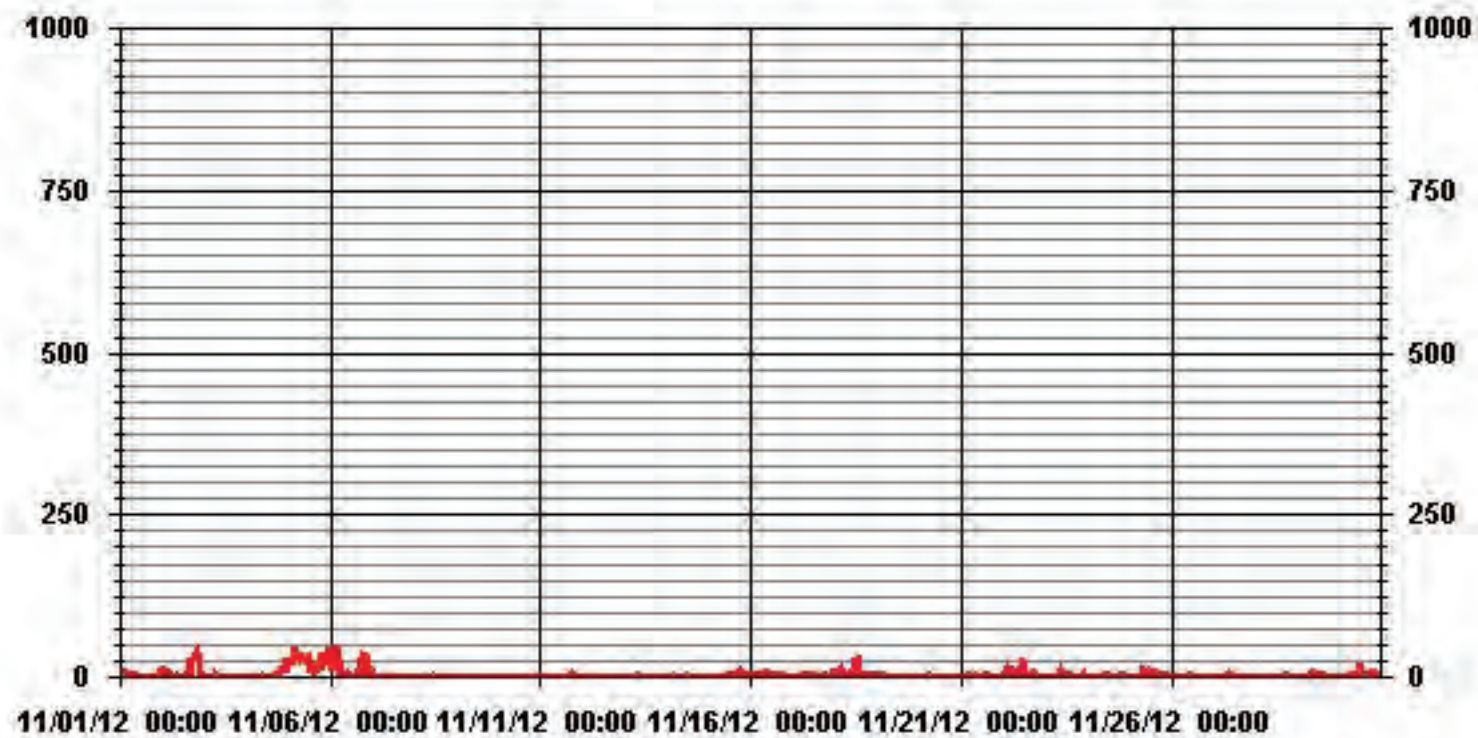
24 HOUR AVERAGES FOR NOVEMBER 2012

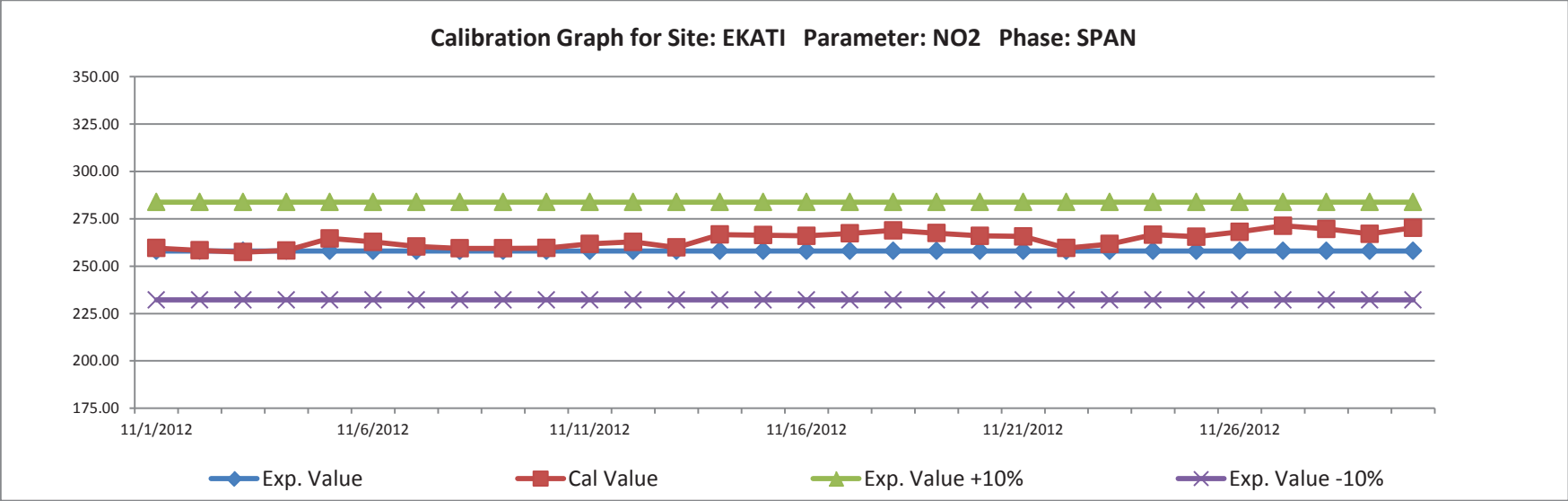


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	321				
MAXIMUM 1-HR AVERAGE:	45	PPB	@ HOUR(S)	3	ON DAY(S) 6
MAXIMUM 24-HR AVERAGE:	25.0	PPB			ON DAY(S) 5
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	6.95		MONTHLY AVERAGE:	3.06	PPB

01 Hour Averages





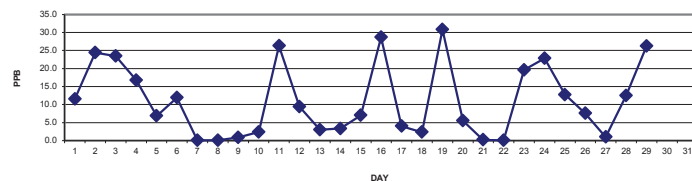
BHP Billiton Diamonds Inc. - EKATI
DECEMBER 2012
NITROGEN DIOXIDE (NO2) hourly averages in ppb

MST																												
HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	DAILY MAX.	24-HOUR AVG.	RDGS.
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
DAY																												
1	0	1	21	19	7	IZS	0	3	5	4	2	4	11	17	9	6	2	10	11	30	10	23	41	30	41	11.6	24	
2	8	10	7	35	46	IZS	44	39	25	40	39	29	15	6	14	17	17	36	42	11	23	17	32	10	46	24.4	24	
3	26	26	35	39	39	IZS	46	36	45	34	36	31	9	10	12	28	9	7	22	9	0	25	1	14	46	23.4	24	
4	2	2	14	7	2	IZS	7	14	37	19	5	6	6	4	14	35	40	24	27	25	24	27	21	23	40	16.7	24	
5	18	13	10	9	4	IZS	4	2	5	3	12	4	9	5	4	3	4	2	3	5	3	8	10	18	18	6.9	24	
6	16	0	5	24	29	IZS	25	19	29	45	28	16	9	7	4	4	3	4	1	1	1	1	1	2	45	11.9	24	
7	1	0	0	0	0	IZS	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
8	0	0	0	0	0	IZS	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
9	0	0	0	0	0	IZS	0	0	0	0	0	2	1	0	0	4	3	0	0	0	0	0	7	3	7	0.9	24	
10	3	3	1	2	4	IZS	0	0	0	0	0	0	0	0	1	9	3	2	0	3	1	1	8	14	14	2.4	24	
11	12	10	12	11	5	IZS	10	2	10	9	25	34	28	34	26	30	40	39	44	43	37	39	50	55	55	26.3	24	
12	49	29	7	13	18	IZS	20	13	5	6	9	4	6	4	2	3	1	1	1	1	0	6	5	13	49	9.4	24	
13	18	33	4	4	0	IZS	2	1	1	0	1	1	1	2	1	0	0	0	0	0	0	0	0	0	33	3.0	24	
14	0	0	0	0	0	IZS	0	0	0	0	0	0	0	19	23	10	15	3	3	3	0	1	0	0	23	3.3	24	
15	0	0	0	0	0	IZS	0	0	0	0	0	0	5	0	5	9	6	2	11	14	14	27	41	27	41	7.0	24	
16	34	41	32	34	40	IZS	10	44	34	33	43	33	21	3	18	23	22	26	30	29	33	25	28	24	44	28.7	24	
17	19	0	0	0	0	IZS	0	7	22	18	5	1	10	1	0	2	4	3	0	0	0	0	0	0	22	4.0	24	
18	0	0	0	0	0	IZS	2	1	1	0	1	0	0	0	2	9	2	1	6	8	5	4	1	11	11	2.3	24	
19	14	35	27	36	32	IZS	13	22	39	29	26	49	37	35	30	23	31	46	30	36	27	29	35	28	49	30.8	24	
20	23	14	11	13	13	IZS	12	5	3	2	7	2	2	1	0	1	2	4	2	1	0	3	5	1	23	5.5	24	
21	5	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.2	24	
22	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0.1	24	
23	0	0	0	0	1	IZS	6	3	1	7	22	27	22	10	14	30	26	42	45	39	37	44	41	34	45	19.6	24	
24	31	35	37	29	30	IZS	18	27	23	30	37	24	28	8	11	11	36	24	25	12	12	14	19	4	37	22.8	24	
25	5	1	0	0	12	IZS	0	2	0	14	10	15	25	10	5	9	23	23	21	25	30	21	16	26	30	12.7	24	
26	17	14	5	23	14	IZS	35	33	11	3	2	4	2	2	0	1	1	0	6	0	1	0	0	0	35	7.6	24	
27	0	0	0	0	0	IZS	0	0	1	4	2	5	2	0	0	0	1	1	0	0	0	4	0	3	5	1.0	24	
28	3	0	0	1	0	IZS	5	0	2	4	6	0	7	20	10	2	9	22	22	37	55	27	25	30	55	12.5	24	
29	8	34	40	23	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	40	26.3	4	
30	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
31	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
HOURLY MAX	49	41	40	39	46	NA	46	44	45	45	43	49	37	35	30	35	40	46	45	43	55	44	50	55				
HOURLY AVG	10.8	10.4	9.2	11.1	10.6	NA	9.3	9.8	10.7	10.9	11.4	10.4	9.2	7.1	7.3	9.6	10.8	11.5	12.6	11.9	11.2	12.4	13.8	13.2				

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

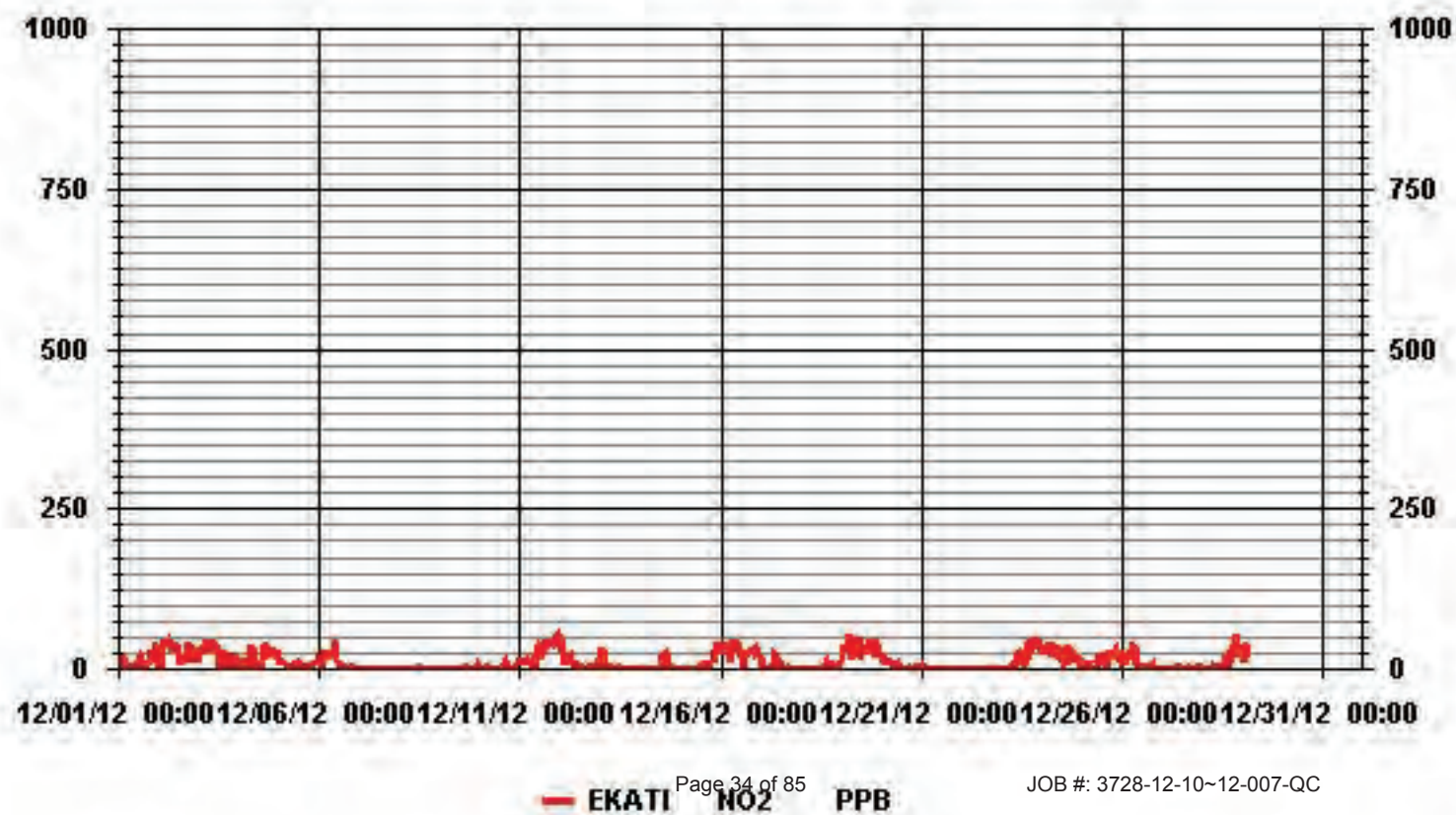
24 HOUR AVERAGES FOR DECEMBER 2012



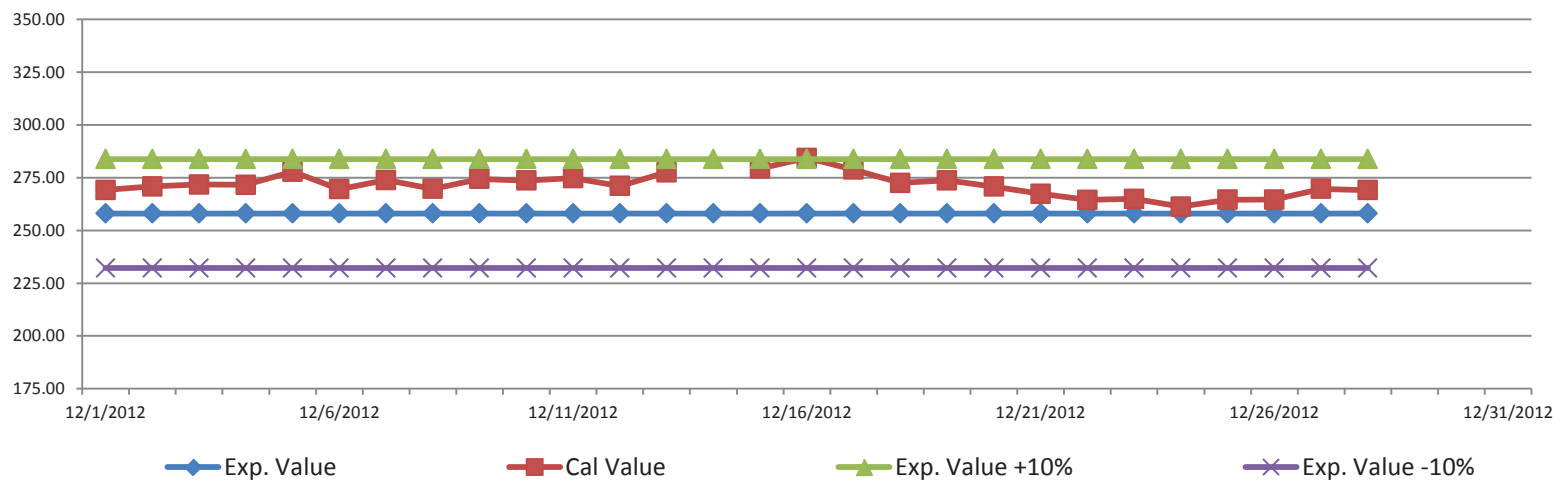
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:		438				
MAXIMUM 1-HR AVERAGE:	55	PPB	@ HOUR(S)	20	ON DAY(S)	28
MAXIMUM 24-HR AVERAGE:	30.8	PPB			ON DAY(S)	19
IZS CALIBRATION TIME:	28	HRS	OPERATIONAL TIME:		676	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:		90.9	%
STANDARD DEVIATION:	13.43		MONTHLY AVERAGE:		10.65	PPB

01 Hour Averages



Calibration Graph for Site: EKATI Parameter: NO2 Phase: SPAN



Nitric Oxide

BHP Billiton Diamonds Inc. - EKATI

OCTOBER 2012

NITRIC OXIDES (NO) hourly averages in ppb

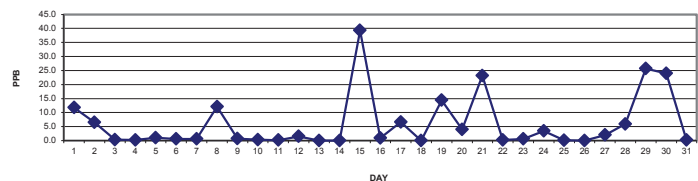
MST

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily	24-Hour	
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Max.	Avg.	Rdgs.
Day																											
1	36	2	20	16	0	IZS	1	0	0	0	0	0	0	19	30	14	2	2	2	1	3	72	45	6	72	11.8	24
2	5	8	15	5	5	IZS	2	0	0	1	0	1	0	1	1	1	2	6	31	39	15	11	0	0	39	6.5	24
3	0	0	1	0	0	IZS	1	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0.3	24
4	3	0	0	0	0	IZS	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.2	24
5	0	0	0	0	0	IZS	1	0	0	0	3	2	2	5	7	1	1	0	0	0	0	0	0	0	7	1.0	24
6	0	0	0	0	1	IZS	1	0	1	1	1	0	0	1	1	1	1	1	1	0	0	1	2	0	2	0.6	24
7	0	0	1	0	0	IZS	2	1	1	2	3	1	1	0	0	0	0	0	0	0	0	0	1	1	3	0.6	24
8	0	0	5	72	126	IZS	2	1	2	14	11	3	1	7	11	2	0	1	0	0	0	0	20	1	126	12.1	24
9	1	2	0	0	0	IZS	1	1	1	1	3	1	0	0	2	1	1	1	0	0	0	0	0	0	3	0.7	24
10	0	0	0	0	0	IZS	1	0	0	0	0	0	1	1	0	0	1	1	3	0	0	0	0	0	3	0.3	24
11	0	0	0	0	0	IZS	1	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0.2	24
12	0	0	0	0	0	IZS	1	0	2	0	0	0	2	0	0	1	0	0	0	0	4	22	2	1	22	1.5	24
13	0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
14	0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
15	0	0	1	46	119	IZS	14	110	62	137	147	134	95	19	2	4	3	3	1	0	1	1	2	2	147	39.3	24
16	0	1	0	0	0	IZS	1	0	1	1	1	1	1	2	2	1	1	1	0	0	2	4	1	1	4	1.0	24
17	1	1	1	3	140	IZS	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140	6.7	24
18	0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
19	0	0	0	1	40	IZS	1	0	95	25	105	60	0	0	5	0	0	0	0	0	0	0	0	0	105	14.4	24
20	0	0	0	0	0	IZS	1	0	0	17	41	10	3	6	5	3	0	0	0	2	1	1	0	1	41	4.0	24
21	1	16	132	129	168	IZS	10	4	2	5	7	3	2	1	2	15	6	3	2	0	0	1	22	1	168	23.1	24
22	0	0	0	0	0	IZS	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	24
23	0	1	1	0	0	IZS	0	0	6	0	0	1	1	1	1	1	0	0	1	0	0	0	0	0	6	0.6	24
24	0	0	1	0	10	IZS	0	0	16	34	2	0	0	1	11	1	1	0	0	0	1	1	0	0	34	3.4	24
25	0	0	0	0	0	IZS	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	2	0.1	24
26	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
27	0	0	0	0	0	IZS	0	0	0	3	0	0	0	0	3	1	4	0	0	0	0	8	8	19	19	2.0	24
28	17	32	35	11	15	IZS	1	0	0	2	3	0	0	1	4	1	7	7	0	0	0	0	0	0	35	5.9	24
29	0	0	0	0	0	IZS	0	0	0	0	0	C	0	0	2	0	0	0	0	0	4	70	301	188	301	25.7	24
30	196	174	18	8	12	IZS	1	0	5	5	0	C	C	C	C	C	8	2	0	0	2	0	0	0	196	23.9	24
31	0	0	0	0	0	IZS	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0.2	24
Hourly Max	196	174	132	129	168	NA	14	110	95	137	147	134	95	19	30	15	8	7	31	39	15	72	301	188			
Hourly Avg	8.4	7.6	7.5	9.4	20.5	NA	1.6	4.0	6.3	8.0	10.7	7.6	3.7	2.2	2.9	1.8	1.3	1.0	1.3	1.4	1.1	6.2	13.1	7.2			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

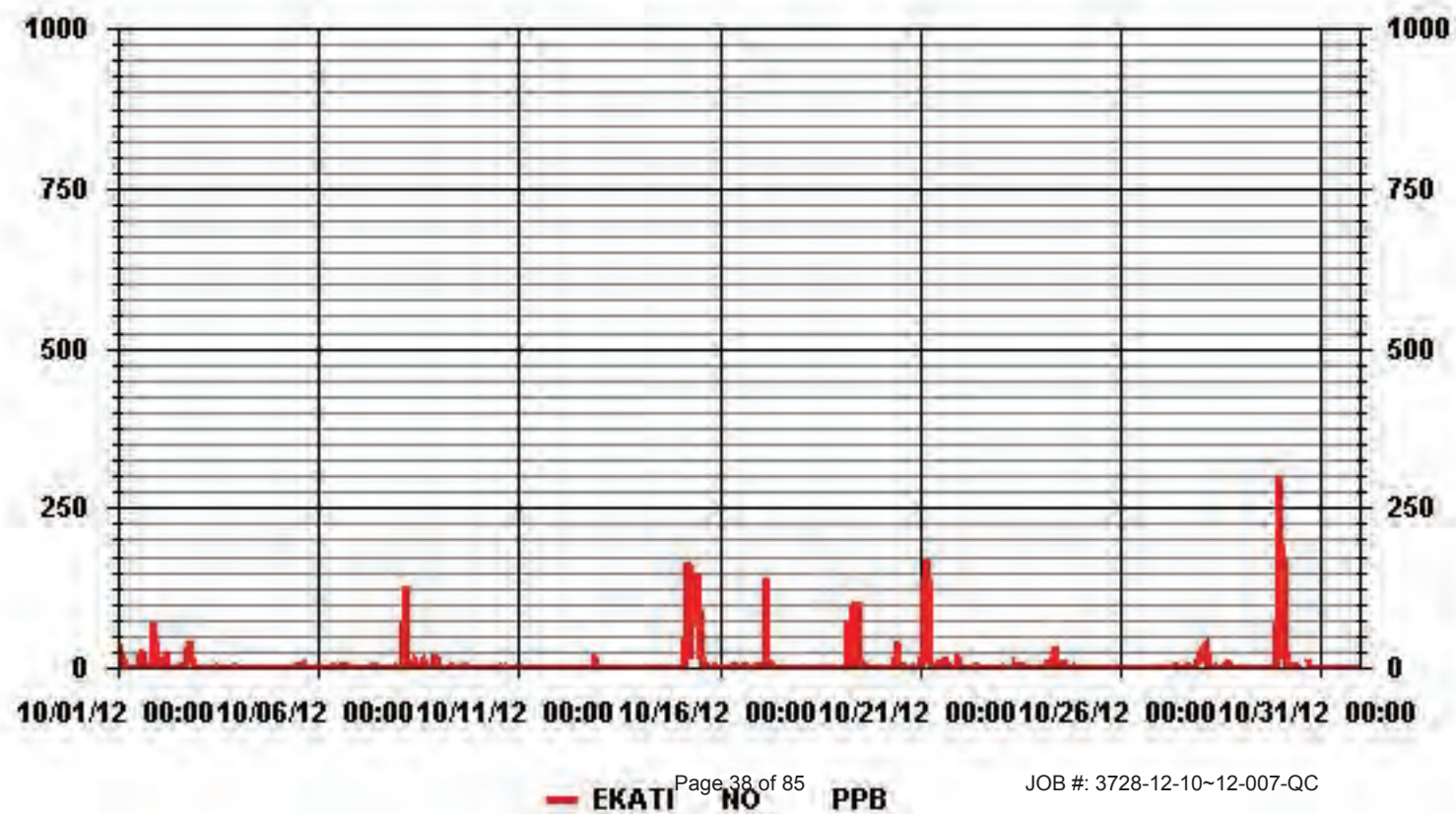
24 HOUR AVERAGES FOR OCTOBER 2012



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	274				
MAXIMUM 1-HR AVERAGE:	301	PPB	@ HOUR(S)	22	ON DAY(S) 29
MAXIMUM 24-HR AVERAGE:	39.3	PPB			ON DAY(S) 15
IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	744	HRS
MONTHLY CALIBRATION TIME:	6	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	24.64		MONTHLY AVERAGE:	5.87	PPB

01 Hour Averages



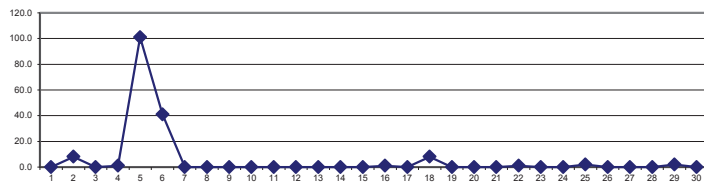
BHP Billiton Diamonds Inc. - EKATI
NOVEMBER 2012
NITRIC OXIDES (NO) hourly averages in ppb

MST		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	RDGS.	
Hour Start	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	MAX		AVG
Day																													
1		0	0	0	0	0	IZS	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.0	24
2		0	0	1	0	0	IZS	1	0	0	2	0	1	0	3	1	0	0	12	13	28	106	41	0	0	106	8.0	24	
3		0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.0	24	
4		0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	1	0	1	1	0	2	2	8	10	12	12	1.0	24	
5		117	76	78	158	251	IZS	68	126	190	155	137	134	100	93	16	6	6	26	24	105	114	39	81	205	251	101.0	24	
6		151	9	40	188	175	IZS	2	0	0	1	10	1	0	0	0	0	0	15	83	63	176	2	0	0	188	41.0	24	
7		0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
8		0	0	0	0	0	IZS	0	0	0	0	0	5	0	1	0	0	0	2	1	0	0	0	0	0	5	0.0	24	
9		0	0	0	0	0	IZS	1	0	5	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5	0.0	24	
10		0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
11		1	0	0	1	0	IZS	1	0	1	0	0	0	0	1	1	5	0	1	5	2	0	0	0	0	5	0.0	24	
12		0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
13		1	0	0	0	0	IZS	1	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.0	24	
14		0	0	0	0	1	IZS	1	1	0	0	0	0	1	2	1	2	0	0	0	0	0	0	2	1	2	0.0	24	
15		0	0	0	0	0	IZS	1	0	2	0	1	0	1	3	1	1	1	7	1	1	0	1	0	1	7	0.0	24	
16		1	0	2	1	0	IZS	1	4	10	2	2	3	2	4	3	1	0	2	1	0	0	0	0	0	10	1.0	24	
17		0	0	0	0	0	IZS	1	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0	1	1	2	0.0	24	
18		1	1	1	6	2	IZS	2	1	0	4	16	81	68	3	4	3	2	2	1	2	1	1	2	2	81	8.0	24	
19		2	1	1	1	1	IZS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.0	24	
20		0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0.0	24	
21		0	0	0	0	0	IZS	1	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	2	0.0	24	
22		0	0	0	0	0	IZS	1	0	3	0	0	17	5	0	0	1	2	8	0	0	0	0	0	0	17	1.0	24	
23		0	0	0	0	0	IZS	1	0	7	2	4	1	0	0	3	0	0	0	0	0	0	0	0	0	7	0.0	24	
24		0	0	0	0	0	IZS	1	0	0	1	1	4	1	0	0	0	0	0	0	0	0	0	0	0	4	0.0	24	
25		0	0	0	0	0	IZS	1	5	3	2	8	2	8	0	1	14	3	0	2	3	1	1	0	2	14	2.0	24	
26		1	0	0	0	1	IZS	1	0	0	0	1	3	0	1	0	1	0	0	0	0	0	0	0	0	3	0.0	24	
27		0	0	0	0	0	IZS	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.0	24	
28		0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	2	4	7	8	1	0	0	0	0	8	0.0	24	
29		0	0	0	0	0	IZS	1	8	8	4	1	6	8	3	9	8	0	0	0	0	0	0	0	0	9	2.0	24	
30		0	0	0	0	0	IZS	1	1	0	0	0	10	4	2	0	1	2	0	1	0	0	0	0	0	10	0.0	24	
Hourly Max		151	76	78	188	251	NA	68	126	190	155	137	134	100	93	16	14	6	26	83	105	176	41	81	205				
Hourly Avg		9.2	2.9	4.1	11.8	14.4	NA	3.2	5.0	7.8	5.9	6.0	8.9	6.7	3.9	1.4	1.5	0.8	2.8	4.7	6.9	13.3	3.1	3.2	7.5				

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

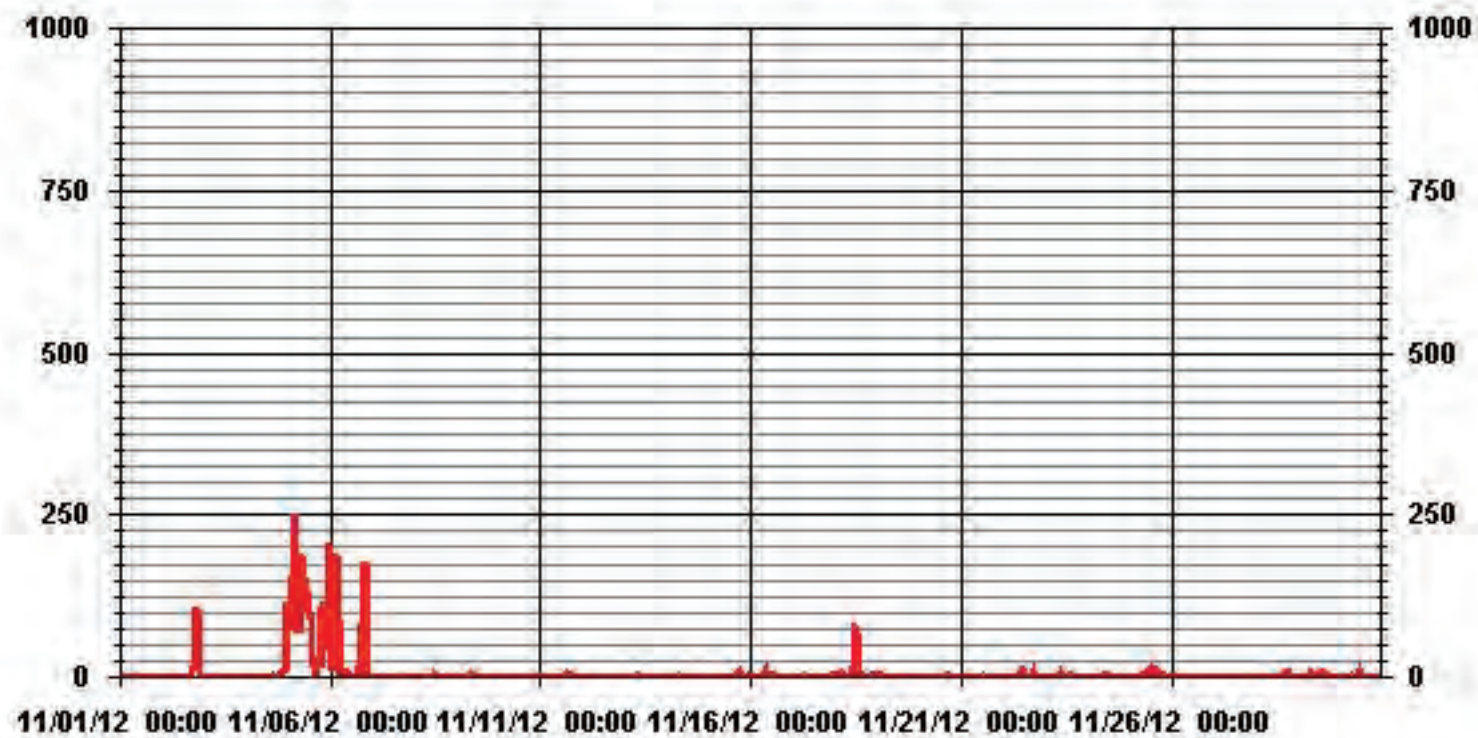
24 HOUR AVERAGES FOR NOVEMBER 2012



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	230				
MAXIMUM 1-HR AVERAGE:	251	PPB	@ HOUR(S)	4	ON DAY(S) 5
MAXIMUM 24-HR AVERAGE:	101.0	PPB			ON DAY(S) 5
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	25.87		MONTHLY AVERAGE:	5.88	PPB

01 Hour Averages



— EKATI NO PPB

JOB #: 3728-12-10~12-007-QC

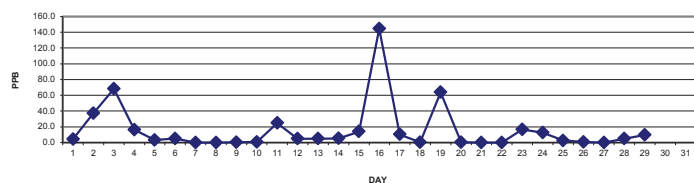
BHP Billiton Diamonds Inc. - EKATI
DECEMBER 2012
NITRIC OXIDES (NO) hourly averages in ppb

MST	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	MAX.	AVG.	RDGS.
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
DAY																											
1	0	0	6	2	0	IZS	1	0	2	0	0	2	5	8	2	1	0	2	3	11	0	4	47	5	47	4.4	24
2	0	0	1	34	102	IZS	29	53	12	95	63	17	6	1	3	3	4	101	150	3	25	30	117	7	150	37.2	24
3	111	100	138	121	98	IZS	79	97	199	96	109	94	9	8	31	85	7	5	113	10	0	41	0	17	199	68.2	24
4	1	3	25	4	0	IZS	1	18	97	56	0	0	0	0	4	20	33	10	10	11	12	23	10	40	97	16.4	24
5	15	4	5	5	0	IZS	1	1	5	1	15	2	3	1	1	0	1	0	0	2	0	2	3	11	15	3.4	24
6	20	0	0	4	12	IZS	2	2	8	55	4	9	1	1	0	0	0	1	0	0	0	0	0	0	55	5.2	24
7	0	0	0	0	0	IZS	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.1	24
8	0	0	0	0	0	IZS	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0.1	24
9	0	0	0	0	0	IZS	1	0	0	0	0	2	0	0	0	3	3	0	0	0	0	0	1	0	3	0.4	24
10	0	0	0	0	0	IZS	1	0	0	0	0	1	0	0	0	6	1	6	0	0	0	0	4	2	6	0.9	24
11	2	1	1	1	0	IZS	1	0	5	2	11	23	26	30	20	24	20	23	27	38	31	33	111	144	144	25.0	24
12	70	18	0	0	0	IZS	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	70	5.0	24
13	19	94	0	0	0	IZS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	5.0	24
14	0	0	0	0	0	IZS	0	0	0	0	0	0	0	56	65	2	0	0	0	0	0	0	0	0	65	5.3	24
15	0	0	0	0	0	IZS	0	0	0	0	0	0	5	0	0	1	2	0	0	2	17	61	141	93	141	14.0	24
16	179	205	104	230	261	IZS	21	340	274	188	309	180	101	3	57	78	46	69	107	133	136	119	100	81	340	144.4	24
17	89	0	0	0	0	IZS	0	24	43	24	16	0	42	0	0	0	0	0	0	0	0	0	0	0	89	10.3	24
18	0	0	0	0	0	IZS	0	0	2	0	0	0	0	0	0	4	0	0	0	0	0	0	0	1	4	0.3	24
19	4	44	17	35	72	IZS	3	24	119	54	166	270	90	126	44	9	32	164	55	43	38	21	26	12	270	63.8	24
20	6	0	1	1	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.3	24
21	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
22	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
23	0	0	0	0	0	IZS	0	0	0	0	4	33	9	0	1	8	3	20	118	36	31	46	61	16	118	16.8	24
24	34	24	54	10	11	IZS	0	4	6	7	27	6	48	2	7	0	24	11	6	3	0	0	8	0	54	12.7	24
25	0	0	0	0	0	IZS	0	0	0	1	0	2	11	1	0	0	8	3	5	10	13	2	2	3	13	2.7	24
26	0	0	0	1	0	IZS	5	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0.7	24
27	0	0	0	0	0	IZS	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24
28	0	0	0	0	0	IZS	0	0	2	0	0	0	0	5	2	0	2	3	0	29	73	0	0	0	73	5.0	24
29	0	20	14	5	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	20	9.8	4
30	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
31	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
HOURLY MAX	179	205	138	230	261	NA	79	340	274	188	309	270	101	126	65	85	46	164	150	133	136	119	141	144			
HOURLY AVG	19.0	17.7	12.6	15.6	19.9	NA	5.4	20.4	27.6	20.7	25.9	22.9	12.8	8.7	8.5	8.7	6.6	14.9	21.2	11.8	13.4	13.6	22.5	16.3			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

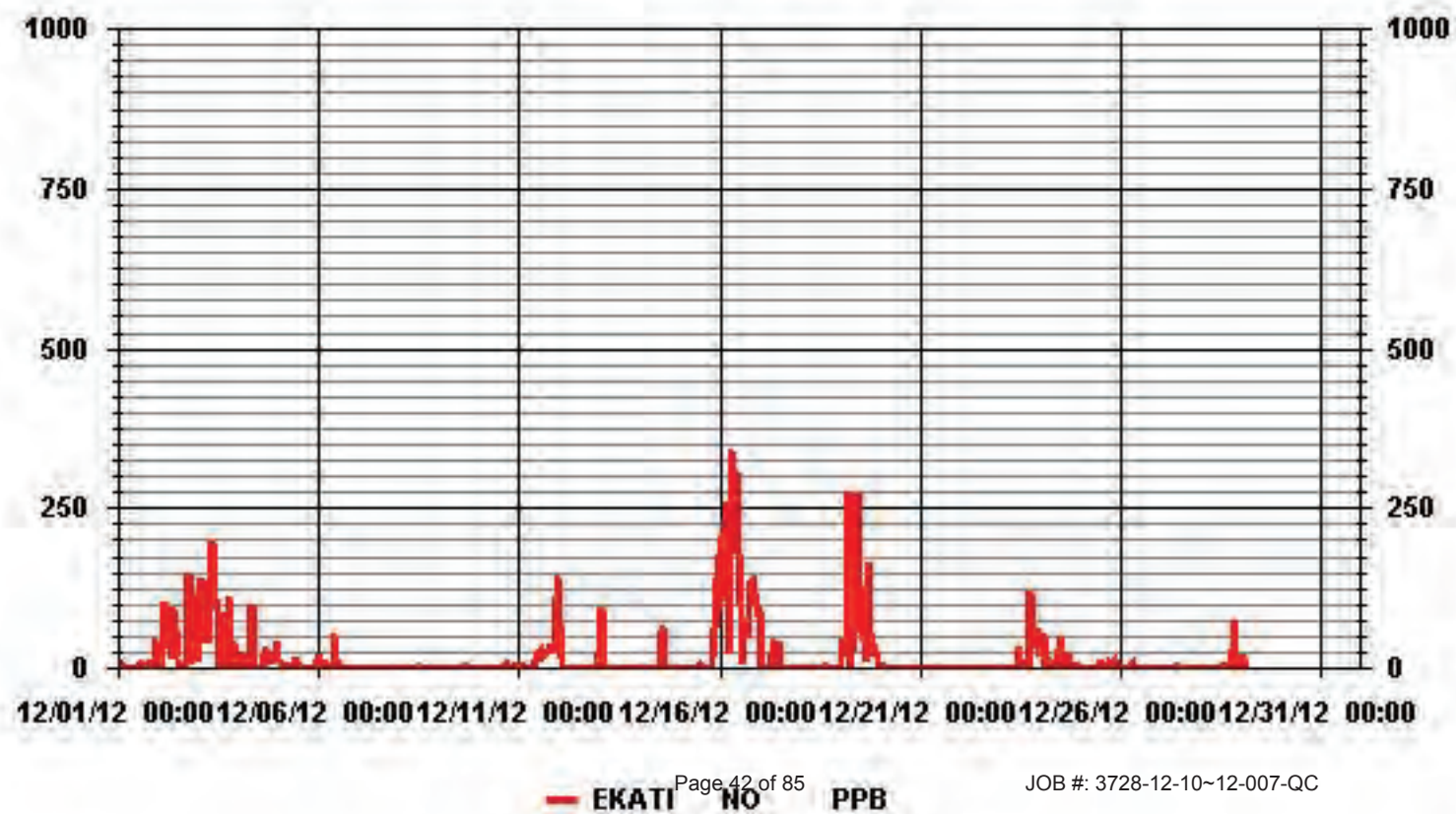
24 HOUR AVERAGES FOR DECEMBER 2012



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	278				
MAXIMUM 1-HR AVERAGE:	340	PPB	@ HOUR(S)	7	ON DAY(S) 16
MAXIMUM 24-HR AVERAGE:	144.4	PPB			ON DAY(S) 16
IZS CALIBRATION TIME:	28	HRS	OPERATIONAL TIME:	676	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	90.9	%
STANDARD DEVIATION:	41.46		MONTHLY AVERAGE:	15.95	PPB

01 Hour Averages



Oxides of Nitrogen

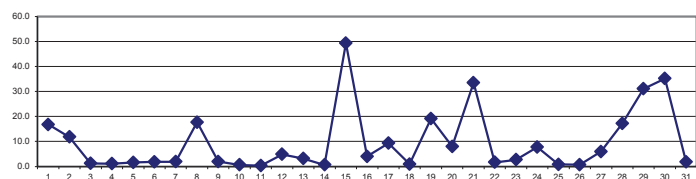
BHP Billiton Diamonds Inc. - EKATI
OCTOBER 2012
OXIDES OF NITROGEN (NOX) hourly averages in ppb

MST	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR START	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX	AVG	RDGS
DAY																											
1	47	4	28	25	1	IZS	1	1	0	0	0	0	0	26	41	24	6	6	6	4	9	87	57	13	87	16.8	24
2	12	16	26	12	14	IZS	2	2	2	3	1	1	1	2	3	3	6	13	48	60	23	19	1	1	60	11.8	24
3	1	1	2	2	2	IZS	1	1	5	2	1	1	1	0	0	0	1	0	0	0	0	0	2	5	5	1.2	24
4	13	1	0	0	0	IZS	1	2	0	2	1	0	0	0	0	0	0	0	2	0	1	1	1	0	13	1.1	24
5	0	0	0	0	1	IZS	0	1	1	0	4	3	3	8	10	2	1	0	0	0	0	0	0	0	10	1.6	24
6	0	0	0	0	1	IZS	0	2	7	6	3	1	1	2	2	1	1	2	2	0	1	3	5	2	7	1.8	24
7	1	2	3	2	2	IZS	5	1	2	8	8	2	2	0	1	0	0	0	0	0	0	0	2	2	8	1.9	24
8	0	0	9	93	151	IZS	9	4	6	24	21	7	3	11	18	4	0	3	1	0	1	0	38	4	151	17.7	24
9	8	14	3	3	1	IZS	0	0	1	1	5	1	0	0	3	2	1	2	0	0	0	0	0	0	14	2.0	24
10	0	0	0	0	0	IZS	0	0	1	0	0	1	2	1	1	0	1	2	6	0	0	0	0	0	6	0.7	24
11	0	0	0	0	0	IZS	0	0	0	1	3	0	0	0	1	0	0	2	0	0	0	0	0	0	3	0.3	24
12	0	0	0	0	0	IZS	0	0	3	1	1	0	4	0	2	3	1	3	2	0	15	48	19	10	48	4.9	24
13	1	4	7	7	3	IZS	11	5	0	3	3	2	0	1	1	1	2	2	5	0	2	4	4	4	11	3.1	24
14	2	5	2	2	1	IZS	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	5	0.7	24
15	0	0	3	56	144	IZS	28	136	78	165	171	162	114	28	5	8	7	7	3	2	4	3	5	5	171	49.3	24
16	2	3	3	3	3	IZS	2	1	5	3	4	4	3	5	5	5	5	4	1	1	7	11	6	6	11	4.0	24
17	4	6	6	8	167	IZS	0	10	1	1	1	0	0	0	0	0	0	1	0	1	1	2	3	2	167	9.3	24
18	2	2	0	2	3	IZS	1	4	0	0	0	0	0	0	1	0	0	1	0	0	2	2	1	1	4	1.0	24
19	0	0	2	3	58	IZS	0	0	117	34	124	74	0	1	8	1	1	4	4	2	2	5	0	0	124	19.1	24
20	0	0	2	1	0	IZS	1	3	2	30	62	18	7	11	11	7	2	1	1	5	5	6	3	5	62	8.0	24
21	6	29	164	157	201	IZS	43	12	7	12	15	8	5	4	5	27	13	8	6	2	2	5	34	4	201	33.4	24
22	3	3	3	2	0	IZS	0	2	4	5	4	3	0	1	1	2	2	2	1	0	0	0	0	0	5	1.7	24
23	2	4	3	3	1	IZS	1	2	11	2	2	3	3	4	3	4	2	3	5	0	0	1	1	2	11	2.7	24
24	1	4	6	5	21	IZS	1	0	27	50	4	2	1	3	17	4	4	4	3	2	6	7	2	3	50	7.7	24
25	0	0	0	0	0	IZS	0	0	0	1	0	2	5	7	1	0	0	0	0	0	0	0	2	1	7	0.8	24
26	0	1	0	0	0	IZS	0	0	0	1	3	2	0	1	1	1	2	4	0	0	0	0	0	0	4	0.7	24
27	0	0	0	0	0	IZS	0	0	0	7	1	0	0	2	10	4	13	0	0	0	1	21	27	50	50	5.9	24
28	47	66	66	40	41	IZS	11	7	8	11	11	3	2	4	14	8	20	26	5	1	1	2	2	0	66	17.2	24
29	1	1	0	0	0	IZS	0	0	0	0	0	C	0	0	2	0	0	1	0	0	8	92	351	227	351	31.0	24
30	235	206	35	19	24	IZS	11	7	21	20	0	C	C	C	C	C	15	14	4	3	12	5	2	0	235	35.2	24
31	0	0	0	0	0	IZS	2	5	0	0	1	0	1	4	0	1	0	0	2	6	1	7	8	4	8	1.8	24
HOURLY MAX	235	206	164	157	201	NA	43	136	117	165	171	162	114	28	41	27	20	26	48	60	23	92	351	227			
HOURLY AVG	12.5	12.0	12.0	14.4	27.1	NA	4.2	6.7	10.0	12.7	14.7	10.3	5.3	4.0	5.5	4.0	3.5	3.7	3.5	2.9	3.4	10.7	18.6	11.3			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

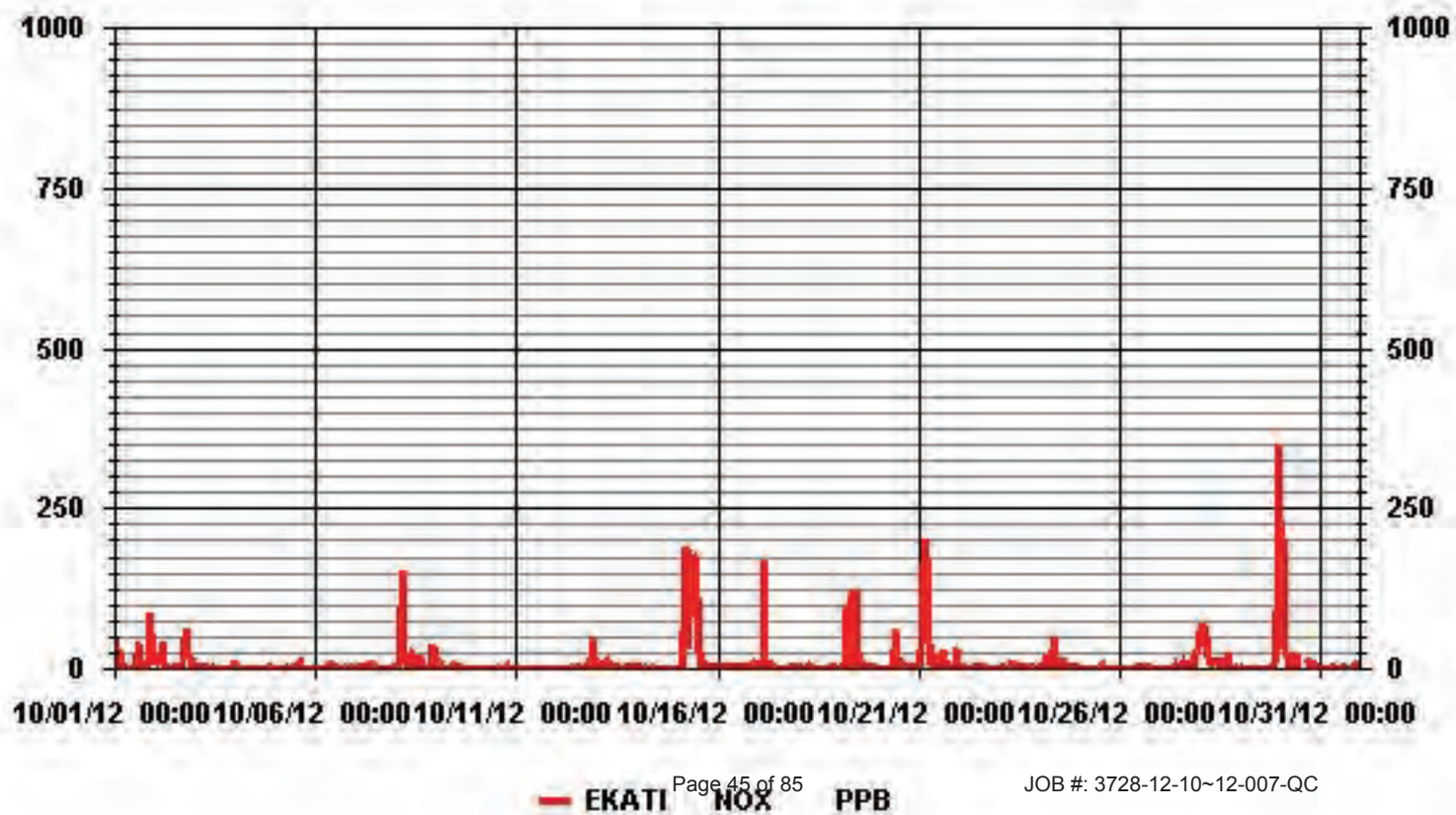
24 HOUR AVERAGES FOR OCTOBER 2012

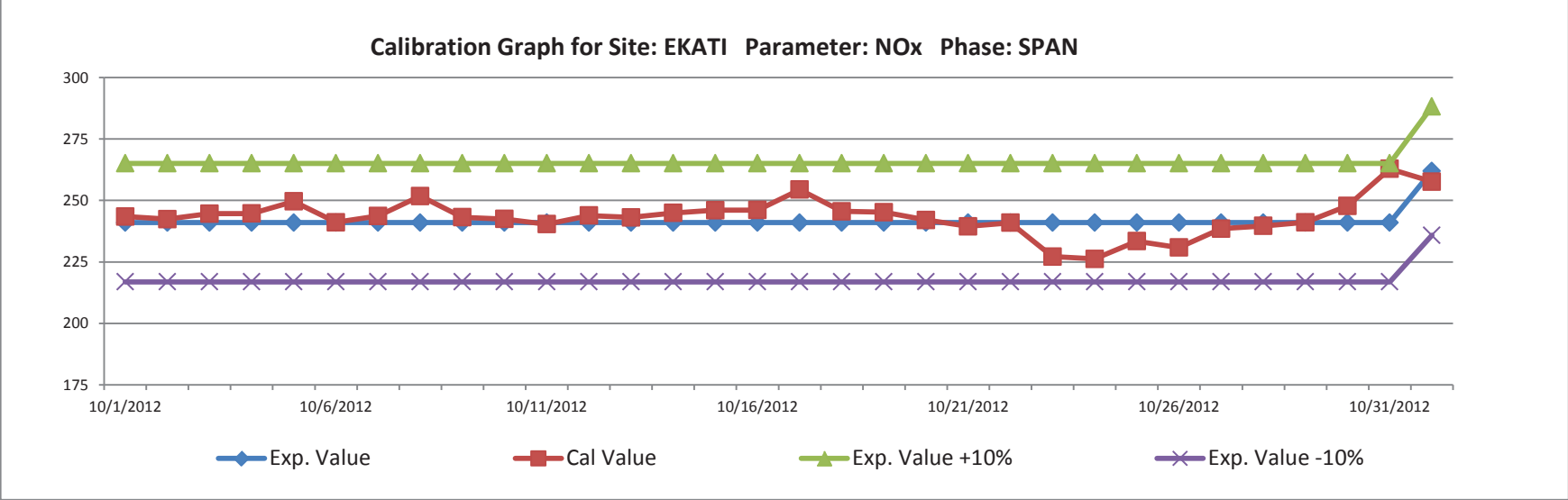


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:			465					
MAXIMUM 1-HR AVERAGE:			351	PPB	@ HOUR(S)	22	ON DAY(S)	29
MAXIMUM 24-HR AVERAGE:			49.3	PPB			ON DAY(S)	15
IZS CALIBRATION TIME:			31	HRS	OPERATIONAL TIME:		744	HRS
MONTHLY CALIBRATION TIME:			6	HRS	AMD OPERATION UPTIME:		100.0	%
STANDARD DEVIATION:			29.89		MONTHLY AVERAGE:		9.28	PPB

01 Hour Averages





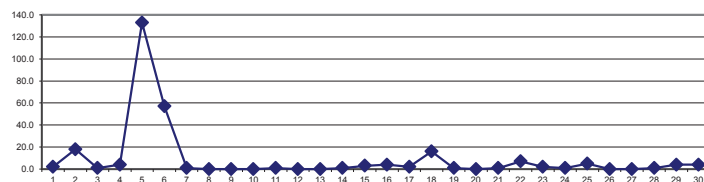
BHP Billiton Diamonds Inc. - EKATI
NOVEMBER 2012
OXIDES OF NITROGEN (NOX) hourly averages in ppb

MST		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	RDGS.
HOUR START	HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	
DAY																												
1	1	3	4	8	4	IZS	5	10	4	3	5	1	0	0	0	0	1	0	1	0	0	0	2	9	10	2.0	24	
2	11	6	10	9	8	IZS	0	0	0	7	2	3	0	7	4	1	3	37	42	61	144	71	4	2	144	18.0	24	
3	5	2	0	2	0	IZS	0	7	5	2	1	0	0	0	1	1	0	1	4	0	1	1	0	3	7	1.0	24	
4	1	0	0	2	1	IZS	0	0	0	1	1	2	0	0	5	2	3	4	0	9	13	18	23	24	24	4.0	24	
5	148	100	103	187	295	IZS	241	154	223	185	164	164	120	118	25	12	14	42	40	138	148	59	108	242	295	133.0	24	
6	196	21	61	234	220	IZS	5	2	0	3	18	5	1	0	1	1	2	28	116	92	215	10	7	13	234	57.0	24	
7	12	2	0	1	3	IZS	3	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	12	1.0	24	
8	0	0	0	0	0	IZS	0	0	0	0	0	8	0	2	0	0	0	4	3	0	0	1	1	1	8	0.0	24	
9	1	1	0	0	0	IZS	2	0	9	2	0	1	3	0	1	0	0	0	0	0	0	0	0	0	9	0.0	24	
10	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
11	3	0	0	1	1	IZS	0	0	2	0	2	0	0	2	3	9	1	2	11	4	1	0	0	0	11	1.0	24	
12	0	0	0	0	0	IZS	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0.0	24	
13	3	0	0	0	0	IZS	0	4	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.0	24	
14	0	0	0	0	4	IZS	1	1	0	0	1	0	3	4	3	3	1	1	0	0	0	1	5	2	5	1.0	24	
15	0	0	1	0	0	IZS	1	0	3	0	2	2	3	6	5	7	8	18	7	5	1	3	3	4	18	3.0	24	
16	4	2	6	6	1	IZS	4	11	19	6	4	6	5	7	6	5	2	6	5	1	0	0	0	0	19	4.0	24	
17	0	0	0	0	0	IZS	7	5	0	1	4	3	7	3	1	1	0	2	4	0	0	1	10	11	11	2.0	24	
18	11	7	10	18	8	IZS	10	6	3	10	27	105	95	8	11	10	7	7	5	6	3	4	6	6	105	16.0	24	
19	6	5	3	4	3	IZS	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	6	1.0	24	
20	0	0	0	0	2	IZS	2	0	0	0	0	1	1	0	0	1	3	0	0	0	1	0	0	0	3	0.0	24	
21	1	1	1	2	3	IZS	1	0	1	2	2	0	4	4	8	6	1	0	0	0	0	0	0	1	8	1.0	24	
22	3	7	13	4	16	IZS	6	7	12	4	15	47	18	2	3	5	4	19	0	0	0	0	0	0	47	7.0	24	
23	0	0	0	1	0	IZS	0	1	17	7	10	4	0	0	6	0	1	0	0	1	0	2	6	0	17	2.0	24	
24	0	0	0	0	0	IZS	0	0	0	5	6	10	5	2	0	0	1	0	1	1	1	4	1	0	10	1.0	24	
25	1	0	0	0	0	IZS	0	20	11	5	16	5	18	1	2	27	8	1	4	8	4	3	1	5	27	5.0	24	
26	2	0	1	1	2	IZS	0	0	0	0	3	6	0	2	0	2	0	0	0	0	0	0	0	0	6	0.0	24	
27	0	0	0	0	0	IZS	1	0	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0.0	24	
28	0	0	0	0	0	IZS	0	0	1	0	0	0	0	1	1	3	7	14	15	2	0	0	1	1	15	1.0	24	
29	1	0	1	1	1	IZS	0	14	16	9	3	12	13	6	15	13	0	0	0	0	0	0	0	0	16	4.0	24	
30	0	0	0	0	0	IZS	7	6	1	1	3	29	7	5	0	4	7	8	10	1	1	6	4	1	29	4.0	24	
HOURLY MAX	196	100	103	234	295	NA	241	154	223	185	164	164	120	118	25	27	14	42	116	138	215	71	108	242				
HOURLY AVG	13.7	5.2	7.1	16.0	19.1	NA	9.9	8.3	11.3	8.6	9.7	13.8	10.1	6.0	3.4	3.8	2.5	6.5	9.0	11.0	17.8	6.1	6.1	10.8				

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

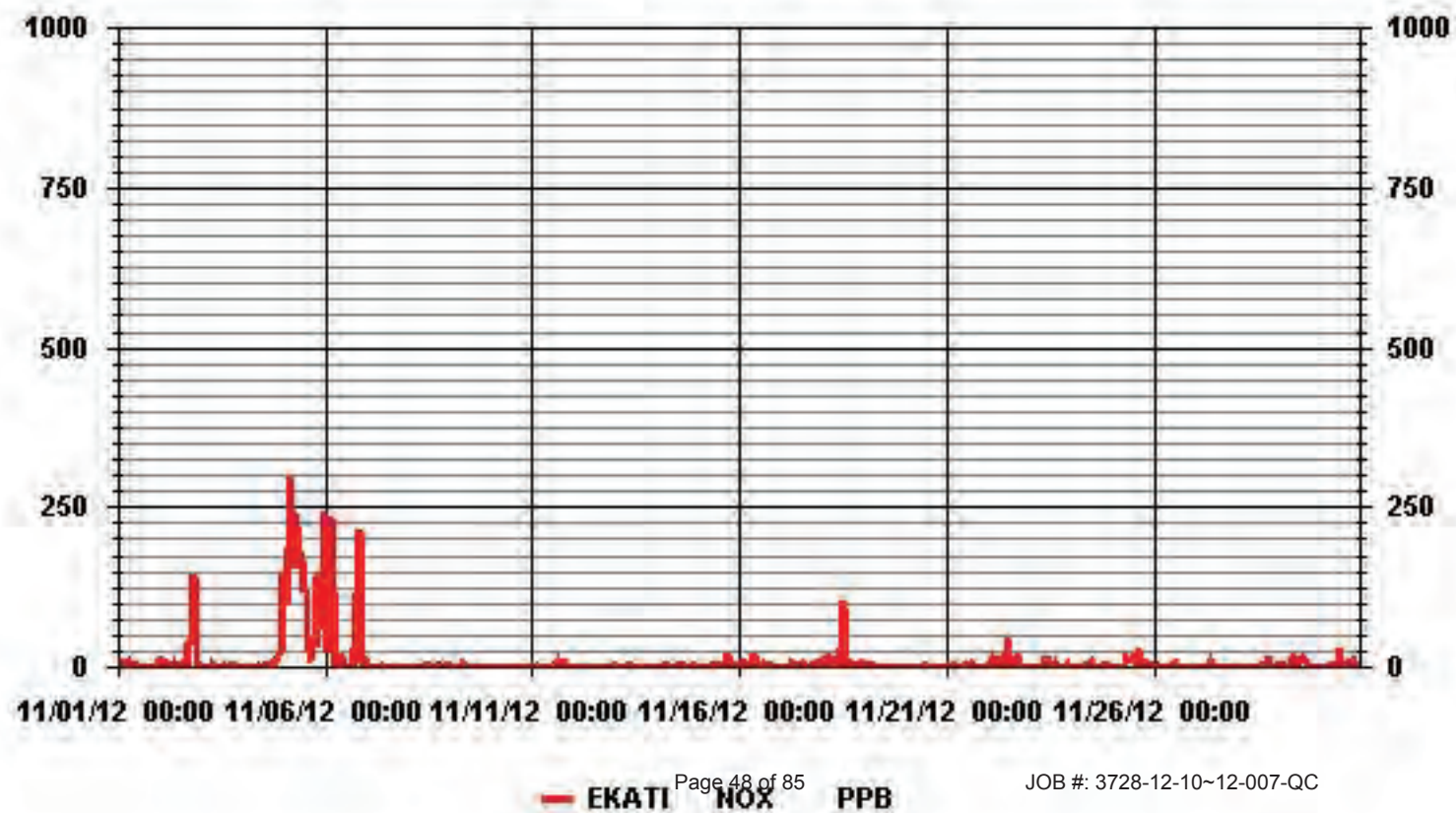
24 HOUR AVERAGES FOR NOVEMBER 2012

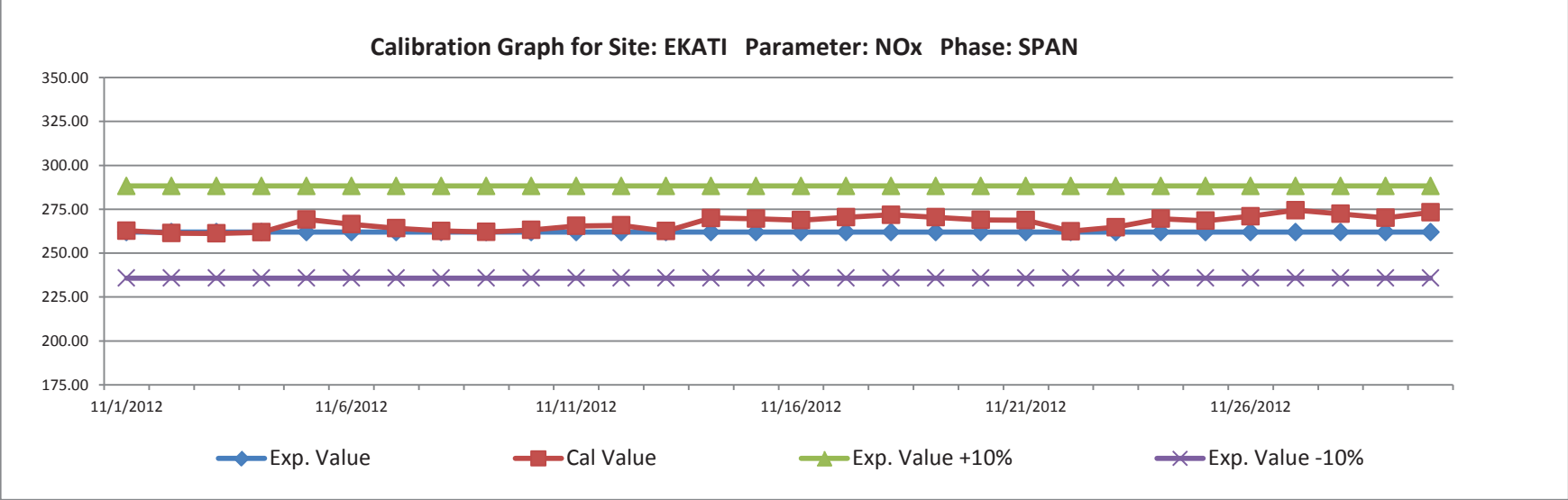


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	372				
MAXIMUM 1-HR AVERAGE:	295	PPB	@ HOUR(S)	4	ON DAY(S) 5
MAXIMUM 24-HR AVERAGE:	133.0	PPB			ON DAY(S) 5
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	33.11		MONTHLY AVERAGE:	9.38	PPB

01 Hour Averages





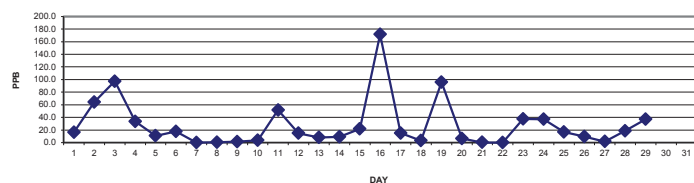
BHP Billiton Diamonds Inc. - EKATI
DECEMBER 2012
OXIDES OF NITROGEN (NOX) hourly averages in ppb

MST																												
HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR		
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.	
DAY																												
1	0	1	27	21	7	IZS	0	3	7	4	2	6	16	25	12	8	3	13	14	41	10	27	88	36	88	16.1	24	
2	9	11	9	69	148	IZS	122	92	38	136	103	46	21	8	18	21	21	138	192	14	49	48	149	17	192	64.3	24	
3	137	126	174	160	137	IZS	248	133	244	131	146	126	18	19	43	114	16	12	135	19	1	66	2	31	248	97.3	24	
4	4	6	40	11	3	IZS	9	33	134	76	5	7	6	5	18	55	73	34	38	37	35	50	31	63	134	33.6	24	
5	34	18	16	15	4	IZS	6	3	10	5	28	6	13	6	5	4	6	3	4	8	4	11	13	29	34	10.9	24	
6	37	0	5	29	42	IZS	30	21	37	101	32	25	10	9	5	5	4	5	1	1	2	2	1	2	101	17.7	24	
7	1	0	0	0	0	IZS	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0.1	24	
8	0	0	0	0	0	IZS	0	0	0	0	0	1	2	2	1	1	0	0	0	0	0	0	0	0	2	0.3	24	
9	0	0	0	0	0	IZS	0	0	0	0	0	5	2	0	0	7	6	0	0	0	0	0	8	4	8	1.4	24	
10	3	4	1	3	4	IZS	0	1	0	0	0	2	0	0	2	16	5	9	0	4	1	1	12	17	17	3.7	24	
11	14	11	14	12	6	IZS	11	2	15	12	36	58	55	64	46	55	60	62	71	82	68	73	161	200	200	51.7	24	
12	120	47	8	14	18	IZS	22	14	5	6	9	4	7	5	3	3	2	1	1	1	0	6	5	39	120	14.8	24	
13	37	128	5	4	0	IZS	2	1	1	1	1	2	2	3	2	0	0	0	0	0	0	0	0	0	128	8.2	24	
14	0	0	0	0	0	IZS	0	0	0	0	0	0	0	76	90	13	17	3	5	5	0	2	1	0	90	9.2	24	
15	0	0	0	0	0	IZS	2	1	0	0	0	0	12	1	7	11	9	3	12	17	33	90	184	122	184	21.9	24	
16	214	246	138	263	302	IZS	29	359	295	214	343	210	123	8	76	103	69	97	139	164	172	145	130	107	359	171.6	24	
17	111	0	0	0	0	IZS	0	34	67	44	23	2	54	2	1	2	4	3	0	0	0	1	0	0	111	15.1	24	
18	0	0	0	0	0	IZS	2	1	4	0	1	0	0	0	3	15	5	3	8	9	6	4	1	14	15	3.3	24	
19	20	81	46	73	106	IZS	15	48	157	85	187	316	128	163	76	34	65	211	87	82	67	52	63	42	316	95.8	24	
20	31	17	14	16	14	IZS	13	5	3	2	7	2	2	1	0	1	2	4	2	1	0	3	6	1	31	6.4	24	
21	6	0	0	0	0	IZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0.3	24	
22	0	0	0	0	0	IZS	0	0	0	0	0	0	0	0	1	0	2	0	2	0	0	0	0	0	2	0.2	24	
23	1	0	0	0	1	IZS	6	3	2	7	28	62	33	12	17	40	30	64	161	76	70	92	104	51	161	37.4	24	
24	67	61	93	41	44	IZS	21	32	30	39	66	32	72	11	19	13	61	37	33	17	12	16	28	5	93	37.0	24	
25	5	2	0	0	14	IZS	0	2	0	17	11	18	38	12	7	11	33	28	29	36	45	26	20	31	45	16.7	24	
26	19	15	5	26	14	IZS	50	45	13	6	2	4	3	3	1	1	3	0	7	0	2	0	0	0	50	9.5	24	
27	0	0	0	0	0	IZS	0	0	2	7	5	8	4	1	0	0	2	1	0	0	0	6	0	5	8	1.8	24	
28	3	1	0	2	0	IZS	5	1	6	5	6	0	8	26	14	3	13	27	22	68	130	29	26	32	130	18.6	24	
29	8	55	56	30	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	56	37.3	4	
30	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
31	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
HOURLY MAX	214	246	174	263	302	NA	248	359	295	214	343	316	128	163	90	114	73	211	192	164	172	145	184	200				
HOURLY AVG	30.4	28.6	22.4	27.2	30.9	NA	21.2	29.8	38.2	32.1	37.2	33.6	22.5	16.5	16.7	19.1	18.3	27.1	34.4	24.4	25.3	26.8	36.9	30.3				

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

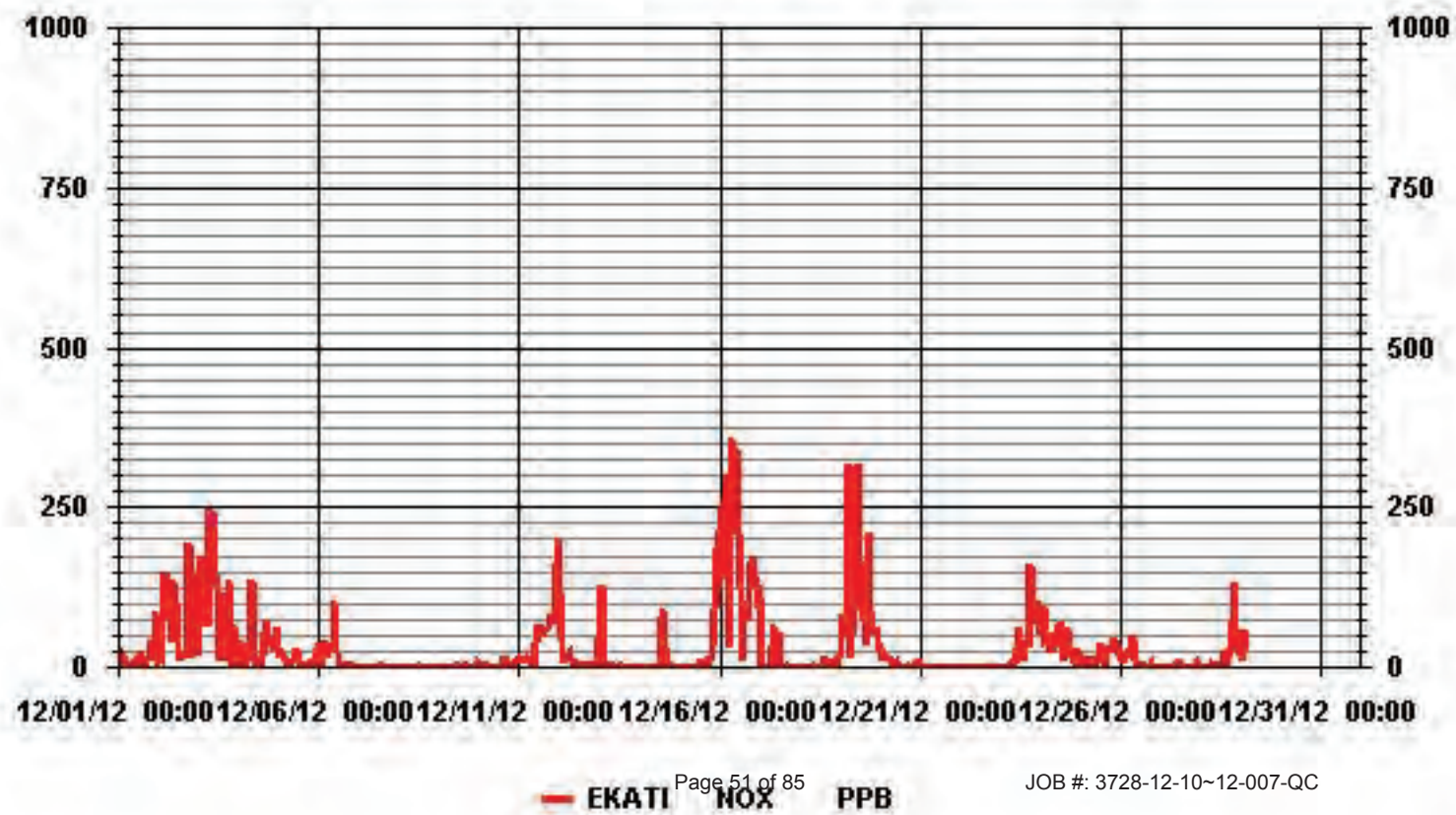
24 HOUR AVERAGES FOR DECEMBER 2012

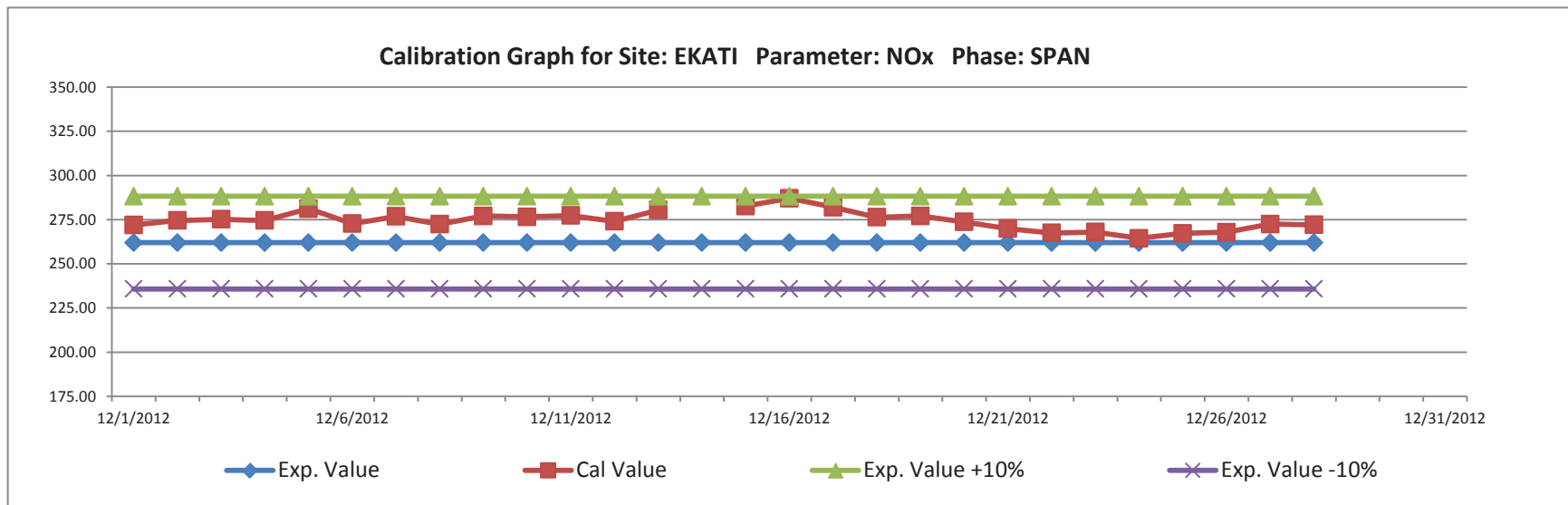


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	458				
MAXIMUM 1-HR AVERAGE:	359	PPB	@ HOUR(S)	7	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	171.6	PPB			ON DAY(S)
IZS CALIBRATION TIME:	28	HRS	OPERATIONAL TIME:	676	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	90.9	%
STANDARD DEVIATION:	51.65		MONTHLY AVERAGE:	27.38	PPB

01 Hour Averages





Particulate Matter 2.5

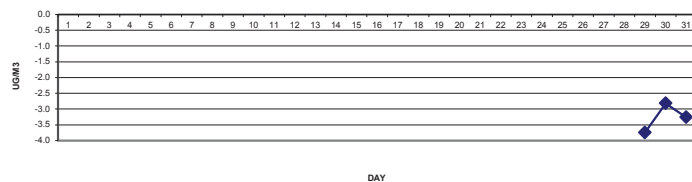
BHP Billiton Diamonds Inc. - EKATI
OCTOBER 2012
PARTICULATE MATTER (PM2.5) hourly averages in UG/M3

MST																										DAILY 14-HOUR				
HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	MAX.	AVG.	RDGS.	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00					
DAY																														
1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
2	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
3	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
4	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
5	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
6	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
7	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
8	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
9	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
10	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
11	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
12	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
13	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
14	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
15	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
16	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
17	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
18	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
19	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
21	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
22	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
23	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
24	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
25	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
26	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
27	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
28	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
29	N	N	N	N	N	N	N	N	N	N	N	N	N	M	-3	M	M	M	-5	-5	-5	-3	-3	-3	-3	-3	-3	-3	-3.8	8
30	-2	-5	-5	-4	-5	-5	-5	-5	-4	-5	-5	-3	4	10	7	0	-5	C	C	-5	-5	-5	-5	-5	-5	-5	10	-2.8	24	
31	-3	-4	-5	-3	-5	-4	-5	-5	-4	-1	0	0	C	-3	-4	1	3	-3	-5	-5	-5	-5	-5	-5	-5	-5	3	-3.3	24	
HOURLY MAX	-2	-4	-5	-3	-5	-4	-5	-5	-4	-1	0	0	4	10	7	1	3	-3	-5	-5	-5	-3	-3	-3	-3	-3				
HOURLY AVG	-2.5	-4.5	-5.0	-3.5	-5.0	-4.5	-5.0	-5.0	-4.0	-3.0	-2.5	-1.5	4.0	1.3	1.5	0.5	-1.0	-4.0	-5.0	-5.0	-4.3	-4.3	-4.3	-4.3	-4.3	-4.3				

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

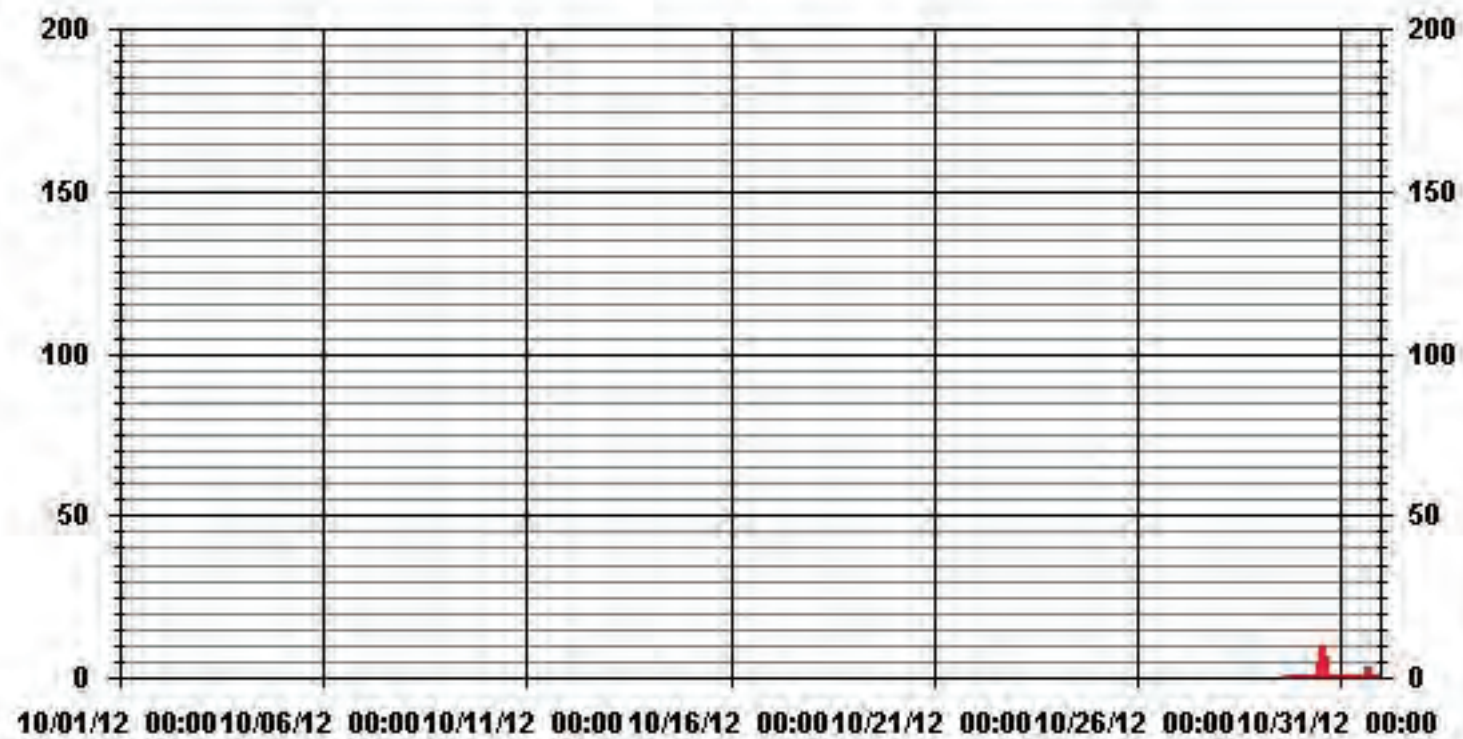
24 HOUR AVERAGES FOR OCTOBER 2012



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	5				
MAXIMUM 1-HR AVERAGE:	10	ug/m ³	@ HOUR(S)	13	ON DAY(S) 30
MAXIMUM 24-HR AVERAGE:	-2.8	ug/m ³			ON DAY(S) 30
IZS CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	56	HRS
MONTHLY CALIBRATION TIME:	3	HRS	AMD OPERATION UPTIME:	7.5	%
STANDARD DEVIATION:	3.12		MONTHLY AVERAGE:	-3.07	UG/M3

01 Hour Averages



— EKATI PM25 UG/M3

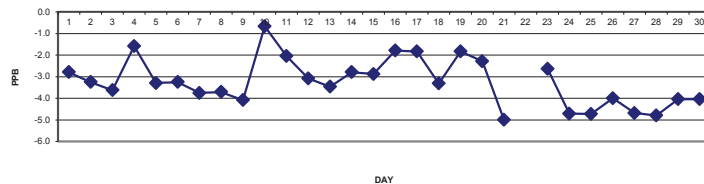
BHP Billiton Diamonds Inc. - EKATI
NOVEMBER 2012
PARTICULATE MATTER (PM2.5) hourly averages in UG/M3

MST																									DAILY 24-HOUR					
HOURLY START	HOURLY END	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY	DAY	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00				
1		-3	-4	-3	-2	-2	-3	-4	-4	-5	-2	-3	-4	-4	-4	-3	0	-1	-3	-3	-1	-1	-3	-4	-1	0	-2.8	24		
2		-4	-3	0	-4	-5	-2	-2	-3	-4	-2	-2	-5	-5	-4	-2	-1	-2	-3	-3	-4	-5	-5	-5	-3	0	-3.3	24		
3		-5	-5	-5	-5	-5	-5	-5	-4	-5	-5	-5	-4	-2	0	-1	-2	-1	-2	-4	-5	-3	-4	-2	-3	0	-3.6	24		
4		-5	-3	-3	-3	0	-2	-1	-1	0	1	0	3	5	1	-4	-4	-3	-4	-3	-2	0	0	-5	-5	5	-1.6	24		
5		-5	-5	-5	0	0	-3	-1	0	-4	-5	0	-2	-5	-3	-4	-5	-3	-4	-3	-4	-5	-5	-5	-3	0	-3.3	24		
6		-1	-2	-1	-4	-4	-2	-4	-5	-5	-5	-3	-4	-5	-2	-3	-5	-5	-5	-5	-3	-2	-2	-1	0	0	-3.3	24		
7		0	-1	-2	-4	-5	-5	-5	-5	-5	-5	-5	-5	-5	-4	-2	-3	-5	-4	-2	-5	-5	-2	-2	-4	0	-3.8	24		
8		-1	-3	-5	-3	-5	-5	-4	-4	-2	-1	-2	-4	-5	-4	-5	-4	-1	-5	-5	-5	-4	-4	-5	-3	-1	-3.7	24		
9		-2	-2	-2	-3	-5	-5	-5	-5	-4	-4	-4	-4	-5	-5	-4	-5	-5	-3	-5	-5	-4	-2	-5	-5	-2	-4.1	24		
10		-5	-5	-5	-5	-3	-2	0	1	2	-2	-1	1	-1	-2	0	3	2	3	1	-2	-1	0	1	4	4	-0.7	24		
11		3	0	-2	-4	-5	-5	-2	-2	-4	-3	-3	-3	-3	-3	-1	-1	-1	-2	0	-2	-4	-4	1	3	3	-2.0	24		
12		0	0	-2	-2	-1	-2	-3	-4	-3	-3	-3	-2	-2	-4	-5	-5	-3	-4	-5	-5	-2	-4	-5	-5	0	-3.1	24		
13		-1	0	-5	-5	-3	-3	-4	-2	-2	-4	-3	-2	-4	-5	-5	-5	-5	-5	-4	-3	-2	-3	-5	-3	0	-3.5	24		
14		1	2	-2	-3	0	-2	-4	-4	-4	-3	-4	-5	-5	-5	-4	-3	-4	-3	-3	-5	-4	-1	-1	-1	2	-2.8	24		
15		0	1	-1	-5	-2	1	-3	-4	-4	-5	-5	-4	-5	-5	-4	-3	-2	0	0	-3	-5	-5	-3	-3	1	-2.9	24		
16		-4	-1	1	0	-3	-2	-3	-5	-4	-2	-1	1	-2	-5	-4	-3	0	0	0	1	-1	0	-2	-4	1	-1.8	24		
17		-3	-3	-4	-4	-3	-2	-3	-5	-1	-1	-4	0	1	0	1	-1	-3	1	1	-1	-1	-4	-4	-1	1	-1.8	24		
18		-2	-5	-2	-2	-5	-5	-2	0	-3	-4	-3	-5	-5	-4	-4	-4	-3	-3	-2	N	N	N	N	N	0	-3.3	19		
19		-3	-5	-5	-5	-3	-1	0	-1	-3	-4	-3	-2	1	4	1	-3	-2	-1	-1	-1	1	-3	-4	-1	4	-1.8	24		
20		0	-1	-2	-1	-2	-2	-1	-3	-3	-4	-4	-4	-5	-3	-1	-1	N	N	N	-4	-2	-1	-1	-3	0	-2.3	21		
21		-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-5	-5.0	10		
22		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	0			
23		N	N	N	N	N	N	N	N	N	N	N	N	N	-3	-2	-2	-2	-4	0	0	-2	-4	-5	-5	0	-2.6	11		
24		-5	-5	-4	-3	-5	-5	-5	-5	-5	-5	-5	-5	-5	-3	-3	-5	-5	-5	-5	-5	-5	-5	-5	-5	-3	-4.7	24		
25		-5	-5	-5	-5	-5	-5	-5	-5	-4	-1	-5	-5	-5	N	N	-5	-5	-5	-5	-5	-5	-5	-4	-5	-1	-4.7	22		
26		-5	-3	-1	-2	-3	-5	-5	-4	-2	-2	N	N	N	-5	-5	-5	-3	-5	-4	-5	-5	-5	-5	-5	-1	-4.0	21		
27		-5	-4	-5	-4	-4	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-3	N	N	-5	-5	-5	-5	-3	-3	-4.7	22		
28		-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-4	-5	-5	-3	-3	-5	-5	-5	-5	-5	-5	-5	-3	-4.8	24		
29		-3	-4	-5	-5	-4	-5	-3	-5	-5	-4	-5	-5	-5	-3	-3	-2	0	-1	-5	-5	-5	-5	-5	-5	0	-4.0	24		
30		-4	-5	-4	-2	-4	-5	-5	-5	-4	-5	-5	-5	-5	3	2	-5	-5	-5	-5	-5	-5	-4	-5	-5	3	-4.0	24		
HOURLY MAX		3	2	1	0	0	1	0	1	2	1	0	3	5	4	2	3	2	3	1	1	1	0	1	4					
HOURLY AVG		-2.8	-2.9	-3.2	-3.4	-3.4	-3.5	-3.5	-3.5	-3.4	-3.4	-3.4	-3.2	-3.5	-2.9	-2.8	-3.1	-2.7	-3.0	-2.9	-3.5	-3.2	-3.3	-3.6	-2.9					

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

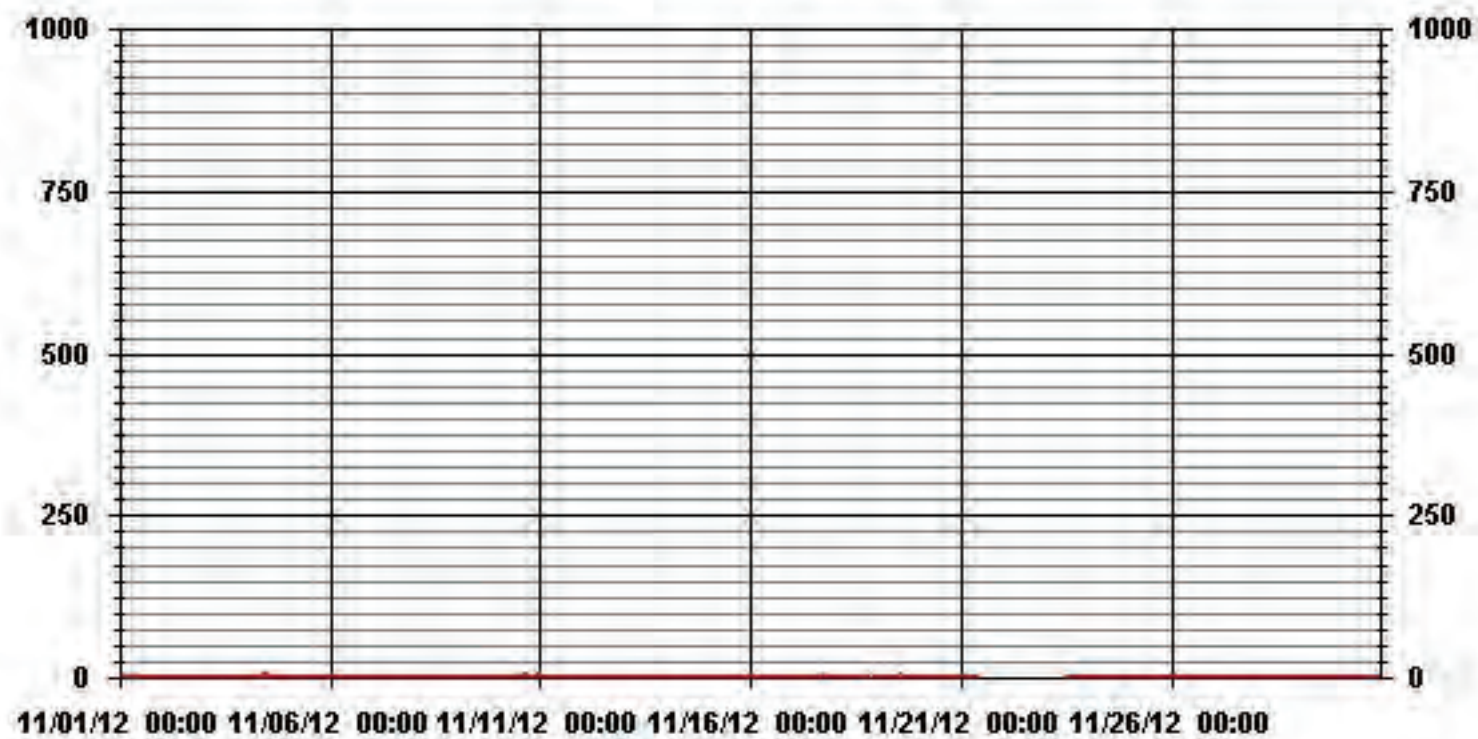
24 HOUR AVERAGES FOR NOVEMBER 2012



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:		33				
MAXIMUM 1-HR AVERAGE:	5	ug/m ³	@ HOUR(S)	12	ON DAY(S)	4
MAXIMUM 24-HR AVERAGE:	-0.7	ug/m ³			ON DAY(S)	10
IZS CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	654	HRS	
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	90.8	%	
STANDARD DEVIATION:	1.96		MONTHLY AVERAGE:	-3.04	UG/M3	

01 Hour Averages



— EKATI PM25 UG/M3

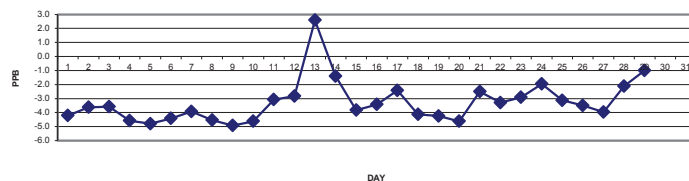
BHP Billiton Diamonds Inc. - EKATI
DECEMBER 2012
PARTICULATE MATTER (PM2.5) hourly averages in UG/M3

MST																										DAILY 24-HOUR		
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MAX	AVG	RDGS	
1	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	0	-2	-4	-5	-5	-5	-5	-3	-5	-2	0	0	-4.2	24		
2	-3	-3	-5	-4	-3	-2	-1	0	-1	-5	-2	-1	-5	-5	-5	-5	-5	-5	-5	-5	-5	-3	-4	0	-3.6	24		
3	-5	-3	-1	-2	-5	-5	-5	-5	-3	-2	-2	-4	-5	-4	-5	-5	-4	-2	1	0	-5	-5	-5	1	-3.6	24		
4	-5	-5	-5	-2	-5	-5	-5	-3	-4	-5	-5	-5	-3	-5	-5	-5	-4	-5	-5	-5	-5	-5	-4	-2	-4.6	24		
5	-4	-4	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-3	-4	-5	-5	-5	-5	-5	-5	-5	-5	-5	-3	-4.8	24		
6	-5	-3	0	-3	-5	-5	-5	-5	-5	-5	-4	-5	-5	-5	-5	-5	-5	-5	-5	-2	-4	-5	-5	0	-4.4	24		
7	-5	-5	-4	-2	-4	-4	-3	-4	-5	-5	-5	-5	-5	-5	-4	-1	-1	-3	-4	-2	-5	-5	-3	-1	-3.9	24		
8	-4	-2	-4	-5	-5	-5	-4	-4	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-3	-5	-5	-3	-2	-4.5	24		
9	-3	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-3	-4.9	24		
10	-5	-3	-3	-4	-5	-5	-5	-5	-5	-5	-5	-5	-4	-5	-5	-5	-5	-5	-3	-5	-5	-5	-5	-3	-4.6	24		
11	-5	-4	-3	-5	-5	-5	-5	-5	-5	-5	-5	-4	-2	-5	-2	0	0	-2	-5	-3	-1	0	0	2	2	-3.1	24	
12	4	1	-2	-3	-1	-2	-4	-3	-3	-5	-5	-5	-3	-2	-3	-4	-5	-5	-5	-4	-3	-2	-1	-3	4	-2.8	24	
13	-4	-5	-4	-2	-4	-4	-3	-5	-5	-4	-5	-5	-5	-6	-4	-2	1	1	-3	-4	-3	-6	144	-1	144	2.6	24	
14	-7	-7	-5	-2	0	6	7	2	0	-1	-3	-2	-2	-6	-6	3	4	-1	2	-1	-3	-5	-5	-2	7	-1.4	24	
15	-3	-5	-5	-5	-5	-5	-5	-2	-1	-3	-5	-2	-4	-5	-2	-4	-5	-5	-5	-5	-5	-5	0	-1	0	-3.8	24	
16	-5	-5	-3	-1	-3	-5	-5	-5	-5	-5	-5	-4	-2	-3	-2	-1	-2	-4	-4	-1	-3	-5	-3	-1	-1	-3.4	24	
17	-4	-5	-3	-1	-1	-3	-4	-2	-3	-4	-2	-2	-4	-5	-5	-3	-4	-3	-2	-3	1	6	2	-4	6	-2.4	24	
18	-4	-4	-4	-3	-1	-1	-3	-5	-5	-3	-5	-5	-5	-5	-5	-3	-3	-5	-5	-5	-5	-5	-5	-1	-4.1	24		
19	-5	-5	-5	-5	-5	-3	1	-3	-5	-5	-5	-5	-4	-5	-4	-5	-5	-5	-3	-5	-4	-3	-5	1	-4.3	24		
20	-4	-5	-5	-3	-5	-5	-4	-5	-5	-5	-5	-5	-3	-3	-5	-5	-4	-5	-5	-5	-5	-5	-5	-3	-4.6	24		
21	-5	-5	-3	-5	-5	-4	-4	-5	-4	-3	-1	1	0	-2	-2	1	N	N	-1	-2	1	-1	-3	1	-2.5	22		
22	-3	-3	-3	-3	-3	-2	-3	-3	-3	-3	-2	-5	-3	-1	0	0	-5	-5	-4	-5	-5	-5	-5	0	-3.3	24		
23	-5	-5	-4	-3	-5	-5	-3	-3	-4	-4	-5	-5	-5	-2	-2	0	-2	-3	-5	-1	2	0	-3	0	2	-2.9	24	
24	-1	-1	-2	-3	0	0	-2	-1	1	0	-1	-2	-1	-5	-5	-2	-3	-3	-2	-2	-1	-3	-4	-4	1	-2.0	24	
25	-4	-5	-3	-4	-2	-2	-5	-4	-1	-3	-4	-3	-5	-5	-4	-2	-2	-3	-4	-5	-4	-1	-1	1	1	-3.1	24	
26	2	1	-3	-5	-5	-4	-5	-5	-2	-1	-3	-5	-5	-5	-4	-2	-4	-5	-5	-5	-4	-3	-2	-5	2	-3.5	24	
27	-5	-3	-4	-4	-4	-5	-5	-5	-3	-2	-3	-5	-5	-5	-4	-4	-5	-4	-2	-3	-5	-3	-2	-5	-2	-4.0	24	
28	-5	-4	-3	-3	-5	-4	-5	-5	-1	-2	-3	-2	-3	-2	-1	-3	-4	-4	5	5	-1	1	-1	-1	5	-2.1	24	
29	1	-2	-4	1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	1	-1.0	4	
30	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		0		
31	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		0		
HOURLY MAX	4	1	0	1	0	6	7	2	1	0	-1	1	0	0	0	3	4	1	5	5	1	6	144	2				
HOURLY AVG	-3.7	-3.8	-3.6	-3.3	-3.8	-3.5	-3.6	-3.8	-3.5	-3.8	-3.9	-3.9	-3.9	-4.0	-3.7	-3.0	-3.6	-3.9	-3.4	-3.2	-3.1	-3.5	2.2	-3.0				

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

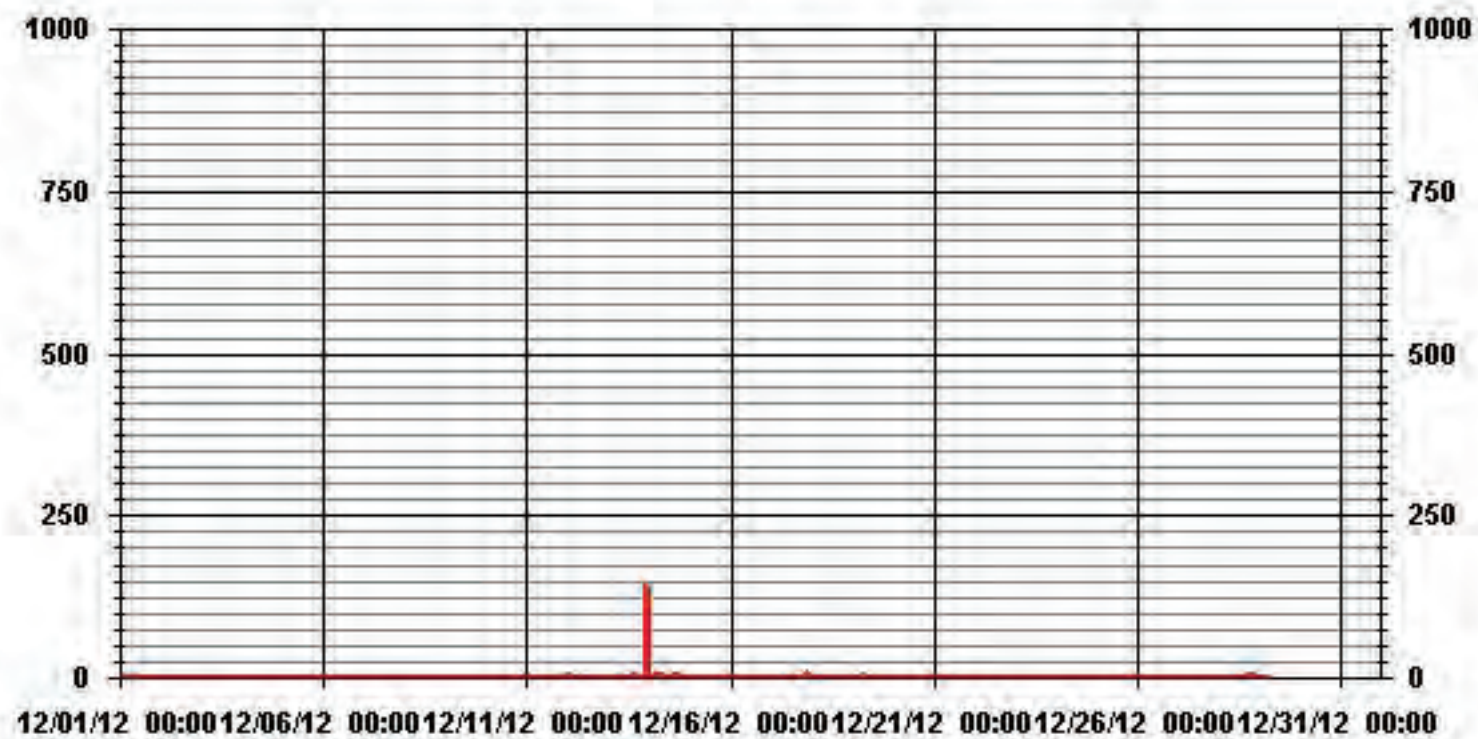
24 HOUR AVERAGES FOR DECEMBER 2012



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	31			
MAXIMUM 1-HR AVERAGE:	144	ug/m ³	@ HOUR(S)	22 ON DAY(S) 13
MAXIMUM 24-HR AVERAGE:	2.6	ug/m ³		ON DAY(S) 13
IZS CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	674 HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	90.6 %
STANDARD DEVIATION:	6.01		MONTHLY AVERAGE:	-3.3 UG/M3

01 Hour Averages



— EKATI PM25 UG/M3

Total Suspended Particulate

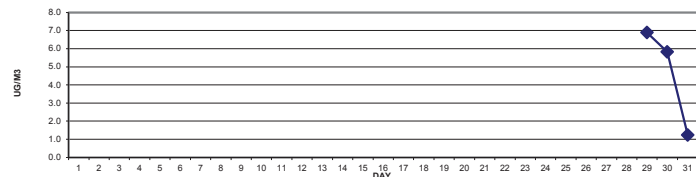
BHP Billiton Diamonds Inc. - EKATI
OCTOBER 2012
TOTAL SUSPENDED PARTICULATES (TSP) hourly averages in UG/M3

MST		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR START	HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																												
1		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
2		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
3		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
4		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
5		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
6		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
7		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
8		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
9		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
10		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
11		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
12		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
13		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
14		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
15		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
16		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
17		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
18		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
19		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
20		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
21		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
22		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
23		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
24		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
25		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
26		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
27		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
28		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0
29		N	N	N	N	N	N	N	N	N	N	N	N	8	6	M	M	M	5	7	5	6	6	8	11	11	6.9	9
30		21	12	17	8	5	0	-1	6	9	6	5	5	9	M	M	13	11	4	1	3	3	-2	-5	-2	21	5.8	22
31		0	1	0	1	1	0	-1	-2	-1	0	2	3	C	C	2	3	6	4	2	3	5	2	-2	-2	6	1.2	24
HOURLY MAX		21	12	17	8	5	0	-1	6	9	6	5	5	9	6	2	13	11	5	7	5	6	6	8	11			
HOURLY AVG		10.5	6.5	8.5	4.5	3.0	0.0	-1.0	2.0	4.0	3.0	3.5	4.0	8.5	6.0	2.0	8.0	8.5	4.3	3.3	3.7	4.7	2.0	0.3	2.3			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

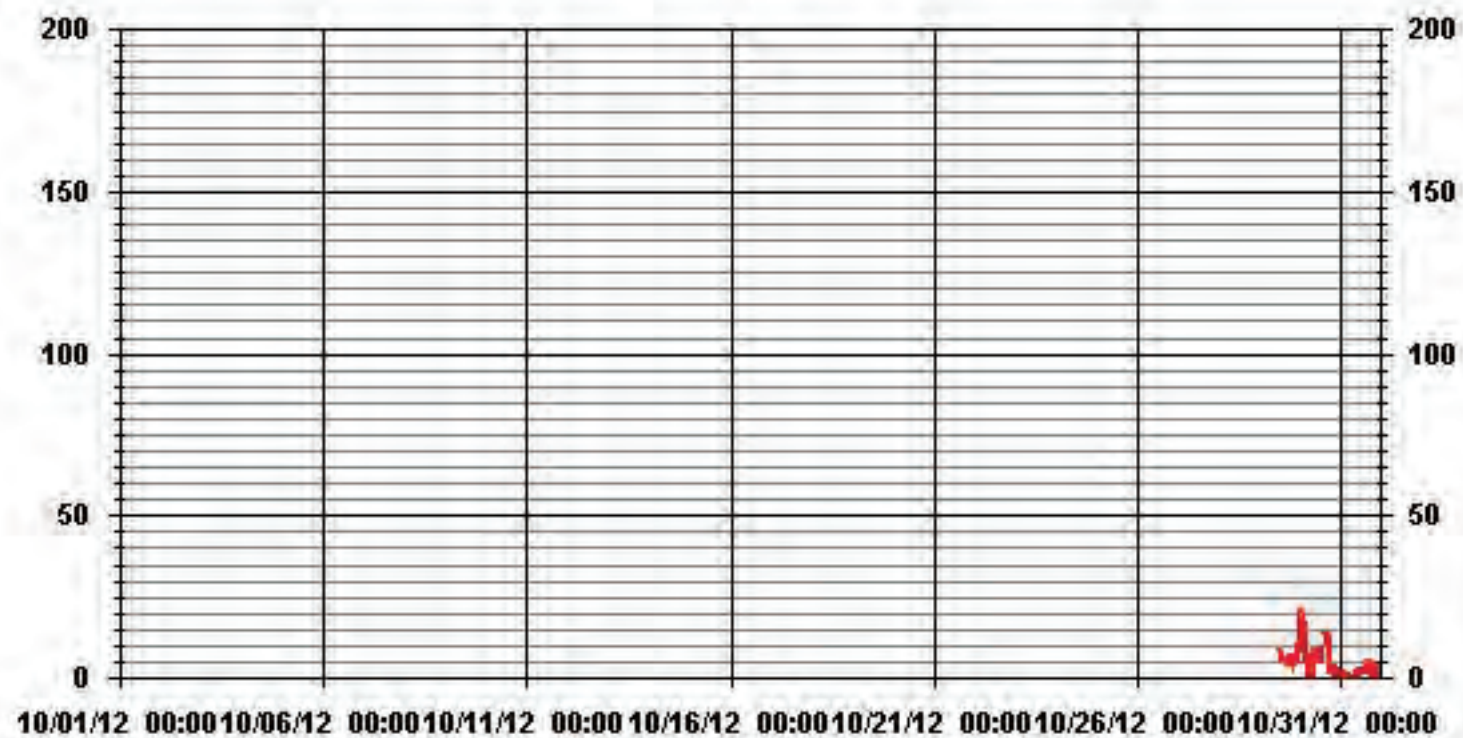
24 HOUR AVERAGES FOR OCTOBER 2012



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	39				
MAXIMUM 1-HR AVERAGE:	21	ug/m ³	@ HOUR(S)	0	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	6.9	ug/m ³			ON DAY(S)
IZS CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	55	HRS
MONTHLY CALIBRATION TIME:	2	HRS	AMD OPERATION UPTIME:	7.4	%
STANDARD DEVIATION:	4.97		MONTHLY AVERAGE:	4.09	ug/m3

01 Hour Averages



— EKATI TSP UG/M3

BHP Billiton Diamonds Inc. - EKATI
NOVEMBER 2012
TOTAL SUSPENDED PARTICULATES (TSP) hourly averages in UG/M3

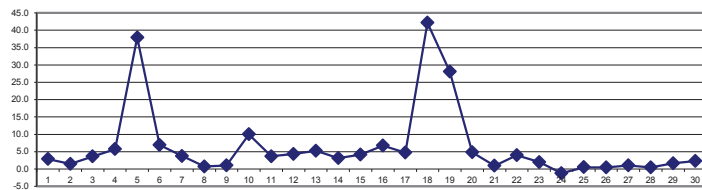
MST

DAY	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	DAILY MAX.	24-HOUR AVG.	RDGS.
1	2	6	5	4	3	1	-1	-2	-3	-1	1	5	5	6	7	7	5	1	2	3	2	3	3	5	7	2.9	24
2	6	5	3	2	1	0	-2	1	1	0	-1	-2	0	-1	1	3	0	2	8	9	3	-1	-1	9	1.5	24	
3	-4	-2	2	0	0	0	-3	-2	2	4	4	5	4	3	4	9	16	9	5	5	9	6	5	6	16	3.6	24
4	4	5	17	7	3	2	5	4	4	2	6	9	7	6	4	5	8	5	4	7	8	7	4	4	17	5.7	24
5	5	5	8	6	5	19	28	25	31	44	64	77	62	43	48	78	67	57	78	37	26	32	38	26	78	37.9	24
6	14	10	5	8	16	9	7	9	10	7	8	9	6	6	3	2	5	3	5	6	6	5	3	4	16	6.9	24
7	3	3	8	6	3	3	2	6	7	6	10	14	4	-1	3	3	1	2	3	2	0	2	1	-1	14	3.8	24
8	0	2	1	0	2	0	-2	-1	3	3	-1	-2	0	2	3	2	0	2	2	1	1	-1	-1	1	3	0.7	24
9	-2	-2	2	2	3	3	3	2	1	3	4	3	4	5	3	-1	1	1	-4	-2	-3	-4	-1	4	5	1.0	24
10	15	0	2	5	15	12	7	2	3	3	15	15	25	17	14	14	11	10	15	6	5	7	11	11	25	10.0	24
11	9	8	5	2	2	2	2	-1	-3	0	2	2	5	7	6	5	1	-1	1	1	3	14	9	7	14	3.7	24
12	8	8	7	6	4	7	8	3	2	4	7	8	6	4	4	4	2	3	5	3	0	-2	0	2	8	4.3	24
13	0	0	1	3	4	3	5	6	6	7	8	7	9	16	14	13	6	1	2	4	2	-3	3	9	16	5.3	24
14	10	9	7	7	3	0	0	0	2	3	2	1	0	2	5	7	4	2	2	3	3	3	1	0	10	3.2	24
15	2	2	1	1	1	0	4	6	5	4	3	3	4	4	7	8	5	5	4	7	7	5	6	5	8	4.1	24
16	4	3	6	10	7	6	7	7	6	6	6	6	4	5	8	10	9	8	7	7	7	8	8	6	10	6.7	24
17	7	6	6	5	4	6	6	3	1	6	9	6	5	5	3	3	3	2	4	4	4	4	4	7	9	4.7	24
18	9	9	7	5	5	21	15	12	11	11	17	16	16	90	92	80	54	59	87	76	75	89	81	74	92	42.1	24
19	66	52	65	47	44	38	26	30	19	27	28	27	21	30	22	23	24	20	19	10	9	8	9	9	66	28.0	24
20	8	9	8	4	2	4	6	6	3	3	3	1	2	4	8	8	8	5	1	5	5	5	5	3	9	4.8	24
21	1	0	1	1	3	4	1	-2	0	2	4	3	1	3	4	6	2	-2	-3	-3	0	-1	-3	1	6	1.0	24
22	5	5	5	4	3	2	2	3	0	1	7	16	6	1	1	5	5	7	7	3	1	2	2	2	16	4.0	24
23	2	1	-1	-2	-1	-2	0	1	2	0	0	3	10	7	4	0	2	6	4	4	1	0	4	3	10	2.0	24
24	0	1	2	0	-3	-5	-3	-1	-1	-1	-1	-1	-1	-2	-2	-3	-4	-2	-1	-1	0	0	0	0	2	-1.2	24
25	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4	2	-2	-2	2	3	2	-1	-2	4	0.5	24
26	0	0	2	2	0	1	-1	-3	-2	N	N	N	-3	0	3	0	-2	2	3	1	0	3	3	0	3	0.4	21
27	0	0	-1	0	1	2	2	2	3	3	1	2	0	-3	-1	-1	0	0	3	3	2	3	2	3	2	1.0	24
28	3	3	-1	-3	-2	-5	-5	-2	-2	-2	-1	1	2	-2	-1	2	2	4	4	2	5	4	2	2	5	0.4	24
29	3	6	1	1	2	1	4	5	4	0	-3	-3	3	3	0	4	7	4	-1	-3	1	1	0	-1	7	1.6	24
30	0	4	3	0	0	2	1	-2	1	3	4	6	6	5	3	2	3	5	4	1	1	0	1	3	6	2.3	24
HOURLY MAX	66	52	65	47	44	38	28	30	31	44	64	77	62	90	92	80	67	59	87	76	75	89	81	74			
HOURLY AVG	6.0	5.3	5.9	4.4	4.3	4.5	4.1	3.9	3.9	5.1	7.1	8.2	7.1	8.9	9.1	10.0	8.4	7.2	8.6	6.7	6.4	6.8	6.6	6.4			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

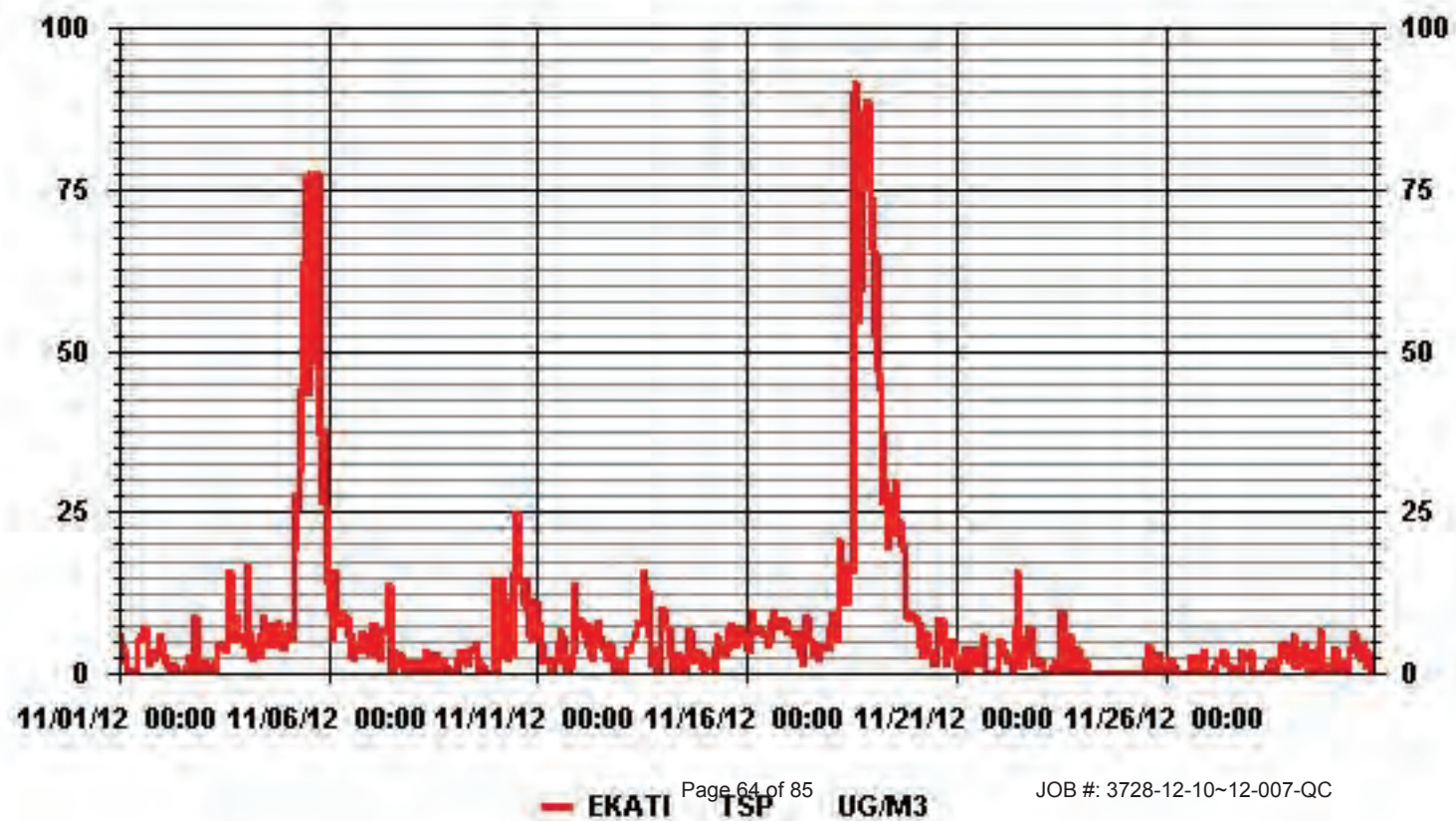
24 HOUR AVERAGES FOR NOVEMBER 2012



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:		552				
MAXIMUM 1-HR AVERAGE:	92	ug/m ³	@ HOUR(S)	14	ON DAY(S)	18
MAXIMUM 24-HR AVERAGE:	42.1	ug/m ³			ON DAY(S)	18
IZS CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	717	HRS	
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	99.6	%	
STANDARD DEVIATION:	13.44		MONTHLY AVERAGE:	6.46	ug/m ³	

01 Hour Averages



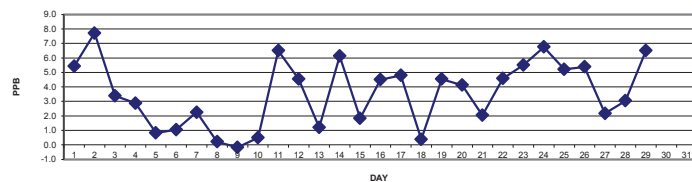
BHP Billiton Diamonds Inc. - EKATI
DECEMBER 2012
TOTAL SUSPENDED PARTICULATES (TSP) hourly averages in UG/M3

MST																								DAILY	24-HOUR			
HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
DAY																												
1	3	3	4	5	4	3	2	1	3	5	6	6	1	1	8	10	5	5	3	5	8	6	21	12	21	5.4	24	
2	9	8	8	7	9	16	10	20	15	14	15	14	10	4	4	3	3	5	4	-1	0	2	3	20	7.7	24		
3	3	5	6	3	5	7	4	4	8	4	2	4	5	7	6	1	1	2	0	0	1	2	0	1	8	3.4	24	
4	4	1	3	7	6	5	5	1	0	3	3	4	4	0	-2	-1	5	6	0	3	5	2	3	2	7	2.9	24	
5	1	4	3	1	-2	-4	-3	-1	-1	5	6	1	0	1	0	0	2	1	-1	-2	0	4	4	1	6	0.8	24	
6	0	0	3	3	1	5	3	1	0	2	6	5	5	2	-2	-3	-2	-1	-1	-1	0	0	-1	0	6	1.0	24	
7	-1	-1	1	0	0	4	5	3	2	2	1	2	4	5	4	3	3	6	3	0	1	1	2	4	6	2.3	24	
8	5	4	2	0	1	0	0	2	-1	0	-1	-4	-3	-1	-4	0	-1	-3	-1	1	2	5	4	-2	5	0.2	24	
9	-2	0	0	0	-2	-1	-1	-2	-2	-1	1	0	-1	-1	-1	0	2	2	1	2	3	1	0	-2	3	-0.2	24	
10	-1	3	4	3	1	0	0	1	2	1	0	0	1	1	0	-2	0	3	2	0	-1	1	-2	-5	4	0.5	24	
11	-3	-1	-2	2	4	4	2	1	1	0	-3	18	8	7	8	9	9	9	10	11	17	12	15	18	18	6.5	24	
12	21	13	9	4	5	5	4	5	2	2	7	5	1	1	3	3	3	3	2	2	5	4	0	0	21	4.5	24	
13	3	4	4	3	1	1	0	-2	-4	-5	-4	-3	-3	-1	6	13	8	6	3	0	0	1	1	13	1.2	24		
14	-2	-2	2	6	15	14	11	10	8	4	3	0	2	2	3	19	4	20	8	5	4	5	3	3	20	6.1	24	
15	4	4	4	2	2	2	0	0	1	1	1	0	-2	-2	2	2	-1	2	2	-2	0	5	7	10	10	1.8	24	
16	7	2	3	5	5	5	3	3	8	9	5	7	5	3	2	1	3	6	6	5	3	1	4	7	9	4.5	24	
17	7	8	7	8	9	11	10	9	5	3	16	12	8	1	1	3	1	1	-1	-1	0	-1	-2	0	16	4.8	24	
18	4	2	-2	-3	1	2	2	1	2	0	-1	1	-1	-2	0	1	4	4	2	0	-2	-1	-1	-4	4	0.4	24	
19	0	2	15	1	2	7	11	7	0	2	3	0	5	11	9	6	5	4	5	4	1	3	3	3	15	4.5	24	
20	6	6	8	6	-1	1	2	3	5	3	6	7	8	11	9	5	3	4	6	2	-2	-2	0	3	11	4.1	24	
21	3	3	2	0	-1	-1	0	2	-1	-1	-2	-3	2	2	1	4	4	5	6	4	5	6	4	5	6	2.0	24	
22	5	3	3	7	8	7	8	8	8	7	7	4	5	6	4	3	3	2	1	2	3	3	2	1	8	4.6	24	
23	0	1	2	4	5	3	2	1	2	4	2	3	7	8	9	9	8	7	9	12	8	7	9	10	12	5.5	24	
24	8	9	11	7	3	6	9	6	6	5	4	6	7	7	8	5	3	9	12	8	4	4	6	9	12	6.8	24	
25	7	3	2	0	1	4	2	3	4	3	15	5	7	11	7	2	2	5	7	7	7	6	8	7	15	5.2	24	
26	17	10	8	3	3	6	6	15	12	9	4	3	5	4	3	2	4	4	1	2	3	2	0	3	17	5.4	24	
27	5	3	3	6	4	2	2	0	2	4	2	3	3	1	2	0	0	3	3	1	1	1	1	0	6	2.2	24	
28	2	7	7	3	1	3	3	0	0	3	3	3	4	1	1	5	5	0	0	2	7	7	3	3	7	3.0	24	
29	5	8	6	7	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	8	6.5	4	
30	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
31	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N			0	
HOURLY MAX	21	13	15	8	15	16	11	20	15	14	16	18	10	11	9	19	13	20	12	12	17	12	21	18				
HOURLY AVG	4.1	3.9	4.3	3.4	3.2	4.2	3.6	3.6	3.1	3.1	3.8	3.7	3.5	3.1	3.0	3.4	3.3	4.3	3.4	2.8	2.9	3.0	3.4	3.3				

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

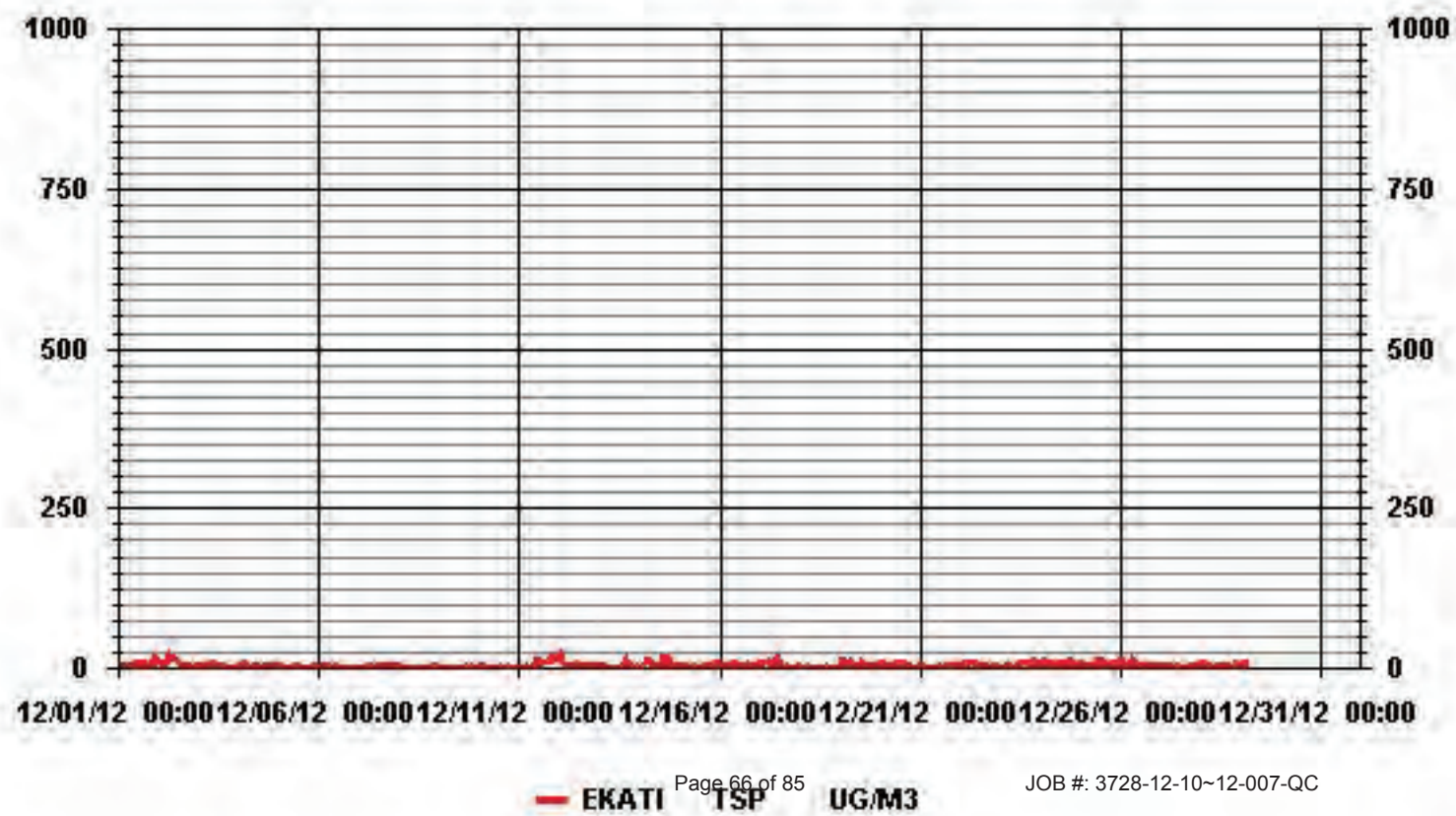
24 HOUR AVERAGES FOR DECEMBER 2012



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	520				
MAXIMUM 1-HR AVERAGE:	21	ug/m ³	@ HOUR(S)	22	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	7.7	ug/m ³			ON DAY(S)
IZS CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	676	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	90.9	%
STANDARD DEVIATION:	4.08		MONTHLY AVERAGE:	3.49	ug/m3

01 Hour Averages



Calibration Reports

Sulphur Dioxide

SO2 Calibration Report

Station Information

Calibration Date	October 29, 2012	Previous Calibration	June 21, 2012
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	9:45	End Time (MST)	11:30
Reason:	AS FOUND		
Barometric Pressure	28.46	inHg	Station Temperature 17 Deg C
Cal Gas	48.4	ppm	Gas Cyl. # LL105149 Cal Gas Expiry date September 13, 2013
DAS Output Voltage	0-5	Volts	Chart Rec. Output NA Volts

Equipment Information

Analyzer Make / Model:	API 100E	S/N :	1232	Method:	Fluorescent
Converter Make / Model:	NA	S/N :	NA		
Calibrator Make / Model:	EnviroNics 6100	S/N :	5212	Method:	Dilution
DAS Make / Model:	Envivas/ADAM 5000	S/N :	NA		
Chart Recorder Make / Model:	NA	S/N:	NA		
Flow Meter:		S/N :			

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range	0-500ppb			ppb			
Sample Flow / Box Temp	656	ccm	26.8	Deg C	633	ccm	41
HVPS / Lamp Setting	575	24832(91%)			575	2850(91.7%)	
PMT / RxCell Temp	8.2	Deg C	50	Deg C	8.3	Deg C	50
Converter / IZS Temp	na	Deg C	40	Deg C	na	Deg C	40.0
Offset / Slope	48.5	1.008			48.5	1.008	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
5000	0	0	0	0.0000
5000		0		0.0000
4962	38.3	371	385	0.9629
			Sum of Least Squares	
			New Correction Factor	0.9629

IZS Calibration Data

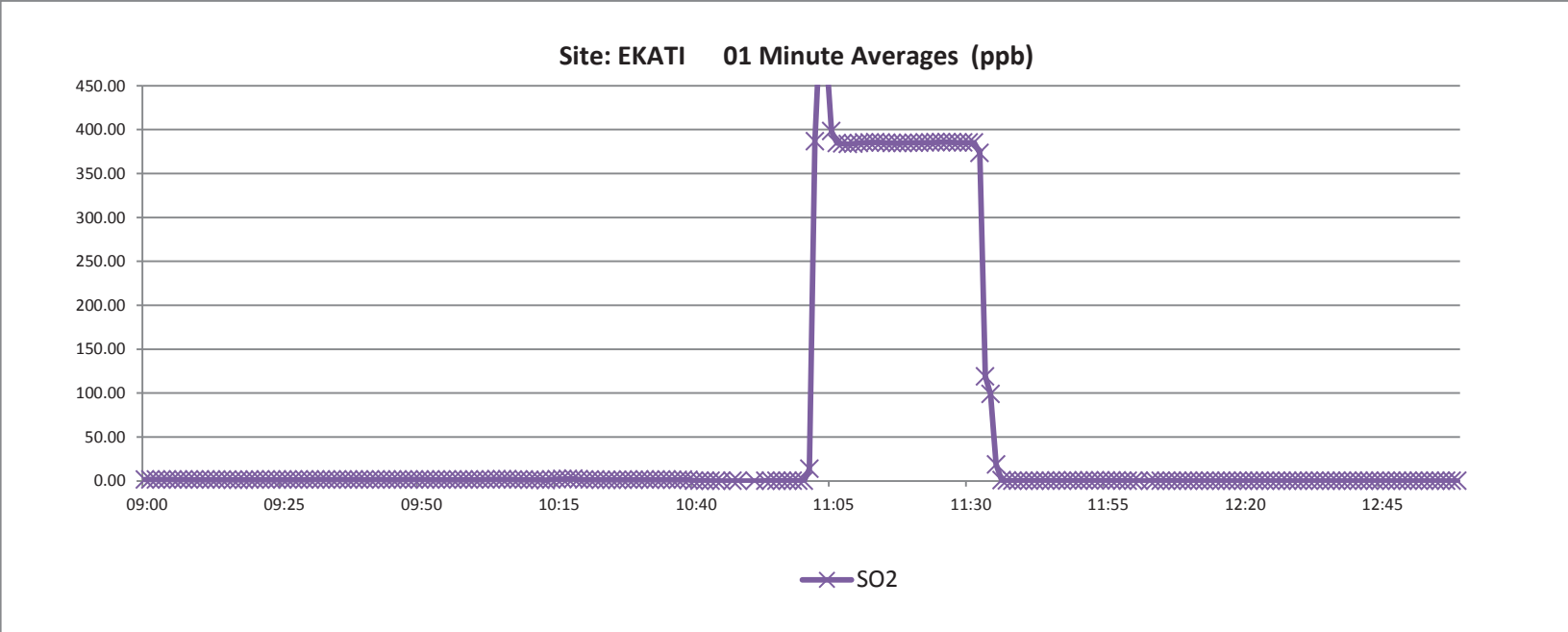
Before Calibration		After Calibration
Auto Zero	0.0	0.0
Auto Span	328.0	328.0
Sample Lines Connected		Yes

Percent Change

Previous Month's Calibration Correction Factor:	1.0000
Current Correction Factor Before Span Adjust:	0.9629
Percent Change:	3.9%

Notes: **When doing as found point, set up calibrator output 742ppb at begin.**
 After around 2 minute, changed the output to 371ppb.

Calibration Performed by: Limin Li



SO2 Calibration Report

Station Information

Calibration Date	October 30, 2012	Previous Calibration	June 21, 2012
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	9:00	End Time (MST)	12:00
Reason:	Quarterly Calibration		
Barometric Pressure	28.27 inHg	Station Temperature	16 Deg C
Cal Gas	48.4 ppm	Gas Cyl. #	LL105149
DAS Output Voltage	0-5 Volts	Cal Gas Expiry date	September 13, 2013
		Chart Rec. Output	NA Volts

Equipment Information

Analyzer Make / Model:	API 100E	S/N :	1232	Method:	Fluorescent
Converter Make / Model:	NA	S/N :	NA		
Calibrator Make / Model:	EnviroNics 6100	S/N :	5212	Method:	Dilution
DAS Make / Model:	Envigas/ADAM 5000	S/N :	NA		
Chart Recorder Make / Model:	NA	S/N:	NA		
Flow Meter:		S/N :			

Analyzer Settings

Before Calibration			After Calibration		
Concentration Range	0-500ppb		ppb		
Sample Flow / Box Temp	639 ccm	26.1 Deg C	639 ccm	41 Deg C	
HVPS / Lamp Setting	-575	24825(91%)	-575	2820(9.7%)	
PMT / RxCell Temp	8.2 Deg C	50 Deg C	8.2 Deg C	49.9 Deg C	
Converter / IZS Temp	na Deg C	40 Deg C	na Deg C	40.0 Deg C	
Offset / Slope	48.5	1.008	50.9	0.966	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
5000	0	0	0	0.0000
5000		0		0.0000
4962	38.3	371	371	1.0000
4981	19.2	186	185	1.0046
4990	9.6	93	92	1.0102
5000	0	0	0	0.0000
Sum of Least Squares				1.0008
New Correction Factor				1.0000

IZS Calibration Data

Before Calibration		After Calibration	
Auto Zero	0.0	Auto Zero	0.0
Auto Span	328.0	Auto Span	344.0
Sample Lines Connected		Sample Lines Connected	Yes

Percent Change

Previous Month's Calibration Correction Factor:	1.0000
Current Correction Factor Before Span Adjust:	1.0000
Percent Change:	0.0%

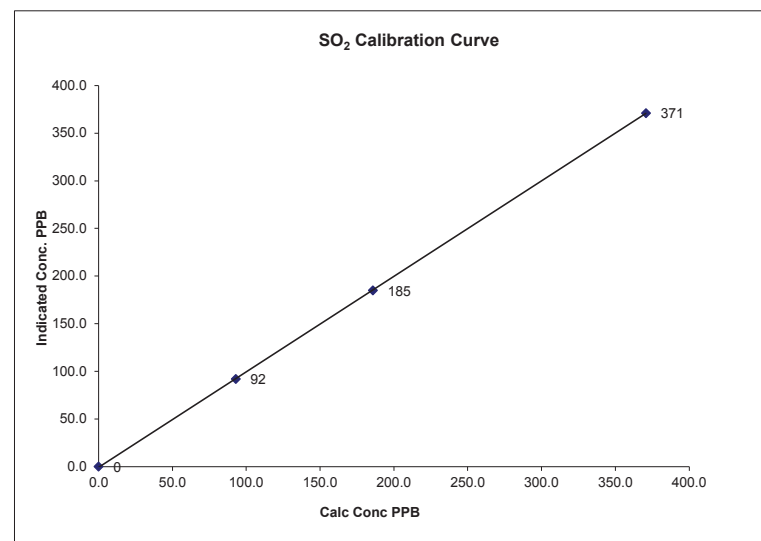
Notes:

Calibration Performed by: Limin Li

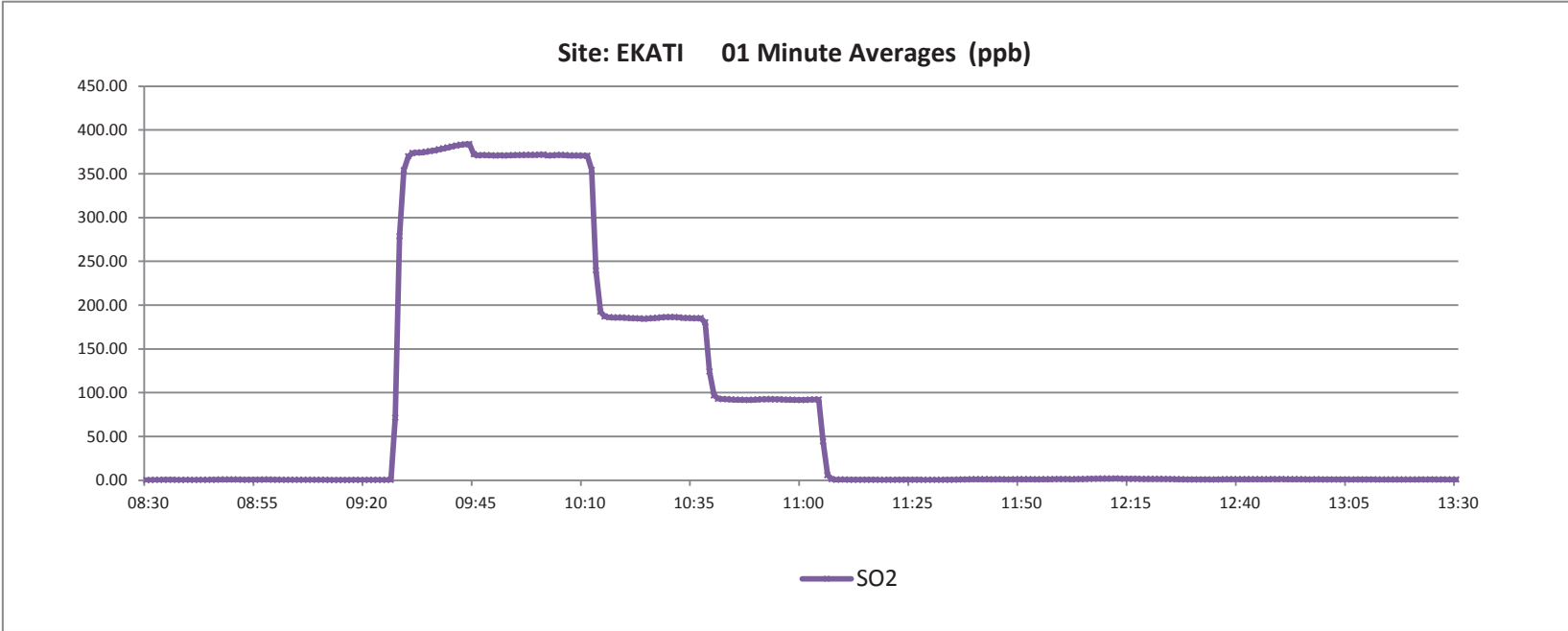
SO2 Calibration Curve

Calibration Date	October 30, 2012
Company	BHP Billiton Diamonds Inc.
Plant / Location	EKATI Mine
Start Time (MST)	9:00
End Time (MST)	12:00

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) (± 3% F.S.)
0	0	0.0000		0.999987
93	92	1.0102		1.001371
186	185	1.0046		-0.599023
371	371	1.0000		



Notes:



Nitrogen Dioxide

NOx - NO- NO₂ Calibration Report

Station Information

Calibration Date	October 29, 2012	Previous Calibration	June 22, 2012
Company	BHP Billiton Diamonds Inc.	Plant/Location	EKATI Mine
Start Time (MST)	9:45	End Time (MST)	11:30
Reason:	As found point.		
Barometric Pressure	28.46 inHg	Station Temperature	17 Deg C
Cal Gas Concentration	NOx 52.4 ppm	NO 52.2 ppm	Cal Gas Expiry date September 13, 2013
Cal Gas Cylinder #	LL105149		
DAS Output Voltage	0-5 Volts	Chart Rec. Output	na Volts

Equipment Information

Analyzer Make / Model:	API 200E	S/N :	1375	Method:	Chemiluminescent
Calibrator Make / Model:	EnviroNics 6100	S/N:	5212		
DAS Make / Model:	Envidas/ADAM 5000	S/N :	na		
Chart Recorder Make / Model:	na	S/N:	na		
Flow Meter:		S/N :			

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range			0-500				
Sample Flow/Conv. Temp	493 ccm	313.9 Deg C		493 ccm	315 Deg C		
Ozone Flow / Vacuum	79 ccm	6.8 °Hg-A		79 ccm	6.6 °Hg-A		
HVPS / A ZERO	-716 Volts	1.2 MV		-716 Volts	1.2 MV		
Rx/ Temp / PMT Temp	50.0 Deg C	6.7 Deg C		50.0 Deg C	6.7 Deg C		
Box Temp / IZS Temp	23.9 Deg C	50.2 Deg C		25 Deg C	50 Deg C		
Offset	0.7 NOx	0.2 NO		0.7 NOx	0.2 NO		
Slope	0.966 NOx	0.966 NO		0.966 NOx	0.966 NO		
NO ₂ COEF / Conv Efficiency	na NO ₂	0.966		na NO ₂	0.966		

Dilution Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			Correction Factor	
			NOx	NO	NO ₂	NOx	NO	NO ₂	NOx	NO
5000	0.0	0	0	0	0	-1	-1	-1	0	0
4962	38.3	0	401	400	0	368	367	1	1.0877	1.0865

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			NO ₂ Correction Factor	NO ₂ Conv Efficiency
			NOx	NO	NO ₂	NOx	NO	NO ₂		

Linearity OK?	Yes	No	Sum of Least Squares Correction Factors:	NOx= 1.0877	NO= 1.0865	NO ₂ =
				Average Converter Efficiency=		

IZS Calibration Data

Before Calibration				After Calibration			
Auto Zero	0.0 NOx	0.0 NO ₂		0.0 NOx	0.0 NO ₂		
Auto Span	241 NOx	238 NO ₂		241 NOx	238 NO ₂		
Sample Lines Connected				Yes			

Percent Change

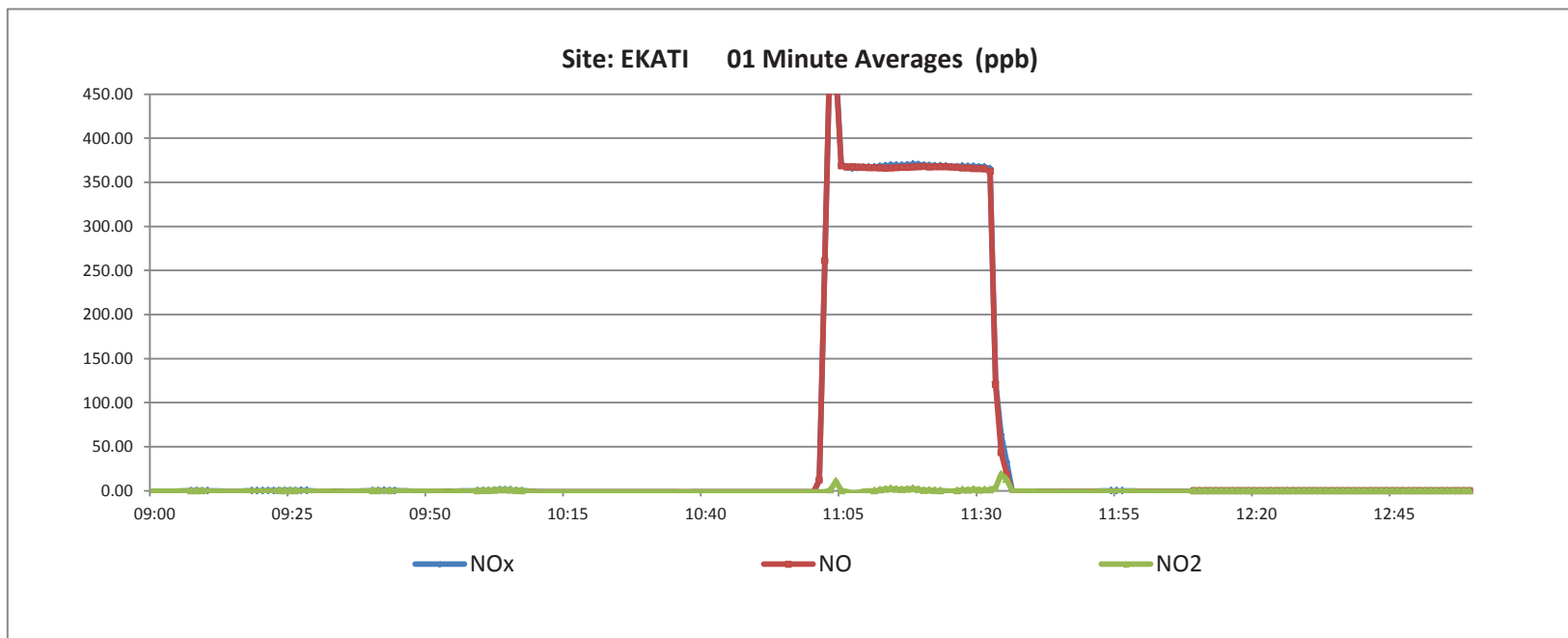
	NOx	NO	NO ₂
Previous Month's Calibration Correction Factor	1.000	1.000	0.998
Current Correction Factor Before Span Adjust	1.088	1.086	
Percent Change	-8.1%	-8.0%	

Notes

When doing as found point, set up calibrator output 800 ppb at begin.

After around 2 minute, changed the output to 400ppb.

Calibration Performed by: Limin Li



NOx - NO- NO2 Calibration Report

Station Information

Calibration Date	October 30, 2012	Previous Calibration	June 22, 2012
Company	BHP Billiton Diamonds Inc.	Plant/Location	EKATI Mine
Start Time (MST)	9:00	End Time (MST)	13:40
Reason:	Quarterly Monthly		
Barometric Pressure	28.27 inHg	Station Temperature	16 Deg C
Cal Gas Concentration	NOx 52.4 ppm	NO	52.2 ppm
Cal Gas Cylinder #	LL105149	Cal Gas Expiry date	September 13, 2013
DAS Output Voltage	0-5 Volts	Chart Rec. Output	na Volts

Equipment Information

Analyzer Make / Model:	API 200E	S/N :	1375	Method:	Chemiluminescent
Calibrator Make / Model:	EnviroNics 6100	S/N:	5212		
DAS Make / Model:	Envidas/ADAM 5000	S/N :	na		
Chart Recorder Make / Model:	na	S/N:	na		
Flow Meter:		S/N :			

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range		0-500					
Sample Flow/Conv. Temp	492 ccm	316.8 Deg C		486 ccm	315 Deg C		
Ozone Flow / Vacuum	79 ccm	6.5 °Hg-A		79 ccm	6.3 °Hg-A		
HVPS / A ZERO	-716 Volts	1.3 MV		-716 Volts	2.6 MV		
Rx/ Temp / PMT Temp	50.0 Deg C	6.7 Deg C		50.2 Deg C	6.7 Deg C		
Box Temp / IZS Temp	26.8 Deg C	49.9 Deg C		28 Deg C	50.3 Deg C		
Offset	0.7 NOx	0.2 NO		0.7 NOx	0.2 NO		
Slope	0.966 NOx	0.966 NO		1.037 NOx	1.037 NO		
NO2 COEF / Conv Efficiency	na NO2	0.966		na NO2	0.966		

Dilution Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			Correction Factor	
			NOx	NO	NO2	NOx	NO	NO2	NOx	NO
5000	0.0	0	0	0	0	-1	-1	-1	0	0
4962	38.3	0	401	400	0	401	400	0	1.0000	1.0000
4981	19.2	0	201	200	0	200	199	0	1.0010	1.0022
4990	9.6	0	101	100	0	99	99	-1	1.0062	1.0023
5000	0.0	0	0	0	0	-1	-1	-1	0.0000	0.0000

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			NO2 Correction Factor	NO2 Conv Efficiency
			NOx	NO	NO2	NOx	NO	NO2		
4962	38.3	0	401	400	0	399	398	0	0	0.00%
4962	38.3	340	401	0.0	311	397	87	309	1.0032	99.36%
4962	38.3	220	401	0.0	204	400	194	205	0.9903	100.49%
4962	38.3	110	401	0.0	100	404	298	104	0.9524	104.00%

Linearity	Sum of Least Squares		NOx= 1.003	NO= 1.002	NO2= 1.000
OK?	Yes	No	Correction Factors: NOx= 1.0000	NO= 1.0000	NO2= 1.0032
			Average Converter Efficiency= 101.28%		

IZS Calibration Data

Before Calibration				After Calibration			
Auto Zero	0.0 NOx	0.0 NO2		0.0 NOx	0.0 NO2		
Auto Span	241 NOx	238 NO2		241 NOx	238 NO2		
Sample Lines Connected				Yes			

Percent Change

	NOx	NO	NO2
Previous Month's Calibration Correction Factor	1.000	1.000	0.998
Current Correction Factor Before Span Adjust	1.000	1.000	1.003
Percent Change	0.0%	0.0%	-0.5%

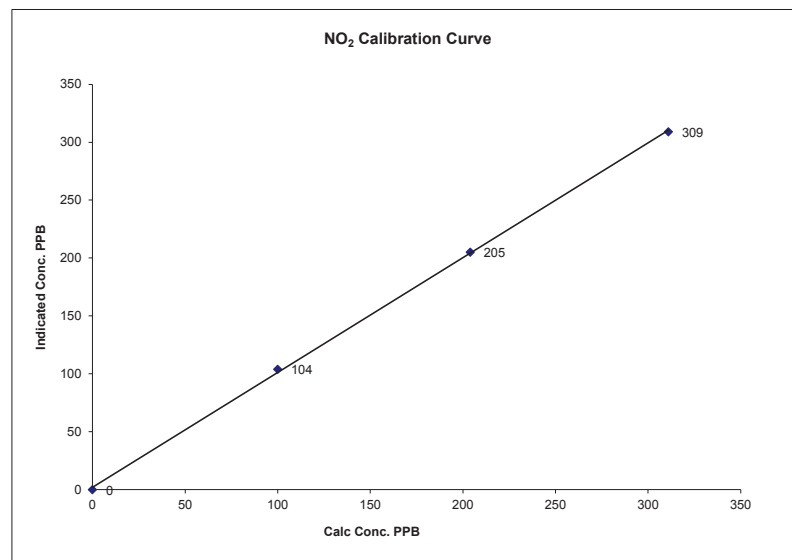
Notes

Calibration Performed by: Limin Li

NO2 Calibration Curve

Calibration Date	October 30, 2012
Company	BHP Billiton Diamonds Inc.
Plant / Location	EKATI Mine
Start Time (MST)	9:00
End Time (MST)	13:40

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) (± 3% F.S.)	0.999726 0.991089 2.12009
0	0	0.0000			
100	104	0.9615			
204	205	0.9951			
311	309	1.0065			

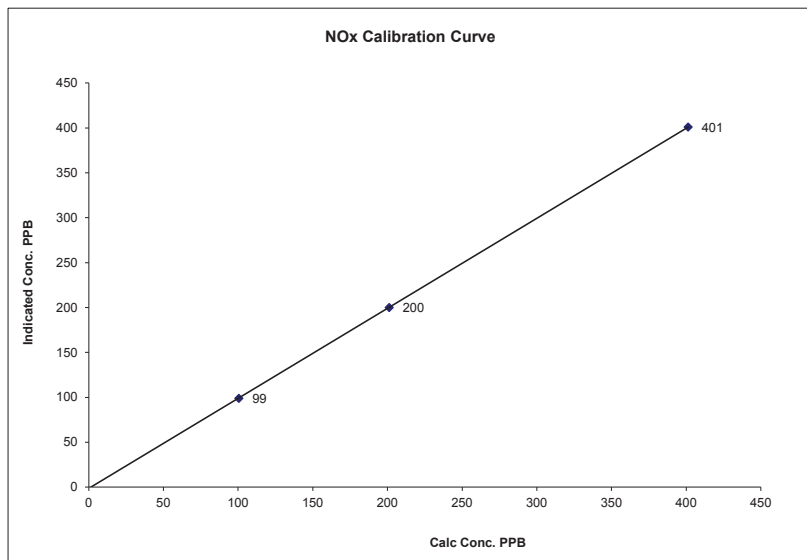


Notes:

NOx Calibration Curve

Calibration Date	October 30, 2012		
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	9:00	End Time (MST)	13:40

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) ($\pm 3\%$ F.S.)	0.999995 1.002105 -1.41603
0	-1	0.0000			
101	99	1.0062			
201	200	1.0010			
401	401	1.0000			

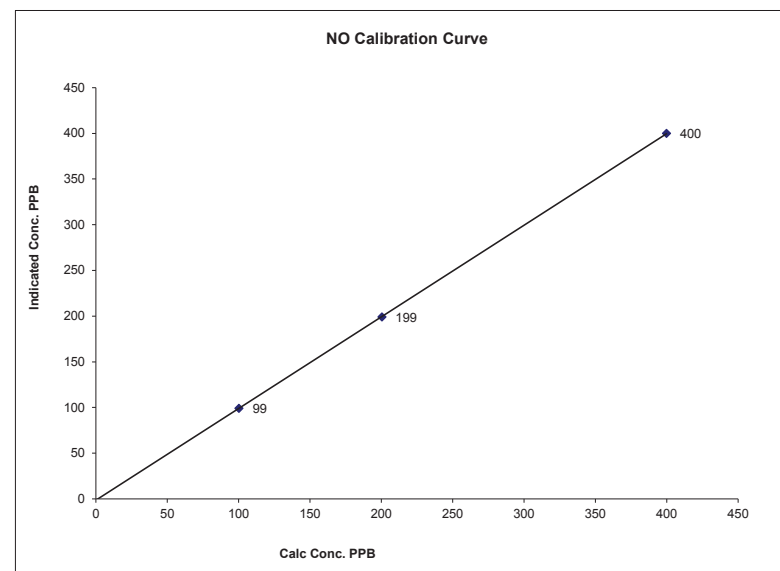


Notes:

NO Calibration Curve

Calibration Date	October 30, 2012		
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	9:00	End Time (MST)	13:40

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) ($\pm 3\%$ F.S.)	0.999992 1.003084 -1.41512
0	-1	0.0000			
100	99	1.0023			
200	199	1.0022			
400	400	1.0000			



Notes:

NOx - NO- NO2 Calibration Report

Station Information

Calibration Date	October 30, 2012	Previous Calibration	June 22, 2012
Company	BHP Billiton Diamonds Inc.	Plant/Location	EKATI Mine
Start Time (MST)	13:45	End Time (MST)	15:50
Reason:	Quarterly Monthly		
Barometric Pressure	28.27 inHg	Station Temperature	22 Deg C
Cal Gas Concentration	NOx 52.4 ppm	NO	52.2 ppm
Cal Gas Cylinder #	LL105149	Cal Gas Expiry date	September 13, 2013
DAS Output Voltage	0-5 Volts	Chart Rec. Output	na Volts

Equipment Information

Analyzer Make / Model:	API 200E	S/N :	1375	Method:	Chemiluminescent
Calibrator Make / Model:	EnviroNics 6100	S/N:	5212		
DAS Make / Model:	Envivas/ADAM 5000	S/N :	na		
Chart Recorder Make / Model:	na	S/N:	na		
Flow Meter:		S/N :			

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range		0-500					
Sample Flow/Conv. Temp	493 ccm	313.8 Deg C		490 ccm	317 Deg C		
Ozone Flow / Vacuum	79 ccm	6.2 °Hg-A		79 ccm	6.4 °Hg-A		
HVPS / A ZERO	-716 Volts	1.4 MV		-716 Volts	2.1 MV		
Rx/ Temp / PMT Temp	50.3 Deg C	6.7 Deg C		50.0 Deg C	6.7 Deg C		
Box Temp / IZS Temp	28.7 Deg C	49.9 Deg C		28.9 Deg C	50.3 Deg C		
Offset	0.7 NOx	0.2 NO		0.7 NOx	0.2 NO		
Slope	1.037 NOx	1.037 NO		1.037 NOx	1.037 NO		
NO2 COEF / Conv Efficiency	na NO2	0.966		na NO2	0.966		

Dilution Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			Correction Factor	
			NOx	NO	NO2	NOx	NO	NO2	NOx	NO
5000	0.0	0	0	0	0	-1	-1	-1	0	0
4962	38.3	0	401	400	0	401	400	0	1.0000	1.0000
4981	19.2	0	201	200	0	200	199	0	1.0010	1.0022
4990	9.6	0	101	100	0	99	99	-1	1.0062	1.0023
5000	0.0	0	0	0	0	-1	-1	-1	0.0000	0.0000

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			NO2 Correction Factor	NO2 Conv Efficiency
			NOx	NO	NO2	NOx	NO	NO2		
4962	38.3	0	401	400	0	405	405	0	0	0.00%
4962	38.3	340	401	0.0	320	405	85	320	0.9969	100.00%
4962	38.3	220	401	0.0	211	405	194	211	0.9953	100.00%
4962	38.3	110	401	0.0	107	408	298	107	0.9907	100.00%

Linearity OK?	Yes	No	Sum of Least Squares Correction Factors:	NOx= 1.003 NOx= 1.0000	NO= 1.002 NO= 1.0000	NO2= 1.000 NO2= 0.9969
				Average Converter Efficiency= 100.00%		

IZS Calibration Data

Before Calibration				After Calibration			
Auto Zero	0.0 NOx	0.0 NO2		0.0 NOx	0.0 NO2		
Auto Span	241 NOx	238 NO2		262 NOx	258 NO2		
Sample Lines Connected:				Yes			

Percent Change

	NOx	NO	NO2
Previous Month's Calibration Correction Factor	1.000	1.000	0.998
Current Correction Factor Before Span Adjust	1.000	1.000	0.997
Percent Change	0.0%	0.0%	0.1%

Notes

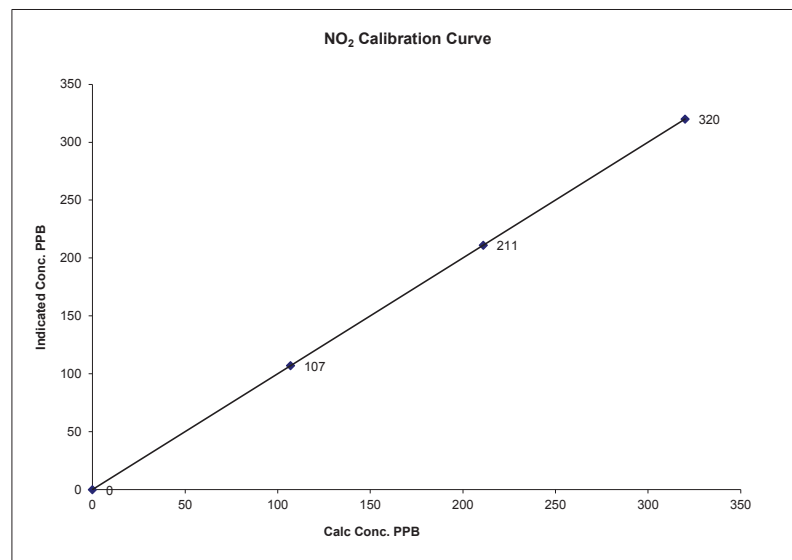
Redo the GPT calibration, due to temperature changed in C.A.M.B.

Calibration Performed by: Limin Li

NO2 Calibration Curve

Calibration Date	October 30, 2012
Company	BHP Billiton Diamonds Inc.
Plant / Location	EKATI Mine
Start Time (MST)	13:45
End Time (MST)	15:50

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) (± 3% F.S.)	1.000000 1.000000 0.00000
0	0	0.0000			
107	107	1.0000			
211	211	1.0000			
320	320	1.0000			

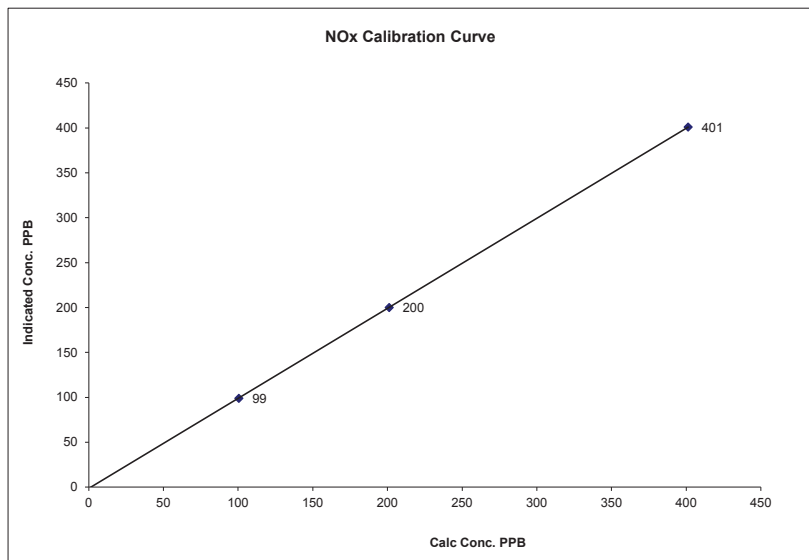


Notes:

NOx Calibration Curve

Calibration Date	October 30, 2012		
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	13:45	End Time (MST)	15:50

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) ($\pm 3\%$ F.S.)	0.999995 1.002105 -1.41603
0	-1	0.0000			
101	99	1.0062			
201	200	1.0010			
401	401	1.0000			

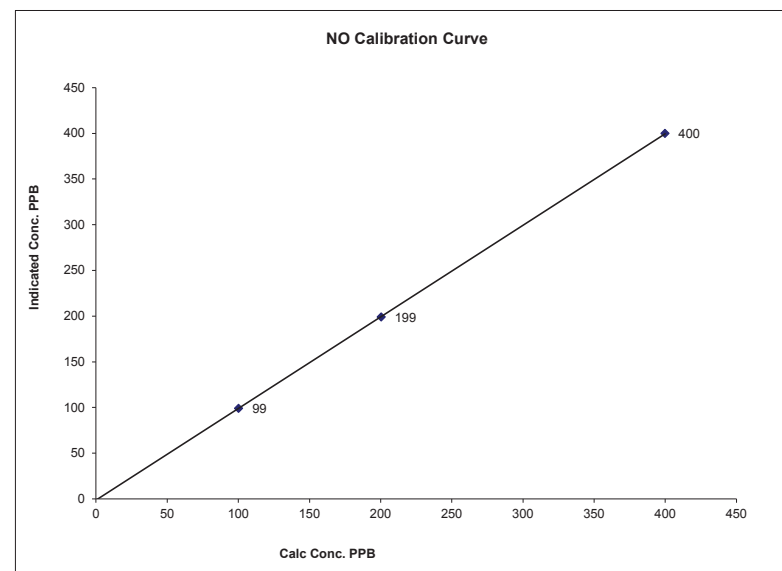


Notes:

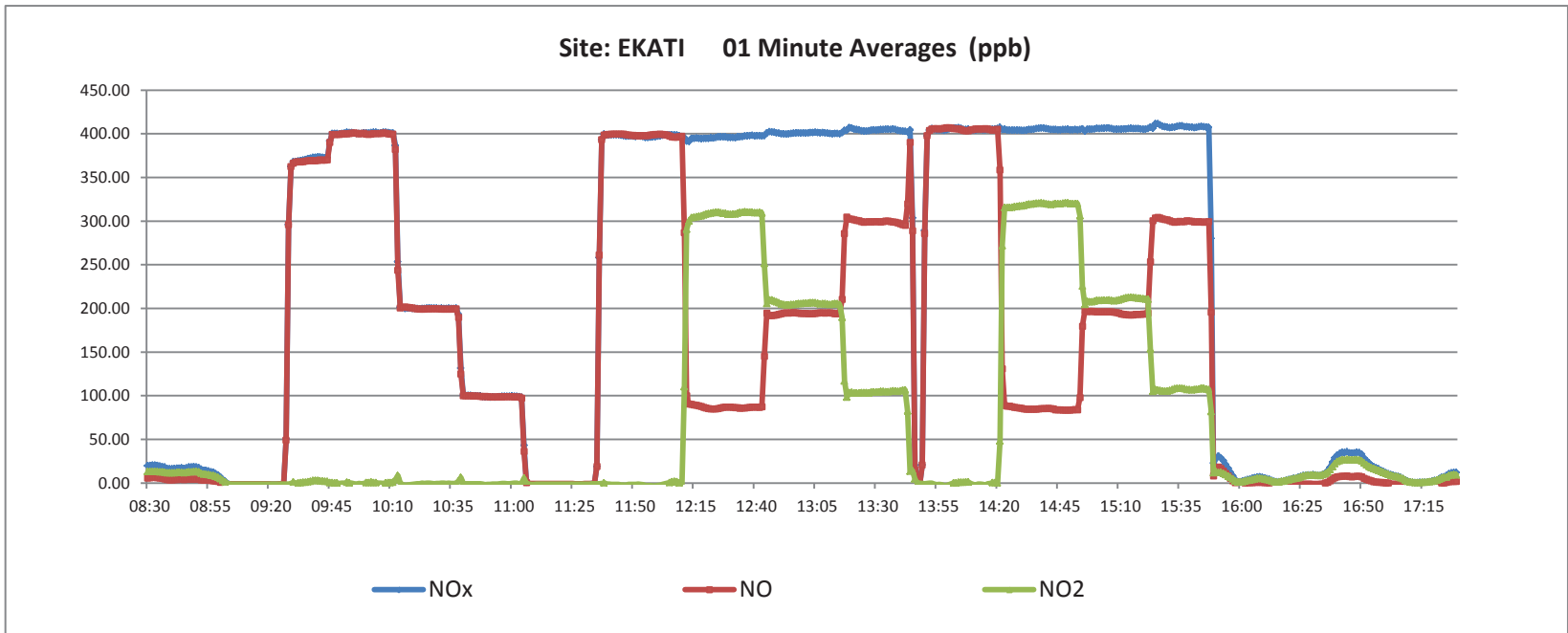
NO Calibration Curve

Calibration Date	October 30, 2012		
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	13:45	End Time (MST)	15:50

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) ($\pm 3\%$ F.S.)	0.999992 1.003084 -1.41512
0	-1	0.0000			
100	99	1.0023			
200	199	1.0022			
400	400	1.0000			



Notes:



Particulate Matter 2.5

BAM -1020

Audit Report

Station Information

Date: October 29, 2012
 Company: BHP Billiton Diamonds Inc.
 Location: EKATI Mine
 Station Name: Polar Explosives

Audit Transfer Standard

Make/Model:
 Serial Number: FRM1210
 Cell S/N:
 Thermometer S/N: Fluke (1735039)

Instrument Information

Make/Model: BAM 1020
 Serial Number: F4642
 Unit Number: 2
 Parameter: PM2.5
 Analog Output Voltage: 0-10 vdc
 Flow Type: Actual
 Amb Temperature Sensor Used: Y
 Model Number: BX 592-2 (-50 to +50C)

Mechanical Audit:

Pump Muffler Unclogged: Y
 Sample Nozzel Clean: Y
 Tape Support Vane Clean: Y
 Capstan Shaft Clean: Y
 Rubber Pinch Rollers Clean: Y
 Inlet Clean: Y
 Inlet tube Position Correct: Y
 Water Tight Seal OK: Y

Flow Audit

Note: Tolerances are in **(BOLD)**

Leak Check Value

Amb Temperature (C)
 Baro Pressure (mmHg)
 Flow Rate (lpm)

0.2 lpm (1.0 lpm)		
BAM	Ref. Std.	Difference
-16.9	-17.2	0.3
719	718.6	0.4
16.7	16.64	0.06

Flow Setpoint:

16.7 lpm

Membrane Audit

Last m (mg): 0.817
 ABS (mg): 0.812
 Difference (mg): 0.005
 % Difference: 0.62%

Setup and Calibration Values

Range 1.0 mg Flow Set-pt. 16.7
 Units ug/m3 HEATER Auto
 Offset -0.005 AP 150
 Count Time 4min FRI 10
 Cv 1.001 FRh 20
 Qo 0.000 RH Control YES
 ABS 0.812 RH Set-pt. 35%
 u sw 0.287 e1 -0.005
 K factor 0.936 BKRD -0.0099

Error Codes (last six)

1 Maint 4 Maint
 2 Flow Failure. 5 Flow Failure
 3 Flow Failure 6 Flow Failure

Comments: 14:00pm. Audit to 15:40. Calibrated flow rate from 17.7LPM to 16.64LPM.

Audited By:

Limin Li

BAM -1020

Audit Report

Station Information

Date: October 31, 2012
 Company: BHP Billiton Diamonds Inc.
 Location: EKATI Mine
 Station Name: Polar Explosives

Audit Transfer Standard

Make/Model:
 Serial Number: FRM1210
 Cell S/N:
 Thermometer S/N: Fluke (1735039)

Instrument Information

Make/Model: BAM 1020
 Serial Number: F4642
 Unit Number: 2
 Parameter: PM2.5
 Analog Output Voltage: 0-10 vdc
 Flow Type: Actual
 Amb Temperature Sensor Used: Y
 Model Number: BX 592-2 (-50 to +50C)

Mechanical Audit:

Pump Muffler Unclogged: Y
 Sample Nozzel Clean: Y
 Tape Support Vane Clean: Y
 Capstan Shaft Clean: Y
 Rubber Pinch Rollers Clean: Y
 Inlet Clean: Y
 Inlet tube Position Correct: Y
 Water Tight Seal OK: Y

Flow Audit

Note: Tolerances are in **(BOLD)**

Leak Check Value

Amb Temperature (C)
 Baro Pressure (mmHg)
 Flow Rate (lpm)

0.2 lpm (1.0 lpm)		
BAM	Ref. Std.	Difference
-14.5	-14.5	0.0
723	723	0
16.7	16.75	-0.05

Flow Setpoint:

16.7 lpm

Membrane Audit

Last m (mg): 0.817
 ABS (mg): 0.812
 Difference (mg): 0.005
 % Difference: 0.62%

Setup and Calibration Values

Range 1.0 mg Flow Set-pt. 16.7
 Units ug/m3 HEATER Auto
 Offset -0.005 AP 150
 Count Time 4min FRI 10
 Cv 1.001 FRh 20
 Qo 0.000 RH Control YES
 ABS 0.812 RH Set-pt. 35%
 u sw 0.287 e1 -0.005
 K factor 0.936 BKRD -0.0099

Error Codes (last six)

1 Maint 4 Maint
 2 Flow Failure. 5 Flow Failure
 3 Flow Failure 6 Flow Failure

Comments:

Audit from 10:30 to 11:00am. Redid the audit due to temperature was calculated wrong yesterday. Rebuilt pump. MEDO Pump: VP0935A-V1028-D2-0511. REBUILT KIT: 680839. MUFFLER, PUMP-BY-PASS: 580293.

Audited By:

Limin Li

Total Suspended Particulate

BAM -1020

Audit Report

Station Information

Date: October 31, 2012
 Company: BHP Billiton Diamonds Inc.
 Location: EKATI Mine
 Station Name: Polar Explosives

Audit Transfer Standard

Make/Model:
 Serial Number: FRM1210
 Cell S/N:
 Thermometer S/N: Fluke 1735039

Instrument Information

Make/Model: BAM 11020
 Serial Number: F 4641
 Unit Number: 1
 Parameter: TSP
 Analog Output Voltage: 0-1vdc
 Flow Type: Actual
 Amb Temperature Sensor Used: Y
 Model Number: BX592-2

Mechanical Audit:

Pump Muffler Unclogged: Y
 Sample Nozzel Clean: Y
 Tape Support Vane Clean: Y
 Capstan Shaft Clean: Y
 Rubber Pinch Rollers Clean: Y
 Inlet Clean: Y
 Inlet tube Position Correct: Y
 Water Tight Seal OK: Y

Flow Audit

Note: Tolerances are in **(BOLD)**

Leak Check Value

	0.2 lpm (1.0 lpm)	
BAM	Ref. Std.	Difference
-14.6	-14.6	0.0
723	723	0
16.7	16.75	-0.05

Amb Temperature (C)

Baro Pressure (mmHg)

Flow Rate (lpm)

Flow Setpoint:

16.7 lpm

Membrane Audit

Last m (mg): 0.821
 ABS (mg): 0.813
 Difference (mg): 0.008
 % Difference: 0.98%

Error Codes (last six)

1 Flow 5% out 4 Flow Failure
 2 Power Fail 5 Tape Latch
 3 Flow Failure 6 Tap Tension

Setup and Calibration Values

Range 0-1mg Flow Set-pt. 16.7
 Units mg/m3 HEATER Auto
 Offset -0.005 AP 150
 Count Time 4min FRI 10
 Cv 0.987 FRh 20
 Qo 0.000 RH Control Yes
 ABS 0.813 RH Set-pt. 35%
 u sw 0.287 e1 -0.005
 K factor 0.965 BKRD -0.0046

Comments: Audit from 09:00am to 11:00am. Rebuilt pump on Oct. 30, 2012.

Audited By:

Page 85 of 85
 Limin Li

JOB #: 3728-12-10~12-007-QC

BHP Billiton Diamonds Inc.
EKATI Diamond Mine
Ambient Air Monitoring Data Report

For
January to March 2013

Prepared By:



September 22, 2014

BHP Billiton Diamonds Inc. EKATI Diamond Mine Ambient Air Monitoring

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Introduction

The following Ambient Air Monitoring report was prepared for:

Mr. Andrew Howton
BHP Billiton Diamonds Inc.
#1102 4920 52nd Street
Yellowknife, NT, X1A 3T1

Monitoring Location: EKATI
Data Period: January to March 2013

The monthly ambient data report:

- Prepared by Lili Zhou
- Reviewed by Lily Lin

Calibration Procedure

The calibrations conducted at the BHP Billiton Diamonds Inc. - EKATI Air Monitoring Station conform to the following Maxxam Standard Operation Procedures:

- CAL SOP-00211
- CAL SOP-00213
- CAL SOP-00215

Conformance of each calibration to Alberta Environment regulations is outlined in the individual calibration reports. The slope and correlation coefficient are derived from the calculated and indicated analyzer responses. The percent change is calculated using the previous calibration correction factor and the current correction factor before adjustment. All calibration's and maintenance conforms to the procedures outlined in the *Air Monitoring Directive, Appendix A-10, Section 1.6*.

Monthly Continuous Data Summary

BHP Billiton Diamonds Inc. - EKATI

Continuous Ambient Monitoring – January 2013

BHP Billiton Diamonds Inc.- EKATI		MAXIMUM VALUES					OPERATIONAL TIME (PERCENT)
		1-HOUR			24-HOUR		
PARAMETER	MONTHLY AVERAGE	READING	DAY	HOUR	READING	DAY	
SO ₂ (PPB)	0.45	4	24	9	1.3	24	88.2
NO ₂ (PPB)	2.24	46	18	2	8.5	18	88.2
NO (PPB)	1.92	189	24	9	31.6	24	88.2
NOx (PPB)	4.88	219	24	9	45.3	24	88.2
PM _{2.5} (UG/M ³)	-3.06	24	4	17	0.6	4	87.9
TSP (UG/M ³)	3.30	18	12	18	8.4	13	88.2

NA: Not Applicable

Exceedences Summary Report

January 2013

Plant Operator: BHP Billiton Diamonds Inc.

Plant Location: EKATI

PARAMETER	CANADIAN AMBIENT AIR QUALITY OBJECTIVES		CANADIAN AMBIENT AIR QUALITY EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	344	115	0	0
NO ₂ (PPB)	213	106	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

PARAMETER	NT AMBIENT AIR QUALITY STANDARDS		NT AMBIENT AIR QUALITY STANDARDS EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	172	57	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

General Monthly Summary

Equipment Operation

The following summary outlines the analyzer performance compared to Canadian Environmental Quality Guidelines for ambient air monitors. Any problems or maintenance performed are detailed at the end of each section.

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Sulphur Dioxide (PPB)

- Analyzer make / model - API 100

The analyzer was working well throughout this month. No operational issues were observed. Hourly collected between January 1st at hour 0 and January 4th at hour 14 are missing, reason unknown.

Nitrogen Dioxide (PPB)

- Analyzer make / model - API 200E

The analyzer was working well throughout this month. No operational issues were observed. Hourly collected between January 1st at hour 0 and January 4th at hour 14 are missing, reason unknown.

Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

Hourly collected between January 1st at hour 0 and January 4th at hour 14 are missing, reason unknown. Hourly data collected on January 18th at hour 10 and hour 11 were invalidated due to the unit spike. Data was not corrected using Alberta air quality guideline for PM2.5 analyzer.

Total suspended Particulate ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

Hourly collected between January 1st at hour 0 and January 4th at hour 14 are missing, reason unknown. Hourly data collected on January 22nd at hour 16 was invalidated due to the unit spike.

Monthly Continuous Data Summary

BHP Billiton Diamonds Inc. - EKATI

Continuous Ambient Monitoring – February 2013

BHP Billiton Diamonds Inc. - EKATI		MAXIMUM VALUES					OPERATIONAL TIME (PERCENT)
		1-HOUR			24-HOUR		
PARAMETER	MONTHLY AVERAGE	READING	DAY	HOUR	READING	DAY	
SO ₂ (PPB)	1.23	11	24	0	3.7	24	100.0
NO ₂ (PPB)	11.94	65	5	7	34.6	4	100.0
NO (PPB)	33.26	472	24	0	160.2	24	100.0
NOx (PPB)	46.10	498	24	0	185.7	24	100.0
PM _{2.5} (UG/M ³)	-2.86	16	5	13	3.0	5	100.0
TSP (UG/M ³)	3.40	36	5	13	13.7	5	99.7

NA: Not Applicable

Exceedences Summary Report

February 2013

Plant Operator: BHP Billiton Diamonds Inc.

Plant Location: EKATI

PARAMETER	CANADIAN AMBIENT AIR QUALITY OBJECTIVES		CANADIAN AMBIENT AIR QUALITY EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	344	115	0	0
NO ₂ (PPB)	213	106	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

PARAMETER	NT AMBIENT AIR QUALITY STANDARDS		NT AMBIENT AIR QUALITY STANDARDS EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	172	57	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

General Monthly Summary

Equipment Operation

The following summary outlines the analyzer performance compared to Canadian Environmental Quality Guidelines for ambient air monitors. Any problems or maintenance performed are detailed at the end of each section.

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Sulphur Dioxide (PPB)

- Analyzer make / model - API 100

The analyzer was working well throughout this month. No operational issues were observed.

Nitrogen Dioxide (PPB)

- Analyzer make / model - API 200E

The analyzer was working well throughout this month. No operational issues were observed.

Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

Data was not corrected using Alberta air quality guideline for PM2.5 analyzer.

Total suspended Particulate ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

The BAM unit was working well throughout the month. No operational issues were observed. Hourly data collected on February 17th between hour 16 and hour 17 were invalidated due to the unit spike.

Monthly Continuous Data Summary

BHP Billiton Diamonds Inc. - EKATI

Continuous Ambient Monitoring – March 2013

BHP Billiton Diamonds Inc. - EKATI		MAXIMUM VALUES					OPERATIONAL TIME (PERCENT)
		1-HOUR			24-HOUR		
PARAMETER	MONTHLY AVERAGE	READING	DAY	HOUR	READING	DAY	
SO ₂ (PPB)	0.43	8	30	4	2.7	30	96.9
NO ₂ (PPB)	6.76	66	25	6	30.8	24	96.4
NO (PPB)	19.30	356	30	4	147.2	30	96.4
NO _x (PPB)	26.44	450	25	6	180.1	30	96.4
PM _{2.5} (UG/M ³)	-2.15	10	8	13	2.9	8	77.4
TSP (UG/M ³)	8.28	53	6	14	22.0	20	96.6

Exceedences Summary Report

March 2013

Plant Operator: BHP Billiton Diamonds Inc.

Plant Location: EKATI

PARAMETER	CANADIAN AMBIENT AIR QUALITY OBJECTIVES		CANADIAN AMBIENT AIR QUALITY EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	344	115	0	0
NO ₂ (PPB)	213	106	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

PARAMETER	NT AMBIENT AIR QUALITY STANDARDS		NT AMBIENT AIR QUALITY STANDARDS EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	172	57	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

General Monthly Summary

Equipment Operation

The following summary outlines the analyzer performance compared to Canadian Environmental Quality Guidelines for ambient air monitors. Any problems or maintenance performed are detailed at the end of each section.

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Sulphur Dioxide (PPB)

- Analyzer make / model - API 100

The analyzer was working well throughout this month. No operational issues were observed. Hourly collected between March 19th at hour 20 and March 20th at hour 9 are missing, reason unknown. An as found points check attempted to be performed on March 20th. Due to time restriction, the check could not be finished. The channel was left into the Maintenance mode overnight. An as found points check was performed on March 21st. The UV lamp ratio was adjusted and the charcoal was renewed. A post-repair calibration was performed following the maintenance. The channel was put into the Maintenance mode for an hour on March 22nd for the manifold clean. The expected span value was adjusted on March 23rd. The analog output calibration was completed on March 24th. Partial of the span result are missing in this report as the span data was not provided to Maxxam reporting staff when the report was prepared. A complete IZS graph will be included once the data is available.

Nitrogen Dioxide (PPB)

- Analyzer make / model - API 200E

The analyzer was working well throughout this month. No operational issues were observed. Hourly collected between March 19th at hour 20 and March 20th at hour 9 are missing, reason unknown. Following the as found points check was performed on March 20th, the analog output was calibrated, the ozone inline exhaust scrubber was renewed and the zero air DFU were changed. The analyzer was allowed time to stabilize. A post-repair calibration was performed following the maintenance. The channel was put into the Maintenance mode for an hour on March 22nd for the manifold clean. The analog output calibration was repeated on March 23rd. The expected span values for the channel of NOx, NO and NO2 were adjusted on March 23rd. Partial of the span result are missing in this report as the span data was not provided to Maxxam reporting staff when the report was prepared. A complete IZS graph will be included once the data is available.

General Monthly Summary

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

Hourly data collected on March 8th at hour 11 and hour 12 and on March 19th at hour 16 and hour 17 were invalidated due to the unit spike. The BAM unit failed on March 9th at hour 20. The issue was fixed by Ekati operator on March 15th at hour 10. A total of 135 hours of data was invalidated due to this event. Hourly collected between March 19th at hour 20 and March 20th at hour 9 are missing, reason unknown. The PM2.5 channel was put into the Maintenance mode on March 20th from hour 14 to hour 23 in order to monitor the BAM unit functionality. Hourly data collected on March 21st at hour 14 is missing due to time adjustment on the datalogger system. The BAM audit/calibration was performed on March 22nd. Hourly collected between March 29th at hour 4 and March 31st at hour 23 are missing, reason unknown. Data was not corrected using Alberta air quality guideline for PM2.5 analyzer.

Total suspended Particulate ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

Hourly collected between March 19th at hour 20 and March 20th at hour 9 are missing, reason unknown. The TSP channel was put into the Maintenance mode on March 20th from hour 14 to hour 23 in order to monitor the BAM unit functionality. The BAM audit/calibration was performed on March 22nd. The sample filter was changed on March 24th.

Continuous Monitoring

Monthly Summaries & Graphs

Sulphur Dioxide

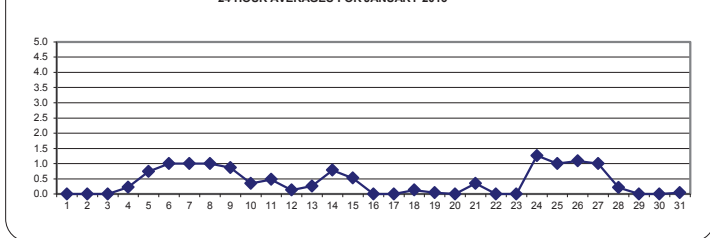
BHP Billiton Diamonds Inc. - EKATI
JANUARY 2013
SULPHUR DIOXIDE (SO2) hourly averages in ppb

MST																												
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily	24-Hour		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Max.	Avg.	Rdgs.	
Day																												
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0	
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0	
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0	
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	0	0	0	0	0	1	1	1	0.2		
5	0	0	1	1	0	S	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7		
6	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0		
7	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0		
8	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0		
9	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	0.9		
10	0	0	0	0	0	S	0	0	0	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	1	0.3		
11	0	1	1	0	0	S	0	0	0	0	0	0	1	1	1	1	0	1	0	1	1	1	1	0	1	0.5		
12	1	1	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1		
13	1	1	1	1	1	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.3		
14	0	0	0	1	0	S	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8		
15	1	1	1	1	1	S	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0.5		
16	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0		
17	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0		
18	0	0	1	0	0	S	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1		
19	0	0	0	0	0	S	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0		
20	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0		
21	0	0	0	0	0	S	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	0	0	1	0.3			
22	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0		
23	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0		
24	0	0	0	0	0	S	3	3	1	4	3	2	2	1	1	1	1	1	1	1	1	1	1	1	4	1.3		
25	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0		
26	1	1	1	2	2	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.1		
27	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0		
28	1	1	1	0	1	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2		
29	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0		
30	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0		
31	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.0		
Hourly Max		1	1	1	2	2	NA	3	3	1	4	3	2	2	1	1	1	1	1	1	1	1	1	1				
Hourly Avg		0.4	0.4	0.5	0.4	0.4	NA	0.4	0.4	0.4	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4				

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

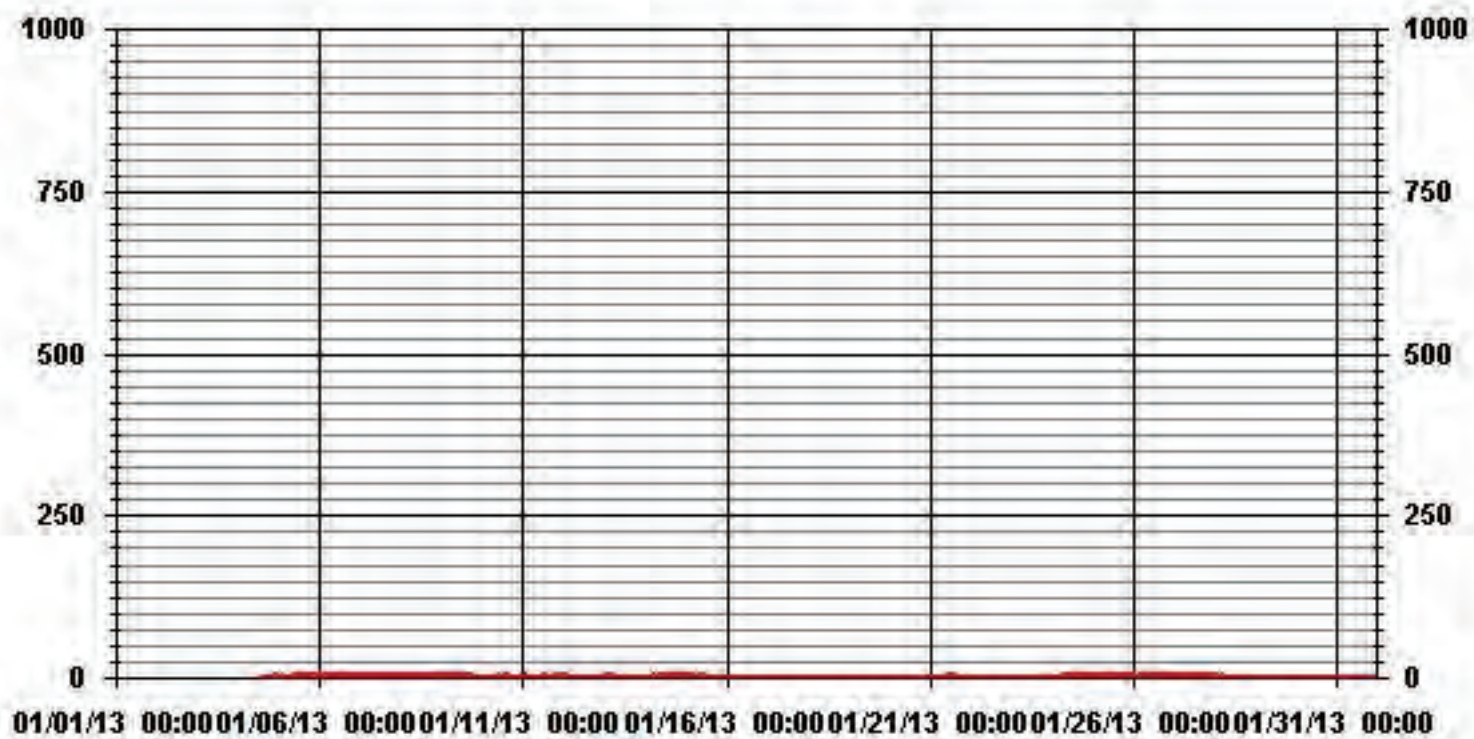
24 HOUR AVERAGES FOR JANUARY 2013

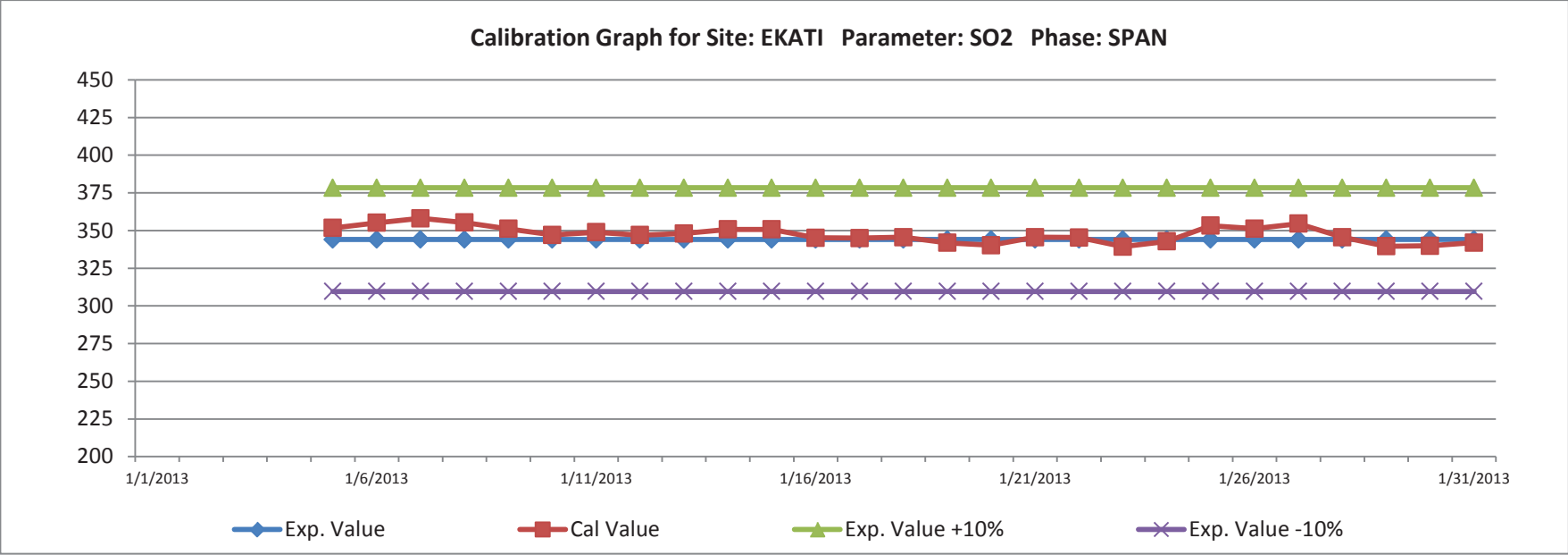


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	271				
MAXIMUM 1-HR AVERAGE:	4	PPB	@ HOUR(S)	9	ON DAY(S) 24
MAXIMUM 24-HR AVERAGE:	1.3	PPB			ON DAY(S) 24
					VAR-VARIOUS
IJS CALIBRATION TIME:	27	HRS	OPERATIONAL TIME:	656	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	88.2	%
STANDARD DEVIATION:	0.56		MONTHLY AVERAGE:	0.45	PPB

01 Hour Averages





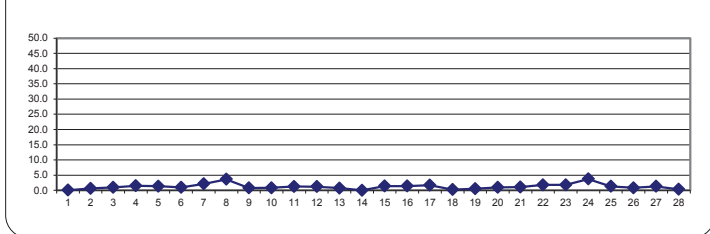
BHP Billiton Diamonds Inc. - EKATI
FEBRUARY 2013
SULPHUR DIOXIDE (SO2) hourly averages in ppb

MST																												
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily	24-Hour		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Max.	Avg.	RDGS.	
Day																												
1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.0	24	
2	0	0	0	0	0	S	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	24
3	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
4	1	1	1	1	1	S	1	1	1	1	1	3	2	2	2	2	1	1	2	1	1	1	3	3	3	3	1.5	24
5	3	1	2	1	2	S	2	3	2	1	1	1	1	1	1	1	2	1	2	1	1	1	0	1	3	1.3	24	
6	1	1	1	1	1	S	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
7	1	1	1	1	1	S	1	1	1	1	1	1	1	1	2	1	1	2	6	7	8	4	5	1	8	2.2	24	
8	7	3	4	6	5	S	4	6	7	4	4	2	1	1	2	1	2	4	5	4	3	5	1	2	7	3.6	24	
9	1	1	1	1	1	S	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0.8	24	
10	0	0	1	0	0	S	0	0	1	0	0	1	1	1	1	1	1	1	1	2	1	2	2	2	2	0.8	24	
11	2	2	2	2	2	S	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.3	24	
12	1	1	1	5	2	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	1.2	24	
13	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0.7	24	
14	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
15	0	0	0	0	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	3	5	3	4	4	5	1.4	24	
16	1	1	1	1	3	S	1	1	1	0	2	1	2	3	3	2	1	1	1	1	0	3	1	2	3	1.4	24	
17	1	4	5	3	9	S	7	5	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	9	1.7	24	
18	0	0	0	0	0	S	0	0	1	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	4	0.3	24	
19	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	1	0	0	2	1	3	4	1	4	0.6	24	
20	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24	
21	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	2	1.1	24	
22	1	1	2	1	2	S	1	3	3	5	2	3	5	2	1	1	1	1	1	1	1	1	1	1	5	1.8	24	
23	1	1	1	1	1	S	1	1	1	1	1	3	1	1	1	1	1	1	1	0	1	4	6	10	10	1.8	24	
24	11	9	2	1	6	S	1	4	2	5	4	3	6	4	1	3	3	1	3	3	4	5	3	2	11	3.7	24	
25	1	2	5	2	1	S	5	3	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	5	1.3	24	
26	0	1	1	3	5	S	0	0	2	0	0	0	1	0	1	2	1	2	0	0	0	0	0	0	5	0.8	24	
27	0	0	0	0	0	S	4	1	2	4	5	0	0	0	0	0	0	1	0	0	1	6	4	2	6	1.3	24	
28	2	1	1	0	1	S	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3	24	
Hourly Max	11	9	5	6	9	NA	7	6	7	5	5	3	6	4	3	3	3	4	6	7	8	6	6	10				
Hourly Avg	1.4	1.3	1.3	1.2	1.7	NA	1.3	1.4	1.3	1.2	1.3	1.0	1.1	1.1	1.0	1.0	0.9	1.0	1.1	1.2	1.2	1.6	1.5	1.4				

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

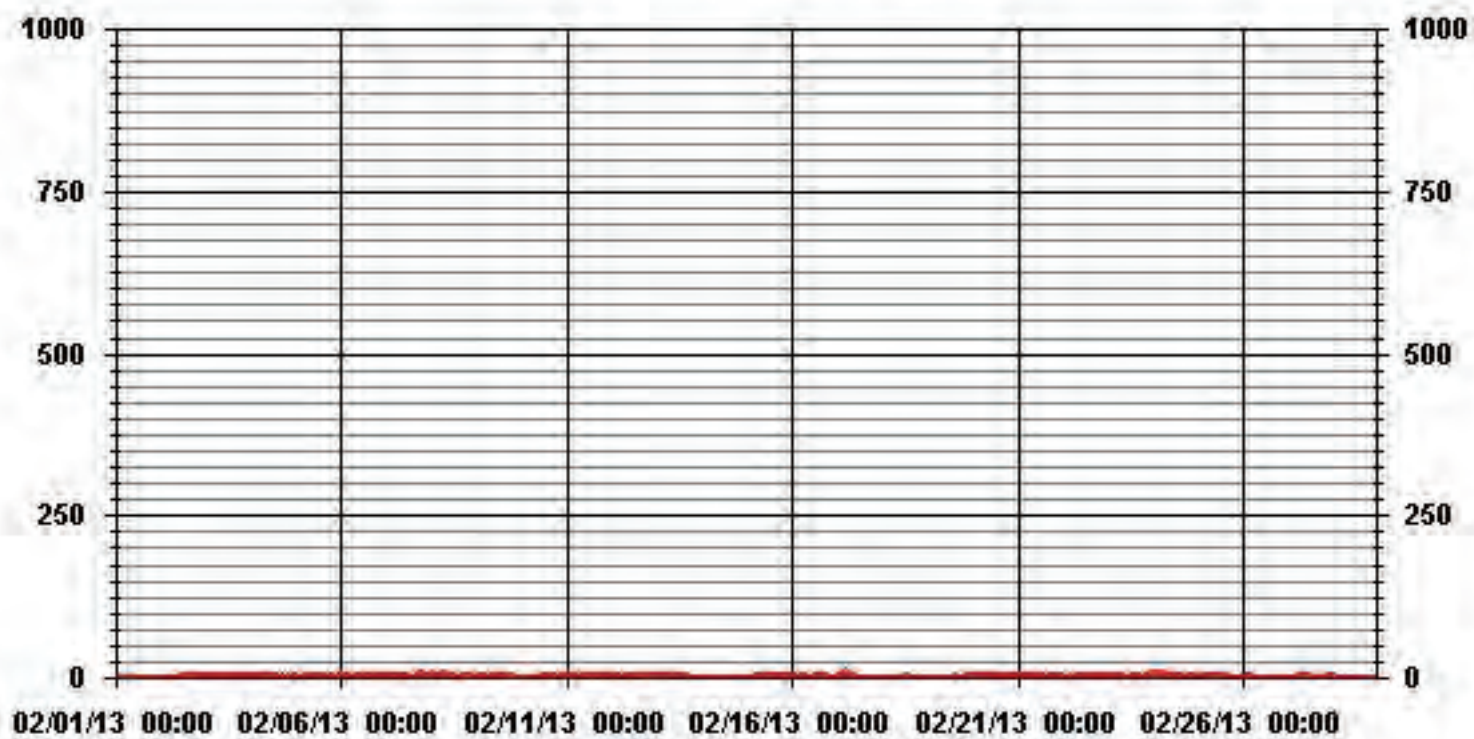
24 HOUR AVERAGES FOR FEBRUARY 2013



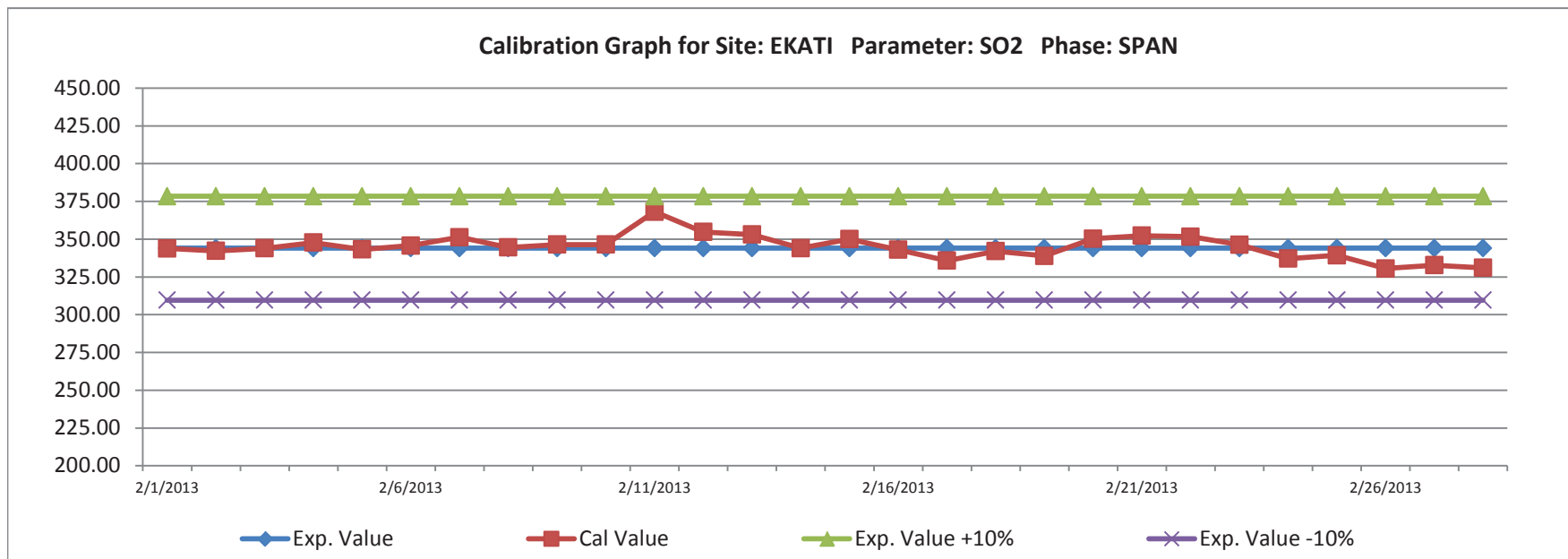
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	464				
MAXIMUM 1-HR AVERAGE:	11	PPB	@ HOUR(S)	0	ON DAY(S) 24
MAXIMUM 24-HR AVERAGE:	3.7	PPB			ON DAY(S) 24
					VAR-VARIOUS
IJS CALIBRATION TIME:	28	HRS	OPERATIONAL TIME:	672	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	1.48		MONTHLY AVERAGE:	1.23	PPB

01 Hour Averages



— EKATI SO2 PPB



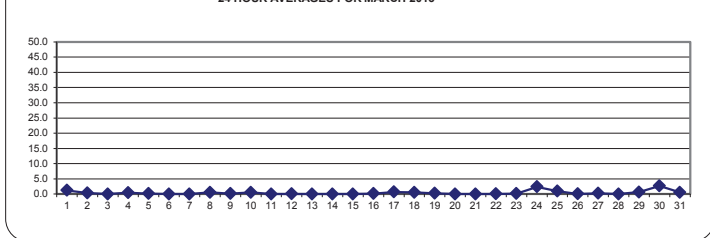
BHP Billiton Diamonds Inc. - EKATI
MARCH 2013
SULPHUR DIOXIDE (SO2) hourly averages in ppb

MST		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
DAY	1	0	2	3	3	2	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1.2	24
2	1	1	1	1	1	1	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.3	24
3	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
4	0	0	0	0	0	0	S	0	0	0	0	1	2	2	2	2	1	0	0	0	0	0	0	0	0	2	0.4	24
5	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	1	0.1	24
6	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
7	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
8	0	0	0	0	1	1	S	2	1	1	1	2	1	1	1	1	0	0	0	0	0	0	0	0	0	2	0.5	24
9	0	0	1	1	1	1	S	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	24
10	0	0	0	0	0	0	S	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0.5	24
11	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
12	0	0	0	0	0	0	S	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0.0	24
13	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
14	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
15	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
16	0	0	0	0	0	0	S	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0.1	24
17	0	0	0	0	0	0	S	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	24
18	0	0	1	0	0	0	S	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	1	0.6	24
19	1	1	1	1	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0	0	0	X	X	X	X	1	0.3	20
20	X	X	X	X	X	X	X	X	X	X	X	0	0	0	0	C	C	Y	Y	Y	Y	Y	Y	Y	Y	0	0.0	6
21	0	0	0	0	0	0	S	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
22	0	0	0	1	0	0	S	0	0	0	0	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	23
23	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	1	0.2	24
24	0	1	1	4	0	0	S	6	5	5	5	6	1	1	4	2	1	3	3	1	0	4	2	0	0	6	2.4	24
25	0	0	1	3	2	2	S	7	4	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1.0	24
26	0	0	0	0	0	0	S	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
27	0	0	0	0	0	0	S	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.2	24
28	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
29	0	0	0	0	0	0	S	0	0	0	0	1	1	2	1	2	1	0	0	0	0	0	0	1	5	5	0.6	24
30	3	2	4	4	8	8	S	5	3	1	2	4	4	5	4	4	3	3	3	0	0	0	0	0	0	8	2.7	24
31	2	5	5	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.6	24
HOURLY MAX	3	5	5	4	8	NA	7	5	5	5	6	4	5	4	4	4	3	3	3	1	1	4	2	1	5			
HOURLY AVG	0.2	0.4	0.6	0.6	0.5	NA	0.9	0.5	0.4	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.3	0.2	0.1	0.3	0.2	0.2	0.3			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

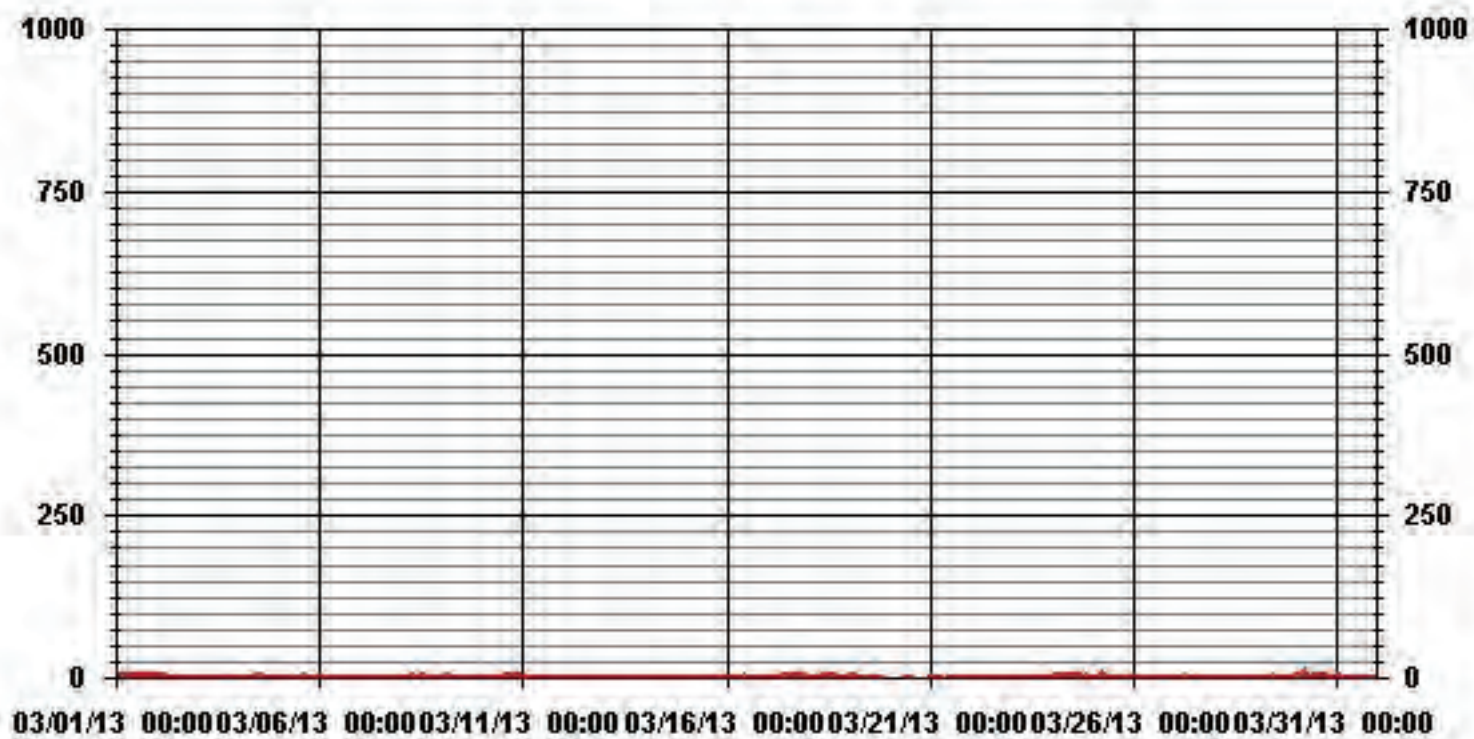
24 HOUR AVERAGES FOR MARCH 2013

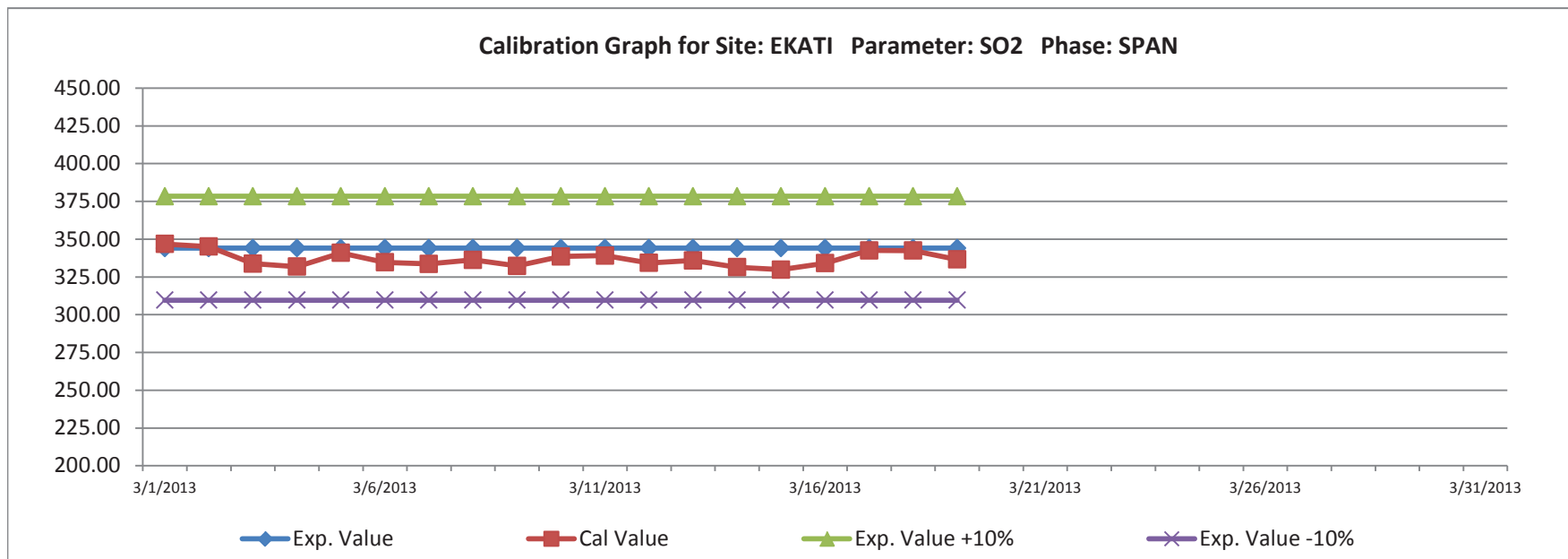


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	165				
MAXIMUM 1-HR AVERAGE:	8	PPB	@ HOUR(S)	4	ON DAY(S) 30
MAXIMUM 24-HR AVERAGE:	2.7	PPB			ON DAY(S) 30
					VAR-VARIOUS
IJS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	721	HRS
MONTHLY CALIBRATION TIME:	7	HRS	AMD OPERATION UPTIME:	96.9	%
STANDARD DEVIATION:	1.02		MONTHLY AVERAGE:	0.43	PPB

01 Hour Averages





Nitrogen Dioxide

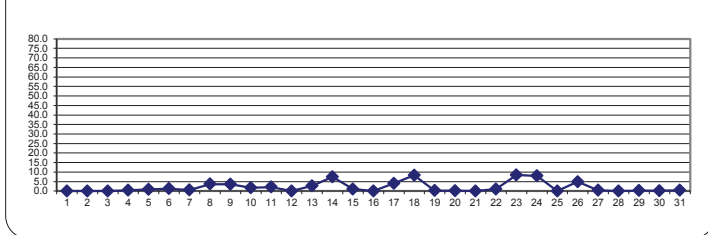
BHP Billiton Diamonds Inc. - EKATI
JANUARY 2013
NITROGEN DIOXIDE (NO2) hourly averages in ppb

MST																								DAILY	24-HOUR			
START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00				
END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.	
DAY																												
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0	
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0	
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0	
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	0	0	0	2	0	1	0	1		2	0.4	9
5	0	1	8	0	0	S	0	0	0	0	0	4	0	0	0	0	4	0	0	0	0	0	2	0		8	0.8	24
6	0	0	0	0	0	S	0	0	1	3	7	4	6	8	0	1	0	0	0	0	0	0	0	0		8	1.3	24
7	0	0	0	0	0	S	0	0	0	0	0	4	3	5	0	0	1	0	0	0	0	0	0	0		5	0.6	24
8	0	0	0	0	0	S	1	0	0	3	2	4	0	1	5	5	4	13	6	0	0	0	13	27		27	3.7	24
9	0	26	30	3	3	S	6	1	0	0	1	1	2	3	0	0	0	5	1	0	0	0	0	0		30	3.6	24
10	0	0	0	0	0	S	0	0	0	1	5	2	0	7	5	4	9	6	0	0	0	0	0	0		9	1.7	24
11	0	0	6	3	0	S	0	0	0	0	0	0	6	3	2	6	9	2	8	3	0	0	0	0		9	2.1	24
12	0	0	0	0	0	S	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		1	0.0	24
13	0	0	0	0	0	S	0	0	0	0	0	0	1	1	0	0	1	3	2	3	3	17	20	11		20	2.7	24
14	13	17	14	17	10	S	12	10	3	5	7	5	5	6	11	13	11	7	1	0	0	0	0	4		17	7.4	24
15	7	0	0	0	5	S	0	0	3	1	2	0	0	0	0	0	0	1	2	0	1	0	1	0		7	1.0	24
16	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0.0	24
17	0	0	2	0	0	S	0	0	1	1	1	2	5	7	2	3	7	15	13	4	4	9	10	7		15	4.0	24
18	13	21	46	24	16	S	9	6	14	4	2	16	3	4	6	1	3	1	0	0	0	0	0	0		46	8.2	24
19	0	0	0	0	0	S	0	0	0	0	4	1	1	0	0	0	0	0	0	0	0	0	0	0		4	0.3	24
20	0	0	0	0	0	S	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0		2	0.2	24
21	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0.0	24
22	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	X	0	0	2	0	1	6	12		12	1.0	23
23	24	26	28	16	6	S	6	11	10	5	5	6	7	9	8	6	5	3	5	4	1	2	1	1		28	8.5	24
24	4	3	9	6	5	S	34	25	13	28	22	18	9	0	0	2	0	2	1	0	0	1	1	0		34	8.0	24
25	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		1	0.0	24
26	2	3	22	37	36	S	2	1	0	0	2	1	0	0	0	0	1	0	1	2	2	0	0	0		37	4.9	24
27	7	0	0	0	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		7	0.3	24
28	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0.0	24
29	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	2	0	0		3	0.3	24
30	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0		2	0.1	24
31	0	0	0	0	0	S	0	0	0	0	0	1	4	1	3	1	0	0	0	0	0	0	0	0		4	0.4	24
HOURLY MAX	24	26	46	37	36	NA	34	25	14	28	22	18	9	9	11	13	11	15	13	4	4	17	20	27				
HOURLY AVG	2.6	3.6	6.1	3.9	3.0	NA	2.6	2.0	1.7	1.9	2.2	2.6	2.0	2.0	1.6	1.8	1.9	2.2	1.5	0.8	0.4	1.2	1.9	2.3				

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

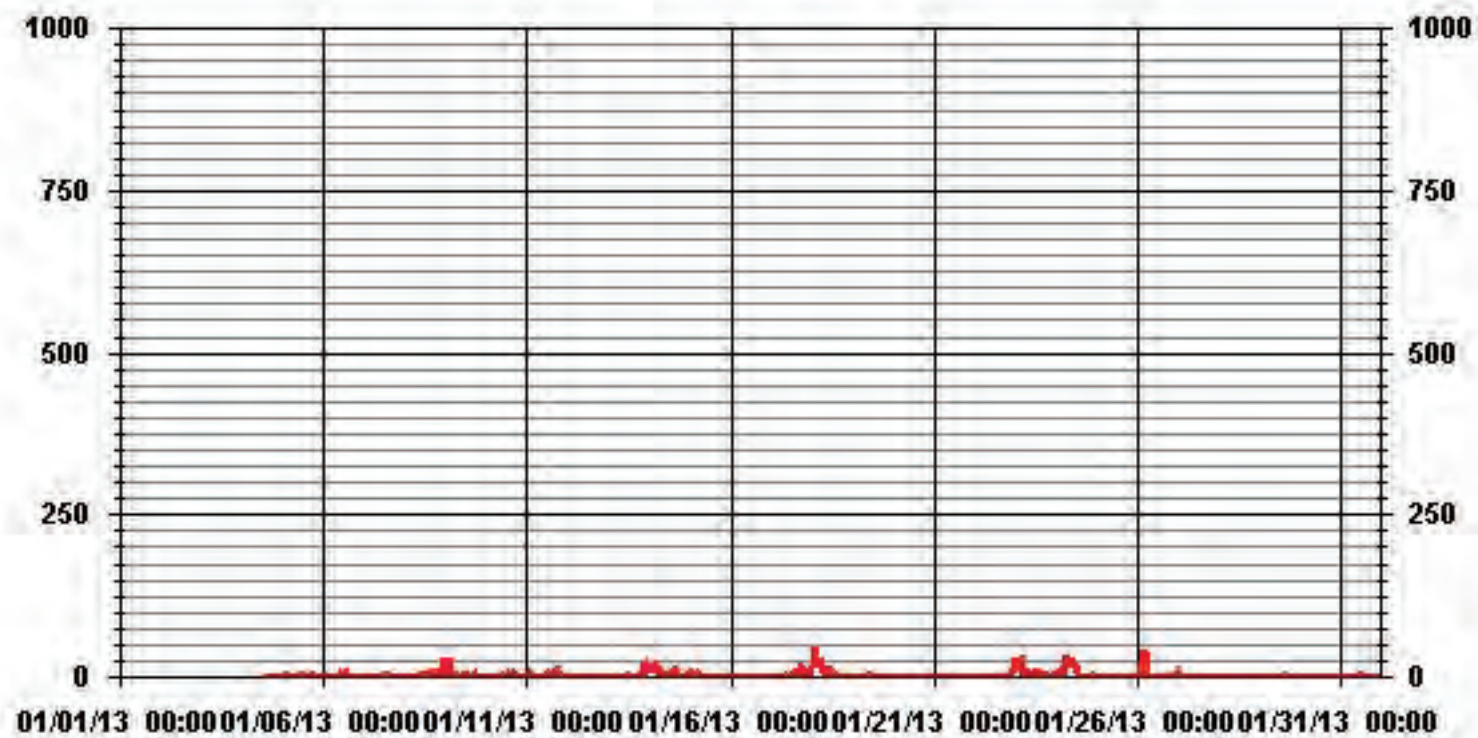
24 HOUR AVERAGES FOR JANUARY 2013



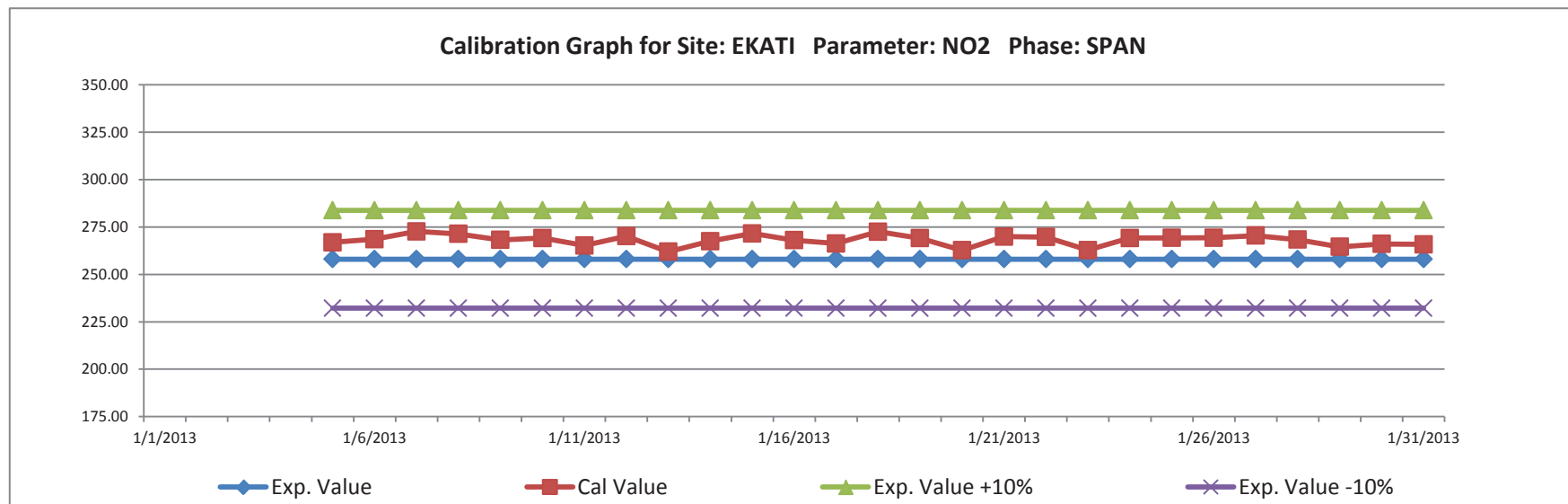
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	210				
MAXIMUM 1-HR AVERAGE:	46	PPB	@ HOUR(S)	2	ON DAY(S) 18
MAXIMUM 24-HR AVERAGE:	8.5	PPB			ON DAY(S) 18
					VAR-VARIOUS
IZS CALIBRATION TIME:	27	HRS	OPERATIONAL TIME:	656	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	88.2	%
STANDARD DEVIATION:	5.46		MONTHLY AVERAGE:	2.24	PPB

01 Hour Averages



— EKATI NO₂ PPB



BHP Billiton Diamonds Inc. - EKATI
FEBRUARY 2013
NITROGEN DIOXIDE (NO2) hourly averages in ppb

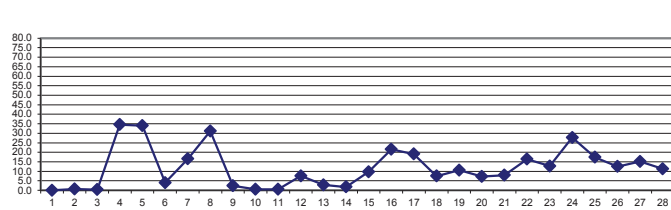
MST

Hour Start Hour End	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	Daily Max.	24-Hour Avg.	Rdgs.	
Day																												
1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
2	0	0	0	0	0	S	0	0	0	0	0	0	4	3	2	3	5	0	0	0	0	0	0	0	5	0.7	24	
3	0	0	0	0	0	S	0	0	0	0	0	0	1	0	0	0	0	4	2	1	0	0	0	0	4	0.3	24	
4	2	0	2	4	9	S	38	25	45	41	35	56	47	47	38	39	37	43	47	42	40	45	53	61	61	34.6	24	
5	55	47	48	28	42	S	57	65	56	54	46	36	37	26	20	28	31	55	22	13	6	1	5	5	65	34.0	24	
6	5	6	6	10	19	S	1	3	2	5	6	2	3	3	3	1	1	2	1	3	4	4	2	0	19	4.0	24	
7	0	0	0	0	0	S	0	0	1	0	0	0	0	2	24	22	20	34	54	54	61	46	44	19	61	16.6	24	
8	46	32	39	47	36	S	36	51	54	38	38	16	7	7	13	2	15	37	44	43	28	43	20	26	54	31.2	24	
9	10	2	3	4	3	S	3	1	0	0	0	0	1	1	2	3	8	3	6	1	0	2	1	0	10	2.3	24	
10	0	0	0	1	1	S	1	3	3	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	3	0.5	24	
11	0	0	0	0	0	S	0	0	1	0	0	0	0	0	0	2	3	1	0	0	0	2	1	2	3	0.5	24	
12	5	6	16	48	24	S	1	1	1	3	2	1	1	1	3	2	2	6	6	13	9	7	8	9	48	7.6	24	
13	8	5	4	5	3	S	15	10	1	1	3	1	1	0	0	3	1	1	1	1	1	0	0	0	15	2.9	24	
14	0	0	0	0	0	S	0	0	1	2	4	6	5	2	2	3	3	1	2	2	2	2	2	2	6	1.8	24	
15	1	1	2	4	2	S	1	1	1	1	1	4	3	1	1	1	3	3	8	32	45	31	40	37	45	9.7	24	
16	14	11	21	16	36	S	10	14	10	10	22	17	21	27	33	30	18	15	27	24	15	40	30	35	40	21.6	24	
17	35	46	48	48	63	S	56	51	16	24	22	6	3	1	2	2	1	2	3	3	1	2	3	1	63	19.1	24	
18	2	3	5	3	7	S	7	6	21	14	13	8	9	51	11	4	2	1	1	1	1	1	1	1	51	7.5	24	
19	1	1	1	1	1	S	1	2	1	2	2	2	1	1	1	5	16	8	12	33	24	44	49	35	49	10.6	24	
20	9	8	9	6	7	S	9	6	1	3	7	6	5	2	3	11	15	14	16	8	3	7	6	7	16	7.3	24	
21	8	3	6	5	7	S	4	5	15	8	4	5	9	12	3	3	31	26	5	7	1	12	2	2	31	8.0	24	
22	2	2	21	17	26	S	16	28	32	52	18	29	44	19	13	5	6	7	6	5	8	6	7	9	52	16.4	24	
23	9	8	9	9	2	S	7	8	3	6	9	27	6	1	5	7	10	11	12	11	10	30	41	52	52	12.7	24	
24	57	47	19	13	39	S	19	38	22	39	29	15	32	26	6	26	27	21	28	27	38	31	18	22	57	27.8	24	
25	18	24	43	25	17	S	49	28	28	27	22	14	15	14	10	16	12	5	5	7	8	4	5	5	49	17.4	24	
26	6	17	19	32	44	S	15	14	26	5	5	8	9	1	10	24	13	27	4	1	4	3	1	1	44	12.6	24	
27	1	2	1	6	6	S	36	15	20	41	42	6	0	0	1	1	5	17	5	3	22	47	42	30	47	15.2	24	
28	30	26	19	7	24	S	22	22	20	21	41	8	2	0	1	1	1	1	1	1	1	1	4	5	41	11.3	24	
Hourly Max	57	47	48	48	63	NA	57	65	56	54	46	56	47	51	38	39	37	55	54	54	61	47	53	61				
Hourly Avg	11.6	10.6	12.2	12.1	14.9	NA	14.4	14.2	13.6	14.2	13.3	9.8	9.5	8.9	7.4	8.7	10.2	12.3	11.4	12.0	11.9	14.8	13.8	13.1				

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

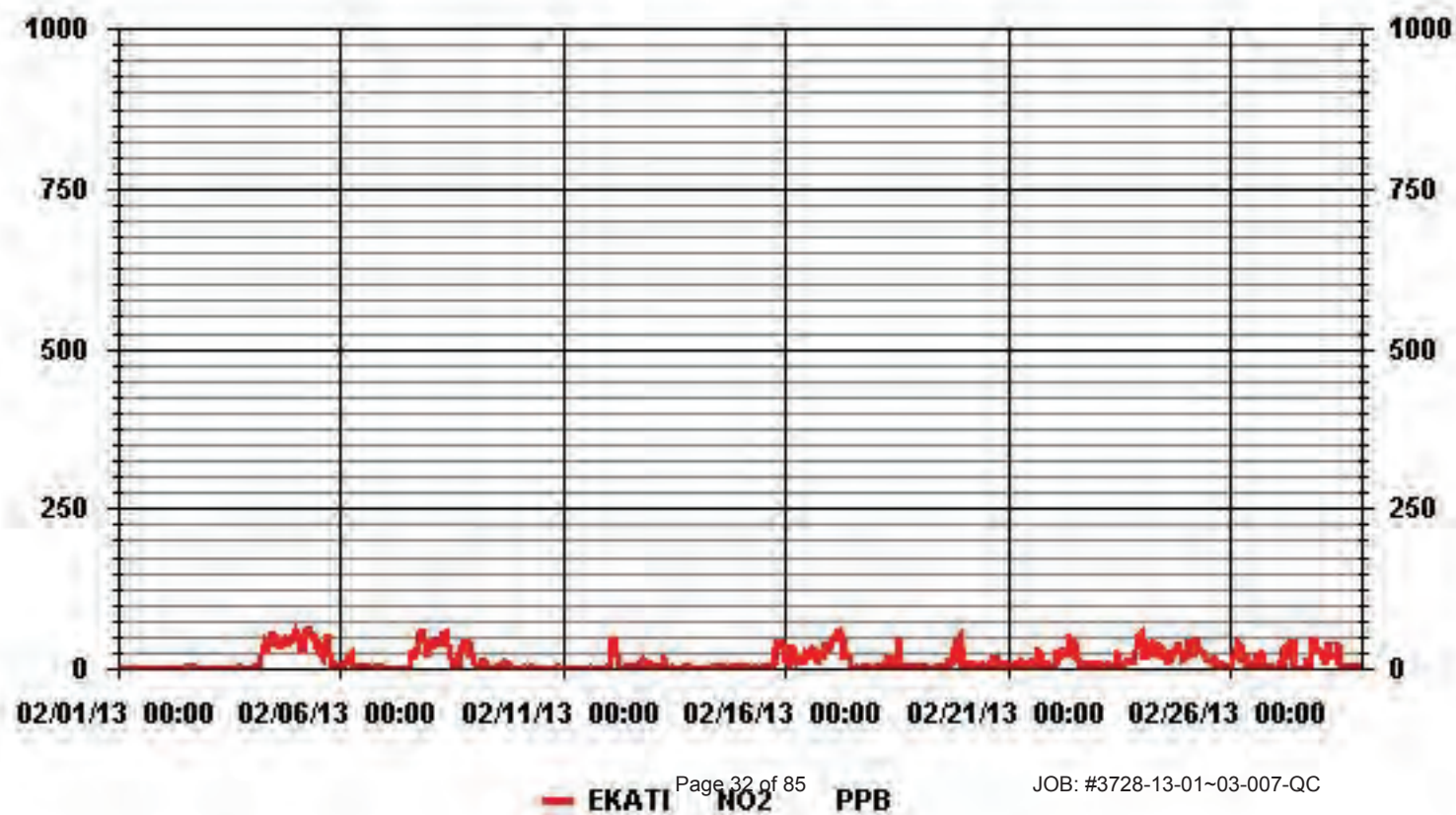
24 HOUR AVERAGES FOR FEBRUARY 2013



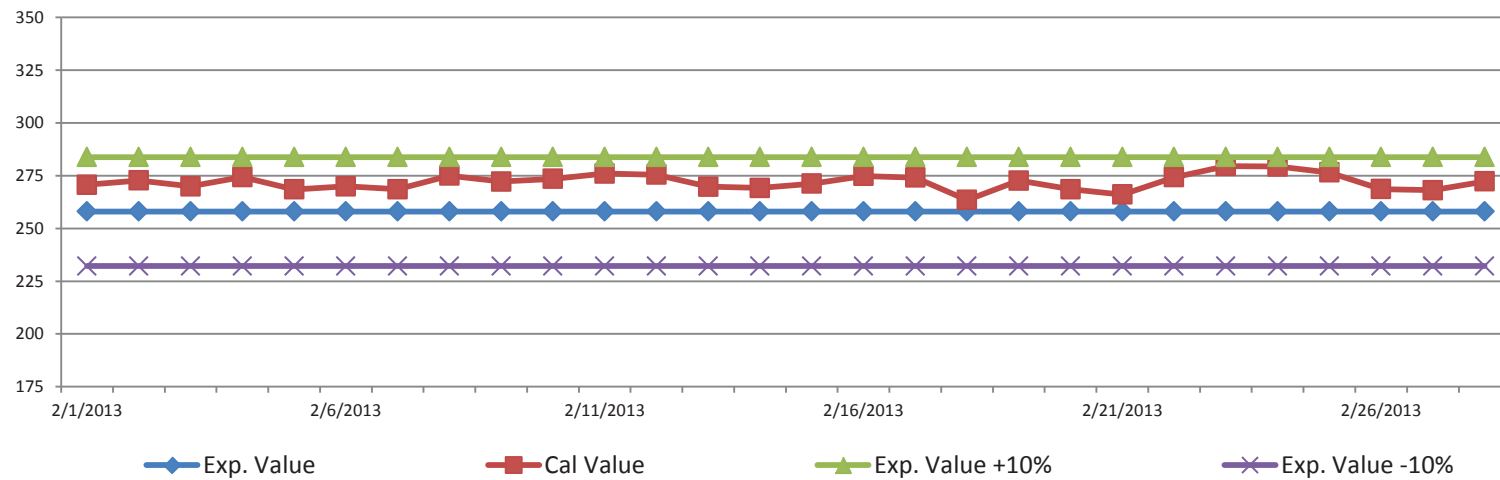
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS: 520						
MAXIMUM 1-HR AVERAGE: 65 PPB @ HOUR(S) 7 ON DAY(S) 5						
MAXIMUM 24-HR AVERAGE: 34.6 PPB ON DAY(S) 4						
VAR-VARIOUS						
IZS CALIBRATION TIME: 28 HRS OPERATIONAL TIME: 672 HRS						
MONTHLY CALIBRATION TIME: 0 HRS AMD OPERATION UPTIME: 100.0 %						
STANDARD DEVIATION: 15.49 MONTHLY AVERAGE: 11.94 PPB						

01 Hour Averages



Calibration Graph for Site: EKATI Parameter: NO2 Phase: SPAN



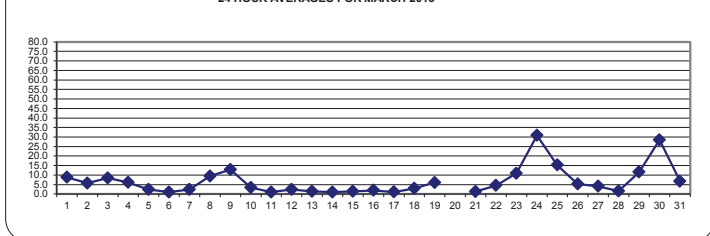
BHP Billiton Diamonds Inc. - EKATI
MARCH 2013
NITROGEN DIOXIDE (NO2) hourly averages in ppb

MST																													
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	Daily	24-Hour		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Max.	Avg.	Rdgs.		
Day																													
1	5	32	46	40	35	S	5	2	1	3	1	1	1	2	2	4	3	2	3	3	3	2	2	4	46	8.8	24		
2	3	2	2	4	3	S	10	6	2	3	4	4	2	2	3	6	5	3	4	9	14	23	10	7	23	5.7	24		
3	7	3	6	6	5	S	8	9	9	16	10	7	6	6	7	9	9	9	10	12	8	12	11	10	16	8.5	24		
4	9	8	6	6	6	S	4	6	5	7	8	10	10	11	12	7	4	4	4	8	1	1	2	2	12	6.1	24		
5	5	4	5	2	1	S	2	1	2	4	2	4	4	2	1	2	2	1	3	2	1	3	2	1	5	2.4	24		
6	1	1	1	1	1	S	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	24		
7	1	2	1	1	1	S	1	1	4	6	6	4	2	1	1	2	5	2	1	3	2	2	4	3	6	2.4	24		
8	4	5	3	6	11	S	25	17	17	17	21	16	14	10	9	3	2	2	3	3	7	5	6	11	25	9.4	24		
9	6	17	19	21	23	S	16	12	22	27	13	7	8	4	6	7	14	5	10	8	12	15	13	12	27	12.9	24		
10	10	8	6	8	4	S	6	6	6	5	2	1	1	1	1	1	2	2	1	1	3	1	1	1	10	3.4	24		
11	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1.0	24		
12	2	1	1	1	1	S	1	2	2	2	2	2	3	14	3	1	2	2	9	2	1	1	1	1	14	2.5	24		
13	2	8	2	2	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8	1.4	24		
14	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	1.0	24		
15	1	1	1	1	1	S	1	2	3	2	1	2	2	2	2	2	1	1	1	1	1	1	1	1	3	1.4	24		
16	1	1	1	1	2	S	7	1	1	1	7	6	2	1	1	1	4	1	1	1	1	1	1	1	7	2.0	24		
17	1	1	1	1	1	S	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.1	24		
18	4	3	3	4	1	S	5	2	2	2	3	4	3	2	1	1	2	2	1	2	2	2	13	3	13	2.9	24		
19	14	15	12	13	5	S	5	5	8	5	4	4	2	2	2	3	3	4	5	4	X	X	X	X	15	6.1	20		
20	X	X	X	X	X	X	X	X	X	X	Y	Y	Y	Y	C	C	Y	Y	Y	Y	Y	Y	Y	Y			2		
21	0	0	0	0	0	S	0	C	C	C	C	C	C	C	2	2	2	2	2	2	2	2	3	2	3	1.3	24		
22	2	1	7	24	2	S	3	5	2	Y	2	2	1	2	2	2	2	2	2	3	11	9	7	6	24	4.5	23		
23	10	26	16	10	8	S	5	5	6	8	3	2	3	3	4	11	23	8	21	3	30	10	6	30	30	10.9	24		
24	17	30	22	44	28	S	53	52	50	52	50	23	18	45	21	12	35	39	18	11	38	33	14	4	53	30.8	24		
25	9	7	21	37	45	S	66	51	30	21	30	7	2	8	8	1	1	1	2	0	2	0	1	1	66	15.3	24		
26	1	14	16	22	1	S	1	3	4	14	17	23	1	0	1	1	1	1	0	0	1	0	0	0	23	5.3	24		
27	0	0	1	1	2	S	51	9	15	1	0	0	1	0	1	0	1	1	1	0	1	3	2	3	51	4.1	24		
28	3	2	0	0	0	S	0	1	1	0	3	1	1	0	0	0	2	1	2	1	4	7	5	2	7	1.6	24		
29	1	3	2	4	3	S	3	5	5	11	20	18	26	13	18	21	6	1	1	1	10	13	26	54	54	11.5	24		
30	45	34	47	48	55	S	48	35	26	27	32	33	36	36	33	28	29	23	4	2	8	10	7	8	55	28.4	24		
31	19	37	35	7	0	S	1	5	2	3	1	1	0	2	2	0	0	1	0	1	4	9	11	14	37	6.7	24		
Hourly Max	45	37	47	48	55	NA	66	52	50	52	50	33	36	45	33	28	35	39	21	12	38	33	26	54					
Hourly Avg	6.2	8.9	9.5	10.6	8.3	NA	11.1	8.6	7.9	8.7	8.6	6.4	5.3	6.0	5.0	4.4	5.5	4.2	3.8	2.9	5.9	5.9	5.3	6.4					

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

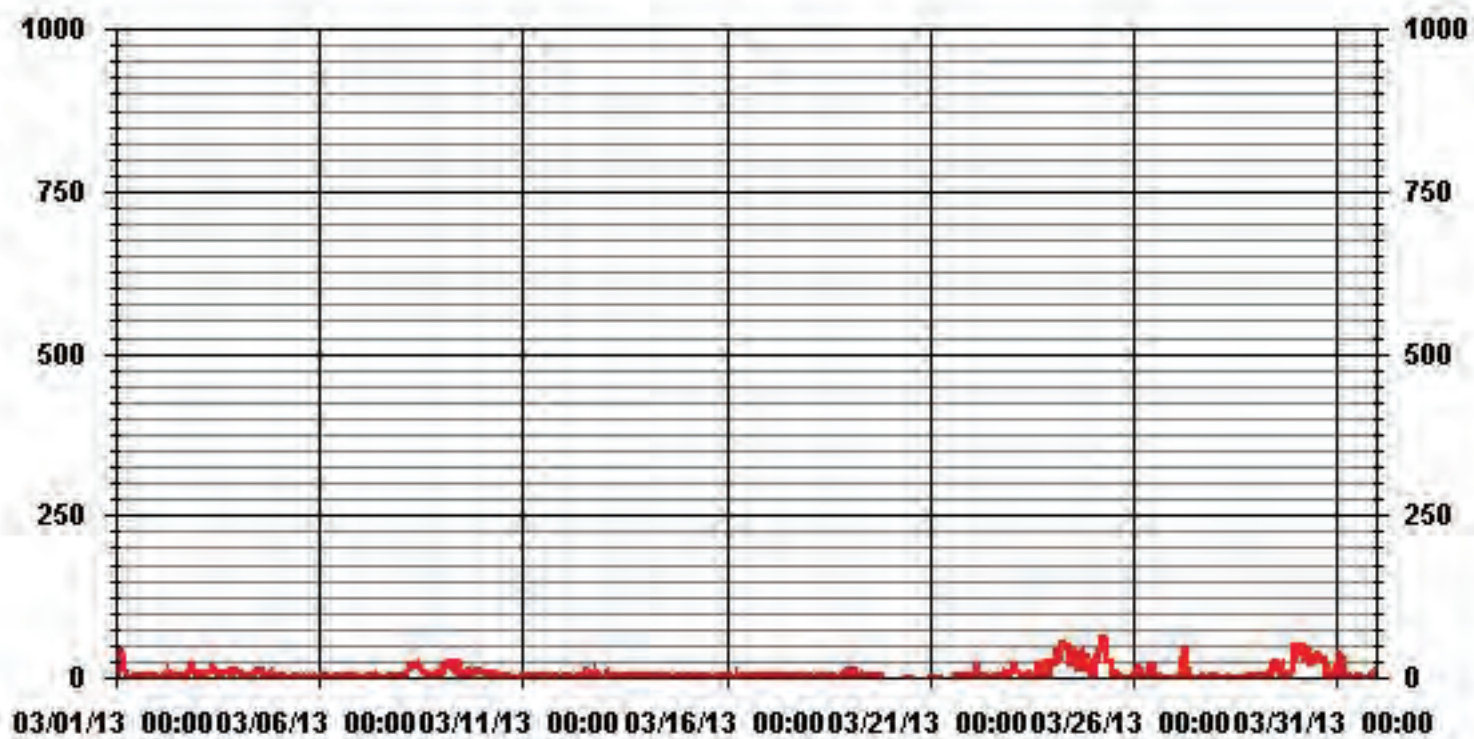
24 HOUR AVERAGES FOR MARCH 2013



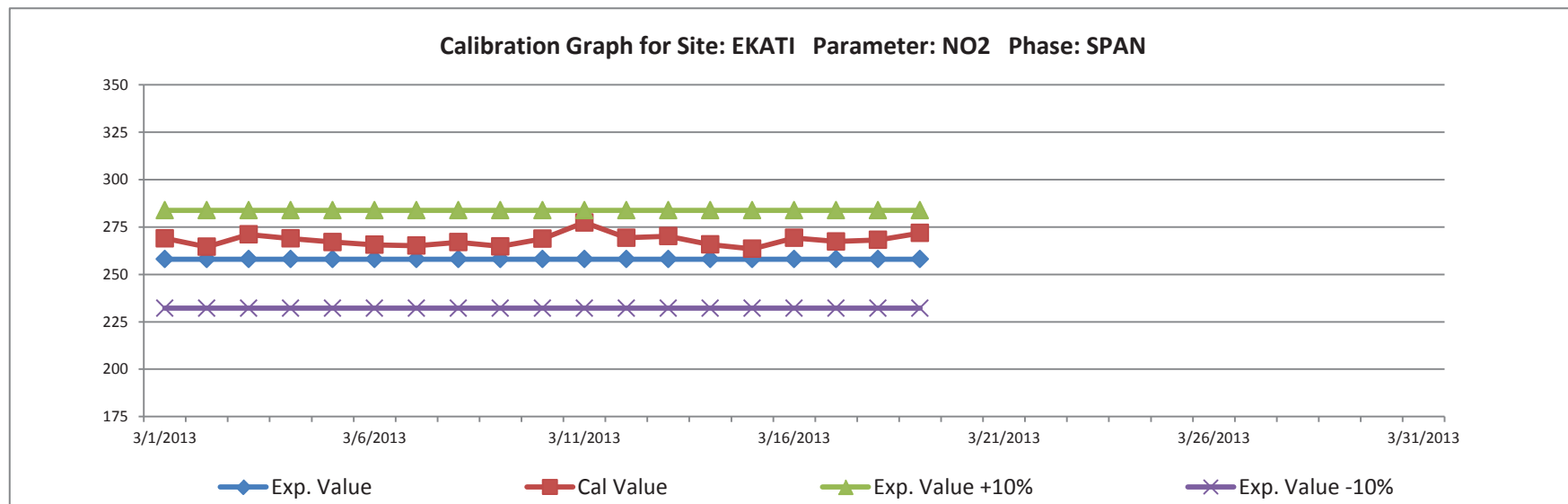
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	643				
MAXIMUM 1-HR AVERAGE:	66	PPB	@ HOUR(S)	6	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	30.8	PPB			ON DAY(S)
					VAR-VARIOUS
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	717	HRS
MONTHLY CALIBRATION TIME:	10	HRS	AMD OPERATION UPTIME:	96.4	%
STANDARD DEVIATION:	10.52		MONTHLY AVERAGE:	6.76	PPB

01 Hour Averages



— EKATI NO2 PPB



Nitric Oxide

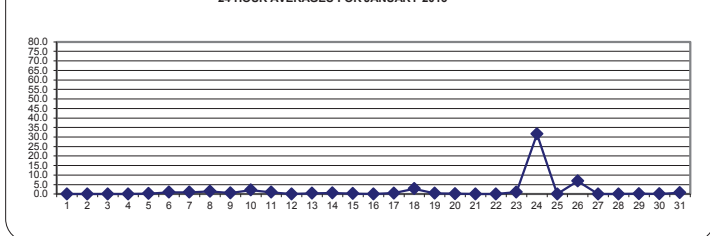
BHP Billiton Diamonds Inc. - EKATI
JANUARY 2013
NITRIC OXIDE (NO) hourly averages in ppb

MST																												
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily	24-Hour		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Max.	Avg.	Rdgs.	
Day																												
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0	
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0	
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0	
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	0	0	0	0	0	0	0	0	0	0	0.0	9
5	0	0	0	0	0	S	0	0	0	0	0	5	0	0	0	0	0	1	0	0	0	0	0	0	5	0.3	24	
6	0	0	0	0	0	S	0	0	0	0	1	0	2	19	0	0	0	0	0	0	0	0	0	0	19	1.0	24	
7	0	0	0	0	0	S	0	0	0	0	0	5	1	16	0	0	0	0	0	0	0	0	0	0	16	1.0	24	
8	0	0	0	0	0	S	0	0	0	0	0	4	0	0	2	1	0	6	2	0	0	0	5	12	12	1.4	24	
9	0	3	7	0	0	S	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	7	0.6	24	
10	0	0	0	0	0	S	0	0	0	2	6	4	0	8	6	5	12	6	0	0	0	0	0	0	12	2.1	24	
11	0	0	3	1	0	S	0	0	0	0	0	0	10	6	1	0	0	0	0	0	0	0	0	0	10	0.9	24	
12	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
13	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	5	0.3	24	
14	0	0	0	1	0	S	0	0	0	0	0	0	0	0	5	4	2	0	0	0	0	0	0	0	5	0.5	24	
15	5	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0.2	24	
16	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
17	0	0	0	0	0	S	0	0	0	0	0	0	1	2	0	0	0	8	0	0	0	0	0	0	8	0.5	24	
18	0	1	27	3	1	S	0	0	5	1	0	17	1	3	4	0	1	0	0	0	0	0	0	0	27	2.8	24	
19	0	0	0	0	0	S	0	0	0	0	4	4	2	0	0	0	0	0	0	0	0	0	0	0	4	0.4	24	
20	0	0	0	0	0	S	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	2	0.1	24	
21	0	0	0	0	0	S	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
22	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	X	0	0	0	0	0	0	0	0	0.0	23	
23	10	2	4	1	0	S	0	0	0	0	0	0	2	3	2	0	0	0	0	0	0	0	0	0	10	1.0	24	
24	0	0	8	0	0	S	52	142	45	189	120	97	72	1	0	0	0	0	0	0	0	0	0	0	189	31.6	24	
25	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
26	0	0	14	64	78	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78	6.8	24	
27	0	0	0	0	0	S	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
28	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
29	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4	0.2	24	
30	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0.1	24	
31	0	0	0	0	0	S	0	0	0	0	0	1	6	1	6	2	0	0	0	0	0	0	0	0	6	0.7	24	
Hourly Max	10	3	27	64	78	NA	52	142	45	189	120	97	72	19	6	5	12	8	2	2	0	1	5	12				
Hourly Avg	0.6	0.2	2.3	2.6	2.9	NA	1.9	5.3	1.9	7.1	4.9	5.1	3.7	2.3	1.0	0.6	0.6	0.8	0.1	0.1	0.0	0.0	0.3	0.6				

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

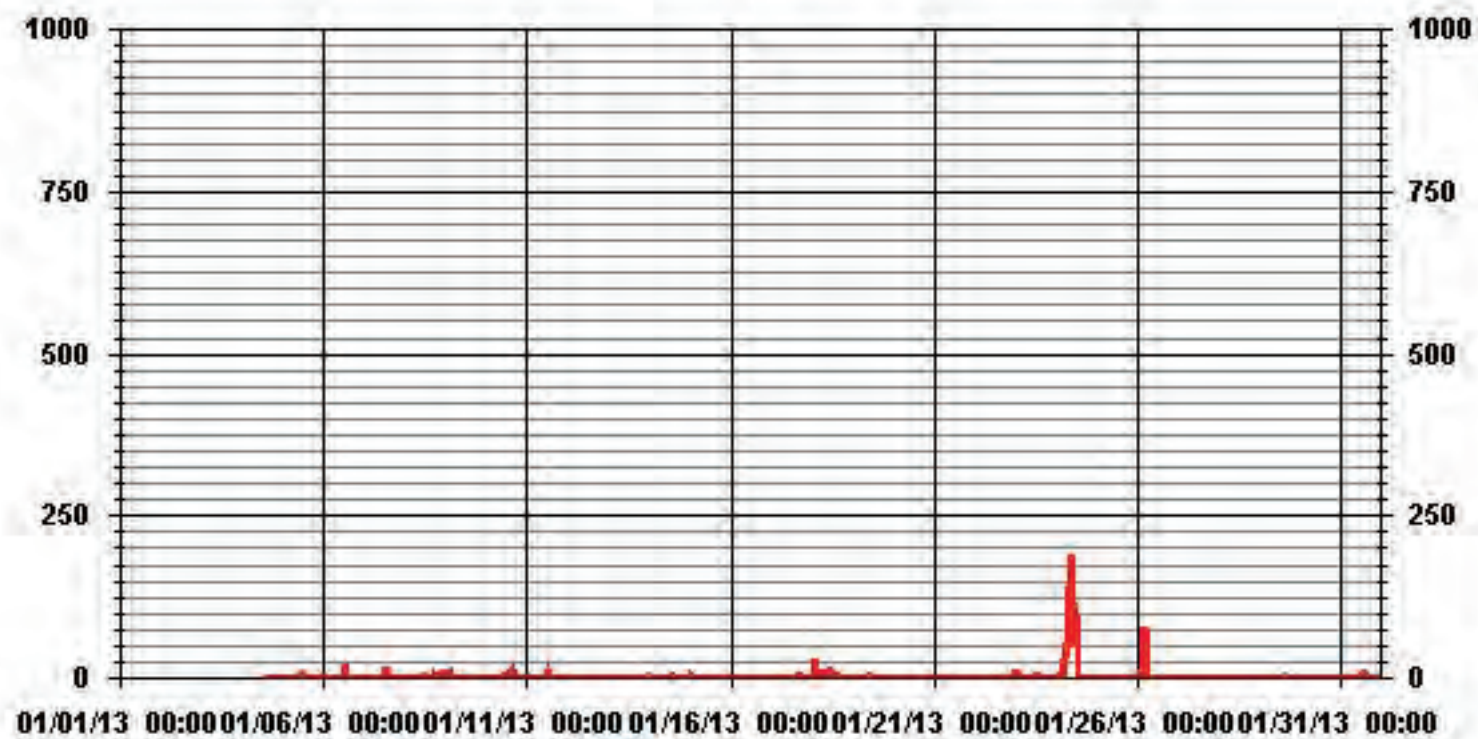
24 HOUR AVERAGES FOR JANUARY 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	87				
MAXIMUM 1-HR AVERAGE:	189	PPB	@ HOUR(S)	9	ON DAY(S) 24
MAXIMUM 24-HR AVERAGE:	31.6	PPB			ON DAY(S) 24
					VAR-VARIOUS
IZS CALIBRATION TIME:	27	HRS			OPERATIONAL TIME: 656 HRS
MONTHLY CALIBRATION TIME:	0	HRS			AMD OPERATION UPTIME: 88.2 %
STANDARD DEVIATION:	12.65				MONTHLY AVERAGE: 1.92 PPB

01 Hour Averages



— EKATI NO PPB

BHP Billiton Diamonds Inc. - EKATI

FEBRUARY 2013

NITRIC OXIDE (NO) hourly averages in ppb

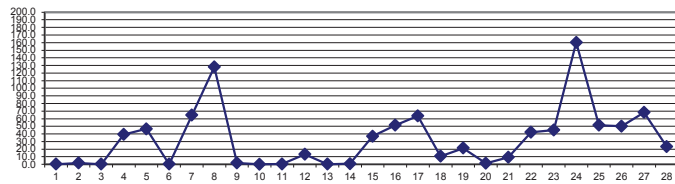
MST

DAY	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY MAX.	24-HOUR AVG.	RDGS
1	0	0	0	0	0	S	0	0	0	0	0	0	0	3	1	2	0	0	0	0	0	0	0	0	3	0.3	24
2	0	0	0	0	0	S	0	0	0	0	0	0	11	7	1	4	16	0	0	0	0	0	0	0	16	1.7	24
3	0	0	0	0	0	S	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2	0.2	24
4	0	0	0	0	0	S	5	17	16	15	30	112	64	69	51	50	33	31	56	24	37	45	116	135	135	39.4	24
5	136	62	78	48	81	S	26	137	95	58	63	34	42	25	13	26	41	102	5	0	0	0	0	0	137	46.6	24
6	0	0	0	0	2	S	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	2	0.2	24
7	0	0	0	0	0	S	0	0	0	0	0	0	0	0	28	20	9	83	273	307	358	167	195	45	358	64.6	24
8	259	97	148	261	212	S	54	260	290	165	148	53	10	15	30	1	63	145	202	153	90	175	27	83	290	127.9	24
9	16	0	0	0	0	S	0	0	0	0	0	0	0	0	3	3	14	0	0	0	0	0	0	0	16	1.6	24
10	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
11	0	0	0	0	0	S	1	0	1	0	0	0	0	0	0	2	2	1	0	0	0	1	1	1	2	0.4	24
12	1	1	8	219	65	S	1	0	0	0	0	0	0	1	1	1	0	1	0	3	0	0	0	0	219	13.1	24
13	0	0	0	0	0	S	1	1	0	0	1	0	0	0	0	1	3	0	0	0	0	0	0	0	3	0.3	24
14	0	0	0	0	0	S	1	0	0	0	2	3	4	2	1	2	1	0	0	0	0	0	1	0	4	0.7	24
15	0	0	0	1	0	S	1	0	0	0	0	2	2	1	1	1	1	1	4	121	209	143	181	180	209	36.9	24
16	9	6	31	12	113	S	6	24	18	7	56	59	66	104	108	89	37	13	66	48	12	131	49	116	131	51.3	24
17	66	191	220	161	399	S	113	211	15	29	43	3	2	1	1	1	1	0	1	0	0	0	1	0	399	63.4	24
18	0	0	1	1	1	S	2	1	21	3	5	4	8	179	19	2	1	0	0	0	0	0	0	0	179	10.8	24
19	0	0	0	0	0	S	1	0	0	0	1	1	0	1	0	3	28	2	12	96	18	125	165	37	165	21.3	24
20	1	1	1	0	1	S	2	0	0	0	2	3	3	1	1	6	8	4	1	0	0	0	0	0	8	1.5	24
21	1	0	1	0	1	S	2	1	1	1	1	2	8	26	1	1	73	48	10	10	0	24	0	0	73	9.2	24
22	0	0	45	30	52	S	17	97	89	189	35	111	194	65	19	3	3	3	2	2	3	2	2	3	194	42.0	24
23	4	3	2	2	1	S	3	5	2	5	9	101	7	1	8	9	10	7	5	4	5	178	258	406	406	45.0	24
24	472	395	58	15	287	S	21	200	69	236	168	133	266	164	10	124	131	49	134	122	196	241	96	98	472	160.2	24
25	55	106	255	67	38	S	90	113	99	80	64	26	39	31	19	34	29	4	4	7	11	2	3	3	255	51.3	24
26	5	57	55	198	293	S	11	23	122	3	4	22	33	1	48	104	54	107	9	0	1	1	1	0	293	50.1	24
27	0	1	1	2	6	S	69	37	119	207	271	11	0	1	1	1	9	42	2	1	87	339	253	108	339	68.2	24
28	120	69	41	5	64	S	10	24	27	28	130	12	2	0	0	0	0	0	0	0	0	0	1	0	130	23.2	24
HOURLY MAX	472	395	255	261	399	NA	113	260	290	236	271	133	266	179	108	124	131	145	273	307	358	339	258	406			
HOURLY AVG	40.9	35.3	33.8	36.5	57.7	NA	15.6	41.1	35.1	36.6	36.9	24.7	27.3	25.0	13.1	17.6	20.1	23.0	28.1	32.1	36.7	56.2	48.2	43.4			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

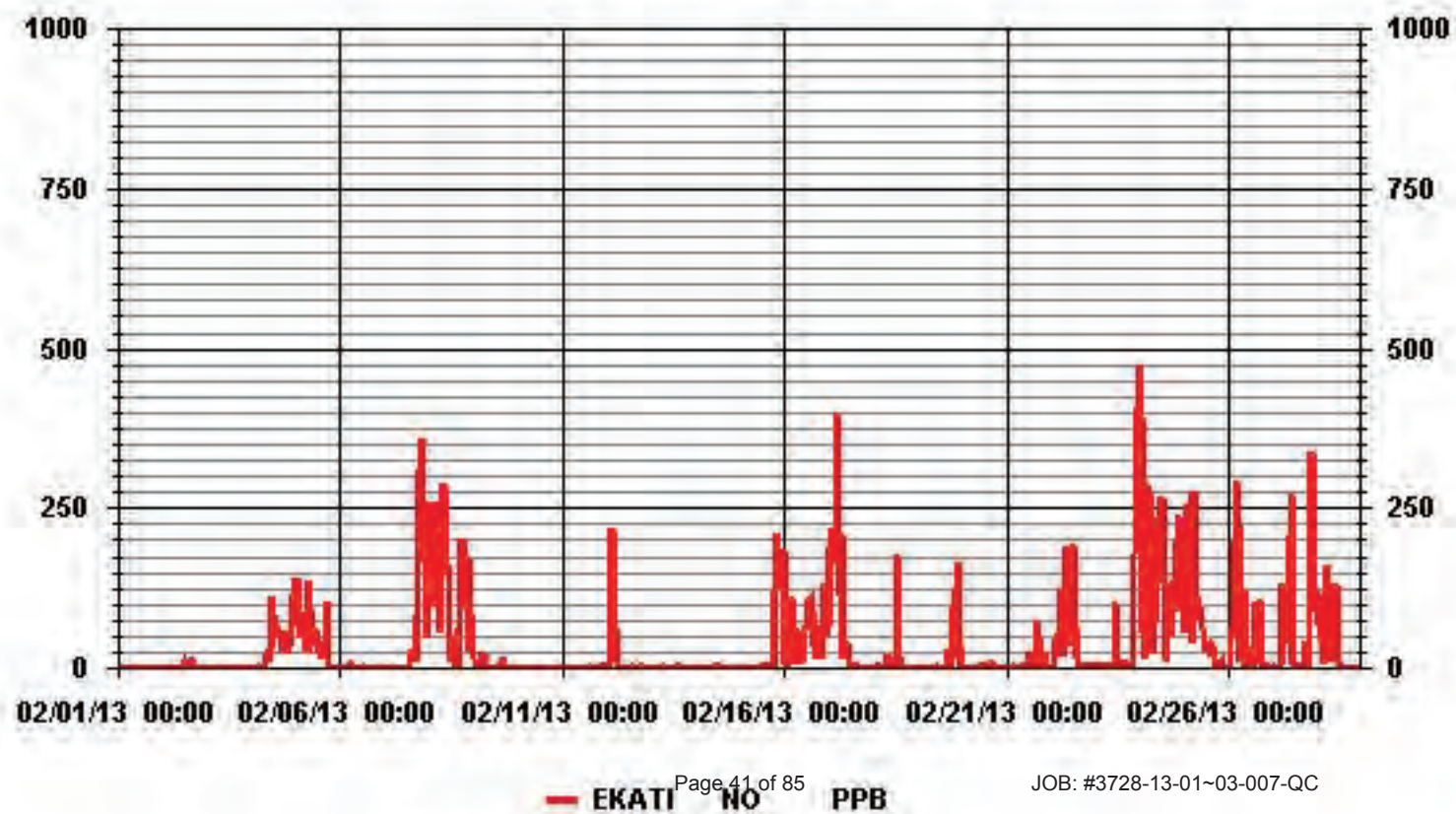
24 HOUR AVERAGES FOR FEBRUARY 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	379				
MAXIMUM 1-HR AVERAGE:	472	PPB	@ HOUR(S)	0	ON DAY(S) 24
MAXIMUM 24-HR AVERAGE:	160.2	PPB			ON DAY(S) 24
					VAR-VARIOUS
IZS CALIBRATION TIME:	28	HRS	OPERATIONAL TIME:	672	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	69.05		MONTHLY AVERAGE:	33.26	PPB

01 Hour Averages



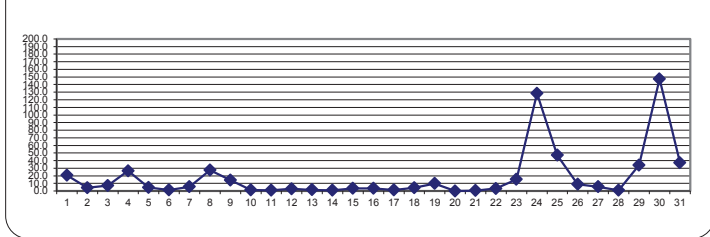
BHP Billiton Diamonds Inc. - EKATI
MARCH 2013
NITRIC OXIDE (NO) hourly averages in ppb

MST																								DAILY	24-HOUR				
HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00	MAX.	AVG.	RDGS.
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	0:00				
DAY																													
1	0	93	153	128	80	S	2	1	0	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	153	20.6	24	
2	1	1	1	1	1	S	3	3	1	1	2	3	2	1	2	4	3	1	2	3	10	40	6	3	40	4.1	24		
3	2	1	3	3	2	S	3	5	5	15	8	6	6	7	8	11	9	9	8	17	5	12	13	9	17	7.3	24		
4	9	12	9	12	11	S	5	16	13	34	43	89	82	82	109	33	11	7	6	22	1	1	1	1	109	26.5	24		
5	6	3	4	3	2	S	2	1	2	7	2	10	10	5	3	8	6	2	11	5	1	7	6	3	11	4.7	24		
6	1	1	1	1	1	S	2	4	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	4	1.2	24		
7	1	5	1	1	1	S	2	1	10	14	10	11	4	2	2	2	8	3	1	4	2	4	24	14	24	5.5	24		
8	11	6	2	11	43	S	36	64	60	62	82	68	52	36	39	8	4	4	6	5	7	7	5	10	82	27.3	24		
9	7	18	41	32	43	S	8	11	24	51	21	11	12	5	7	9	16	3	4	2	1	1	1	3	51	14.4	24		
10	2	1	1	2	1	S	2	2	2	2	1	1	1	1	1	1	1	1	1	1	3	1	1	1	3	1.3	24		
11	1	1	1	1	1	S	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	24		
12	1	1	1	1	1	S	2	1	1	1	2	2	4	25	5	1	3	2	8	2	1	1	1	1	25	3.0	24		
13	2	8	2	1	1	S	2	1	1	1	1	1	2	3	1	1	1	1	1	1	1	1	1	1	8	1.6	24		
14	1	1	1	1	1	S	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	1.1	24		
15	1	1	1	1	1	S	2	4	14	13	4	7	4	6	3	5	3	2	2	1	1	1	1	1	14	3.4	24		
16	1	1	1	1	2	S	5	2	1	2	26	16	2	2	1	1	7	1	1	1	1	1	1	1	26	3.4	24		
17	1	1	1	1	1	S	2	1	1	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	3	1.2	24		
18	3	2	2	3	1	S	4	1	2	1	7	9	5	3	2	2	3	2	1	2	1	1	40	3	40	4.3	24		
19	31	35	12	22	6	S	3	2	12	12	12	10	3	4	4	5	4	5	4	2	X	X	X	X	35	9.9	20		
20	X	X	X	X	X	X	X	X	X	X	Y	Y	Y	Y	C	C	Y	Y	Y	Y	Y	Y	Y	Y	Y		2		
21	0	0	0	0	0	S	0	C	C	C	C	C	C	C	2	1	2	1	1	1	1	1	1	1	2	0.7	24		
22	1	1	8	41	1	S	2	1	1	Y	1	1	1	2	2	1	1	1	1	1	1	1	1	1	41	3.3	23		
23	4	12	4	2	1	S	2	2	3	5	3	2	3	4	5	21	51	8	58	1	100	8	0	51	100	15.2	24		
24	15	44	62	219	41	S	108	293	301	272	318	88	73	227	85	47	175	150	61	10	254	97	9	0	318	128.2	24		
25	3	0	41	185	158	S	121	204	114	52	122	20	2	35	26	1	1	0	0	0	0	0	0	0	204	47.2	24		
26	0	32	9	17	0	S	2	1	3	23	37	73	1	0	1	1	1	0	0	0	0	0	0	0	73	8.7	24		
27	0	0	0	0	0	S	69	17	38	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	69	5.5	24		
28	0	0	0	0	0	S	1	5	2	0	5	2	2	0	0	0	2	1	1	0	0	1	1	0	5	1.0	24		
29	0	1	0	0	0	S	1	1	2	12	30	46	122	24	92	67	6	1	0	0	1	1	70	305	305	34.0	24		
30	178	107	254	233	356	S	77	196	94	137	228	235	299	257	238	157	170	148	3	1	2	6	3	6	356	147.2	24		
31	141	324	309	52	0	S	1	7	2	7	1	2	1	3	2	1	0	1	0	0	0	1	0	1	324	37.2	24		
HOURLY MAX	178	324	309	233	356	NA	121	293	301	272	318	235	299	257	238	157	175	150	61	22	254	97	70	305					
HOURLY AVG	14.1	23.8	30.8	32.5	25.2	NA	15.8	29.3	24.6	26.1	33.6	24.8	24.1	25.5	22.2	13.2	16.4	12.0	6.2	2.9	13.8	6.9	6.6	14.5					

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

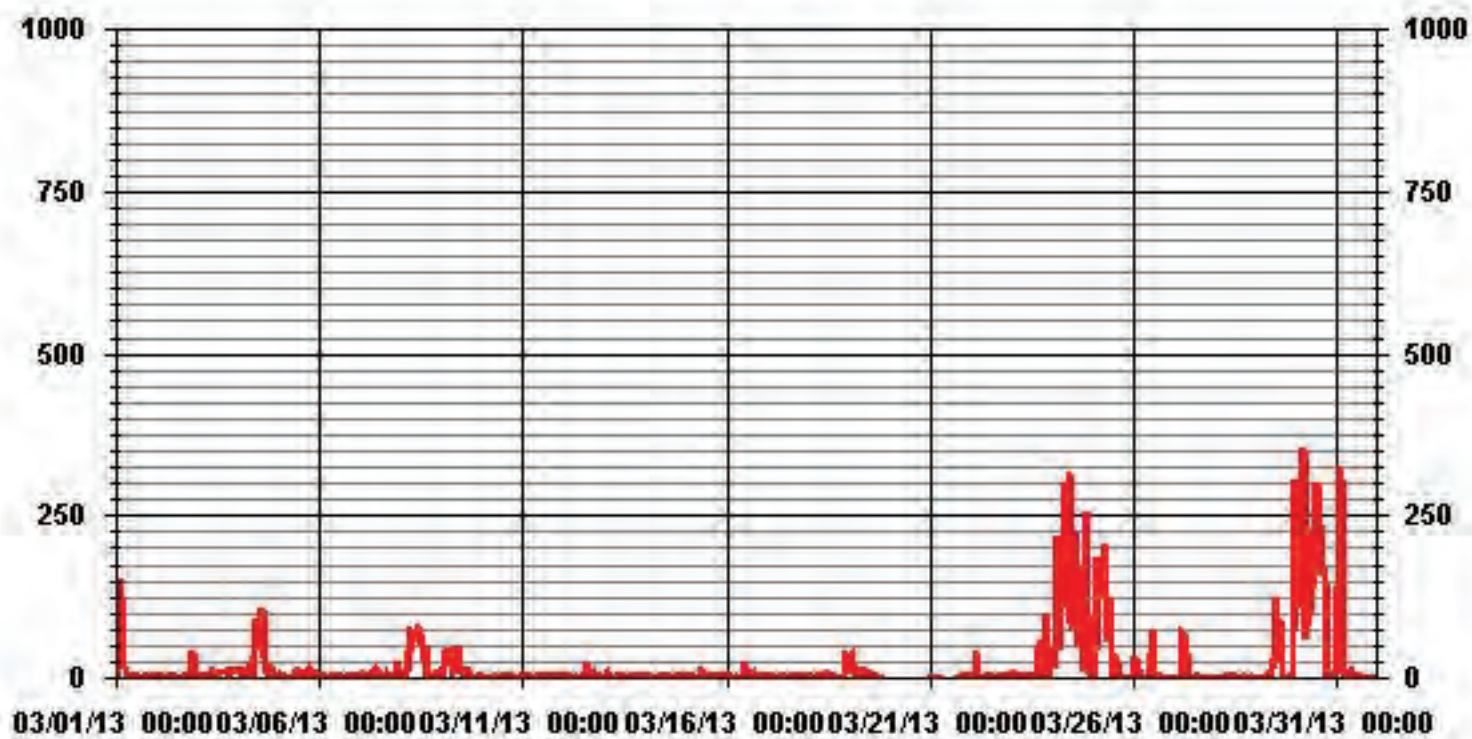
24 HOUR AVERAGES FOR MARCH 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	608				
MAXIMUM 1-HR AVERAGE:	356	PPB	@ HOUR(S)	4	ON DAY(S) 30
MAXIMUM 24-HR AVERAGE:	147.2	PPB			ON DAY(S) 30
					VAR-VARIOUS
IJS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	717	HRS
MONTHLY CALIBRATION TIME:	10	HRS	AMD OPERATION UPTIME:	96.4	%
STANDARD DEVIATION:	51.79		MONTHLY AVERAGE:	19.30	PPB

01 Hour Averages



— EKATI NO PPB

Oxides of Nitrogen

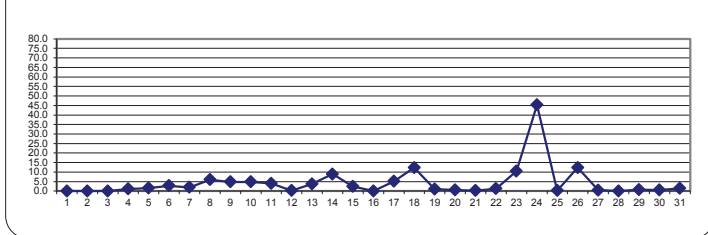
BHP Billiton Diamonds Inc. - EKATI
JANUARY 2013
OXIDES OF NITROGEN (NOx) hourly averages in ppb

MST																								DAILY	24-HOUR		
HOURLY MAX	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	MAX.	AVG.	RDGS.
HOURLY AVG	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
DAY																											
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	0	0	3	3	0	2	0	1	3	1.1	9
5	0	1	9	0	0	S	0	0	2	1	0	12	0	0	0	1	7	0	0	0	0	4	0	12	1.6	24	
6	0	0	0	0	0	S	0	1	1	5	10	5	10	29	1	2	0	0	0	0	0	0	0	29	2.8	24	
7	0	0	0	0	0	S	2	0	1	0	0	12	6	23	0	0	1	0	0	0	0	0	0	23	2.0	24	
8	0	0	0	0	0	S	2	1	0	5	3	10	0	2	8	8	6	22	10	0	0	0	20	41	41	6.0	24
9	0	30	39	3	5	S	8	1	0	0	1	2	3	7	0	0	0	8	3	0	0	0	0	39	4.8	24	
10	0	0	0	0	1	S	0	0	0	6	13	9	2	17	13	11	23	14	1	0	0	0	1	23	4.8	24	
11	0	2	11	7	0	S	0	0	2	0	1	2	19	11	5	9	10	2	8	3	0	0	0	19	4.0	24	
12	0	0	0	0	0	S	0	0	0	0	0	4	0	0	0	0	0	0	0	1	0	0	0	4	0.2	24	
13	0	0	0	0	0	S	0	1	0	0	0	1	2	3	1	0	2	5	3	4	2	19	24	18	24	3.7	24
14	14	18	15	20	11	S	12	11	3	5	8	6	7	8	18	19	14	9	1	0	0	0	0	6	20	8.9	24
15	15	0	0	1	8	S	1	2	5	2	5	1	1	0	2	0	2	2	4	0	2	0	2	0	15	2.4	24
16	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0.0	24	
17	0	0	4	0	0	S	0	0	1	1	1	3	8	11	3	5	8	24	15	5	4	9	10	6	24	5.1	24
18	15	25	75	29	19	S	10	8	21	7	4	35	6	9	11	2	6	2	0	0	0	0	0	75	12.3	24	
19	0	0	0	0	0	S	0	0	0	1	10	7	5	0	0	0	0	0	0	0	0	0	0	10	1.0	24	
20	0	0	0	0	0	S	0	0	0	0	0	0	6	0	0	5	0	0	0	0	0	0	1	6	0.5	24	
21	1	0	0	0	0	S	0	0	0	1	0	2	2	0	0	0	0	0	0	0	0	0	0	2	0.3	24	
22	0	0	0	0	0	S	0	0	0	0	0	0	1	0	0	2	X	0	0	2	0	1	8	13	13	1.2	23
23	36	30	34	19	6	S	6	11	11	5	6	7	11	14	12	8	6	4	5	4	1	2	2	1	36	10.5	24
24	4	3	20	8	6	S	194	169	61	219	145	117	83	3	2	4	0	2	1	0	0	2	0	0	219	45.3	24
25	0	0	0	0	0	S	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0.2	24	
26	2	5	38	103	117	S	3	1	0	0	3	1	1	0	0	0	1	0	1	3	2	1	0	0	117	12.3	24
27	7	0	0	0	1	S	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	7	0.5	24	
28	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
29	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	9	0	0	2	0	0	4	0	0	9	0.7	24
30	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	3	0	2	1	6	0	0	0	6	0.6	24	
31	0	0	0	0	0	S	0	0	0	0	0	3	11	3	11	4	0	1	0	0	0	0	0	11	1.4	24	
HOURLY MAX	36	30	75	103	117	NA	194	169	61	219	145	117	83	29	18	19	23	24	15	6	4	19	24	41			
HOURLY AVG	3.5	4.2	9.1	7.0	6.4	NA	8.8	7.7	4.0	9.6	7.8	8.9	6.9	5.2	3.3	3.3	3.0	3.7	2.1	1.1	0.4	1.4	2.5	3.2			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

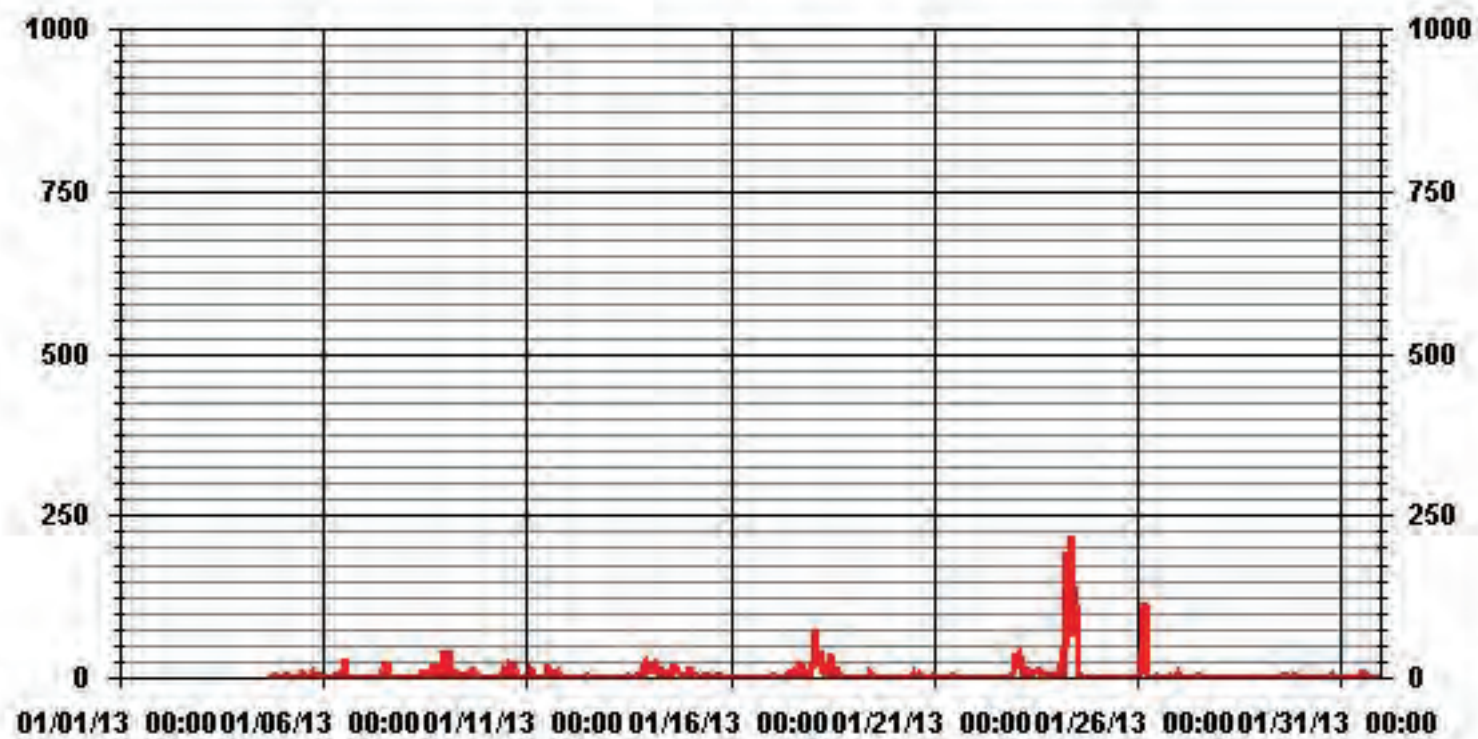
24 HOUR AVERAGES FOR JANUARY 2013



MONTHLY SUMMARY

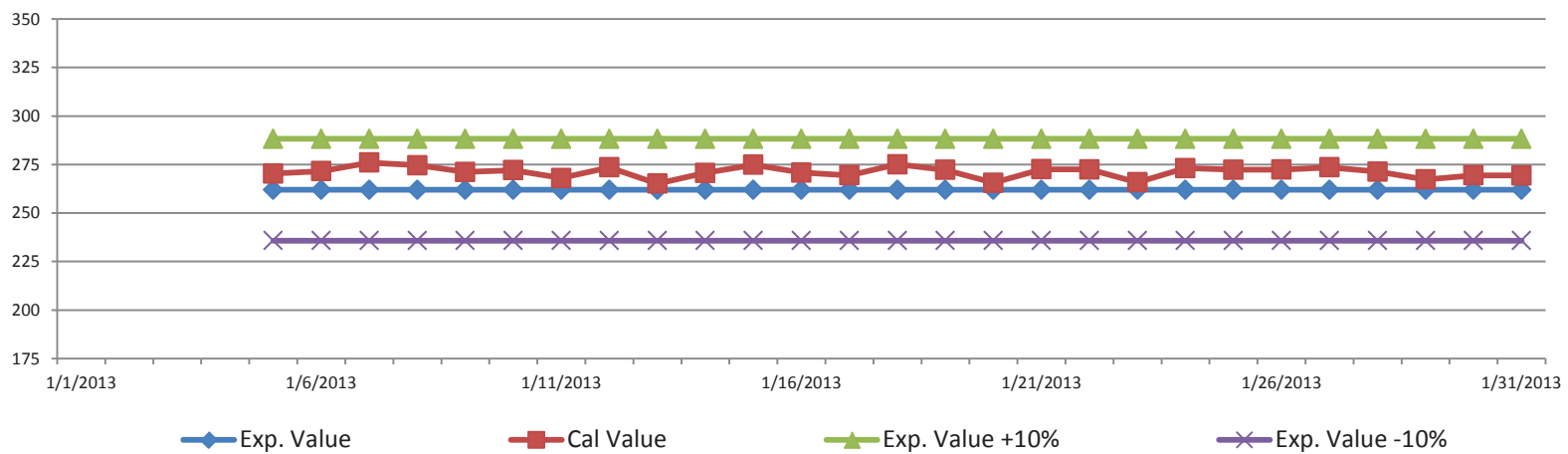
NUMBER OF NON-ZERO READINGS:	258				
MAXIMUM 1-HR AVERAGE:	219	PPB	@ HOUR(S)	9	ON DAY(S) 24
MAXIMUM 24-HR AVERAGE:	45.3	PPB			ON DAY(S) 24
					VAR-VARIOUS
IZS CALIBRATION TIME:	27	HRS			OPERATIONAL TIME: 656 HRS
MONTHLY CALIBRATION TIME:	0	HRS			AMD OPERATION UPTIME: 88.2 %
STANDARD DEVIATION:	17.95				MONTHLY AVERAGE: 4.88 PPB

01 Hour Averages



— EKATI NOX PPB

Calibration Graph for Site: EKATI Parameter: NOx Phase: SPAN



BHP Billiton Diamonds Inc. - EKATI
FEBRUARY 2013
OXIDES OF NITROGEN (NOx) hourly averages in ppb

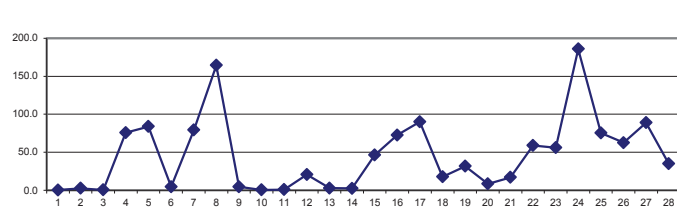
MST

DAY	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
1	0	0	0	0	0	S	0	0	0	0	0	0	0	5	3	3	0	0	0	0	0	0	0	0	5	0.5	24
2	0	0	0	0	0	S	0	0	0	0	0	1	16	11	4	8	23	1	0	0	0	0	0	0	23	2.8	24
3	0	0	0	0	0	S	0	0	0	0	0	0	4	0	0	0	8	3	1	0	0	0	0	0	8	0.7	24
4	2	0	3	4	10	S	59	43	63	57	67	169	112	117	90	91	72	76	104	68	78	91	170	198	198	75.8	24
5	193	110	127	78	124	S	134	203	152	113	111	72	81	53	34	56	73	158	28	14	7	1	5	5	203	84.0	24
6	5	6	7	11	23	S	1	3	2	5	7	3	5	5	5	1	1	2	1	3	4	4	2	0	23	4.6	24
7	0	0	0	0	0	S	1	0	1	0	0	0	1	3	53	43	30	116	322	350	403	211	224	66	403	79.3	24
8	289	129	187	306	248	S	222	306	343	204	185	70	18	24	45	4	79	183	248	196	120	214	48	110	343	164.3	24
9	28	2	4	6	4	S	4	1	0	0	0	1	1	3	7	7	23	3	6	2	0	2	1	0	28	4.6	24
10	0	0	0	1	1	S	2	3	4	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	4	0.6	24
11	0	0	0	0	0	S	0	0	2	0	0	0	1	0	1	4	5	2	0	0	0	3	1	3	5	1.0	24
12	6	7	23	267	89	S	2	1	1	3	3	2	1	2	4	2	3	6	6	16	9	7	8	9	267	20.7	24
13	8	5	4	5	3	S	15	11	1	0	4	1	1	0	0	6	0	1	0	1	1	1	0	0	15	3.0	24
14	0	0	0	0	0	S	0	1	1	2	5	9	8	4	4	5	3	2	3	2	2	2	2	2	9	2.5	24
15	1	0	2	5	2	S	1	1	1	1	1	6	5	1	2	2	4	4	12	152	253	174	221	216	253	46.4	24
16	23	17	52	28	149	S	16	38	27	18	78	75	88	131	141	120	55	28	93	72	27	169	79	148	169	72.7	24
17	101	237	268	206	431	S	383	259	31	53	65	9	4	2	3	2	2	2	4	3	1	3	3	1	431	90.1	24
18	2	3	5	3	7	S	8	6	42	17	18	11	17	230	29	6	2	1	1	1	1	1	1	1	230	18.0	24
19	1	1	1	1	1	S	1	2	1	2	2	2	1	1	1	7	44	10	24	129	42	168	214	72	214	31.7	24
20	10	9	9	6	8	S	10	6	1	3	9	8	8	3	4	17	22	18	17	8	3	7	6	7	22	8.7	24
21	9	3	6	5	8	S	4	5	16	9	6	7	17	38	4	4	104	74	15	16	0	36	2	2	104	17.0	24
22	2	2	66	46	78	S	48	124	121	240	52	140	238	84	32	8	9	10	8	8	11	8	9	12	240	59.0	24
23	12	11	11	11	3	S	11	13	4	11	17	128	13	2	14	15	20	18	16	15	14	206	287	434	434	55.9	24
24	498	422	76	28	320	S	50	237	91	275	197	147	297	190	16	150	157	70	162	148	235	271	114	120	498	185.7	24
25	73	129	298	92	54	S	295	142	127	107	86	39	54	45	29	50	40	9	9	14	19	6	7	8	298	75.3	24
26	11	74	74	229	332	S	34	37	147	8	9	30	42	2	58	127	67	134	13	1	4	4	2	1	332	62.6	24
27	1	2	2	8	12	S	239	52	138	247	312	17	0	1	1	1	13	59	7	4	109	386	295	138	386	88.9	24
28	150	95	60	12	89	S	43	45	47	49	170	20	4	0	1	1	1	1	1	1	1	2	4	5	170	34.9	24
HOURLY MAX	498	422	298	306	431	NA	383	306	343	275	312	169	297	230	141	150	157	183	322	350	403	386	295	434			
HOURLY AVG	50.9	45.1	45.9	48.5	71.3	NA	56.5	55.0	48.7	50.9	50.2	34.5	37.0	34.2	20.9	26.4	30.4	35.6	39.4	43.8	48.0	70.6	60.9	55.6			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

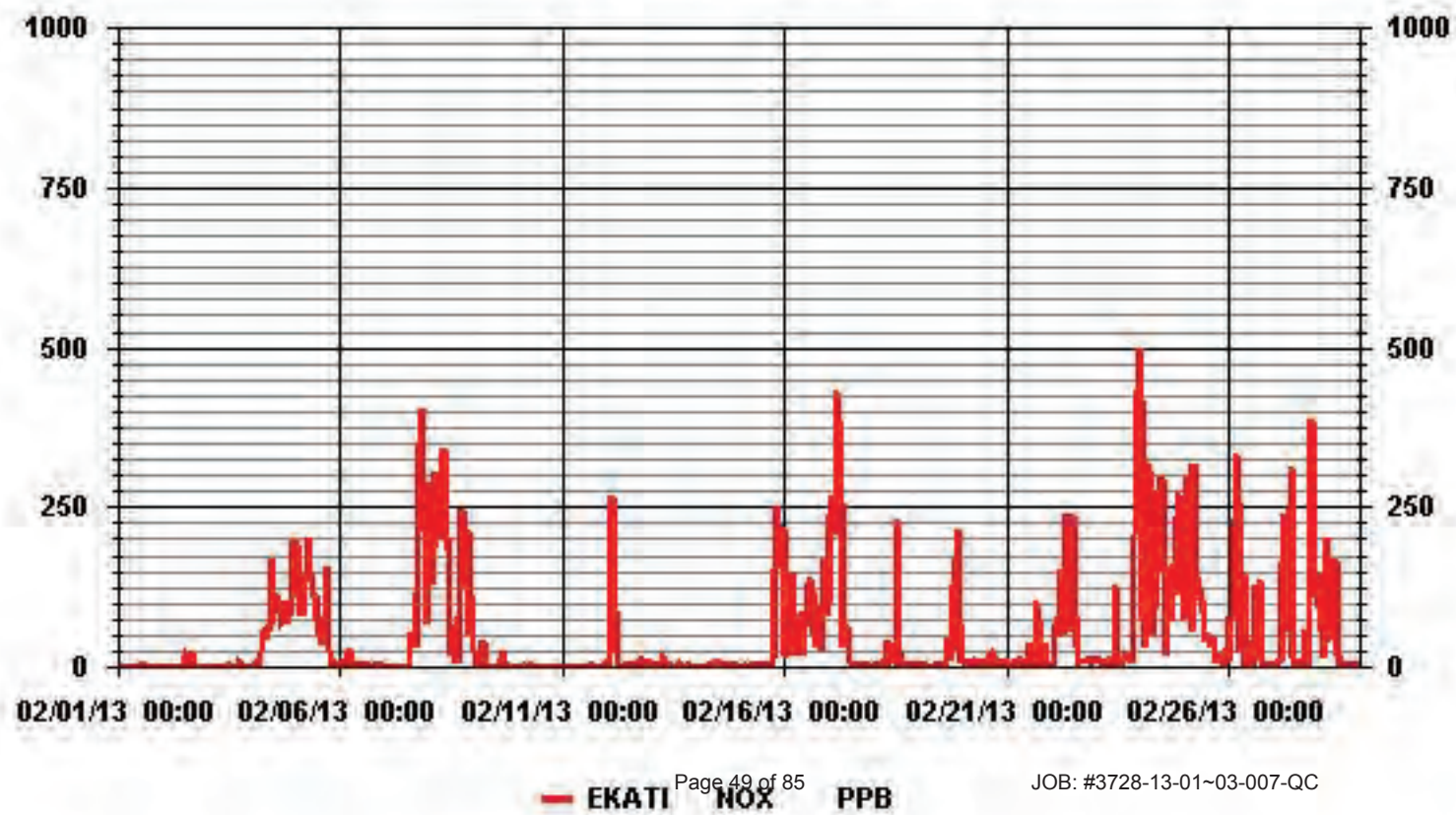
24 HOUR AVERAGES FOR FEBRUARY 2013

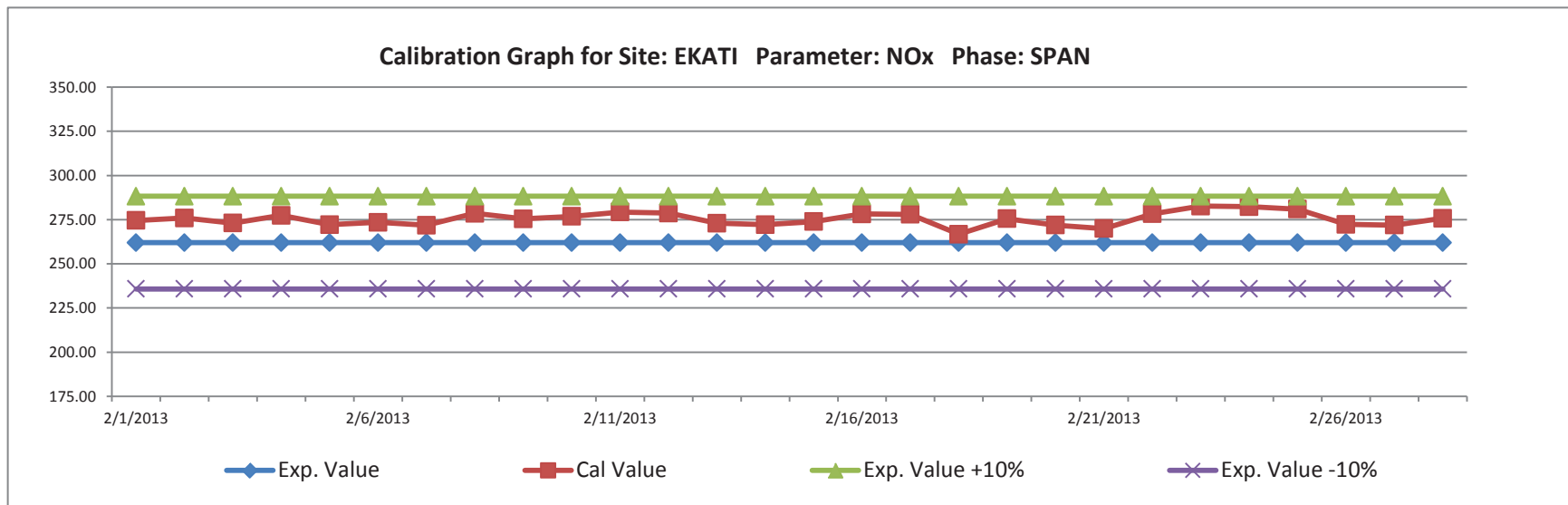


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	526				
MAXIMUM 1-HR AVERAGE:	498	PPB	@ HOUR(S)	0	ON DAY(S) 24
MAXIMUM 24-HR AVERAGE:	185.7	PPB			ON DAY(S) 24
					VAR-VARIOUS
IZS CALIBRATION TIME:	28	HRS	OPERATIONAL TIME:	672	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	82.85		MONTHLY AVERAGE:	46.10	PPB

01 Hour Averages





BHP Billiton Diamonds Inc. - EKATI

MARCH 2013

OXIDES OF NITROGEN (NOx) hourly averages in ppb

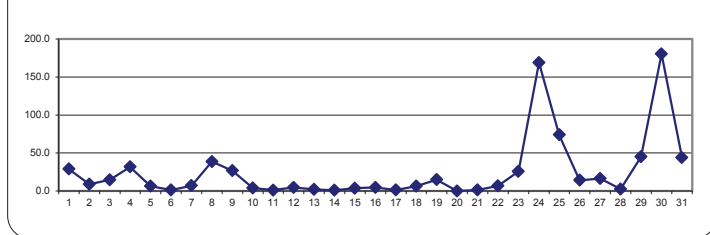
MST

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily	24-Hour	
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Max	Avg	Rdgs
Day																											
1	5	125	199	165	116	S	6	3	1	3	2	2	2	2	2	6	4	2	3	3	2	2	2	4	199	28.7	24
2	3	2	2	4	3	S	14	7	2	3	6	5	3	2	5	10	6	3	5	11	23	62	15	9	62	8.9	24
3	8	4	8	8	6	S	11	12	13	30	17	12	11	13	14	18	17	16	17	28	12	23	23	18	30	14.7	24
4	17	19	14	17	16	S	12	20	17	40	50	97	91	91	120	38	14	10	9	29	1	2	2	3	120	31.7	24
5	10	6	8	4	2	S	2	1	3	10	3	14	13	7	3	10	7	3	13	6	1	9	8	4	14	6.4	24
6	1	1	1	2	2	S	1	5	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	5	1.3	24
7	1	6	2	1	1	S	1	1	12	19	16	14	5	2	2	2	12	4	2	5	3	5	27	17	27	7.0	24
8	14	10	4	15	53	S	124	81	76	78	102	83	65	45	47	10	6	6	8	7	13	11	10	20	124	38.6	24
9	12	34	59	53	66	S	31	22	45	77	33	18	18	7	12	15	29	7	13	9	13	16	13	14	77	26.8	24
10	11	8	7	8	4	S	6	8	6	6	2	2	1	2	2	2	2	2	2	1	5	1	1	1	11	3.9	24
11	1	1	1	1	1	S	2	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	2	2	1.2	24
12	2	1	1	1	1	S	1	2	2	2	3	3	7	38	7	2	5	3	16	3	2	1	1	1	38	4.6	24
13	3	15	2	2	1	S	1	1	1	2	1	2	2	4	1	1	1	1	1	1	1	1	1	1	15	2.0	24
14	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	3	1.1	24
15	1	1	1	1	1	S	1	4	15	14	5	8	5	7	3	6	3	2	2	1	1	1	1	1	15	3.7	24
16	1	1	1	1	3	S	14	3	1	2	32	21	3	2	1	1	11	1	1	1	1	1	1	1	32	4.6	24
17	1	1	1	1	1	S	1	1	2	2	4	2	1	1	2	2	2	1	1	1	1	1	1	1	4	1.4	24
18	6	5	4	5	1	S	9	3	3	2	9	12	7	4	2	2	4	3	1	3	2	2	52	5	52	6.3	24
19	44	49	23	33	11	S	5	6	19	16	15	13	3	5	5	7	6	9	8	5	X	X	X	X	49	14.8	20
20	X	X	X	X	X	X	X	X	X	X	Y	Y	Y	Y	C	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	2
21	0	0	0	0	0	S	0	C	C	C	C	C	C	C	C	2	3	4	2	2	2	2	3	2	4	1.5	24
22	2	1	15	64	1	S	3	5	2	Y	2	2	1	2	3	2	2	2	2	3	12	9	7	6	64	6.7	23
23	13	37	18	11	8	S	5	5	8	13	6	4	6	7	10	32	74	16	79	4	130	18	7	81	130	25.7	24
24	32	74	84	263	69	S	418	339	351	317	355	111	92	271	106	58	210	189	79	21	282	130	23	5	418	168.7	24
25	12	8	62	221	203	S	450	254	144	72	153	27	4	43	34	3	1	1	2	0	2	1	1	1	450	73.9	24
26	1	46	25	39	1	S	2	4	7	37	55	96	3	1	2	2	1	1	1	0	1	0	0	0	96	14.1	24
27	0	0	1	1	2	S	274	26	53	1	0	1	1	1	1	1	1	1	1	0	1	3	2	3	274	16.3	24
28	2	2	0	0	0	S	0	6	3	0	8	3	3	0	0	0	4	2	3	1	4	7	6	2	8	2.4	24
29	1	4	3	4	3	S	3	5	6	24	50	64	146	37	111	87	12	2	1	1	11	14	96	352	352	45.1	24
30	223	142	300	279	377	S	277	227	119	164	260	269	336	293	271	184	199	164	7	3	10	15	10	14	377	180.1	24
31	158	359	344	59	1	S	1	13	4	10	2	3	1	4	4	1	0	3	0	2	4	10	11	15	359	43.9	24
Hourly Max	223	359	344	279	377	NA	450	339	351	317	355	269	336	293	271	184	210	189	79	29	282	130	96	352			
Hourly Avg	19.5	32.1	39.7	42.1	31.8	NA	55.9	36.8	31.7	33.8	41.2	30.7	28.7	30.9	26.7	17.0	21.4	15.4	9.4	5.1	18.7	12.1	11.3	20.2			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

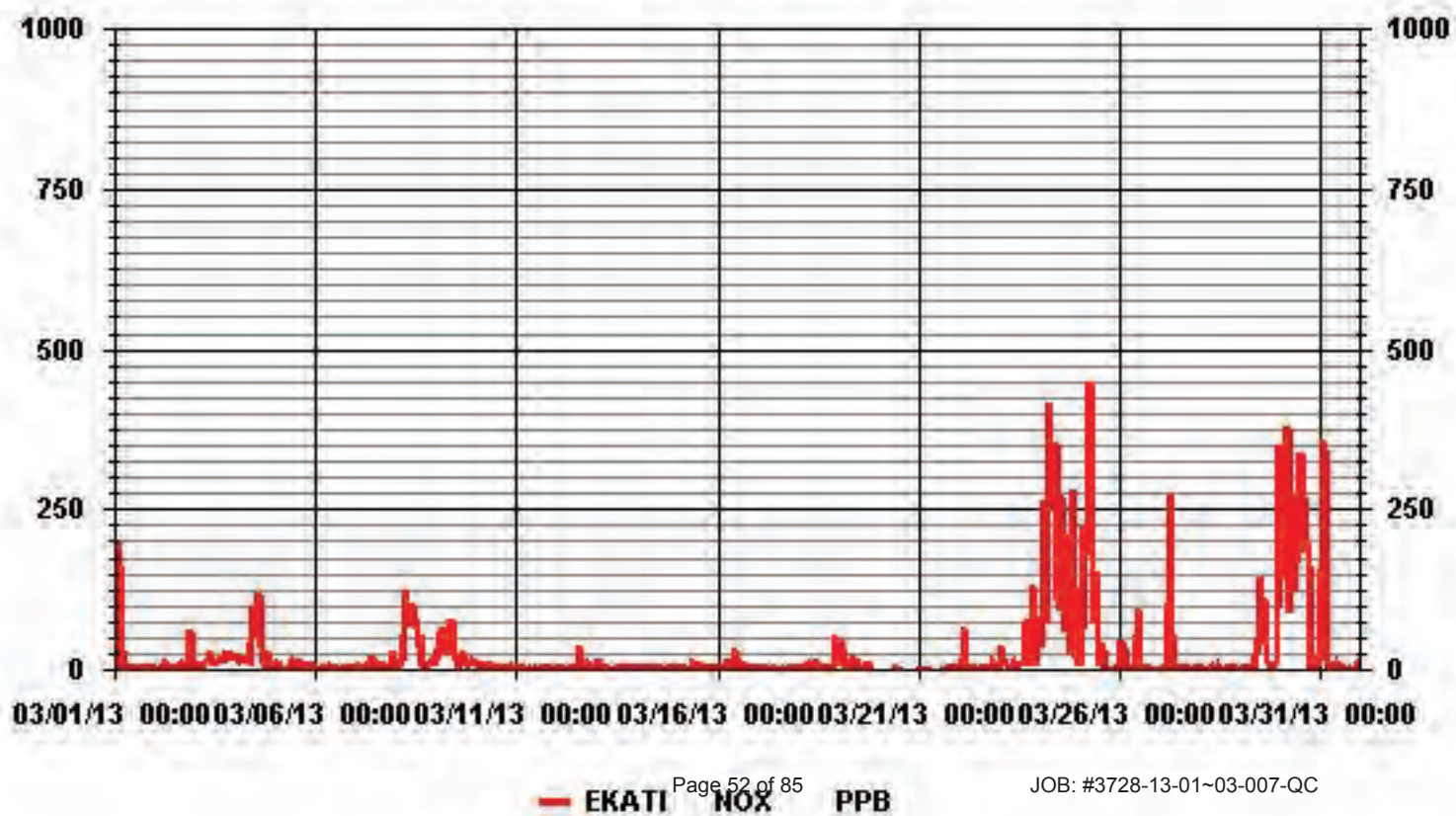
24 HOUR AVERAGES FOR MARCH 2013



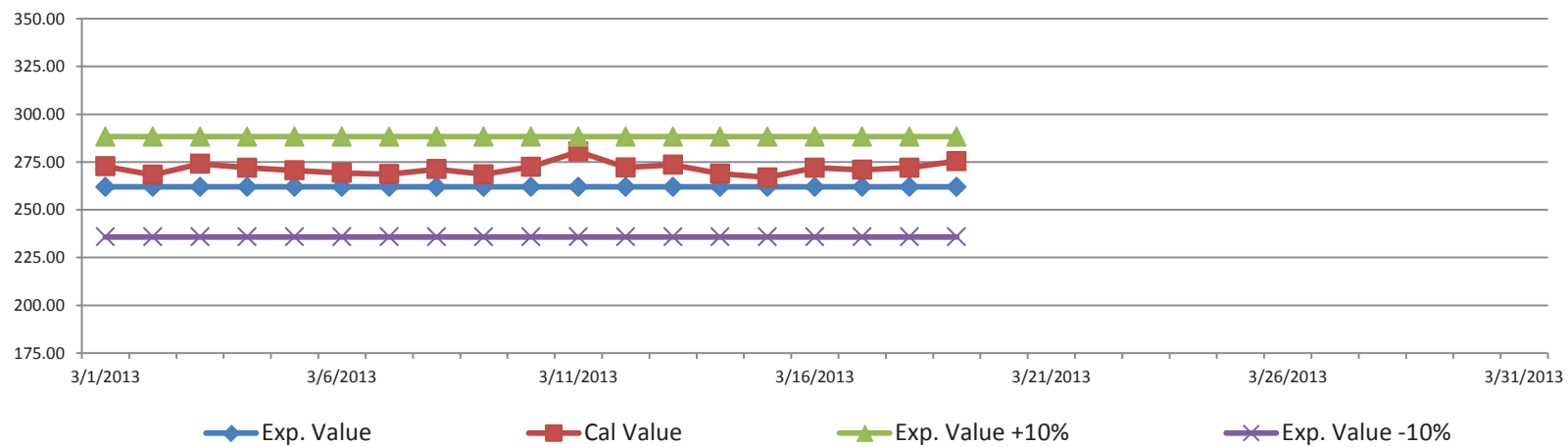
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	652				
MAXIMUM 1-HR AVERAGE:	450	PPB	@ HOUR(S)	6	ON DAY(S) 25
MAXIMUM 24-HR AVERAGE:	180.1	PPB			ON DAY(S) 30
					VAR-VARIOUS
IJS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	717	HRS
MONTHLY CALIBRATION TIME:	10	HRS	AMD OPERATION UPTIME:	96.4	%
STANDARD DEVIATION:	65.27		MONTHLY AVERAGE:	26.60	PPB

01 Hour Averages



Calibration Graph for Site: EKATI Parameter: NOx Phase: SPAN



Particulate Matter 2.5

BHP Billiton Diamonds Inc. - EKATI

JANUARY 2013

PARTICULATE MATTER 2.5 (LESS THAN 2.5 MICRONS) (PM2.5) hourly averages in ug/m3

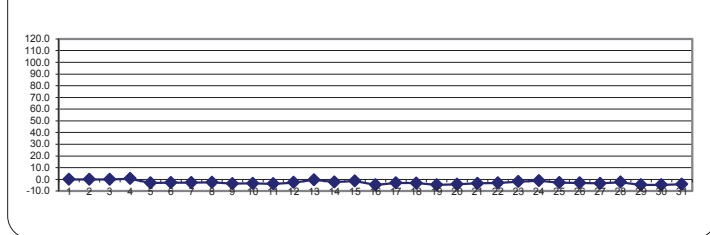
MST

DAY	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR		
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24	0.6	
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	0	
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	0	
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-5	-5	24	-2	-3	-1	-1	-1	-1	0	0	
5	-4	-5	-4	-3	-2	-3	-4	-4	-5	-5	-5	-5	-3	-2	0	-1	-4	-5	-3	-2	-3	-3	0	0	0	0	-3.1	
6	-4	-5	-3	1	-1	-5	-5	-4	-4	-4	-4	-4	-3	-1	-3	-2	-1	-2	-4	-5	-4	-1	0	-2	1	1	-2.9	
7	-3	-3	-2	-1	-2	-2	-1	-2	-4	-4	-2	-4	-5	-2	0	0	-2	-5	-5	-4	-3	-5	-3	-2	0	0	-2.8	
8	-3	-3	-3	-4	-4	-2	-2	-5	-4	0	-2	-4	-2	0	-1	-2	-1	-3	-3	0	0	-2	-5	-5	0	0	-2.5	
9	-5	-5	-4	-3	-2	-3	-3	-3	-3	-3	-5	-5	-5	-5	-2	-5	-5	-3	-2	-4	-5	-3	-3	-4	-2	2	-3.8	
10	-3	-3	-5	-5	-5	-5	-2	-5	-5	-2	-4	-1	-1	-5	-3	-1	-3	-3	-3	-3	-3	-3	-5	-5	-1	1	-3.5	
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22	-4	-4	1	1	-3	-5	-5	-4	-5	-5	-5	-4	-2	-2	-4	-3	-1	-2	-1	1	-4	-5	-4	1	1	1	-3.0	
23	-3	-1	-4	-5	-4	-5	-5	-5	-5	-2	-3	-2	3	1	-1	-1	-1	0	-1	-4	-3	1	2	1	3	3	-2.0	
24	0	-1	0	0	-1	-1	0	1	1	0	-1	-1	-2	-3	-4	-3	-1	0	-3	-4	-1	0	-1	-2	1	1	-1.1	
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26	-3	-3	-3	-5	-4	-2	-2	-4	-4	-4	-3	-2	-4	-5	-3	-3	-5	-2	1	-3	-4	-3	-2	-3	1	1	-3.1	
27	-4	-3	-5	-4	-4	-4	-4	-3	-2	-2	-2	-5	-3	-1	-4	-4	-4	-3	-5	-5	-4	-3	-3	-1	-1	1	-3.4	
28	-1	-3	-2	-2	-2	-2	-1	-2	-2	-1	-5	-5	-2	0	-1	-3	-2	-2	-4	-3	-1	-2	-5	-5	0	0	-2.4	
29	-5	-5	-5	-5	-5	-5	-5	-4	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-3	-4	-3	3	-4.8	
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31	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-4	-3	-1	-2	-4	-3	-4	-3	-4	-4	-1	1	-4.3
HOURLY MAX	5	3	1	1	0	2	1	1	2	0	5	5	3	1	0	2	1	24	2	0	1	1	2	1	1			
HOURLY AVG	-3.0	-3.2	-3.3	-3.1	-3.2	-3.4	-3.3	-3.6	-3.4	-3.0	-3.4	-3.5	-3.3	-3.0	-2.7	-2.9	-2.9	-1.6	-2.9	-3.4	-3.0	-2.8	-2.8	-2.9				

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

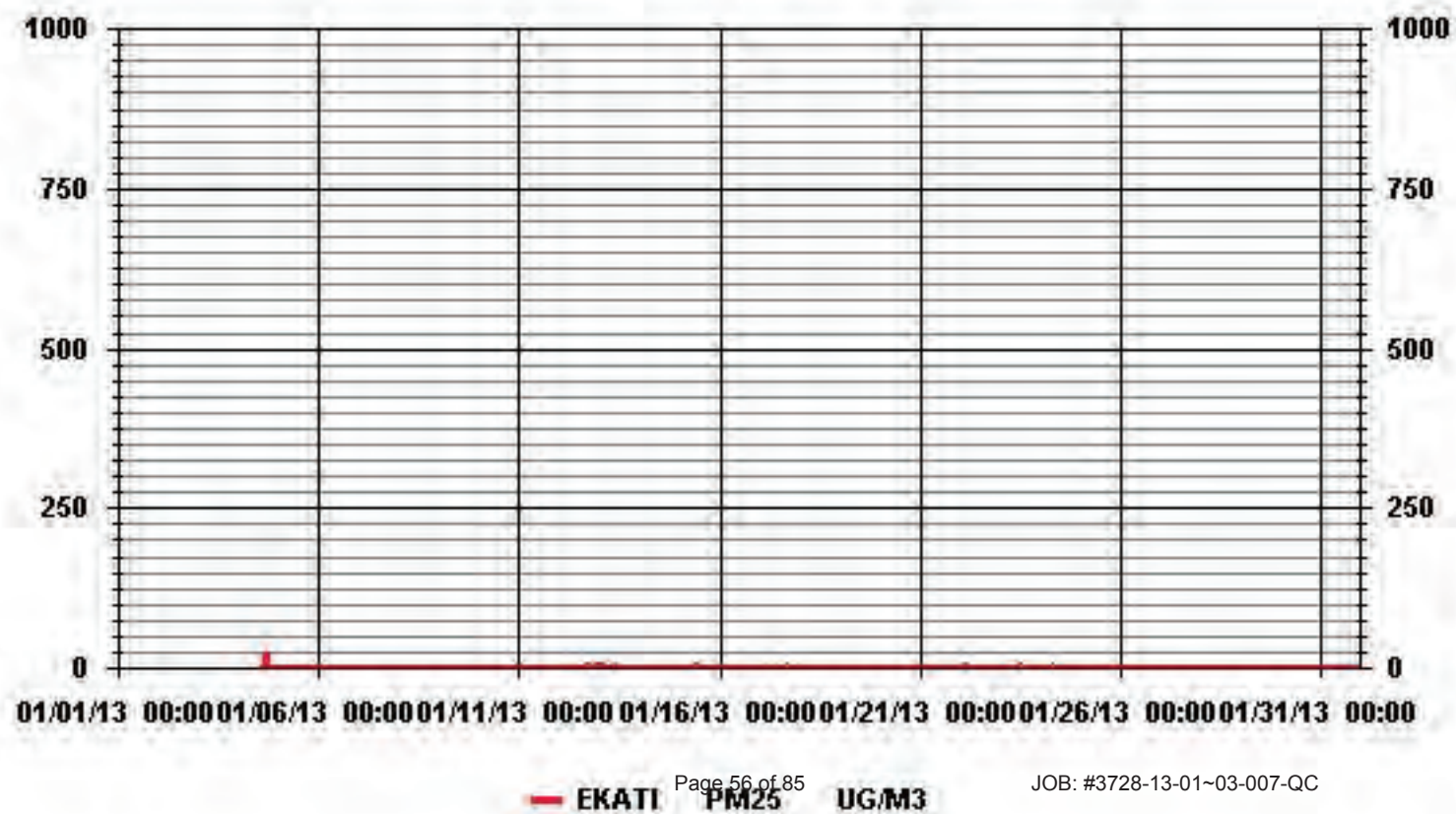
24 HOUR AVERAGES FOR JANUARY 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	31				
MAXIMUM 1-HR AVERAGE:	24	ug/m3	@ HOUR(S)	17	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	0.6	ug/m3			ON DAY(S)
					VAR-VARIOUS
MONTHLY CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	654	HRS
			AMD OPERATION UPTIME:	87.9	%
STANDARD DEVIATION:	2.17		MONTHLY AVERAGE:	-3.06	ug/m3

01 Hour Averages



BHP Billiton Diamonds Inc. - EKATI

FEBRUARY 2013

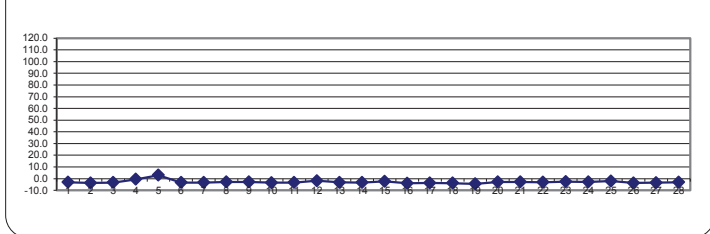
PARTICULATE MATTER 2.5 (LESS THAN 2.5 MICRONS) (PM2.5) hourly averages in ug/m3

MST																								DAILY	24-HOUR		
HOURLY MAX	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	MAX.	AVG.	RDGS.
HOURLY AVG	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
DAY																											
1	-3	-4	-4	-2	0	-2	-4	-4	-5	-5	-4	-4	-5	-4	-2	-2	-3	-4	-4	-1	0	-2	-2	-3	0	-3.0	24
2	-5	-5	-4	-2	-2	-5	-5	-5	-5	-5	-5	-4	1	1	-2	-4	-4	-4	-3	-3	-5	-5	-3	1	-3.7	24	
3	1	-1	-1	-1	-2	-3	-5	-5	-5	-4	-3	-5	-5	-5	-3	-3	-5	-5	-4	-2	-2	-2	-3	-5	1	-3.3	24
4	-5	-4	-5	-5	-5	-4	-2	-2	-4	-1	2	2	5	7	7	3	-2	0	2	0	-1	-2	-1	2	7	-0.5	24
5	6	6	2	1	-1	0	4	5	7	8	6	6	4	16	2	2	3	2	1	0	-2	-3	-3	-1	16	3.0	24
6	-2	-4	-4	-3	-3	-2	-1	-2	-3	-2	-4	-4	-3	-3	-4	-2	-2	-4	-4	-5	-5	-4	-5	-5	-1	-3.3	24
7	-4	-2	-2	-4	-5	-5	-5	-4	-5	-5	-4	-3	-4	-5	-2	0	-3	-4	-4	-1	0	-2	-2	0	-3.3	24	
8	-3	-3	-1	-2	-2	-4	-5	-4	-1	-1	-3	-2	0	-5	-5	0	-2	-3	-1	-3	-5	-5	-5	0	-2.9	24	
9	-4	-5	-5	-2	-2	-3	-3	-3	-3	-3	-2	-2	-1	-2	-2	0	-3	-3	-3	-4	-1	-1	-5	-5	0	-2.8	24
10	-4	-4	-1	-3	-3	-1	-1	-3	-4	-3	-4	-2	-1	-4	-5	-5	-5	-4	-2	-5	-5	-5	-5	-5	-1	-3.5	24
11	-4	-2	-3	-4	-4	-1	-1	-4	-4	-5	-5	-5	-3	0	-3	-3	1	-1	-4	-5	-4	-5	-5	-4	1	-3.3	24
12	-5	-5	-5	-1	2	0	-1	-1	-2	-2	-3	-4	-2	-1	-2	-2	-3	0	2	-1	-1	-1	-4	-3	2	-1.9	24
13	-2	-1	1	-2	-5	-3	-3	-4	-5	-3	-3	-3	-4	-4	-3	-3	-2	-2	-2	-4	-5	-5	-5	-5	1	-3.2	24
14	-5	-4	-2	-3	-4	-4	-4	-2	-2	-5	-5	-5	-2	-3	-3	-2	-4	-2	-2	-4	-2	-3	-4	-4	-2	-3.3	24
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16	-2	-2	-4	-3	-4	-4	-3	-5	-5	-4	-4	-5	-5	-4	-3	-3	-3	-5	-5	-4	-5	-4	-4	-5	-2	-4.0	24
17	-5	-5	-5	-3	-1	0	-1	-2	-4	-3	-3	-3	-5	-5	-5	-4	-5	-5	-4	-3	-4	-5	-5	-5	0	-3.8	24
18	-5	-5	-5	-5	-5	-5	-5	-3	-5	-5	-4	-1	-1	-1	-1	-1	-2	-5	-5	-5	-4	-3	-5	-5	-1	-3.8	24
19	-5	-5	-5	-5	-5	-5	-5	-4	-4	-3	-4	-3	-3	-5	-5	-4	-5	-5	-5	-5	-3	-4	-5	-3	-3	-4.4	24
20	-5	-5	-4	-5	-4	-2	-2	-4	-4	-3	-3	-4	-2	0	-3	-3	0	0	-1	-2	-3	-4	-4	-3	0	-2.9	24
21	-2	-2	0	0	-5	-5	-4	-4	-5	-4	-3	-2	-3	-5	-5	-4	-3	-5	-2	2	1	-2	-4	-3	2	-2.9	24
22	-5	-5	-5	-4	-4	-3	-2	-4	-3	-2	-2	-2	0	-2	-5	-4	-5	-4	1	-1	-3	-3	-4	-5	1	-3.2	24
23	-5	-3	-1	-1	-2	-3	-2	-2	0	-1	-3	-4	-4	-4	-5	-4	-3	-1	-2	-2	-3	-4	-2	-2	0	-2.6	24
24	-1	1	-1	-4	-5	-5	-5	-5	-4	-3	-2	-1	-1	-2	-2	0	1	-1	-5	-5	-3	-5	-5	-5	1	-2.8	24
25	-4	-3	-1	-1	-2	-5	-5	-1	-1	-1	1	-1	-1	1	-2	-3	-3	0	-1	-4	-4	-4	-3	-3	1	-2.1	24
26	-2	-3	-4	-3	-3	-2	-2	-3	-5	-5	-4	-3	-5	-3	-5	-5	-5	-4	-4	-2	-4	-3	-4	-5	-2	-3.7	24
27	-4	-4	-4	-3	-2	-4	-5	-3	-2	2	0	-4	-5	-5	-3	-1	-2	-5	-5	-5	-5	-5	-5	-5	2	-3.5	24
28	-3	-3	-4	-4	-5	-4	-1	-3	-2	-1	-3	-4	-4	-5	-5	-3	-1	1	-3	-4	-1	-2	-5	-4	1	-3.0	24
HOURLY MAX	6	6	2	1	2	0	4	5	7	8	6	6	5	16	7	3	3	2	2	2	1	0	-1	2			
HOURLY AVG	-3.2	-3.0	-2.8	-2.7	-2.9	-3.0	-2.8	-3.0	-3.1	-2.5	-2.6	-2.7	-2.3	-1.9	-2.9	-2.5	-2.5	-2.7	-2.8	-3.0	-2.8	-3.3	-4.0	-3.8			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

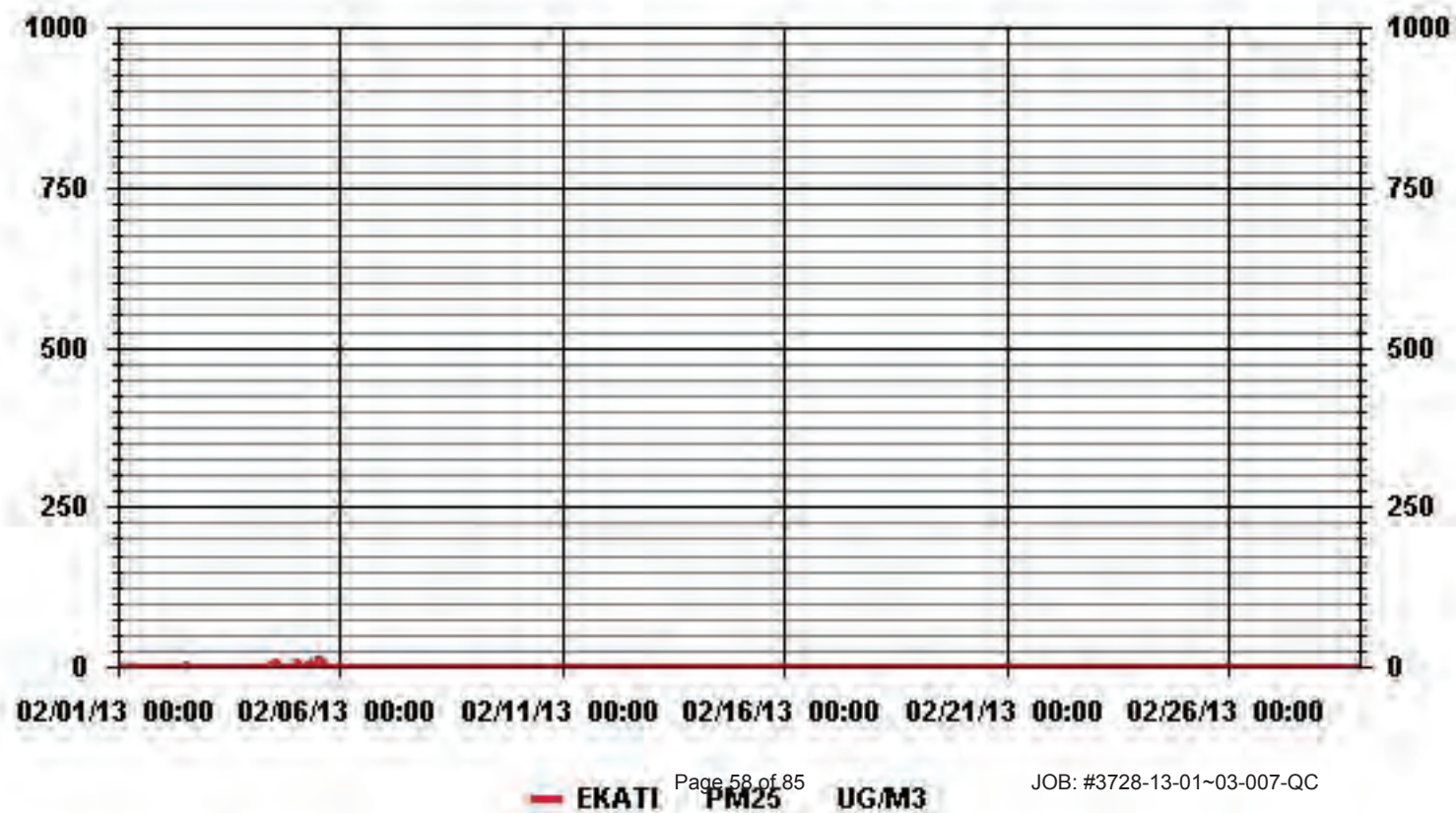
24 HOUR AVERAGES FOR FEBRUARY 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	42				
MAXIMUM 1-HR AVERAGE:	16 ug/m3	@ HOUR(S)	13	ON DAY(S)	5
MAXIMUM 24-HR AVERAGE:	3.0 ug/m3			ON DAY(S)	5
				VAR-VARIOUS	
MONTHLY CALIBRATION TIME:	0 HRS	OPERATIONAL TIME:	672 HRS		
		AMD OPERATION UPTIME:	100.0 %		
STANDARD DEVIATION:	2.25	MONTHLY AVERAGE:	-2.86 ug/m3		

01 Hour Averages



BHP Billiton Diamonds Inc. - EKATI

MARCH 2013

PARTICULATE MATTER 2.5 (LESS THAN 2.5 MICRONS) (PM2.5) hourly averages in ug/m3

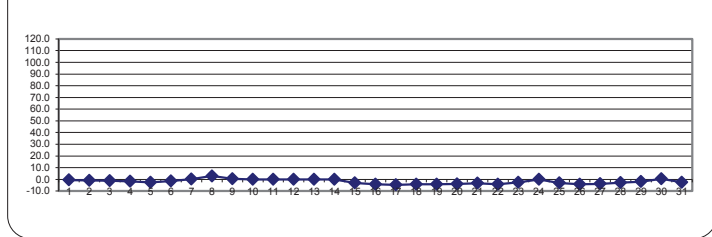
MST

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	HOURLY MAX	HOURLY AVG
1	-2	0	0	-1	-3	-2	-1	-2	0	-1	-1	1	1	1	0	0	1	0	-2	-2	-1	1	1	0	1	-0.5	24						
2	1	2	-1	-3	-1	-2	-4	-5	-5	-2	0	-2	-2	-2	-1	1	1	2	0	-2	0	0	-1	1	2	-1.0	24						
3	0	-2	-2	-3	-5	-5	-1	0	1	1	-1	-2	-3	-3	0	0	1	2	1	-1	0	-1	-3	-2	2	-1.2	24						
4	-5	-5	0	-1	-3	-1	-2	-2	0	-2	-4	-1	0	-3	0	0	-2	-2	-4	-3	0	0	0	-1	0	-1.7	24						
5	-2	-2	-3	-4	-4	-1	-1	-2	0	-1	-4	-1	0	-5	-5	-5	-2	-1	-1	0	-3	-5	-5	0	-2.6	24							
6	-3	-2	-1	0	-2	-3	-5	-5	-4	-5	-4	-1	-4	-4	-1	1	1	0	1	0	2	1	0	1	2	-1.5	24						
7	1	0	0	1	2	2	2	2	1	0	1	0	-1	-3	-1	2	3	5	1	0	-1	-5	-5	-5	5	0.1	24						
8	-3	-2	1	2	0	0	1	3	3	1	4	X	X	10	9	8	7	5	7	7	6	2	-4	-4	10	2.9	22						
9	0	2	1	-1	1	1	-2	0	3	1	2	3	-1	-1	1	-1	1	2	-2	-2	X	X	X	X	3	0.4	20						
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
15	X	X	X	X	X	X	X	X	X	X	X	X	-3	-3	-4	-4	-2	0	-2	-5	-5	-5	-1	-1	0	-3.1	13						
16	-2	-5	-5	-5	-5	-5	-5	-2	-2	-5	-5	-5	-5	-2	-3	-4	-4	-5	-4	-5	-5	-5	-4	-2	-2	-4.1	24						
17	-5	-5	-5	-5	-5	-3	-4	-5	-5	-5	-5	-5	-5	-5	-5	-4	-4	-5	-5	-5	-5	-5	-4	-3	-4.8	24							
18	-4	-5	-3	-5	-5	-5	-5	-5	-5	-5	-3	-3	-5	-5	-4	-5	-4	-4	-4	-4	-3	-5	-5	-2	-2	-4.3	24						
19	-2	-5	-4	-3	-5	-5	-5	-5	-5	-5	-5	-1	-3	-5	-5	-5	X	X	-4	-5	X	X	X	X	-1	-4.3	18						
20	X	X	X	X	X	X	X	X	X	X	-5	-5	-3	-3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-3	-4.0	4						
21	-5	-2	-4	-4	-3	-2	-3	-5	0	-2	-3	-5	-1	-5	X	-3	-3	-4	-2	-4	-5	-5	-2	-3	0	-3.3	23						
22	-5	-5	-5	-5	-5	-3	-5	-5	-2	Y	Y	5	C	C	C	-5	-5	-5	-5	-5	-5	-5	-4	-5	5	-4.2	22						
23	-5	-4	-3	-5	-5	-5	0	0	-5	-4	-4	-5	-5	-2	-3	-4	-1	1	0	-1	2	1	-1	2	-2.6	24							
24	-1	1	0	-1	1	0	0	0	1	3	1	0	-1	-2	2	2	Y	Y	0	0	-2	-3	-2	-2	3	-0.1	22						
25	-2	-5	-1	2	0	-1	-2	-2	-1	-3	-4	-3	-4	-5	-5	-5	-5	-3	-2	-3	-5	-5	-5	-5	2	-3.1	24						
26	-5	-5	-5	-5	-4	-4	-4	-5	-4	-5	-5	-3	-3	-4	-5	-5	-5	-5	-5	-2	-2	-4	-3	-2	-2	-4.1	24						
27	-2	-4	-5	-5	-4	-3	-3	-4	-5	-5	-3	-5	-5	-4	-5	-4	-3	0	1	-4	-5	-5	-5	-5	1	-3.8	24						
28	-5	-5	-5	-4	-3	-4	-5	-5	-4	-4	-4	1	1	0	-1	5	4	-4	-5	-5	-3	-3	-5	-5	5	-2.8	24						
29	-3	-1	-4	-3	-5	-5	-3	-3	-2	-3	0	3	1	2	1	2	2	-2	-2	-4	-5	-5	-4	3	-2.0	24							
30	0	1	-1	-2	0	4	0	0	3	-2	-2	3	5	3	4	5	0	-2	1	2	-1	-3	-3	-5	5	0.4	24						
31	-4	1	2	2	1	-3	-5	-4	-4	-5	-5	-4	-4	-5	-3	-3	-3	-2	-1	1	-4	-5	-3	0	2	-2.5	24						
HOURLY MAX	1	2	2	2	2	4	2	3	3	3	4	5	5	10	9	8	7	5	7	7	6	2	1	1									
HOURLY AVG	-2.6	-2.4	-2.2	-2.4	-2.6	-2.3	-2.8	-2.5	-1.5	-2.6	-2.5	-1.5	-2.1	-2.4	-1.4	-1.1	-1.1	-1.4	-1.6	-2.1	-2.2	-2.9	-3.0	-2.7									

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

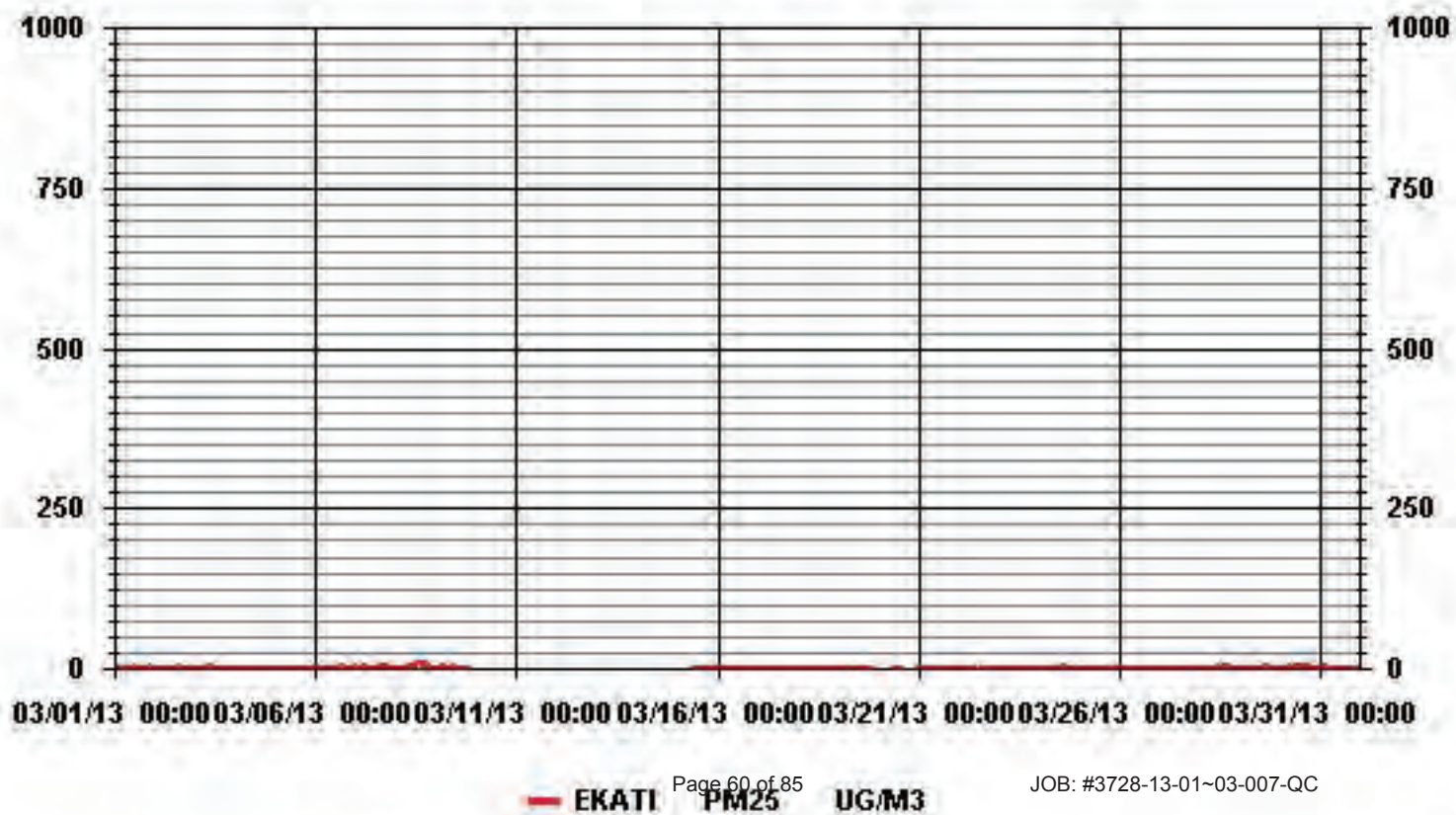
24 HOUR AVERAGES FOR MARCH 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	100				
MAXIMUM 1-HR AVERAGE:	10 ug/m3	@ HOUR(S)	13	ON DAY(S)	8
MAXIMUM 24-HR AVERAGE:	2.9 ug/m3			ON DAY(S)	8
				VAR-VARIOUS	
MONTHLY CALIBRATION TIME:	3 HRS	OPERATIONAL TIME:	576 HRS		
STANDARD DEVIATION:	2.73	AMD OPERATION UPTIME:	77.4 %		
		MONTHLY AVERAGE:	-2.15 ug/m3		

01 Hour Averages



Total Suspended Particulate

BHP Billiton Diamonds Inc. - EKATI

JANUARY 2013

TOTAL SUSPENDED PARTICULATE (TSP) hourly averages in ug/m3

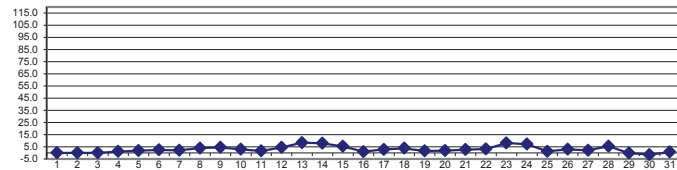
MST

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily	24-Hour		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Max	Avg	Rdgs	
Day																												
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0	
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0	
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			0	
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	0	0	0	1	3	4	2	1		4	1.2	9
5	1	0	1	3	2	-1	-1	0	2	4	4	4	5	4	0	-1	-1	2	4	4	2	1	2	3		5	1.8	24
6	2	0	1	2	3	0	-4	-2	-1	1	5	7	5	5	4	5	4	3	5	4	3	5	3	1		7	2.5	24
7	3	2	2	3	3	5	7	5	1	1	1	0	3	3	3	2	1	0	1	2	2	0	-2	3		7	2.1	24
8	3	3	5	2	2	3	2	3	5	5	6	4	0	1	2	4	6	6	8	8	4	4	3	5		8	3.9	24
9	7	7	8	10	5	4	6	4	3	4	5	6	3	4	5	6	4	4	6	3	1	2	2	2		10	4.6	24
10	1	0	-1	1	1	1	3	3	2	1	2	2	5	4	4	7	9	7	4	4	4	3	3	1		9	3.0	24
11	3	3	2	3	1	2	4	3	0	1	5	3	0	-2	1	1	1	2	3	3	3	1	0	-1		5	1.8	24
12	-1	0	1	0	-1	3	4	6	6	2	1	1	3	4	2	3	10	12	18	7	6	7	7	9	18	4.6	24	
13	15	9	10	13	10	5	6	7	6	8	8	6	5	7	7	8	7	5	8	11	8	7	12	14	15	8.4	24	
14	12	9	8	8	7	5	5	7	8	4	4	9	10	8	8	8	10	11	11	8	6	7	9	9	12	8.0	24	
15	9	9	8	9	7	1	3	6	4	4	10	12	6	3	4	5	5	5	5	3	3	4	3	2	12	5.4	24	
16	1	2	3	2	2	0	0	1	0	-1	0	2	2	1	1	3	4	1	-2	-2	1	2	1	0	4	1.0	24	
17	1	4	5	3	0	0	-1	-1	1	1	2	3	2	3	4	7	8	8	8	3	2	2	3	0	8	2.8	24	
18	0	3	4	7	11	7	4	3	3	5	5	3	3	6	4	3	3	6	6	2	2	1	0	2	11	3.9	24	
19	2	3	3	1	1	3	2	0	-2	0	-1	0	3	2	2	5	5	2	1	2	2	2	2	2	5	1.8	24	
20	2	2	2	2	2	2	2	2	2	2	2	2	2	3	5	5	2	2	2	2	1	1	-1	-1	5	2.0	24	
21	1	2	-1	0	-2	2	5	2	0	1	3	2	3	5	3	3	4	7	7	5	4	3	4	3	7	2.8	24	
22	1	3	2	1	1	2	3	0	0	2	3	4	6	6	5	5	X	2	4	5	5	4	6	5	6	3.3	23	
23	5	8	10	9	6	5	6	7	7	7	8	8	7	8	8	7	7	8	11	13	12	11	10	6	13	8.1	24	
24	6	10	10	9	9	10	11	10	11	10	12	10	5	5	5	4	5	7	7	6	5	5	5	-2	12	7.3	24	
25	0	3	1	2	3	1	0	1	3	5	2	0	4	4	-1	0	2	1	-1	0	0	0	1	1	5	1.3	24	
26	-1	-1	2	5	9	10	4	1	1	2	4	6	3	0	2	0	0	0	2	3	4	6	6	3	10	3.0	24	
27	0	1	4	4	5	4	0	3	4	0	0	-2	-2	1	2	5	3	0	0	3	3	1	3	7	7	2.0	24	
28	11	8	6	5	5	6	7	7	5	5	3	3	4	5	6	5	5	5	7	8	6	3	5	2	11	5.5	24	
29	-1	1	0	-2	-2	-1	1	1	0	-1	0	1	0	0	0	2	2	0	-3	-3	0	0	1	-1	2	-0.2	24	
30	-4	-2	1	-1	-2	-2	-3	-1	0	0	-1	-2	-1	-2	-3	-4	-2	2	2	2	1	-4	-5	-2	2	-1.4	24	
31	2	0	-1	1	2	0	-1	-1	-1	-1	-2	-2	1	1	1	5	6	1	0	3	2	-1	1	1	6	0.7	24	
Hourly Max	15	10	10	13	11	10	11	10	11	10	12	12	10	8	8	8	10	12	18	13	12	11	12	14				
Hourly Avg	3.0	3.3	3.6	3.8	3.3	2.9	2.8	2.9	2.6	2.7	3.4	3.4	3.2	3.3	3.1	3.7	4.1	3.9	4.4	3.9	3.4	2.9	3.1	2.7				

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

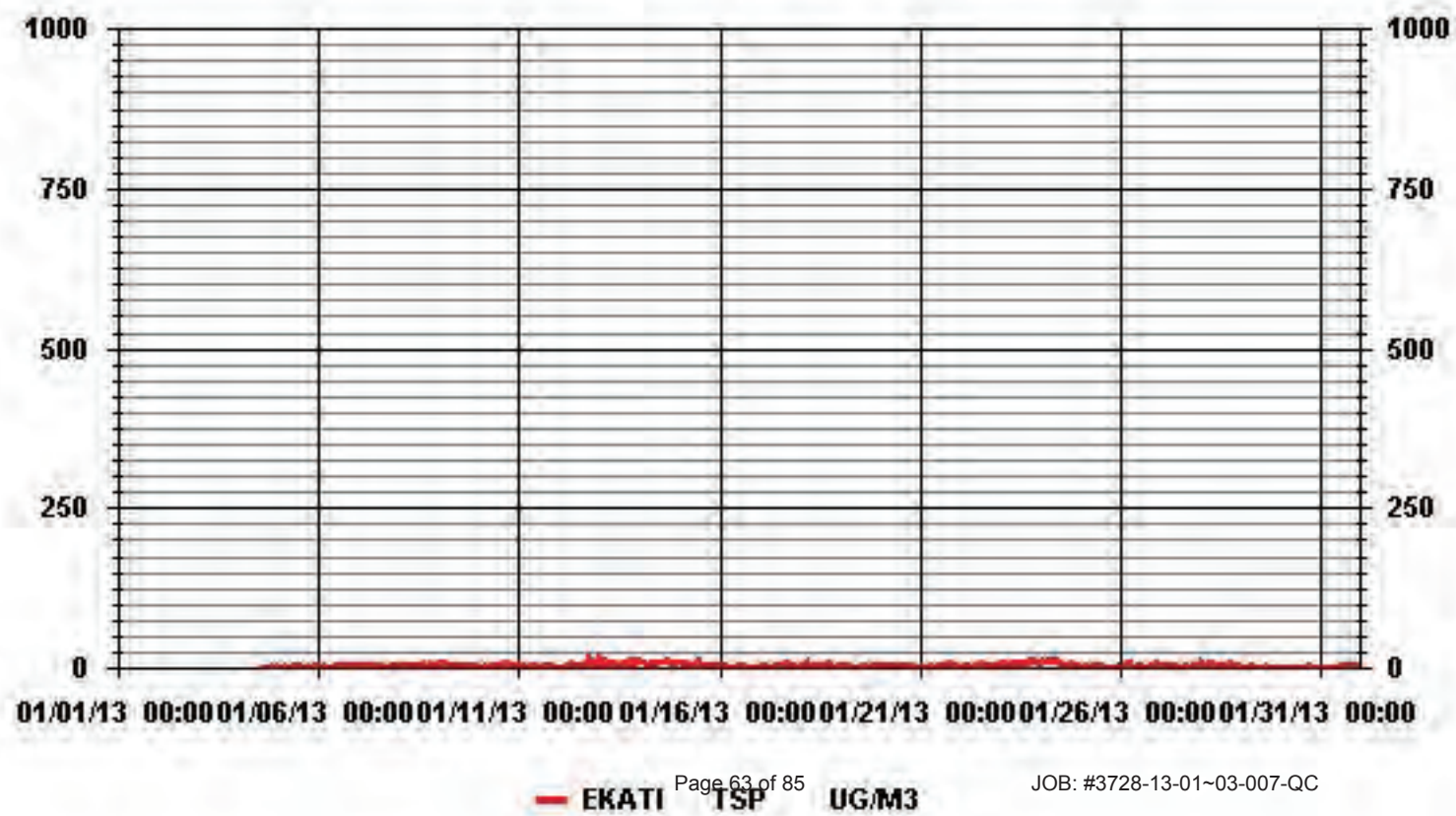
24 HOUR AVERAGES FOR JANUARY 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	525				
MAXIMUM 1-HR AVERAGE:	18 ug/m3	@ HOUR(S)	18	ON DAY(S)	12
MAXIMUM 24-HR AVERAGE:	8.4 ug/m3			ON DAY(S)	13
				VAR-VARIOUS	
MONTHLY CALIBRATION TIME:	0 HRS	OPERATIONAL TIME:	656 HRS		
		AMD OPERATION UPTIME:	88.2 %		
STANDARD DEVIATION:	3.34	MONTHLY AVERAGE:	3.30 ug/m3		

01 Hour Averages



BHP Billiton Diamonds Inc. - EKATI

FEBRUARY 2013

TOTAL SUSPENDED PARTICULATE (TSP) hourly averages in ug/m3

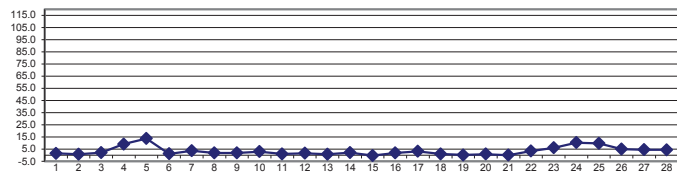
MST

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	1	3	3	4	3	0	-1	-1	0	-1	0	1	3	3	2	2	5	4	2	1	0	0	1	2	5	1.5	24
2	-1	0	1	0	1	-1	0	2	-2	-5	-3	0	2	5	3	1	0	2	6	4	0	0	1	2	6	0.8	24
3	2	1	-1	-1	0	2	2	1	2	4	3	2	5	6	5	3	0	0	2	3	4	2	4	2	6	2.2	24
4	-1	-1	1	2	-1	0	2	3	4	4	16	11	19	29	16	16	15	10	15	11	10	10	10	18	29	9.1	24
5	24	20	10	12	12	18	18	18	34	18	17	15	14	36	10	7	7	6	21	3	1	3	3	2	36	13.7	24
6	3	0	2	4	3	3	4	5	3	3	3	3	2	-1	-2	1	-1	-2	-1	1	1	-1	-3	-1	5	1.2	24
7	2	1	3	6	3	1	2	2	0	-2	-1	2	3	2	1	3	7	6	8	10	11	8	5	6	11	3.7	24
8	6	2	1	3	3	4	3	1	3	5	5	2	2	-2	-3	0	4	2	-2	2	0	-3	1	5	6	1.8	24
9	4	0	-2	1	2	0	1	1	3	3	3	3	3	4	3	2	0	-1	2	3	2	4	2	2	4	1.9	24
10	1	2	4	3	3	1	1	1	1	1	0	-2	-2	17	10	9	8	7	8	4	0	-1	-2	-3	17	3.0	24
11	-1	0	1	1	0	-1	-3	-1	1	0	0	0	1	5	5	5	4	1	-1	3	4	1	0	1	5	1.1	24
12	1	-1	1	4	5	3	1	0	-1	0	2	2	3	-2	-4	2	2	2	5	4	1	4	5	-1	5	1.6	24
13	0	1	0	2	-1	0	4	3	3	1	-2	-2	-1	-1	-1	3	3	0	1	2	-1	1	3	1	4	0.8	24
14	0	5	5	3	0	1	1	-1	2	2	0	2	4	4	4	1	2	3	3	1	2	3	2	2	5	2.1	24
15	2	1	2	-1	-2	0	0	-4	-4	-3	-3	0	2	0	-3	-1	2	-1	1	1	1	1	1	1	2	-0.3	24
16	1	3	1	1	2	2	5	4	4	3	1	3	2	3	4	3	4	3	2	1	0	0	-2	-5	5	1.9	24
17	0	1	2	8	5	4	6	5	3	2	3	2	0	1	0	-1	X	X	23	0	2	3	1	2	23	3.3	22
18	2	2	2	1	-1	-3	0	1	0	2	1	1	3	1	2	2	1	2	4	0	-1	2	1	0	4	1.0	24
19	0	-1	0	0	-1	0	-1	-3	0	2	0	1	3	-1	-1	1	-1	-2	-1	0	1	0	4	5	5	0.2	24
20	3	1	0	1	-1	0	1	3	2	0	2	1	0	0	4	6	3	2	-1	-3	-1	1	0	6	1.0	24	
21	-1	-1	-1	-2	-2	-3	-1	0	1	3	1	-1	-1	-2	-3	-2	2	5	6	3	1	1	0	-1	6	0.1	24
22	-3	-5	-3	3	3	0	2	2	1	2	3	3	0	0	0	1	1	1	1	27	18	11	8	7	27	3.5	24
23	10	10	7	4	3	2	3	8	9	5	4	4	6	9	6	6	7	6	5	7	7	5	7	8	10	6.2	24
24	8	10	9	5	1	4	9	8	8	10	10	8	5	7	11	11	12	29	13	16	18	14	11	11	29	10.3	24
25	4	3	6	7	7	6	7	13	14	13	15	16	16	10	10	10	12	9	10	10	7	6	7	8	16	9.7	24
26	8	8	6	2	5	9	6	6	9	7	4	2	0	2	6	5	5	6	5	6	6	4	2	1	9	5.0	24
27	3	3	3	3	6	6	3	4	4	4	2	1	5	7	6	5	6	5	5	6	4	5	6	6	7	4.5	24
28	4	3	4	3	2	2	4	5	4	4	3	5	7	7	8	6	6	15	6	3	2	1	0	3	15	4.5	24
HOURLY MAX	24	20	10	12	12	18	18	18	34	18	17	16	19	36	16	16	15	29	23	27	18	14	11	18			
HOURLY AVG	2.9	2.5	2.4	2.8	2.1	2.1	2.8	3.0	3.9	3.2	3.1	3.1	3.8	5.5	3.4	3.8	4.4	4.5	5.4	4.7	3.5	3.0	2.8	3.0			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

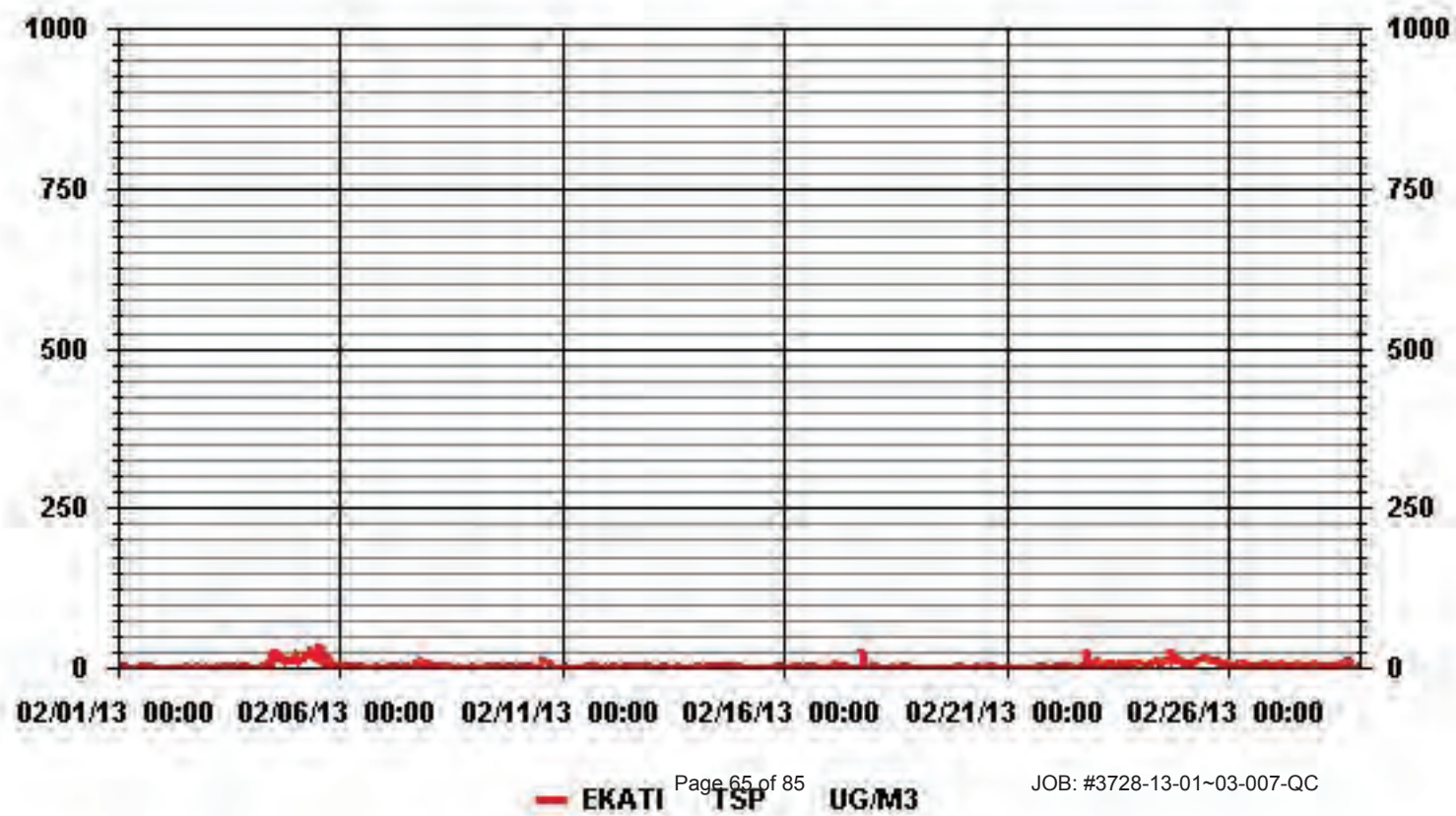
24 HOUR AVERAGES FOR FEBRUARY 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	497				
MAXIMUM 1-HR AVERAGE:	36 ug/m3	@ HOUR(S)	13	ON DAY(S)	5
MAXIMUM 24-HR AVERAGE:	13.7 ug/m3			ON DAY(S)	5
				VAR-VARIOUS	
MONTHLY CALIBRATION TIME:	0 HRS	OPERATIONAL TIME:	670 HRS		
		AMD OPERATION UPTIME:	99.7 %		
STANDARD DEVIATION:	5.00	MONTHLY AVERAGE:	3.40 ug/m3		

01 Hour Averages



BHP Billiton Diamonds Inc. - EKATI

MARCH 2013

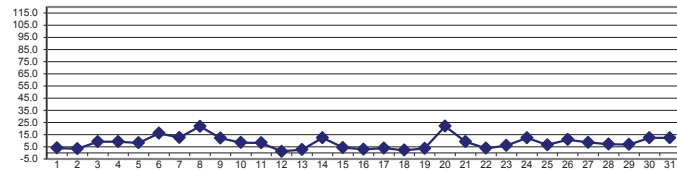
TOTAL SUSPENDED PARTICULATE (TSP) hourly averages in ug/m3

MST		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOURLY MAX	HOURLY END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																												
1	6	5	4	6	5	5	5	6	5	2	1	1	3	3	3	4	4	4	7	10	7	2	1	1	2	10	4.1	24
2	1	2	3	2	2	2	1	0	0	2	2	3	3	4	5	4	4	6	6	4	5	9	8	5	9	3.5	24	
3	7	7	5	3	3	3	5	7	7	10	10	18	9	9	10	11	12	13	13	13	11	8	10	17	18	9.2	24	
4	14	12	10	10	9	7	25	10	7	3	6	9	6	8	12	13	13	13	10	7	9	8	1	1	25	9.3	24	
5	5	7	8	8	7	9	11	23	15	12	8	6	7	10	12	9	10	9	8	6	6	6	0	-2	23	8.3	24	
6	4	5	4	6	5	6	6	4	7	17	14	17	23	42	53	33	25	23	24	15	17	12	15	12	53	16.2	24	
7	9	8	15	12	13	12	8	8	9	11	16	11	12	12	12	16	15	18	19	17	12	11	12	16	19	12.7	24	
8	15	13	13	15	17	15	26	30	24	25	37	37	37	37	28	31	19	22	18	18	17	10	11	10	37	21.9	24	
9	18	12	10	19	16	19	18	18	8	17	22	16	14	12	9	8	8	9	7	7	10	7	6	4	22	12.3	24	
10	5	9	8	6	5	5	7	7	7	8	9	9	11	10	7	9	9	10	13	21	10	6	5	8	21	8.5	24	
11	7	9	15	9	8	6	5	2	-1	0	3	7	10	17	24	9	19	29	5	5	5	4	2	0	29	8.3	24	
12	1	2	3	2	3	6	2	-1	-2	-1	1	3	4	5	1	1	2	1	2	1	2	1	-4	-5	6	1.3	24	
13	-3	-2	-2	-1	-3	-1	3	3	1	3	6	5	5	7	2	2	5	6	8	7	5	4	3	2	8	2.7	24	
14	2	2	2	2	3	6	6	7	9	8	25	29	33	23	29	33	22	20	10	8	7	6	5	3	33	12.5	24	
15	2	4	3	2	4	6	5	2	3	3	3	9	8	3	5	8	9	10	7	1	0	3	2	4	10	4.4	24	
16	5	4	3	0	4	4	0	1	-1	1	1	6	10	9	12	9	5	1	-2	-1	-2	-2	2	2	12	3.0	24	
17	0	0	2	3	5	5	1	1	0	1	5	7	4	0	5	6	9	11	7	5	6	5	5	3	11	4.0	24	
18	1	4	3	-2	0	2	1	2	2	0	2	4	2	2	3	2	0	2	4	4	3	3	5	6	6	2.3	24	
19	6	7	7	6	5	2	0	0	0	2	5	3	3	9	9	2	2	2	2	2	X	X	X	X	9	3.7	20	
20	X	X	X	X	X	X	X	X	X	X	10	24	19	35	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	35	22.0	4
21	19	16	16	41	10	10	13	12	8	-6	6	9	17	-5	-5	-4	16	14	12	9	5	3	3	2	41	9.2	24	
22	2	4	3	1	1	0	-2	2	2	Y	1	2	3	7	C	C	12	8	5	5	4	5	8	7	12	3.8	23	
23	3	1	1	3	3	-1	-1	0	1	1	2	4	4	6	9	23	16	12	26	5	6	9	9	6	26	6.2	24	
24	4	4	6	10	12	14	14	12	10	15	14	13	11	10	9	19	33	17	18	13	11	20	6	3	33	12.4	24	
25	3	3	-1	-2	3	4	3	5	5	5	3	5	16	12	11	10	9	9	11	9	18	6	7	5	18	6.6	24	
26	5	2	0	1	0	1	-1	0	4	1	2	23	17	18	22	20	12	12	25	14	20	23	30	12	30	11.0	24	
27	11	5	2	4	2	-2	-1	0	2	6	15	27	27	27	14	14	16	17	15	7	3	-3	-2	3	27	8.7	24	
28	0	-2	2	6	3	-1	2	3	4	3	0	6	11	9	3	-1	1	31	10	17	13	22	24	7	31	7.2	24	
29	3	1	4	5	6	6	3	2	2	1	3	38	18	15	11	12	13	11	7	6	2	0	0	-2	38	7.0	24	
30	21	14	18	18	13	17	6	9	10	6	6	21	20	12	25	17	16	15	10	7	5	3	2	4	25	12.3	24	
31	15	20	15	13	11	7	7	9	14	9	10	12	15	4	5	5	8	14	27	17	-2	16	26	21	27	12.4	24	
HOURLY MAX	21	20	18	41	17	19	26	30	24	25	37	38	37	42	53	33	33	31	27	21	20	23	30	21				
HOURLY AVG	6.4	5.9	6.1	6.9	5.8	5.8	5.9	6.1	5.4	5.7	8.0	12.4	12.3	12.0	11.9	11.2	11.5	12.4	11.2	8.5	7.2	7.1	7.0	5.4				

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

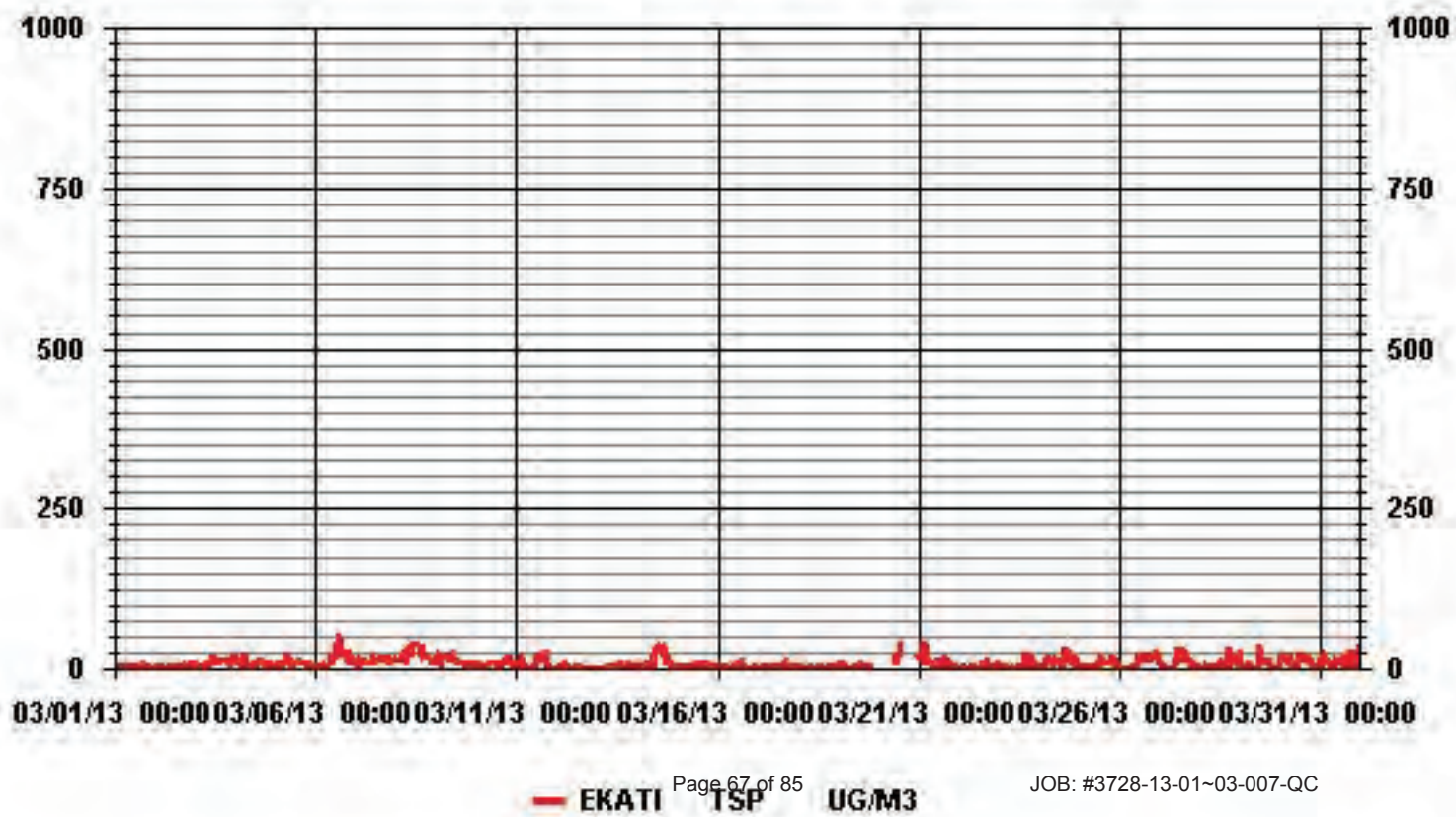
24 HOUR AVERAGES FOR MARCH 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	651				
MAXIMUM 1-HR AVERAGE:	53	ug/m3	@ HOUR(S)	14	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	22.0	ug/m3			ON DAY(S)
					VAR-VARIOUS
MONTHLY CALIBRATION TIME:	2	HRS	OPERATIONAL TIME:	719	HRS
			AMD OPERATION UPTIME:	96.6	%
STANDARD DEVIATION:	7.90		MONTHLY AVERAGE:	8.28	ug/m3

01 Hour Averages



Calibration Reports

Sulphur Dioxide

Station Information

Equipment Information					
Analyzer Make / Model:	API 100E	S/N :	1232	Method:	Fluorescent
Converter Make / Model:	NA	S/N :	NA		
Calibrator Make / Model:	EnviroNics 6100	S/N :	5212	Method:	Dilution
DAS Make / Model:	Envidas/ADAM 5000	S/N :	NA		
Chart Recorder Make / Model:	NA		S/N:	NA	
Flow Meter:		S/N :			

Analyzer Settings

	Before Calibration				After Calibration			
Concentration Range	0-500ppb				0-500ppb			
Sample Flow / Box Temp	649	ccm	30.1	Deg C	649	ccm	30	Deg C
HPVS / Lamp Setting	575		2789(90%)		575		2788(90%)	
PMT / RxCell Temp	8.2	Deg C	50	Deg C	8.3	Deg C	50	Deg C
Converter / IZS Temp	na	Deg C	40	Deg C	na	Deg C	40.0	Deg C
Offset / Slope	50.9		0.966		50.9		0.966	

Calibration Data

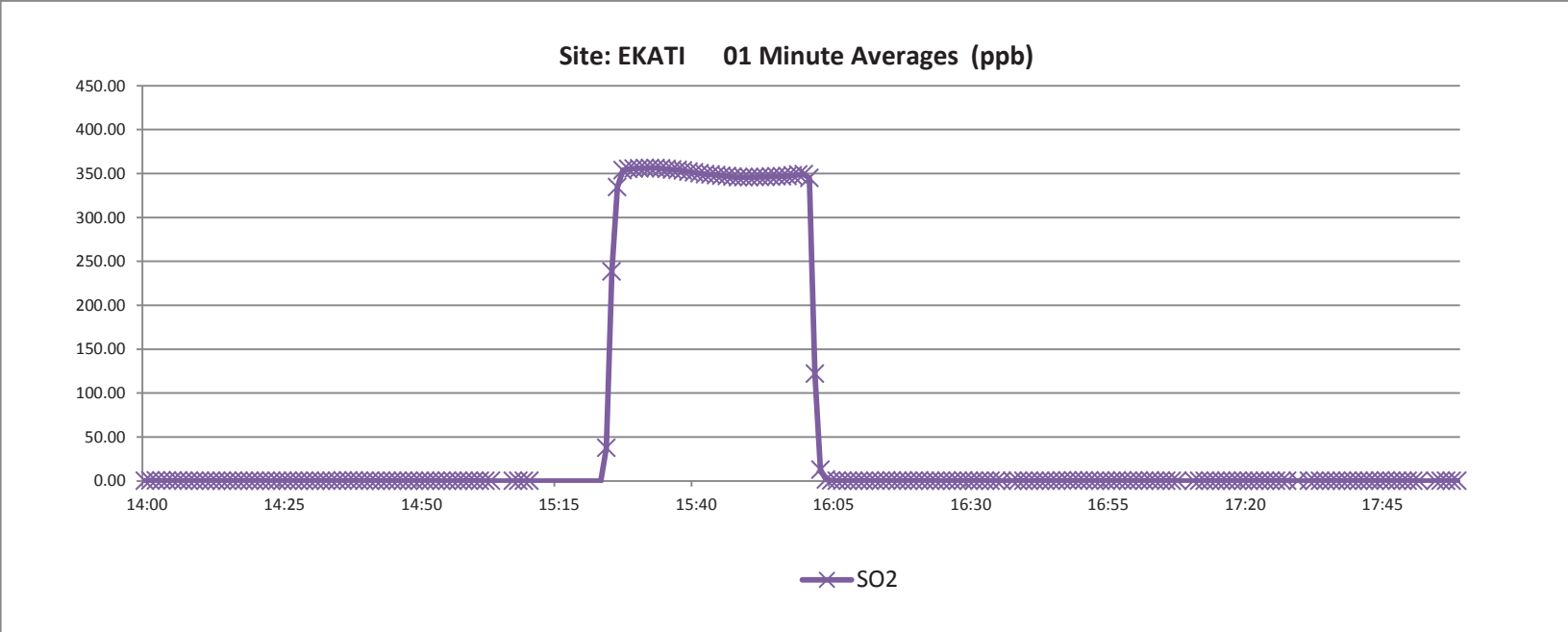
Calibration Data				
Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
5000	0	0	0	0.0000
5000		0		0.0000
4962	38.3	371	349	1.0622
		Sum of Least Squares New Correction Factor		1.0622

IZS Calibration Data

ICE Calibration Data		
	Before Calibration	After Calibration
Auto Zero	0.0	0.0
Auto Span	328.0	328.0
Sample Lines Connected		Yes

Percent Change

Previous Month's Calibration Correction Factor:	1.0000
Current Correction Factor Before Span Adjust:	1.0622
Percent Change:	-5.9%



SO2 Calibration Report

Station Information

Calibration Date	March 21, 2013	Previous Calibration	October 29, 2012
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	6:00	End Time (MST)	7:30
Reason:	AS FOUND		
Barometric Pressure	28.37 inHg	Station Temperature	20 Deg C
Cal Gas	48.4 ppm	Gas Cyl. #	LL105149
		Cal Gas Expiry date	September 13, 2013
DAS Output Voltage	0-5 Volts	Chart Rec. Output	NA Volts

Equipment Information

Analyzer Make / Model:	API 100E	S/N :	1232	Method:	Fluorescent
Converter Make / Model:	NA	S/N :	NA		
Calibrator Make / Model:	EnviroNics 6100	S/N :	5212	Method:	Dilution
DAS Make / Model:	Envidas/ADAM 5000	S/N :	NA		
Chart Recorder Make / Model:	NA	S/N:	NA		
Flow Meter:		S/N :			

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range	0-500ppb			ppb			
Sample Flow / Box Temp	652 ccm	28.4 Deg C		652 ccm	28.4 Deg C		
HVPS / Lamp Setting	575	2789(90%)		575	2788(90%)		
PMT / RxCell Temp	8.2 Deg C	50 Deg C		8.3 Deg C	50 Deg C		
Converter / IZS Temp	na Deg C	40 Deg C		na Deg C	40.0 Deg C		
Offset / Slope	50.9	0.966		50.9	0.966		

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
5000	0	0	0	0.0000
5000		0		0.0000
4962	38.3	371	365	1.0157
			Sum of Least Squares	
			New Correction Factor	1.0157

IZS Calibration Data

Before Calibration		After Calibration
Auto Zero	0.0	0.0
Auto Span	328.0	328.0
Sample Lines Connected		Yes

Percent Change

Previous Month's Calibration Correction Factor:	1.0000
Current Correction Factor Before Span Adjust:	1.0157
Percent Change:	-1.5%

Notes:

Calibration Performed by: Limin Li

SO2 Calibration Report

Station Information

Calibration Date	March 21, 2013	Previous Calibration	October 30, 2012
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	8:50	End Time (MST)	14:50
Reason:	Quarterly Calibration		
Barometric Pressure	28.39 inHg	Station Temperature	20 Deg C
Cal Gas	48.4 ppm	Gas Cyl. #	LL105149
DAS Output Voltage	0-5 Volts	Cal Gas Expiry date	September 13, 2013
		Chart Rec. Output	NA Volts

Equipment Information

Analyzer Make / Model:	API 100E	S/N :	1232	Method:	Fluorescent
Converter Make / Model:	NA	S/N :	NA		
Calibrator Make / Model:	EnviroNics 6100	S/N :	5212	Method:	Dilution
DAS Make / Model:	Envidas/ADAM 5000	S/N :	NA		
Chart Recorder Make / Model:	NA	S/N:	NA		
Flow Meter:		S/N :			

Analyzer Settings

Before Calibration						After Calibration			
Concentration Range		0-500ppb				ppb			
Sample Flow / Box Temp	641	ccm	29.5	Deg C	620	ccm	33.2	Deg C	
HVPS / Lamp Setting	-575		2787(101%)		-575		2781(101%)		
PMT / RxCell Temp	8.2	Deg C	50	Deg C	8.2	Deg C	49.9	Deg C	
Converter / IZS Temp	na	Deg C	40	Deg C	na	Deg C	40.0	Deg C	
Offset / Slope	50.9		0.966		45.7		1.088		

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
5000	0	0	0	0.0000
	No Zero Adj.			
4962	38.3	371	371	1.0000
	No Span Adj.			
4981	19.2	186	186	1.0000
4990	9.6	93	93	1.0000
5000	0	0	0	0.0000
Sum of Least Squares				0.9992
New Correction Factor				1.0000

IZS Calibration Data

Before Calibration		After Calibration
Auto Zero	0.0	0.0
Auto Span	344.0	377.0
Sample Lines Connected		Yes

Percent Change

Previous Month's Calibration Correction Factor:	1.0000
Current Correction Factor Before Span Adjust:	1.0000
Percent Change:	0.0%

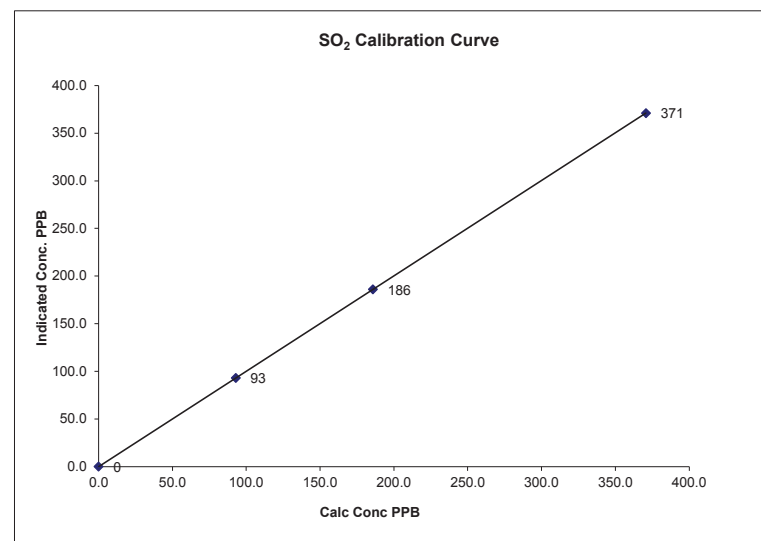
Notes:	Before routine calibration, do UV Lamp ratio(adjust to 100%).
	Renew charcol.
	Audit sample flow rate: 620ccm. Adjusted sample flow slope from 1.297 to 1.255.

Calibration Performed by: Limin Li

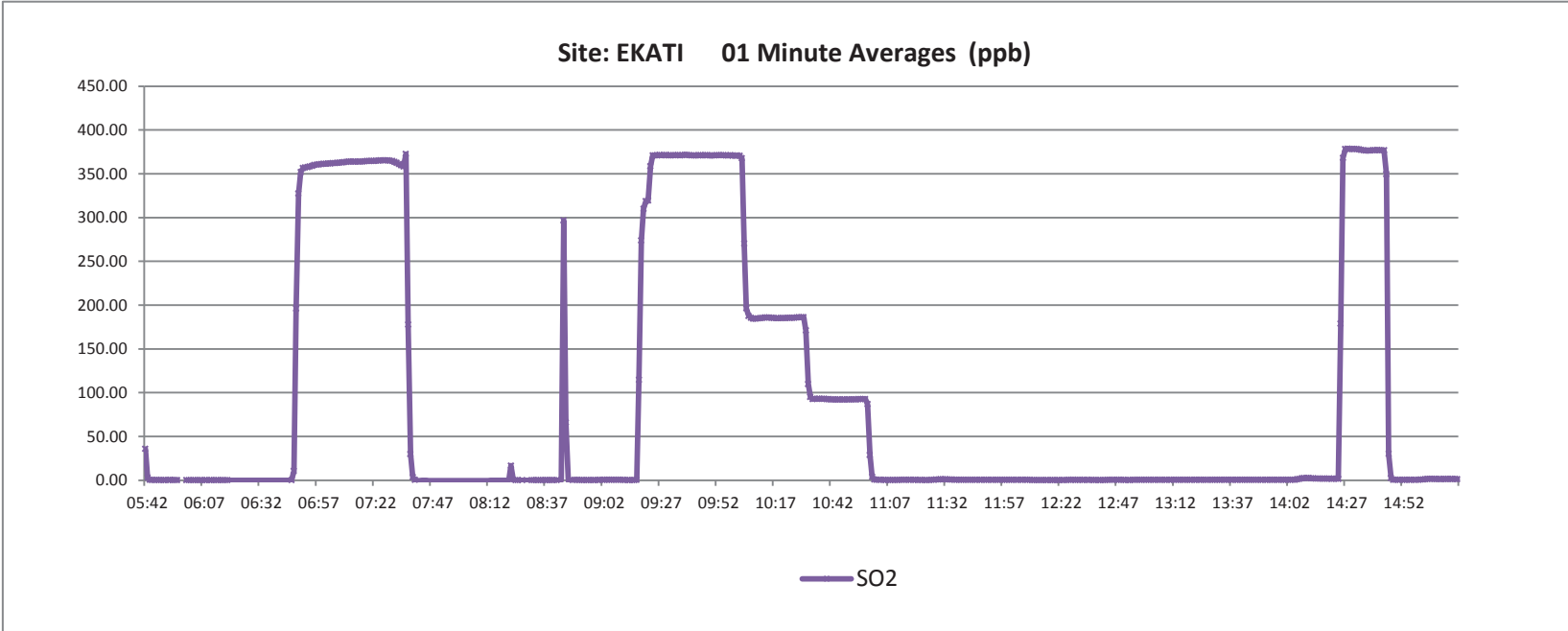
SO2 Calibration Curve

Calibration Date	March 21, 2013
Company	BHP Billiton Diamonds Inc.
Plant / Location	EKATI Mine
Start Time (MST)	8:50
End Time (MST)	14:50

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) (± 3% F.S.)
0	0	0.0000		1.000000
93	93	1.0000		1.000759
186	186	1.0000		0.000306
371	371	1.0000		



Notes:



Nitrogen Dioxide

NOx - NO- NO₂ Calibration Report

Station Information

Calibration Date	March 20, 2013	Previous Calibration	October 29, 2012
Company	BHP Billiton Diamonds Inc.	Plant/Location	EKATI Mine
Start Time (MST)	15:00	End Time (MST)	16:00
Reason:	As found point.		
Barometric Pressure	28.4 inHg	Station Temperature	20 Deg C
Cal Gas Concentration	NOx 52.4 ppm	NO 52.2 ppm	Cal Gas Expiry date September 13, 2013
Cal Gas Cylinder #	LL105149		
DAS Output Voltage	0-5 Volts	Chart Rec. Output	na Volts

Equipment Information

Analyzer Make / Model:	API 200E	S/N :	1375	Method:	Chemiluminescent
Calibrator Make / Model:	EnviroNics 6100	S/N:	5212		
DAS Make / Model:	Envidas/ADAM 5000	S/N :	na		
Chart Recorder Make / Model:	na	S/N:	na		
Flow Meter:		S/N :			

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range			0-500				
Sample Flow/Conv. Temp	495 ccm	315.5 Deg C		493 ccm	315 Deg C		
Ozone Flow / Vacuum	79 ccm	7.1 °Hg-A		79 ccm	7.1 °Hg-A		
HVPS / A ZERO	-716 Volts	2.4 MV		-716 Volts	2.4 MV		
Rx/ Temp / PMT Temp	50.0 Deg C	6.7 Deg C		50.0 Deg C	6.7 Deg C		
Box Temp / IZS Temp	32.6 Deg C	50.2 Deg C		32 Deg C	50 Deg C		
Offset	0.7 NOx	0.2 NO		0.7 NOx	0.2 NO		
Slope	1.037 NOx	1.037 NO		1.037 NOx	1.037 NO		
NO ₂ COEF / Conv Efficiency	na NO ₂	0.966		na NO ₂	0.966		

Dilution Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			Correction Factor	
			NOx	NO	NO ₂	NOx	NO	NO ₂	NOx	NO
5000	0.0	0	0	0	0	-1	-1	-1	0	0
4962	38.3	0	401	400	0	390	384	6	1.0265	1.0385

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			NO ₂ Correction Factor	NO ₂ Conv Efficiency
			NOx	NO	NO ₂	NOx	NO	NO ₂		

Linearity OK?	Yes	No	Sum of Least Squares Correction Factors:	NOx=	NO=	NO ₂ =
				NOx= 1.0265	NO= 1.0385	NO ₂ =
				Average Converter Efficiency=		

IZS Calibration Data

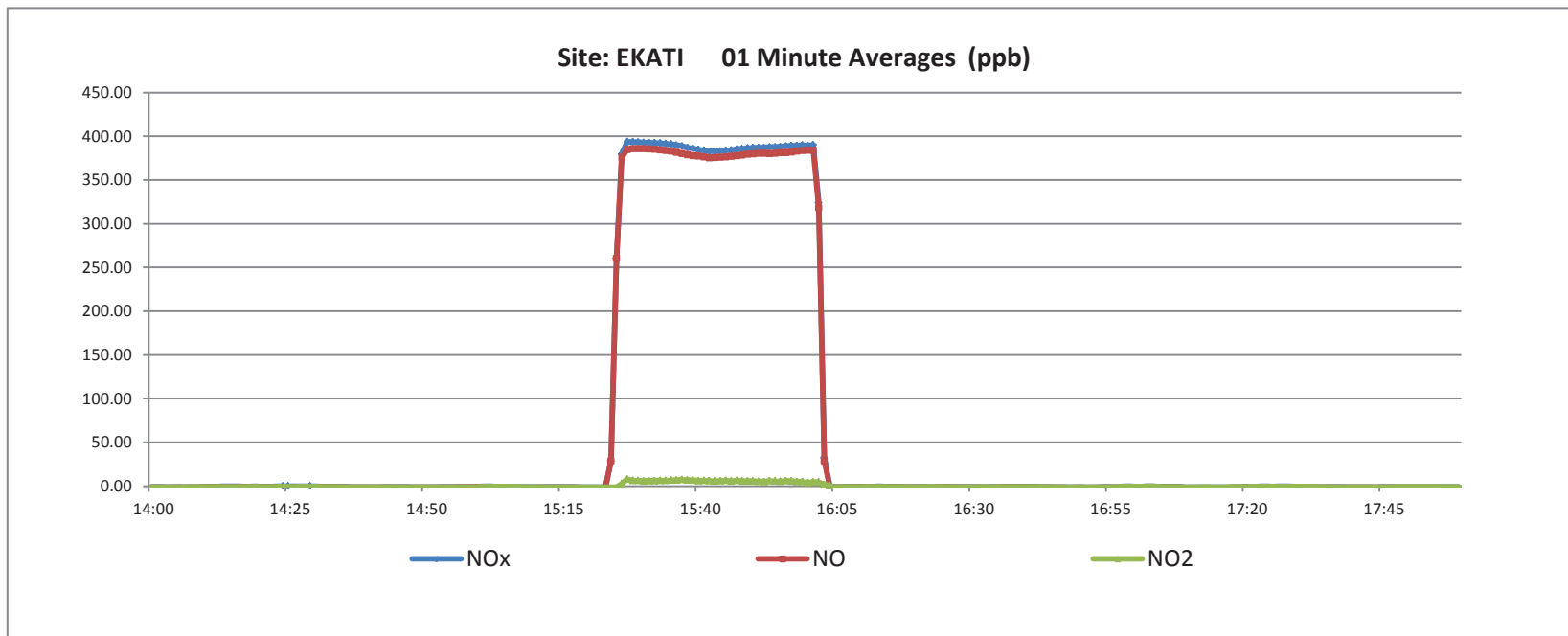
Before Calibration				After Calibration			
Auto Zero	0.0 NOx	0.0 NO ₂		0.0 NOx	0.0 NO ₂		
Auto Span	241 NOx	238 NO ₂		241 NOx	238 NO ₂		
Sample Lines Connected				Yes			

Percent Change

	NOx	NO	NO ₂
Previous Month's Calibration Correction Factor	1.000	1.000	0.998
Current Correction Factor Before Span Adjust	1.026	1.039	
Percent Change	-2.6%	-3.7%	

Notes

Calibration Performed by: Limin Li



NOx - NO- NO₂ Calibration Report

Station Information

Calibration Date	March 21, 2013	Previous Calibration	October 29, 2012
Company	BHP Billiton Diamonds Inc.	Plant/Location	EKATI Mine
Start Time (MST)	6:00	End Time (MST)	7:30
Reason:	As found point.		
Barometric Pressure	28.37 inHg	Station Temperature	20 Deg C
Cal Gas Concentration	NOx 52.4 ppm	NO 52.2 ppm	Cal Gas Expiry date September 13, 2013
Cal Gas Cylinder #	LL105149		
DAS Output Voltage	0-5 Volts	Chart Rec. Output	na Volts

Equipment Information

Analyzer Make / Model:	API 200E	S/N :	1375	Method:	Chemiluminescent
Calibrator Make / Model:	EnviroNics 6100	S/N:	5212		
DAS Make / Model:	Envidas/ADAM 5000	S/N :	na		
Chart Recorder Make / Model:	na	S/N:	na		
Flow Meter:		S/N :			

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range			0-500				
Sample Flow/Conv. Temp	495 ccm	314.8 Deg C		493 ccm	315 Deg C		
Ozone Flow / Vacuum	79 ccm	7.0 °Hg-A		79 ccm	7 °Hg-A		
HVPS / A ZERO	-716 Volts	2.4 MV		-716 Volts	2.4 MV		
Rx/ Temp / PMT Temp	50.0 Deg C	6.7 Deg C		50.0 Deg C	6.7 Deg C		
Box Temp / IZS Temp	30.7 Deg C	50.0 Deg C		31 Deg C	50 Deg C		
Offset	0.7 NOx	0.2 NO		0.7 NOx	0.2 NO		
Slope	1.037 NOx	1.037 NO		1.037 NOx	1.037 NO		
NO ₂ COEF / Conv Efficiency	na NO ₂	0.966		na NO ₂	0.966		

Dilution Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			Correction Factor	
			NOx	NO	NO ₂	NOx	NO	NO ₂	NOx	NO
5000	0.0	0	0	0	0	-1	-1	-1	0	0
4962	38.3	0	401	400	0	394	392	1	1.0161	1.0174

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			NO ₂ Correction Factor	NO ₂ Conv Efficiency
			NOx	NO	NO ₂	NOx	NO	NO ₂		

Linearity OK?	Yes	No	Sum of Least Squares Correction Factors:	NOx= 1.0161	NO= 1.0174	NO ₂ =
				Average Converter Efficiency=		

IZS Calibration Data

Before Calibration				After Calibration			
Auto Zero	0.0 NOx	0.0 NO ₂		0.0 NOx	0.0 NO ₂		
Auto Span	241 NOx	238 NO ₂		241 NOx	238 NO ₂		
Sample Lines Connected				Yes			

Percent Change

	NOx	NO	NO ₂
Previous Month's Calibration Correction Factor	1.000	1.000	0.998
Current Correction Factor Before Span Adjust	1.016	1.017	
Percent Change	-1.6%	-1.7%	

Notes

Calibration Performed by: Limin Li

NOx - NO- NO2 Calibration Report

Station Information

Calibration Date	March 21, 2013	Previous Calibration	October 30, 2012
Company	BHP Billiton Diamonds Inc.	Plant/Location	EKATI Mine
Start Time (MST)	8:50	End Time (MST)	14:50
Reason:	Quarterly Monthly		
Barometric Pressure	28.39 inHg	Station Temperature	20 Deg C
Cal Gas Concentration	NOx 52.4 ppm	NO	52.2 ppm
Cal Gas Cylinder #	LL105149	Cal Gas Expiry date	September 13, 2013
DAS Output Voltage	0-5 Volts	Chart Rec. Output	na Volts

Equipment Information

Analyzer Make / Model:	API 200E	S/N :	1375	Method:	Chemiluminescent
Calibrator Make / Model:	EnviroNics 6100	S/N:	5212		
DAS Make / Model:	Envivas/ADAM 5000	S/N :	na		
Chart Recorder Make / Model:	na	S/N:	na		
Flow Meter:		S/N :			

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range		0-500					
Sample Flow/Conv. Temp	495 ccm	315.8 Deg C		442 ccm	315 Deg C		
Ozone Flow / Vacuum	79 ccm	4.6 °Hg-A		79 ccm	4.6 °Hg-A		
HVPS / A ZERO	-716 Volts	2.1 MV		-716 Volts	2.1 MV		
Rx/ Temp / PMT Temp	50.0 Deg C	6.7 Deg C		50.2 Deg C	6.7 Deg C		
Box Temp / IZS Temp	30.9 Deg C	50.2 Deg C		33.7 Deg C	50.3 Deg C		
Offset	0.7 NOx	0.2 NO		1.4 NOx	0.5 NO		
Slope	1.037 NOx	1.037 NO		1.048 NOx	1.049 NO		
NO2 COEF / Conv Efficiency	na NO2	0.966		na NO2	0.966		

Dilution Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			Correction Factor	
			NOx	NO	NO2	NOx	NO	NO2	NOx	NO
5000	0.0	0	0	0	0	0	0	0	0	0
	No Zero Adj.									
4962	38.3	0	401	400	0	401	400	1	1.0000	1.0000
	No Span Adj.									
4981	19.2	0	201	200	0	201	200	1	1.0000	1.0000
4990	9.6	0	101	100	0	100	100	0	1.0062	1.0000
5000	0.0	0	0	0	0	0	0	0	0.0000	0.0000

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			NO2 Correction Factor	NO2 Conv Efficiency
			NOx	NO	NO2	NOx	NO	NO2		
4962	38.3	0	401	400	0	404	403	1	0	0.00%
4962	38.3	280	401	0.0	264	404	140	264	1.0000	100.00%
4962	38.3	160	401	0.0	152	404	252	152	1.0000	100.00%
4962	38.3	70	401	0.0	69	404	335	69	1.0000	100.00%

Linearity	Sum of Least Squares	NOx= 1.001	NO= 1.000	NO2= 1.000
OK?	Correction Factors:	NOx= 1.0000	NO= 1.0000	NO2= 1.0000
Yes		Average Converter Efficiency= 100.00%		

IZS Calibration Data

Before Calibration				After Calibration			
Auto Zero	0.0 NOx	0.0 NO2		0.0 NOx	0.0 NO2		
Auto Span	262 NOx	258 NO2		262 NOx	258 NO2		
Sample Lines Connected:				Yes			

Percent Change

	NOx	NO	NO2
Previous Month's Calibration Correction Factor	1.000	1.000	0.998
Current Correction Factor Before Span Adjust	1.000	1.000	1.000
Percent Change	0.0%	0.0%	-0.2%

Notes

Before routine calibration, calibrate all channel analogue output.

Change a rebuilt pump. Renew charcoal and purafil. Change O3 inline exhaust scrubber.

Change zero air DFU. Rebuilt old pump as spare.

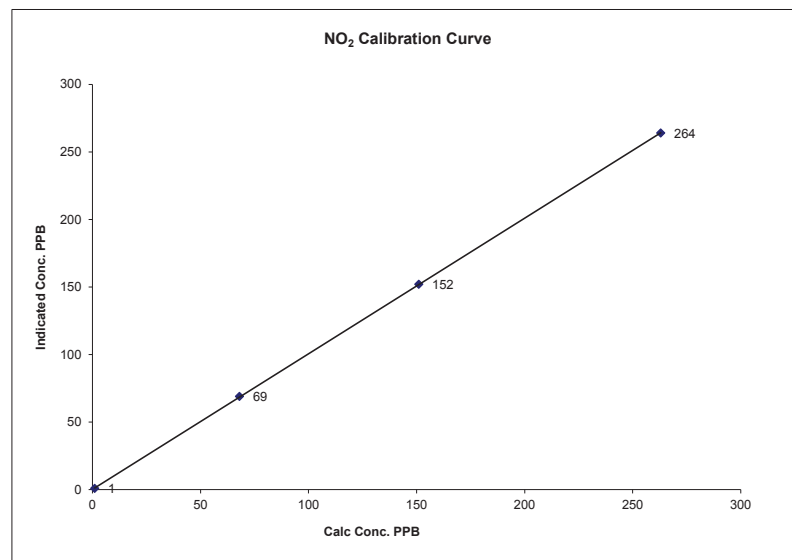
Audit sample flow rate: 440ccm. Adjusted sample flow slope from 1.16 to 1.04.

Calibration Performed by: Limin Li

NO2 Calibration Curve

Calibration Date	March 21, 2013
Company	BHP Billiton Diamonds Inc.
Plant / Location	EKATI Mine
Start Time (MST)	8:50
End Time (MST)	14:50

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) (± 3% F.S.)
1	1	0.0000		0.999990
68	69	0.9855		1.003129
151	152	0.9934		0.37219
263	264	0.9962		

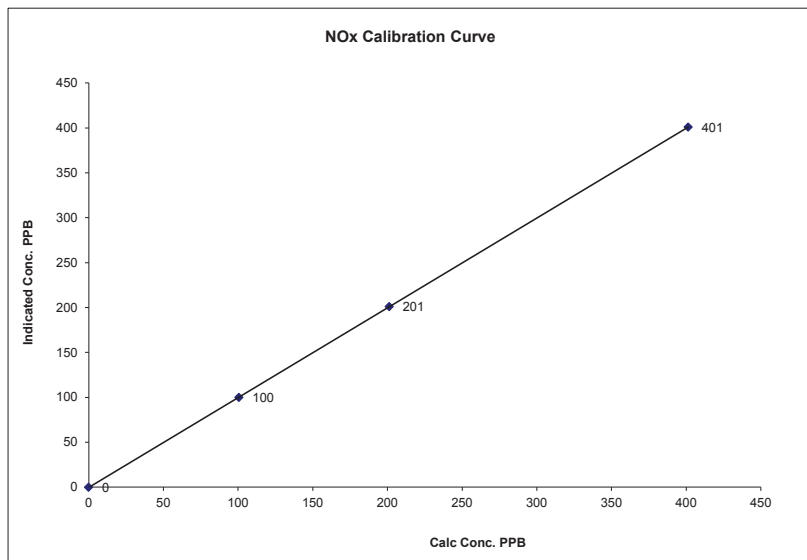


Notes:

NOx Calibration Curve

Calibration Date	March 21, 2013		
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	8:50	End Time (MST)	14:50

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) ($\pm 3\%$ F.S.)	0.999998 0.999544 -0.21584
0	0	0.0000			
101	100	1.0062			
201	201	1.0000			
401	401	1.0000			

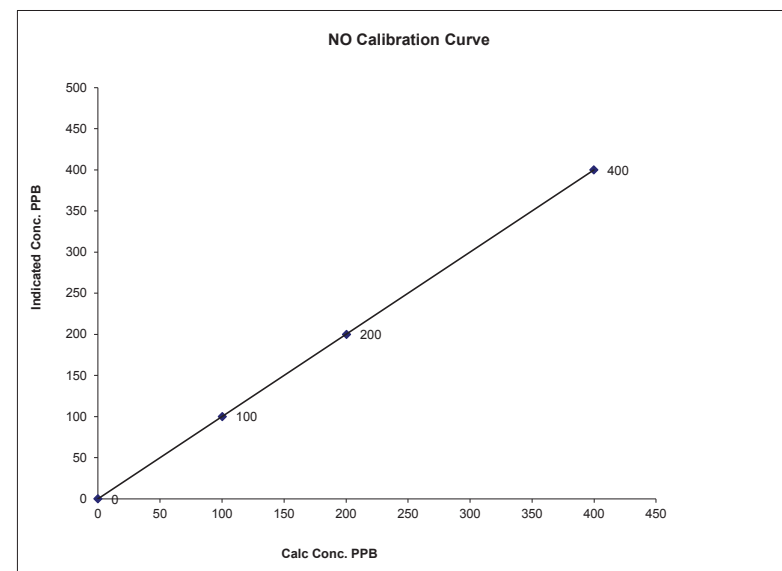


Notes:

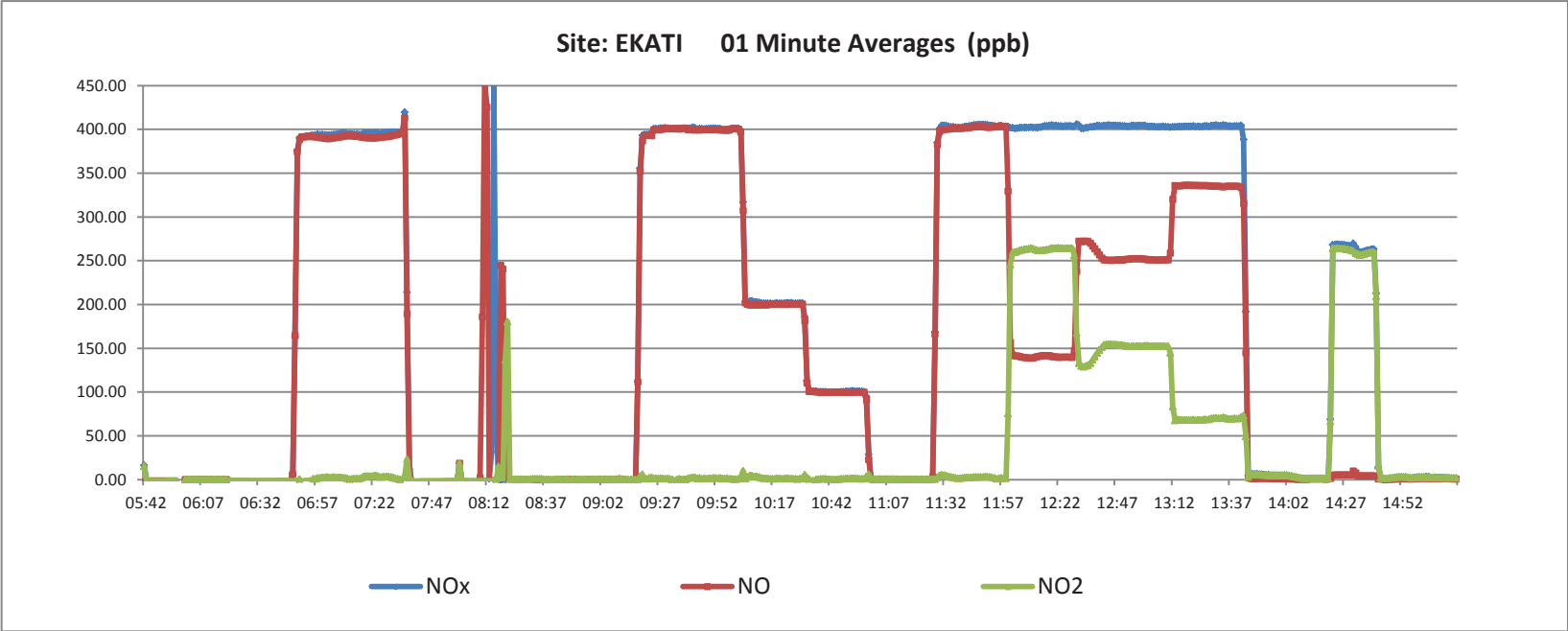
NO Calibration Curve

Calibration Date	March 21, 2013		
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	8:50	End Time (MST)	14:50

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) ($\pm 3\%$ F.S.)	0.999998 1.000513 -0.21493
0	0	0.0000			
100	100	1.0000			
200	200	1.0000			
400	400	1.0000			



Notes:



Particulate Matter 2.5

BAM -1020

Audit Report

Station Information

Date: March 22, 2013
 Company: BHP Billiton Diamonds Inc.
 Location: EKATI Mine
 Station Name: Polar Explosives

Audit Transfer Standard

Make/Model: MNF1868
 Serial Number: FRM1210
 Cell S/N:
 Thermometer S/N: Fluke (1735039)

Instrument Information

Make/Model: BAM 1020
 Serial Number: F4642
 Unit Number: 2
 Parameter: PM2.5
 Analog Output Voltage: 0-10 vdc
 Flow Type: Actual
 Amb Temperature Sensor Used: Y
 Model Number: BX 592-2 (-50 to +50C)

Mechanical Audit:

Pump Muffler Unclogged: Y
 Sample Nozzel Clean: Y
 Tape Support Vane Clean: Y
 Capstan Shaft Clean: Y
 Rubber Pinch Rollers Clean: Y
 Inlet Clean: Y
 Inlet tube Position Correct: Y
 Water Tight Seal OK: Y

Flow Audit

Note: Tolerances are in (BOLD)

Leak Check Value

Amb Temperature (C)
 Baro Pressure (mmHg)
 Flow Rate (lpm)

0.1 lpm (1.0 lpm)		
BAM	Ref. Std.	Difference
-17.0	-17.0	0.0
725	725	0
16.7	16.77	-0.07

Flow Setpoint:

16.7 lpm

Membrane Audit

Last m (mg): 0.813
 ABS (mg): 0.812
 Difference (mg): -0.001
 % Difference: -0.12%

Error Codes (last six)

1 Tape 4 Power fail
 2 Tape 5 Tape
 3 Maintenance 6 Maintenance

Setup and Calibration Values

Range 1.0 mg Flow Set-pt. 16.7
 Units ug/m3 HEATER Auto
 Offset -0.005 AP 150
 Count Time 4min FRI 10
 Cv 1.001 FRh 20
 Qo 0.000 RH Control YES
 ABS 0.812 RH Set-pt. 35%
 u sw 0.287 e1 -0.005
 K factor 0.936 BKRD -0.0099

Comments: Audit from 07:00am. Finished at 13:00pm. Replace Nozzle O-ring.

Audited By: Limin Li

Total Suspended Particulate

BAM -1020

Audit Report

Station Information

Date:	March 22, 2013
Company:	BHP Billiton Diamonds Inc.
Location:	EKATI Mine
Station Name:	Polar Explosives

Audit Transfer Standard

Make/Model:	MNF1868
Serial Number:	FRM1210
Cell S/N:	
Thermometer S/N:	Fluke 1735039

Instrument Information

Make/Model:	BAM 11020
Serial Number:	F 4641
Unit Number:	1
Parameter:	TSP
Analog Output Voltage:	0-1vdc
Flow Type:	Actual
Amb Temperature Sensor Used:	Y
Model Number:	BX592-2

Mechanical Audit:

Pump Muffler Unclogged:	Y
Sample Nozzel Clean:	Y
Tape Support Vane Clean:	Y
Capstan Shaft Clean:	Y
Rubber Pinch Rollers Clean:	Y
Inlet Clean:	Y
Inlet tube Position Correct:	Y
Water Tight Seal OK:	Y

Flow Audit

Note: Tolerances are in **(BOLD)**

Leak Check Value

Amb Temperature (C)
Baro Pressure (mmHg)
Flow Rate (lpm)

0 lpm (1.0 lpm)		
BAM	Ref. Std.	Difference
-17.3	-17.3	0.0
726	726	0
16.7	16.6	0.1

Flow Setpoint:

16.7 lpm

Membrane Audit

Last m (mg):	0.812
ABS (mg):	0.813
Difference (mg)	0.001
% Difference:	0.12%

Error Codes (last six)

1 Flow	4 Flow
2 Power Fail	5 Flow
3 Flow	6 Flow

Setup and Calibration Values

Range	0-1mg	Flow Set-pt.	16.7
Units	mg/m3	HEATER	Auto
Offset	-0.005	AP	150
Count Time	4min	FRI	10
Cv	0.987	FRh	20
Qo	0.000	RH Control	Yes
ABS	0.813	RH Set-pt.	35%
u sw	0.287	e1	-0.005
K factor	0.965	BKRD	-0.0046

Comments: Audit from 14:00am to 15:00am.

Audited By:

Page 85 of 85
Limin Li

JOB: #3728-13-01-03-007-QC

BHP Billiton Diamonds Inc.
EKATI Diamond Mine
Ambient Air Monitoring Data Report

For
April to June 2013

Prepared By:



September 22, 2014

BHP Billiton Diamonds Inc. EKATI Diamond Mine Ambient Air Monitoring

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Introduction

The following Ambient Air Monitoring report was prepared for:

Mr. Andrew Howton
BHP Billiton Diamonds Inc.
#1102 4920 52nd Street
Yellowknife, NT, X1A 3T1

Monitoring Location: EKATI
Data Period: April to June 2013

The monthly ambient data report:

- Prepared by Lili Zhou
- Reviewed by Lily Lin

Calibration Procedure

The calibrations conducted at the BHP Billiton Diamonds Inc. - EKATI Air Monitoring Station conform to the following Maxxam Standard Operation Procedures:

- CAL SOP-00211
- CAL SOP-00213
- CAL SOP-00215

Conformance of each calibration to Alberta Environment regulations is outlined in the individual calibration reports. The slope and correlation coefficient are derived from the calculated and indicated analyzer responses. The percent change is calculated using the previous calibration correction factor and the current correction factor before adjustment. All calibration's and maintenance conforms to the procedures outlined in the *Air Monitoring Directive, Appendix A-10, Section 1.6*.

Monthly Continuous Data Summary

BHP Billiton Diamonds Inc. - EKATI

Continuous Ambient Monitoring – April 2013

BHP Billiton Diamonds Inc.- EKATI		MAXIMUM VALUES					OPERATIONAL TIME (PERCENT)
		1-HOUR			24-HOUR		
PARAMETER	MONTHLY AVERAGE	READING	DAY	HOUR	READING	DAY	
SO ₂ (PPB)	0.20	7	2	10	1.0	10	100.0
NO ₂ (PPB)	2.64	46	14	6	19.3	14	100.0
NO (PPB)	4.40	369	2	10	47.0	2	100.0
NO _x (PPB)	6.91	397	2	10	55.0	2	100.0
PM _{2.5} (UG/M ³)	-1.84	8	14	7	1.1	23	99.9
TSP (UG/M ³)	11.57	340	30	23	44.6	14	100.0

NA: Not Applicable

Exceedences Summary Report

April 2013

Plant Operator: BHP Billiton Diamonds Inc.

Plant Location: EKATI

PARAMETER	CANADIAN AMBIENT AIR QUALITY OBJECTIVES		CANADIAN AMBIENT AIR QUALITY EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	344	115	0	0
NO ₂ (PPB)	213	106	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

PARAMETER	NT AMBIENT AIR QUALITY STANDARDS		NT AMBIENT AIR QUALITY STANDARDS EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	172	57	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

General Monthly Summary

Equipment Operation

The following summary outlines the analyzer performance compared to Canadian Environmental Quality Guidelines for ambient air monitors. Any problems or maintenance performed are detailed at the end of each section.

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Sulphur Dioxide (PPB)

- Analyzer make / model - API 100

The analyzer was working well throughout this month. No operational issues were observed. As the zero/span result for the month of April was not downloaded and provided to Maxxam reporting group, no IZS graph is included this month. The IZS graph will be added into the report when the information is available.

Nitrogen Dioxide (PPB)

- Analyzer make / model - API 200E

The analyzer was working well throughout this month. No operational issues were observed. As the zero/span result for the month of April was not downloaded and provided to Maxxam reporting group, no IZS graph is included this month. The IZS graph will be added into the report when the information is available.

Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

Hourly data collected on April 12th at hour 8 was invalidated due to the unit spike. Data was not corrected using Alberta air quality guideline for PM2.5 analyzer.

Total suspended Particulate ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

The BAM unit was working well throughout this month. No operational issues were observed.

Monthly Continuous Data Summary

BHP Billiton Diamonds Inc. - EKATI

Continuous Ambient Monitoring – May 2013

BHP Billiton Diamonds Inc. - EKATI		MAXIMUM VALUES					OPERATIONAL TIME (PERCENT)
		1-HOUR			24-HOUR		
PARAMETER	MONTHLY AVERAGE	READING	DAY	HOUR	READING	DAY	
SO ₂ (PPB)	0.32	7	18	23	1.4	19	100.0
NO ₂ (PPB)	4.69	50	18	23	13.2	4	100.0
NO (PPB)	9.28	361	18	23	50.5	4	100.0
NO _x (PPB)	12.92	403	18	23	63.0	4	100.0
PM _{2.5} (UG/M ³)	-1.01	155	6	17	16.9	5	99.9
TSP (UG/M ³)	18.17	516	31	22	66.0	31	100.0

NA: Not Applicable

Exceedences Summary Report

May 2013

Plant Operator: BHP Billiton Diamonds Inc.

Plant Location: EKATI

PARAMETER	CANADIAN AMBIENT AIR QUALITY OBJECTIVES		CANADIAN AMBIENT AIR QUALITY EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	344	115	0	0
NO ₂ (PPB)	213	106	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

PARAMETER	NT AMBIENT AIR QUALITY STANDARDS		NT AMBIENT AIR QUALITY STANDARDS EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	172	57	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

General Monthly Summary

Equipment Operation

The following summary outlines the analyzer performance compared to Canadian Environmental Quality Guidelines for ambient air monitors. Any problems or maintenance performed are detailed at the end of each section.

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Sulphur Dioxide (PPB)

- Analyzer make / model - API 100

The analyzer was working well throughout this month. No operational issues were observed. As the zero/span result for the month of April was not downloaded and provided to Maxxam reporting group, no IZS graph is included this month. The IZS graph will be added into the report when the information is available.

Nitrogen Dioxide (PPB)

- Analyzer make / model - API 200E

The analyzer was working well throughout this month. No operational issues were observed. As the zero/span result for the month of April was not downloaded and provided to Maxxam reporting group, no IZS graph is included this month. The IZS graph will be added into the report when the information is available.

Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

Hourly data collected on May 10th at hour 8 was invalidated due to the unit spike. Data was not corrected using Alberta air quality guideline for PM2.5 analyzer.

Total suspended Particulate ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

The BAM unit was working well throughout the month. No operational issues were observed.

Monthly Continuous Data Summary

BHP Billiton Diamonds Inc. - EKATI

Continuous Ambient Monitoring – June 2013

BHP Billiton Diamonds Inc. - EKATI		MAXIMUM VALUES					OPERATIONAL TIME (PERCENT)
		1-HOUR			24-HOUR		
PARAMETER	MONTHLY AVERAGE	READING	DAY	HOUR	READING	DAY	
SO ₂ (PPB)	0.38	10	13	6	1.4	11	97.9
NO ₂ (PPB)	3.60	39	3	2	21.3	13	96.8
NO (PPB)	7.17	234	3	2	81.5	11	96.8
NO _x (PPB)	9.60	272	3	2	99.0	11	96.8
PM _{2.5} (UG/M ³)	2.02	35	5	21	7.6	30	89.9
TSP (UG/M ³)	24.0	762	12	21	152.6	1	97.1

Exceedences Summary Report

June 2013

Plant Operator: BHP Billiton Diamonds Inc.

Plant Location: EKATI

PARAMETER	CANADIAN AMBIENT AIR QUALITY OBJECTIVES		CANADIAN AMBIENT AIR QUALITY EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	344	115	0	0
NO ₂ (PPB)	213	106	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	1

Note: NA

PARAMETER	NT AMBIENT AIR QUALITY STANDARDS		NT AMBIENT AIR QUALITY STANDARDS EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	172	57	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	1

Note: NA

General Monthly Summary

Equipment Operation

The following summary outlines the analyzer performance compared to Canadian Environmental Quality Guidelines for ambient air monitors. Any problems or maintenance performed are detailed at the end of each section.

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Sulphur Dioxide (PPB)

- Analyzer make / model - API 100

The analyzer was working well throughout this month. No operational issues were observed. The as found points check was performed on June 12th to ensure the analyzer's functionality. Maintenance was performed on June 13th, including permeation tube replacement and sample pump rebuilt. The analyzer was allowed time to stabilize overnight. A post-repair calibration was performed on June 14th. The oven temperature for the zero/span system was adjusted from 40 degree to 45 degree to increase the stability of the zero/span system on June 14th. The zero air charcoal was also renewed on June 14th.

Nitrogen Dioxide (PPB)

- Analyzer make / model - API 200E

The analyzer was working well throughout this month. No operational issues were observed. The as found points check was performed on June 12th to ensure the analyzer's functionality. Maintenance was performed on June 13th, including the reaction cell clean up, the orifice clean up, the O-rings and sinter filter replacements, the permeation tube replacement, and the oven temperature for the zero/span system adjustment (from 50 degree to 40 degree). The analyzer was allowed time to stabilize overnight. A post-repair calibration was performed on June 14th. The zero air charcoal and the purafil were changed on June 14th.

General Monthly Summary

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

A BKDG check was performed on June 13th at hour 10. The check was carried for 72 hours and ended on June 16th at hour 9th. The Bam audit/calibration was performed on June 16th. The O-rings for the head was changed on June 16th. Data was not corrected using Alberta air quality guideline for PM2.5 analyzer.

Total suspended Particulate ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

Hourly data collected on June 5th at hour 21 and hour 22 were invalidated due to the unit spike. The TSP channel was put into the Maintenance mode few hours while Maxxam field technician was checking the BAM unit for PM2.5. The BAM unit failed the first leak check. It was found that many small holes appeared on the sample tape. Performed troubleshooting by replacing the sample tape and cleaning the sample nozzle. The BAM unit passed the second leak check and the audit/calibration on June 15th.

Continuous Monitoring

Monthly Summaries & Graphs

Sulphur Dioxide

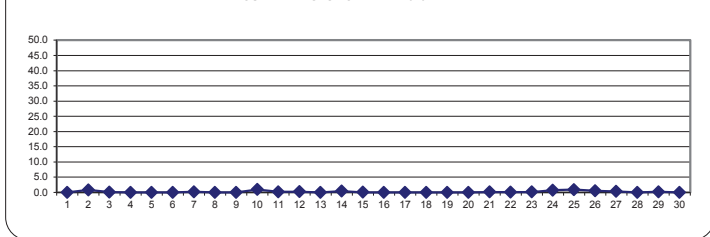
BHP Billiton Diamonds Inc. - EKATI
APRIL 2013
SULPHUR DIOXIDE (SO2) hourly averages in ppb

MST																								DAILY	24-HOUR			
HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	MAX.	AVG.	RDGS.	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
DAY																												
1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
2	0	0	0	0	0	S	0	0	0	2	7	3	4	1	2	0	0	0	0	0	0	0	0	0	0	7	0.8	24
3	1	1	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
4	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
5	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
6	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
7	0	0	0	0	0	S	0	0	0	1	0	0	0	2	0	1	0	0	0	0	0	0	0	0	2	0.2	24	
8	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
9	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
10	0	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24	
11	1	1	1	1	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	24	
12	0	0	0	0	0	S	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	2	0.2	24	
13	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
14	0	0	0	1	0	S	1	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	1	2	2	0.4	24	
15	1	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
16	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
17	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
18	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
19	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
20	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
21	0	0	0	0	0	S	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0.1	24	
22	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0.1	24	
23	0	0	0	0	0	S	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
24	0	0	0	0	0	S	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	24	
25	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0.9	24	
26	0	0	0	0	0	S	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0.6	24	
27	0	0	0	0	0	S	0	0	1	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	1	0.3	24	
28	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
29	0	0	0	1	1	S	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	24	
30	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
HOURLY MAX	1	1	1	1	1	NA	1	1	1	2	7	3	4	2	2	1	1	1	2	1	1	1	1	2				
HOURLY AVG	0.1	0.1	0.1	0.2	0.1	NA	0.2	0.1	0.2	0.3	0.5	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1				

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

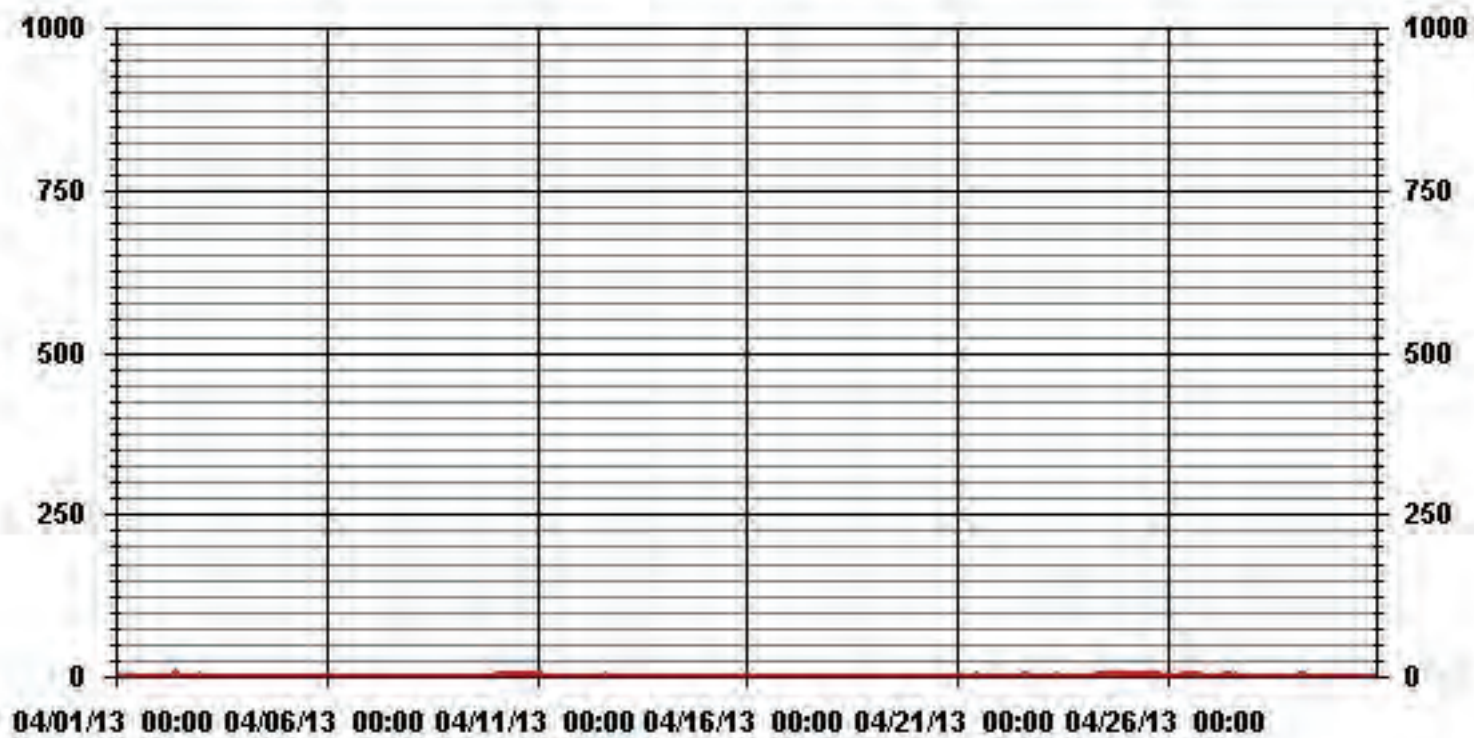
24 HOUR AVERAGES FOR APRIL 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	120				
MAXIMUM 1-HR AVERAGE:	7	PPB	@ HOUR(S)	10	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	1.0	PPB			ON DAY(S)
					VAR-VARIOUS
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	0.51		MONTHLY AVERAGE:	0.20	PPB

01 Hour Averages



— EKATI SO2 PPB

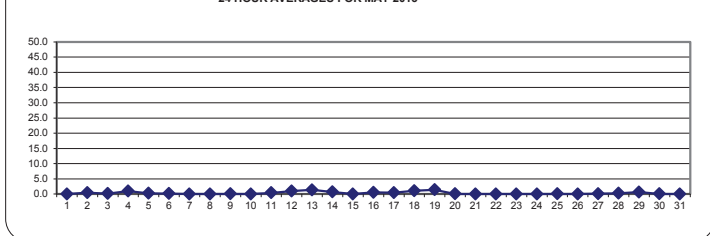
BHP Billiton Diamonds Inc. - EKATI
MAY 2013
SULPHUR DIOXIDE (SO2) hourly averages in ppb

MST																													
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily	24-Hour			
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Max.	Avg.	Rdgs.		
Day																													
1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
2	0	0	0	0	0	S	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0.5	24	
3	0	0	0	2	1	S	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.2	24		
4	1	1	2	2	2	S	0	0	0	0	0	0	0	0	0	0	1	1	0	1	2	4	2	3	4	1.0	24		
5	1	1	0	0	0	S	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.2	24		
6	0	0	1	0	0	S	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0.1	24		
7	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
8	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
9	0	0	0	0	0	S	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24		
10	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
11	0	0	0	0	0	S	0	0	0	1	1	1	0	1	1	1	1	1	1	0	0	0	0	0	1	0.4	24		
12	0	0	0	1	2	S	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3	4	2	3	4	1.0	24		
13	5	3	3	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	1.3	24		
14	1	1	1	3	1	S	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	3	0.7	24		
15	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
16	0	0	0	0	1	S	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0.6	24		
17	1	1	1	1	0	S	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0.5	24		
18	0	0	0	0	0	S	0	1	2	0	0	0	0	0	1	1	1	1	1	1	1	2	6	7	7	1.0	24		
19	4	4	1	1	2	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	1	0	4	1.4	24		
20	0	0	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24		
21	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
22	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
23	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
24	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
25	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.0	24		
26	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
27	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0.1	24		
28	0	0	0	0	0	S	0	0	0	0	0	0	1	0	1	1	0	0	0	1	1	0	1	0	1	0.3	24		
29	1	1	0	0	1	S	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0.6	24		
30	0	0	0	0	0	S	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24		
31	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24		
Hourly Max	5	4	3	3	2	NA	1	1	2	1	1	1	1	1	1	1	1	1	3	4	4	6	7						
Hourly Avg	0.5	0.4	0.3	0.4	0.4	NA	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.5	0.4	0.5					

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

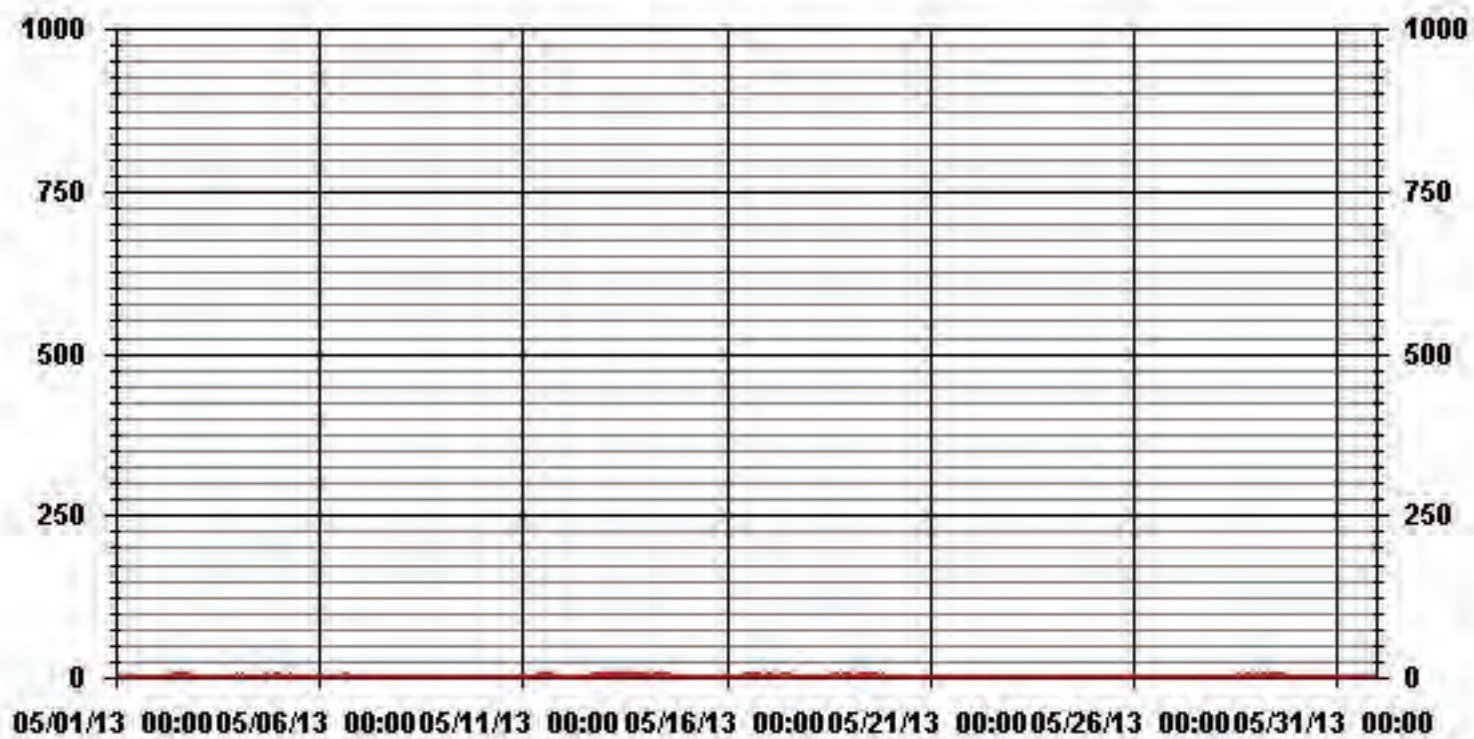
24 HOUR AVERAGES FOR MAY 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:		173				
MAXIMUM 1-HR AVERAGE:		7	PPB	@ HOUR(S)	23	ON DAY(S) 18
MAXIMUM 24-HR AVERAGE:		1.4	PPB			ON DAY(S) 19
VAR-VARIOUS						
IJS CALIBRATION TIME:		31	HRS	OPERATIONAL TIME:		744 HRS
MONTHLY CALIBRATION TIME:		0	HRS	AMD OPERATION UPTIME:		100.0 %
STANDARD DEVIATION:		0.72		MONTHLY AVERAGE:		0.32 PPB

01 Hour Averages



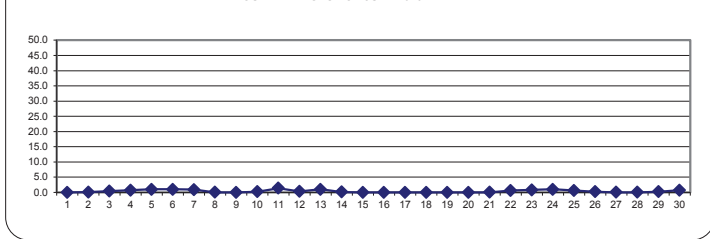
BHP Billiton Diamonds Inc. - EKATI
JUNE 2013
SULPHUR DIOXIDE (SO2) hourly averages in ppb

MST																											
HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
2	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0.1	24
3	2	3	4	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.4	24
4	0	0	0	0	0	S	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	24
5	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
6	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
7	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0.9	24
8	1	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
9	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
10	0	0	0	2	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0.2	24
11	2	4	3	2	1	S	1	1	1	0	0	0	0	0	0	0	0	1	1	2	3	4	3	3	4	1.4	24
12	3	1	0	0	0	S	0	0	0	0	0	0	0	0	0	C	1	0	0	0	0	0	0	2	3	0.3	24
13	0	0	0	1	1	S	10	Y	Y	1	0	0	0	0	0	Y	Y	Y	Y	0	Y	Y	Y	Y	10	1.0	14
14	Y	Y	Y	Y	Y	S	2	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.1	19
15	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
16	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
17	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
18	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
19	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
20	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
21	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.0	24
22	0	0	0	0	0	S	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	24
23	1	0	0	0	0	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.8	24
24	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
25	1	1	1	1	1	S	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0.7	24
26	0	0	1	1	1	S	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	24
27	1	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
28	0	0	0	0	0	S	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
29	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0.2	24
30	0	0	0	0	0	S	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7	24
HOURLY MAX	3	4	4	2	1	NA	10	1	1	1	1	1	1	1	1	1	1	1	1	2	3	4	3	3			
HOURLY AVG	0.5	0.4	0.4	0.4	0.3	NA	0.7	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.5			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

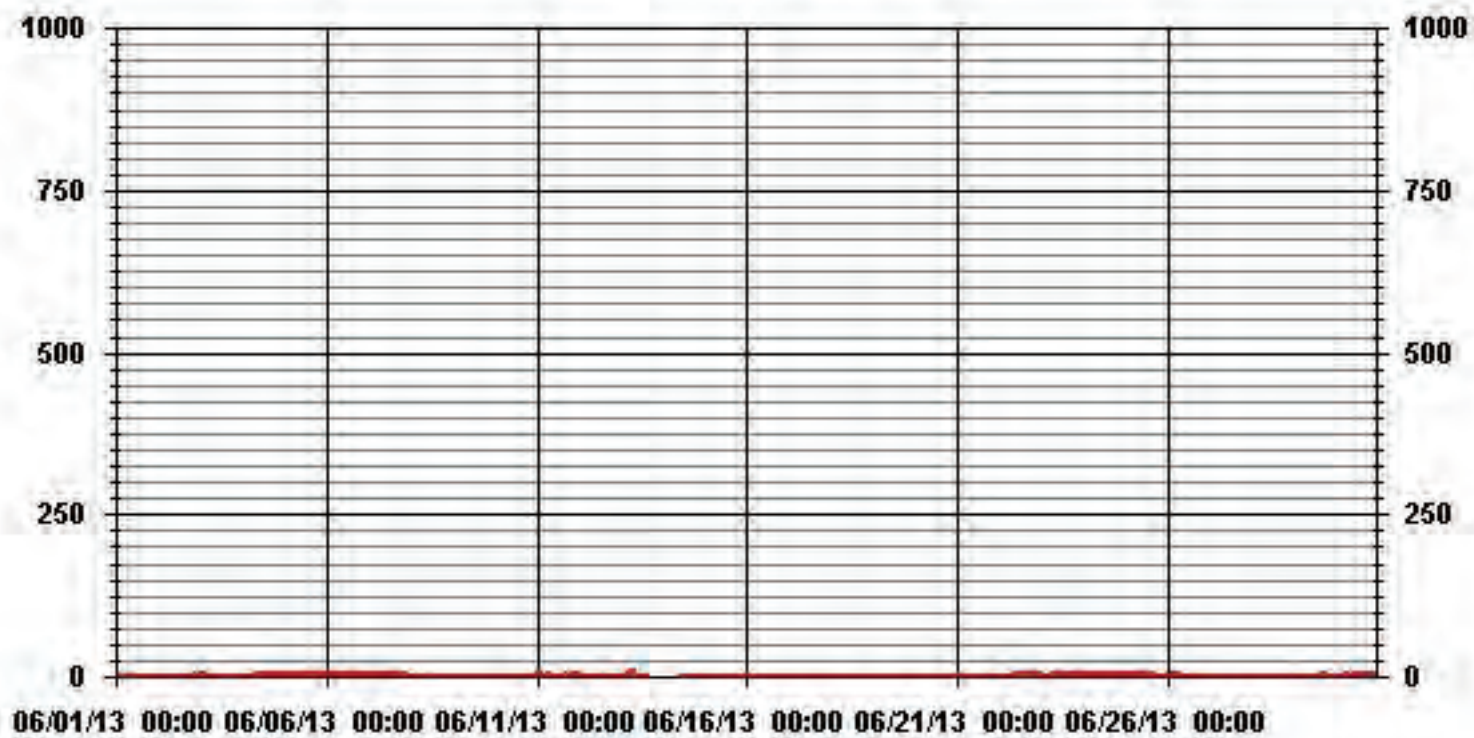
24 HOUR AVERAGES FOR JUNE 2013

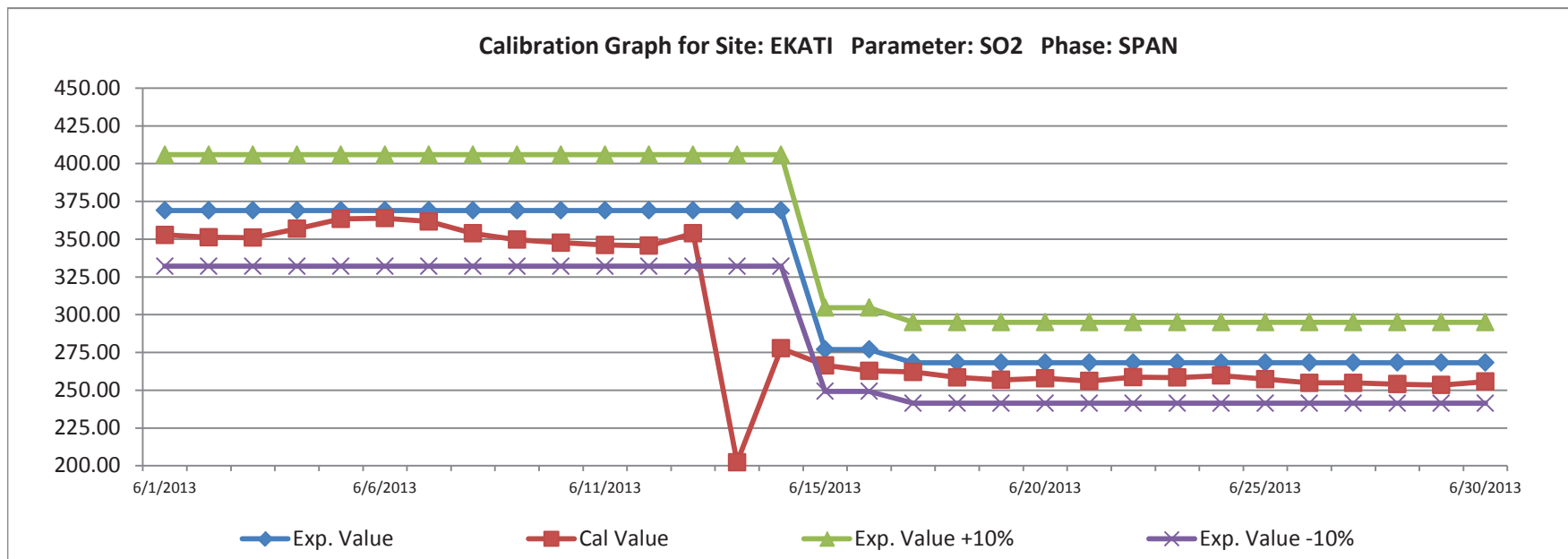


MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	218				
MAXIMUM 1-HR AVERAGE:	10	PPB	@ HOUR(S)	6	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	1.4	PPB			ON DAY(S)
					VAR-VARIOUS
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	705	HRS
MONTHLY CALIBRATION TIME:	5	HRS	AMD OPERATION UPTIME:	97.9	%
STANDARD DEVIATION:	0.71		MONTHLY AVERAGE:	0.38	PPB

01 Hour Averages





Nitrogen Dioxide

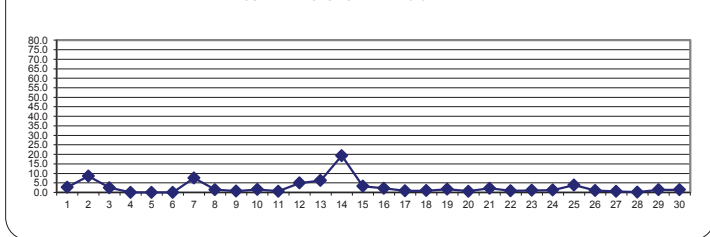
BHP Billiton Diamonds Inc. - EKATI
APRIL 2013
NITROGEN DIOXIDE (NO2) hourly averages in ppb

MST																												
Hour Start	Hour End	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily	24-Hour	
	Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Max.	Avg.	Rdgs.
Day																												
1		8	3	6	4	4	S	6	4	2	0	3	2	1	0	3	2	0	0	0	1	1	8	4	1	8	2.7	24
2		4	14	6	6	8	S	5	4	2	10	37	17	23	8	10	1	3	1	2	3	6	7	9	11	37	8.6	24
3		13	13	5	6	3	S	1	3	3	2	0	2	0	0	3	0	0	0	2	0	0	0	1	0	13	2.5	24
4		0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
5		0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.0	24
6		0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
7		1	1	1	17	6	S	2	6	2	18	2	2	7	27	3	13	1	1	0	3	10	27	12	11	27	7.5	24
8		3	4	4	3	1	S	2	3	1	2	1	1	0	1	0	1	0	0	0	1	1	1	1	2	4	1.4	24
9		2	2	2	3	3	S	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.7	24
10		0	0	1	5	5	S	1	3	1	2	1	0	1	1	2	1	1	1	1	1	2	3	1	1	5	1.5	24
11		0	0	0	0	0	S	0	0	0	0	1	1	1	1	1	1	1	2	1	0	2	1	1	0	2	0.6	24
12		0	1	4	8	6	S	5	2	3	19	15	1	1	3	2	2	1	2	3	4	5	8	6	13	19	5.0	24
13		4	18	27	23	7	S	15	4	10	5	3	4	2	1	1	1	1	1	1	1	1	5	4	4	27	6.2	24
14		12	34	31	41	45	S	46	23	16	6	8	4	2	2	4	4	7	15	29	22	3	15	29	45	46	19.3	24
15		38	16	1	1	1	S	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	2	0	0	38	3.3	24
16		1	3	2	1	0	S	0	1	6	7	10	2	2	1	4	1	1	3	1	1	1	1	1	0	10	2.2	24
17		1	1	0	0	1	S	3	2	1	3	1	2	0	1	0	0	0	0	0	0	0	2	1	1	3	0.9	24
18		0	2	1	2	1	S	2	1	0	1	0	1	1	0	1	2	1	1	1	1	1	0	0	1	2	0.9	24
19		1	2	1	1	1	S	1	1	1	3	2	7	1	1	6	2	1	1	1	1	1	3	0	1	7	1.7	24
20		0	0	0	1	0	S	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0.6	24
21		0	0	0	0	1	S	3	3	4	4	6	12	5	2	1	1	2	1	1	1	1	0	0	1	12	2.1	24
22		1	1	1	1	1	S	2	2	0	0	1	1	1	0	1	2	1	1	1	0	0	0	1	1	2	0.9	24
23		1	0	0	0	0	S	0	0	1	1	1	1	1	1	0	0	1	1	1	1	1	2	6	5	6	1.1	24
24		1	1	1	1	1	S	4	4	3	1	1	1	0	1	1	1	0	1	1	0	0	1	1	2	4	1.2	24
25		3	17	20	9	9	S	5	3	2	2	7	5	4	1	1	1	0	0	0	0	0	0	0	0	20	3.9	24
26		0	0	0	0	0	S	1	0	0	1	2	2	8	1	1	1	2	1	1	0	2	1	0	0	8	1.0	24
27		0	0	0	1	1	S	0	0	0	0	0	1	3	2	2	1	1	0	0	0	0	0	0	0	3	0.5	24
28		0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	2	0.1	24	
29		2	2	4	6	7	S	3	4	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	7	1.4	24
30		1	1	1	1	1	S	6	1	1	1	1	2	1	1	1	0	0	0	0	0	1	3	3	3	6	1.3	24
Hourly Max		38	34	31	41	45	NA	46	23	16	19	37	17	23	27	10	13	7	15	29	22	10	27	29	45			
Hourly Avg		3.2	4.5	4.0	4.7	3.8	NA	3.8	2.5	2.1	3.1	3.6	2.4	2.2	1.9	1.7	1.4	0.9	1.2	1.6	1.4	1.4	3.1	2.7	3.5			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

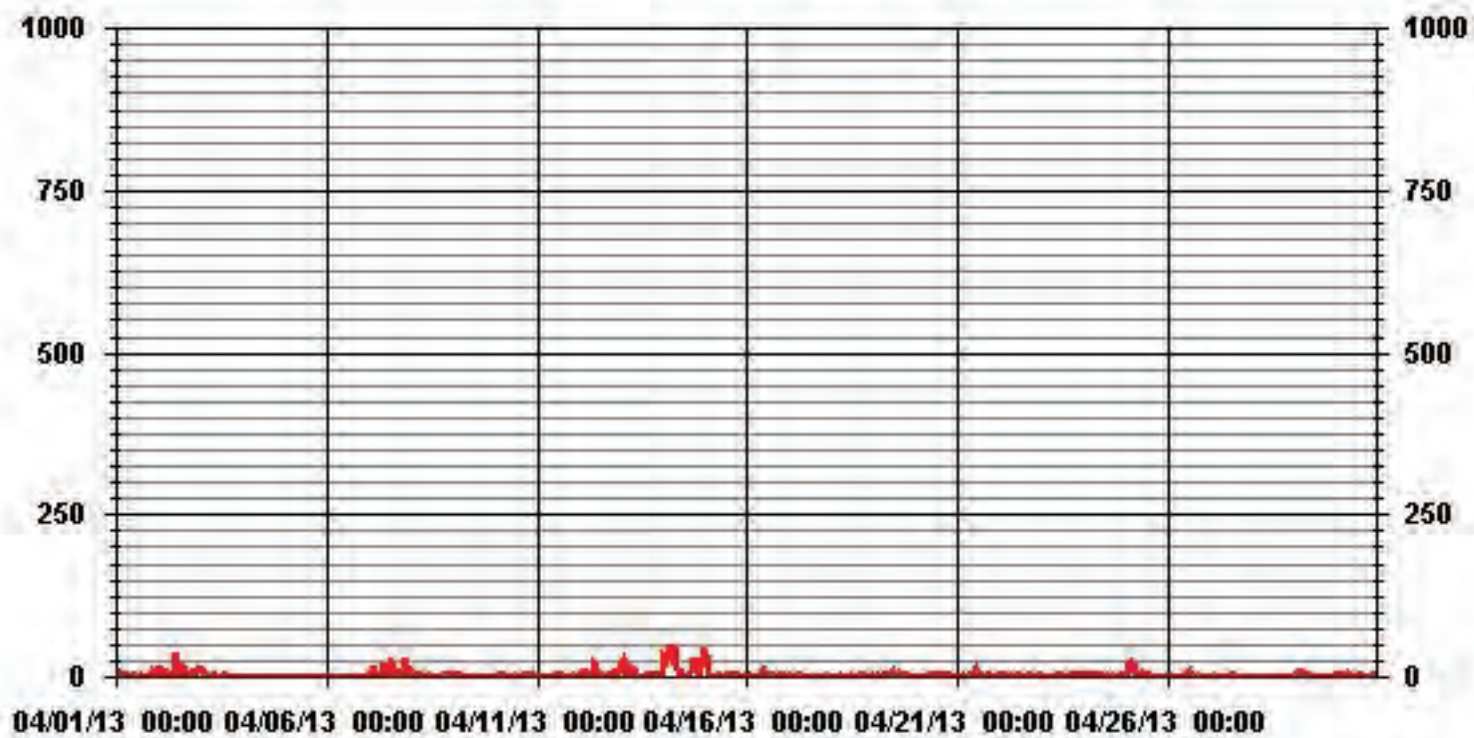
24 HOUR AVERAGES FOR APRIL 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	444				
MAXIMUM 1-HR AVERAGE:	46	PPB	@ HOUR(S)	6	ON DAY(S) 14
MAXIMUM 24-HR AVERAGE:	19.3	PPB			ON DAY(S) 14
					VAR-VARIOUS
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	5.77		MONTHLY AVERAGE:	2.64	PPB

01 Hour Averages



— EKATI NO2 PPB

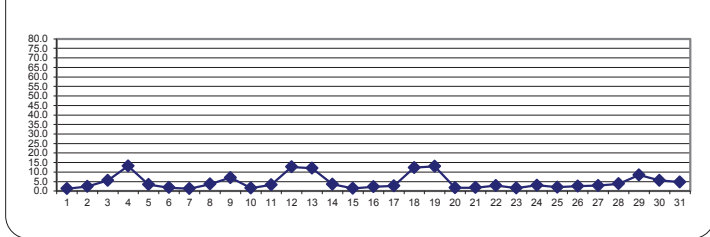
BHP Billiton Diamonds Inc. - EKATI
MAY 2013
NITROGEN DIOXIDE (NO2) hourly averages in ppb

MST																								DAILY	24-HOUR			
HOURLY MAX	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	MAX.	AVG.	RDGS.
HOURLY END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
DAY																												
1	2	2	4	3	2	S	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	4	1.2	24	
2	1	1	2	2	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	11	12	9	12	2.4	24	
3	10	8	9	27	18	S	3	9	1	1	1	1	1	1	1	2	1	1	1	2	6	9	14	27	5.6	24		
4	25	14	36	45	44	S	2	3	6	3	3	2	2	3	3	5	9	7	15	14	24	18	17	45	13.2	24		
5	4	5	2	1	2	S	19	19	1	1	1	1	1	1	3	1	5	3	3	1	1	1	1	1	19	3.4	24	
6	1	5	8	3	2	S	2	2	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	8	1.8	24	
7	1	1	1	1	1	S	1	1	1	1	1	1	1	3	3	2	1	1	1	1	1	1	1	1	3	1.2	24	
8	1	1	1	1	1	S	7	2	1	1	3	7	1	3	1	1	1	1	2	2	6	12	11	17	17	3.7	24	
9	10	24	18	30	15	S	21	14	7	1	1	1	4	3	1	3	2	1	1	1	1	1	1	1	30	7.0	24	
10	1	1	1	1	1	S	1	2	1	2	2	3	1	1	1	1	1	1	1	1	2	3	4	4	4	1.6	24	
11	4	5	3	2	1	S	1	2	6	9	12	2	2	3	3	7	4	3	2	1	1	1	1	1	12	3.3	24	
12	1	8	6	22	38	S	1	1	2	1	1	1	1	1	1	1	1	5	9	33	48	46	30	35	48	12.7	24	
13	49	41	36	17	5	S	4	4	4	5	6	3	5	6	3	7	7	9	9	3	7	18	16	12	49	12.0	24	
14	2	2	4	28	13	S	3	7	3	1	1	1	1	2	1	1	1	2	1	1	2	2	2	2	28	3.6	24	
15	1	1	2	2	1	S	2	1	1	1	1	1	1	2	2	2	1	2	1	1	1	2	2	2	2	1.4	24	
16	1	2	2	3	9	S	1	1	1	2	2	2	2	2	2	2	2	4	5	2	1	1	1	2	9	2.3	24	
17	1	1	1	1	1	S	1	1	1	2	9	2	2	2	5	4	8	2	2	1	2	2	2	10	10	2.7	24	
18	5	17	18	7	8	S	23	22	29	3	2	2	2	2	2	2	2	2	2	2	3	32	46	50	50	12.3	24	
19	43	37	8	12	37	S	18	6	2	3	3	3	2	3	3	5	4	4	7	10	29	38	15	8	43	13.0	24	
20	4	2	1	1	4	S	4	3	2	2	3	1	1	1	1	2	1	1	1	1	1	1	1	1	4	1.7	24	
21	1	1	1	1	1	S	2	1	1	1	1	2	4	3	2	2	2	1	1	1	1	1	3	7	7	1.8	24	
22	9	7	8	2	2	S	2	1	2	5	3	3	1	1	1	1	1	2	2	2	1	2	4	3	9	2.8	24	
23	3	2	3	2	1	S	2	1	2	1	1	1	1	1	2	1	1	1	1	1	1	2	2	2	3	1.5	24	
24	2	3	3	2	2	S	4	2	5	3	3	3	5	2	3	1	2	2	2	4	6	5	3	2	6	3.0	24	
25	2	3	8	8	6	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	8	2.0	24	
26	3	3	4	2	2	S	2	1	1	1	1	1	1	1	1	2	1	1	1	2	6	6	8	8	8	2.6	24	
27	8	10	15	2	1	S	1	1	1	1	1	1	1	1	1	2	3	3	3	2	2	2	2	2	15	2.9	24	
28	3	3	3	2	3	S	3	2	2	2	2	2	6	5	2	4	2	2	2	3	6	4	21	4	21	3.8	24	
29	22	22	8	16	22	S	16	6	9	9	8	5	3	4	5	6	2	3	2	2	1	2	11	11	22	8.5	24	
30	16	21	10	2	2	S	1	6	6	9	10	12	2	3	4	3	2	2	2	2	2	4	4	3	21	5.6	24	
31	2	2	3	2	2	S	4	2	2	3	3	2	2	2	2	2	3	1	1	1	5	19	29	15	29	4.7	24	
HOURLY MAX	49	41	36	45	44	NA	23	22	29	9	12	12	6	6	5	7	8	9	9	33	48	46	46	50				
HOURLY AVG	7.7	8.2	7.4	8.1	8.0	NA	5.0	4.1	3.4	2.5	2.9	2.3	1.9	2.1	2.0	2.4	2.1	2.4	2.4	3.4	5.1	8.1	8.5	8.0				

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

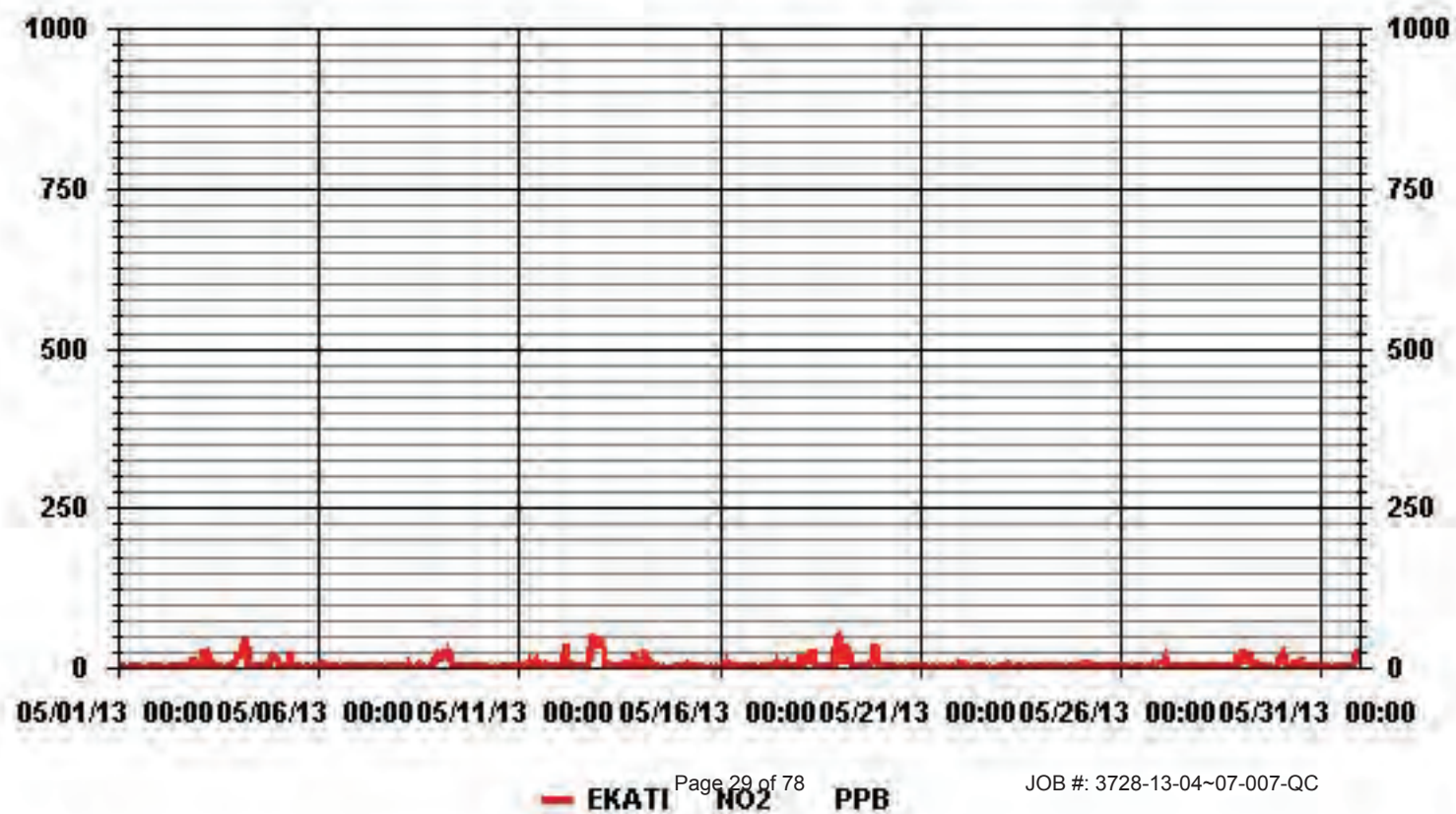
24 HOUR AVERAGES FOR MAY 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	710				
MAXIMUM 1-HR AVERAGE:	50	PPB	@ HOUR(S)	23	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	13.2	PPB			ON DAY(S)
					VAR-VARIOUS
IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	744	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	7.68		MONTHLY AVERAGE:	4.69	PPB

01 Hour Averages



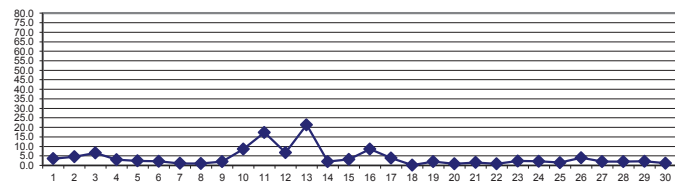
BHP Billiton Diamonds Inc. - EKATI
JUNE 2013
NITROGEN DIOXIDE (NO₂) hourly averages in ppb

MST																												
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily	24-Hour		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Max.	Avg.	RDGS	
Day																												
1	5	6	11	13	7	S	2	3	3	2	2	2	3	2	2	2	2	2	2	1	3	2	3	2	13	3.6	24	
2	2	2	2	1	1	S	1	1	2	2	1	1	1	2	2	2	2	2	2	2	7	24	21	22	24	4.5	24	
3	25	34	39	5	2	S	2	2	3	3	2	2	2	1	2	1	2	1	2	1	2	4	7	7	39	6.5	24	
4	6	6	5	6	3	S	3	2	2	3	3	1	2	2	2	2	2	2	2	2	2	4	4	4	6	3.0	24	
5	3	3	4	2	3	S	2	2	2	2	2	2	2	2	2	1	2	2	2	2	5	5	2	1	5	2.4	24	
6	1	1	1	1	2	S	1	2	4	2	3	4	5	2	1	4	3	5	3	1	1	1	1	1	5	2.2	24	
7	2	1	1	1	1	S	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	1.1	24	
8	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24	
9	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	9	16	16	2.0	24	
10	10	9	12	28	12	S	3	2	2	1	2	1	2	10	4	4	9	10	5	7	7	7	18	32	32	8.6	24	
11	30	34	26	25	20	S	16	13	12	9	2	2	2	2	2	2	2	16	26	24	33	37	33	31	37	17.3	24	
12	27	17	2	3	6	S	2	2	9	6	4	1	1	2	2	C	4	2	3	4	6	5	6	35	35	6.8	24	
13	16	4	9	30	36	S	33	Y	Y	Y	Y	Y	Y	Y	C	C	Y	Y	Y	Y	Y	Y	Y	Y	36	21.3	9	
14	Y	Y	Y	Y	Y	Y	Y	Y	C	C	C	C	C	C	1	1	1	5	1	6	2	1	1	1	6	2.0	16	
15	6	1	6	14	6	S	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	5	4	12	14	3.2	24	
16	34	28	9	4	10	S	30	17	15	21	2	1	3	1	1	1	1	1	1	1	1	2	2	10	34	8.5	24	
17	6	12	13	16	8	S	3	8	5	3	3	1	2	1	2	1	1	1	0	0	1	1	0	0	16	3.8	24	
18	0	0	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.1	24	
19	9	12	3	4	2	S	1	1	1	0	0	1	2	2	1	1	1	1	1	1	0	1	1	1	12	2.0	24	
20	3	1	1	1	1	S	0	1	1	1	1	0	1	1	3	1	1	0	0	0	0	0	0	0	3	0.8	24	
21	1	1	2	3	8	S	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	8	1.5	24	
22	1	0	0	0	0	S	1	1	1	1	1	1	1	1	0	0	1	1	1	0	2	2	1	2	2	0.8	24	
23	1	1	1	1	3	S	13	5	4	2	1	2	1	1	1	1	1	1	1	2	2	2	3	3	13	2.3	24	
24	6	2	6	4	10	S	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	2.1	24	
25	1	0	1	1	0	S	0	1	1	1	0	1	1	5	3	2	1	1	1	1	3	4	1	3	5	1.4	24	
26	3	4	13	12	11	S	13	15	3	5	1	0	1	1	1	1	1	1	1	0	0	1	1	2	15	4.0	24	
27	12	8	1	1	1	S	1	1	1	1	0	1	0	1	1	4	3	1	1	1	1	2	1	2	12	2.0	24	
28	1	3	1	1	1	S	3	14	3	1	2	1	2	2	1	1	1	1	1	1	1	2	1	1	14	2.0	24	
29	4	4	5	8	4	S	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	8	2.1	24	
30	2	1	1	2	3	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	3	1.1	24	
Hourly Max	34	34	39	30	36	NA	33	17	15	21	5	4	5	10	4	4	9	16	26	24	33	37	33	35				
Hourly Avg	7.6	6.8	6.1	6.5	5.6	NA	4.8	3.7	3.0	2.6	1.6	1.2	1.5	1.7	1.4	1.5	1.7	2.3	2.2	2.2	3.0	4.2	4.4	6.7				

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

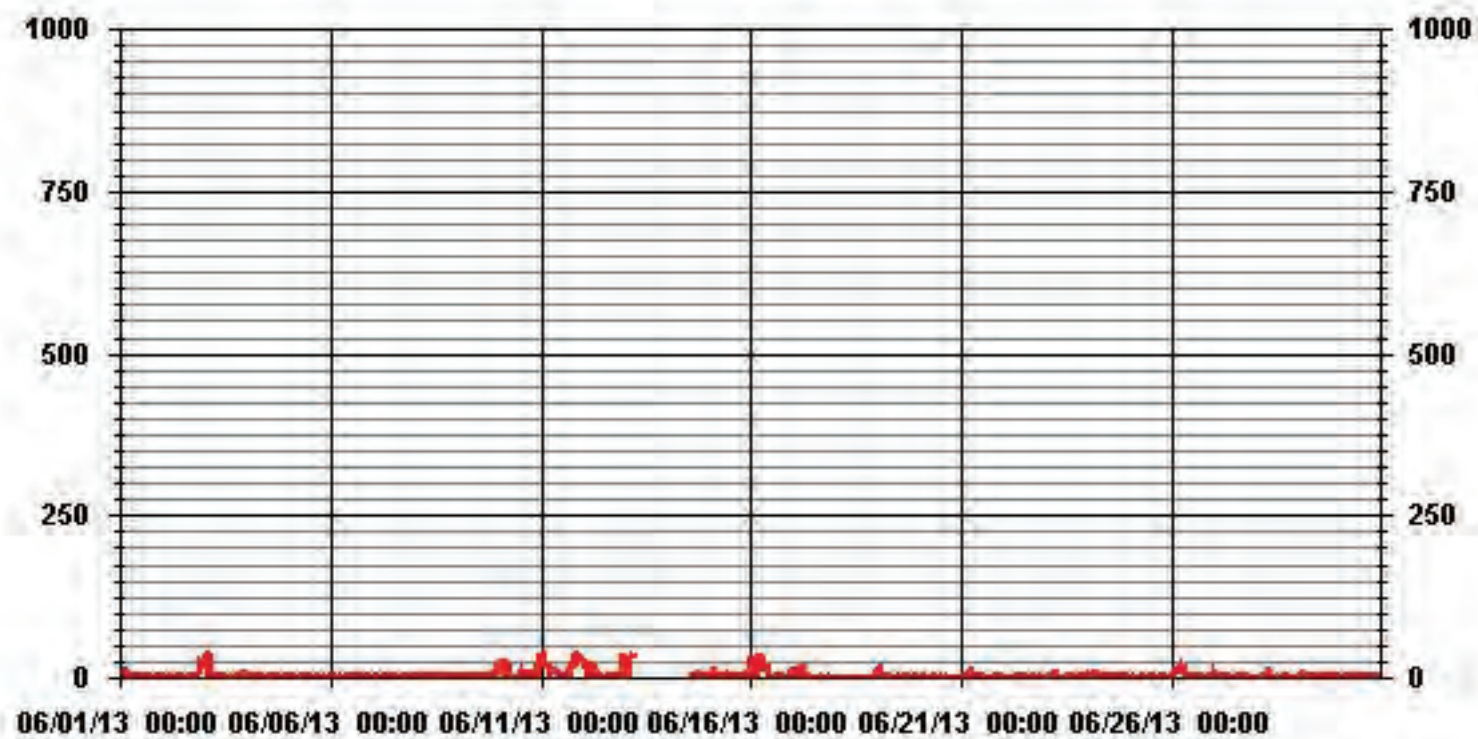
24 HOUR AVERAGES FOR JUNE 2013



MONTHLY SUMMARY

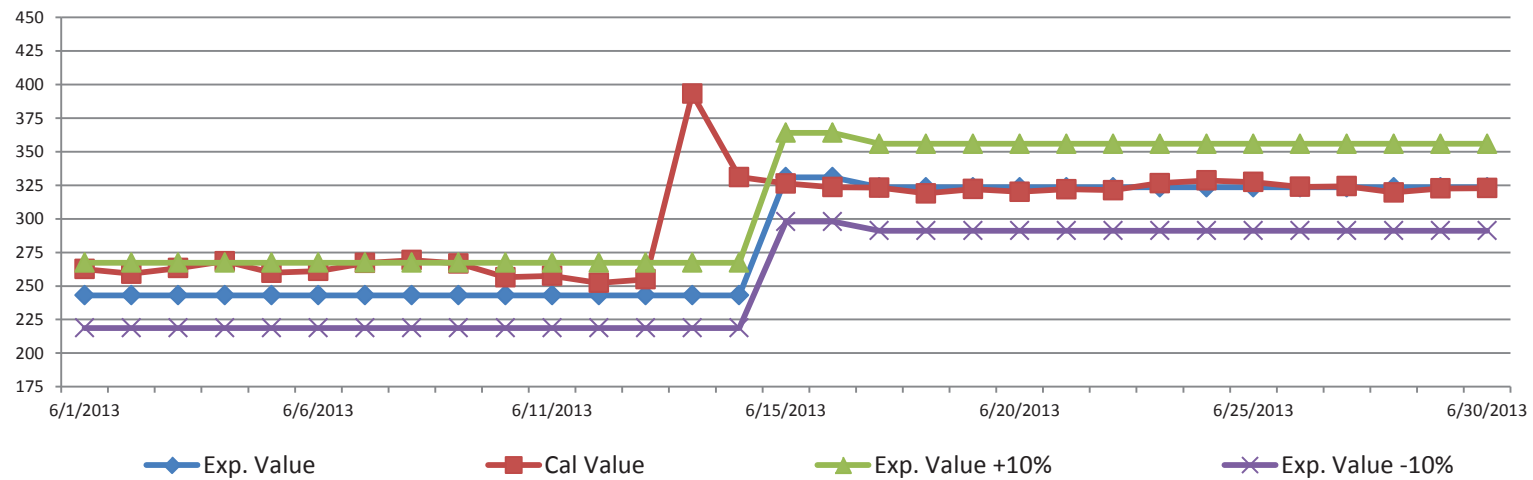
NUMBER OF NON-ZERO READINGS:		605					
MAXIMUM 1-HR AVERAGE:		39	PPB	@ HOUR(S)	2	ON DAY(S)	3
MAXIMUM 24-HR AVERAGE:		21.3	PPB			ON DAY(S)	13
VAR-VARIOUS							
IZS CALIBRATION TIME:		29	HRS	OPERATIONAL TIME:		697	HRS
MONTHLY CALIBRATION TIME:		9	HRS	AMD OPERATION UPTIME:		96.8	%
STANDARD DEVIATION:		6.28		MONTHLY AVERAGE:		3.60	PPB

01 Hour Averages



— EKATI NO2 PPB

Calibration Graph for Site: EKATI Parameter: NO2 Phase: SPAN



Nitric Oxide

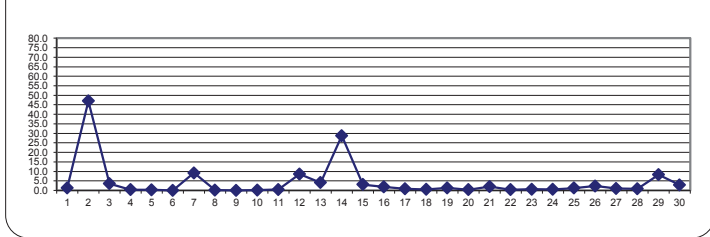
BHP Billiton Diamonds Inc. - EKATI
APRIL 2013
NITRIC OXIDE (NO) hourly averages in ppb

MST																									DAILY		24-HOUR	
HOURLY MAX	HOURLY AVG	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY		1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
1		0	0	0	0	0	S	1	4	1	0	3	2	1	0	5	2	0	0	0	1	0	7	2	1	7	1.3	24
2		1	14	6	7	6	S	3	4	5	108	369	136	227	46	80	8	11	5	3	4	7	8	11	12	369	47.0	24
3		12	12	8	5	1	S	2	9	7	8	1	5	1	0	9	0	0	0	2	0	0	0	0	0	12	3.6	24
4		0	0	0	0	0	S	2	0	3	1	1	0	0	0	0	0	0	0	0	0	0	1	0	3	0.3	24	
5		0	0	0	0	0	S	1	0	0	0	0	0	0	0	4	0	1	0	0	0	0	0	0	4	0.3	24	
6		0	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
7		0	0	0	1	0	S	1	1	1	42	1	3	9	109	7	31	0	0	0	0	0	4	1	0	109	9.2	24
8		0	0	0	0	0	S	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
9		0	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24	
10		0	0	0	0	0	S	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24	
11		0	0	0	0	0	S	1	0	0	0	1	2	2	1	1	0	1	1	1	0	0	0	0	2	0.5	24	
12		0	0	1	2	1	S	2	1	3	74	86	1	1	4	3	2	1	2	2	2	1	1	0	7	86	8.6	24
13		0	5	26	15	2	S	5	3	16	6	3	5	2	1	1	1	1	0	0	0	0	1	1	0	26	4.1	24
14		1	18	10	60	36	S	23	22	14	5	7	4	2	1	4	4	7	35	127	58	1	10	56	156	156	28.7	24
15		53	10	0	0	0	S	2	0	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	53	3.1	24	
16		0	0	0	0	0	S	1	1	6	7	15	2	2	1	4	0	1	3	0	0	0	0	0	15	1.9	24	
17		0	0	0	0	0	S	2	1	1	3	1	6	0	1	0	1	0	0	0	0	1	1	1	6	0.8	24	
18		0	1	1	1	0	S	2	1	0	0	0	1	1	0	1	3	0	0	0	0	0	0	0	3	0.5	24	
19		0	0	0	0	0	S	2	0	1	3	3	8	1	1	8	1	1	0	0	0	0	0	0	8	1.3	24	
20		0	0	0	0	0	S	1	0	0	0	1	0	1	1	1	1	1	1	1	0	0	0	0	1	0.4	24	
21		0	0	0	0	0	S	2	3	4	4	8	15	5	2	1	1	2	0	0	0	0	0	0	15	2.0	24	
22		0	0	0	0	0	S	2	1	0	0	1	1	0	0	0	3	0	0	0	0	0	1	0	3	0.4	24	
23		0	0	0	0	0	S	1	0	1	1	1	1	2	1	0	0	0	1	1	0	0	1	2	1	2	0.6	24
24		0	0	0	0	1	S	3	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4	0.5	24	
25		0	4	1	0	0	S	3	1	1	1	7	5	3	1	0	1	0	0	0	0	0	0	0	7	1.2	24	
26		0	0	0	0	0	S	2	1	0	4	6	8	18	1	2	2	6	2	0	0	1	0	0	18	2.3	24	
27		0	0	0	0	0	S	2	1	1	0	0	0	6	5	3	1	1	0	0	0	0	1	1	6	1.0	24	
28		0	0	0	0	0	S	2	0	0	0	0	1	0	0	0	0	0	0	0	1	10	5	1	10	0.9	24	
29		9	12	29	41	38	S	12	27	7	7	6	1	1	0	0	0	0	0	0	0	0	0	1	41	8.3	24	
30		2	2	4	1	2	S	7	5	4	4	3	7	10	3	1	1	0	0	1	0	1	2	3	3	10	2.9	24
HOURLY MAX		53	18	29	60	38	NA	23	27	16	108	369	136	227	109	80	31	11	35	127	58	7	10	56	156			
HOURLY AVG		2.6	2.6	2.9	4.4	2.9	NA	3.0	3.0	2.6	9.4	17.5	7.2	9.9	6.0	4.5	2.1	1.1	1.7	4.6	2.2	0.4	1.5	2.8	6.1			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

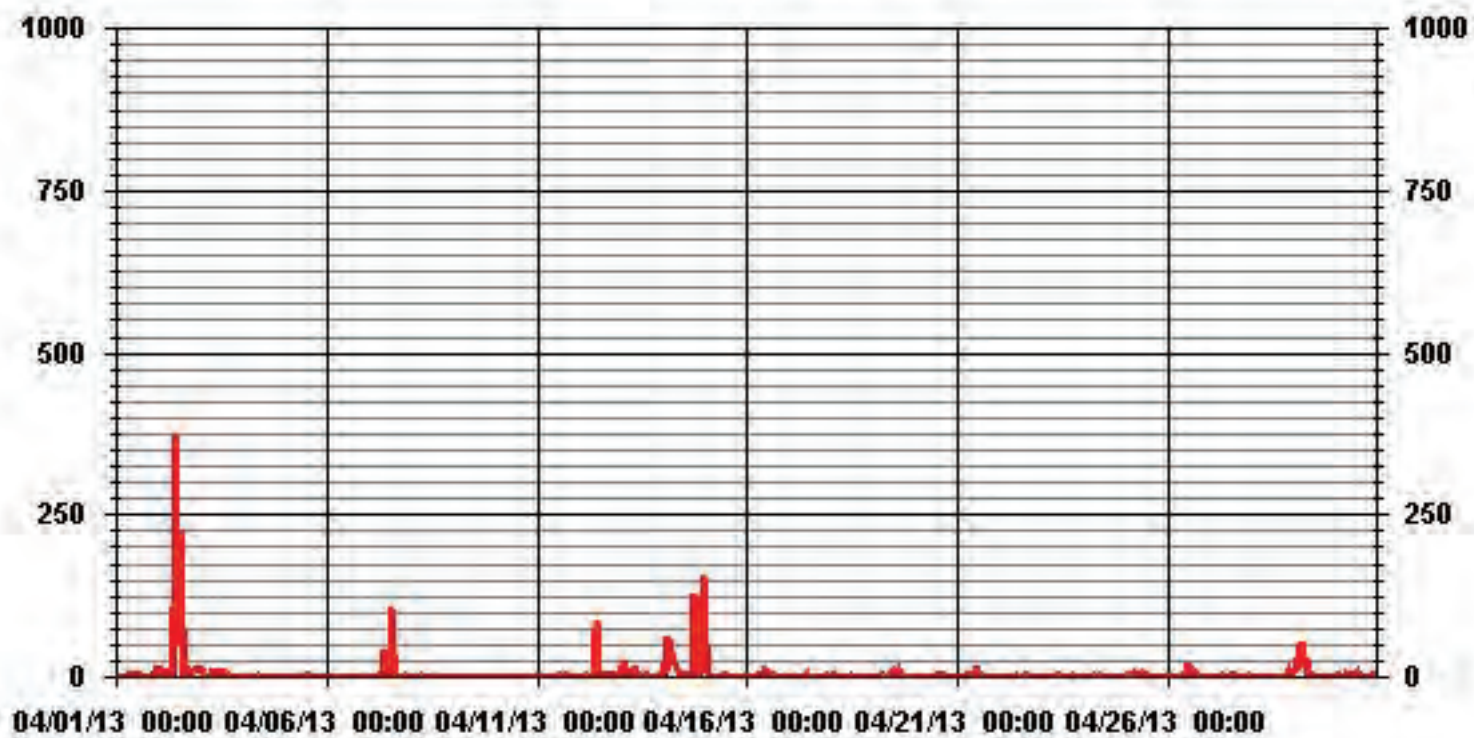
24 HOUR AVERAGES FOR APRIL 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	311				
MAXIMUM 1-HR AVERAGE:	369	PPB	@ HOUR(S)	10	ON DAY(S) 2
MAXIMUM 24-HR AVERAGE:	47.0	PPB			ON DAY(S) 2
					VAR-VARIOUS
IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	21.17		MONTHLY AVERAGE:	4.40	PPB

01 Hour Averages



— EKATI NO PPB

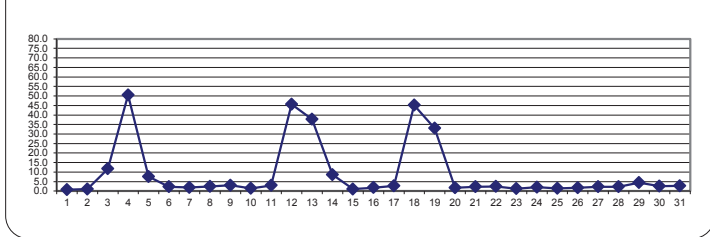
BHP Billiton Diamonds Inc. - EKATI
MAY 2013
NITRIC OXIDE (NO) hourly averages in ppb

MST																								DAILY	24-HOUR			
HOURLY MAX	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00	MAX.	AVG.	RDGS.
HOURLY AVG	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00				
DAY																												
1	1	1	1	1	0	S	2	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	0	0	2	0.7	24	
2	0	0	1	0	0	S	2	1	0	0	1	1	1	1	1	0	0	1	1	1	1	4	3	4	4	1.0	24	
3	3	3	4	100	60	S	4	56	1	1	1	1	2	2	3	3	1	1	1	1	1	5	13	100	11.7	24		
4	72	21	119	111	107	S	3	3	8	6	5	7	5	4	8	5	17	30	13	64	81	198	120	154	198	50.5	24	
5	19	24	3	1	3	S	21	59	1	1	1	1	1	1	3	1	20	3	7	1	1	1	1	1	59	7.6	24	
6	1	7	15	2	1	S	2	1	2	1	1	2	2	3	1	1	2	1	1	1	1	1	1	1	15	2.2	24	
7	1	1	1	1	0	S	2	1	1	1	1	1	2	10	6	4	2	1	1	1	1	1	1	1	10	1.8	24	
8	1	1	1	1	1	S	4	2	1	1	6	18	2	3	1	1	1	1	1	1	2	2	1	2	18	2.4	24	
9	1	4	2	11	3	S	7	11	7	1	1	1	5	3	1	2	3	1	1	1	1	1	1	1	11	3.0	24	
10	1	1	1	1	1	S	2	3	1	2	3	5	1	1	1	1	1	1	1	1	1	1	1	1	5	1.4	24	
11	1	1	1	1	1	S	2	1	5	9	22	2	1	2	2	6	3	2	1	1	1	1	1	1	22	3.0	24	
12	1	2	2	71	97	S	2	1	3	1	1	1	1	1	1	1	1	10	34	130	223	221	99	144	223	45.6	24	
13	248	146	134	15	2	S	3	5	5	9	16	5	12	20	7	17	14	27	31	6	12	48	50	35	248	37.7	24	
14	2	2	3	133	21	S	5	10	4	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	133	8.6	24	
15	1	1	1	1	1	S	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0	24	
16	1	1	1	2	9	S	2	1	1	1	2	2	1	2	2	2	2	1	2	2	1	1	1	1	9	1.8	24	
17	1	1	1	1	1	S	2	1	1	3	13	2	2	3	6	9	7	1	1	1	1	1	1	2	13	2.7	24	
18	2	11	50	2	2	S	9	43	89	3	2	2	2	2	1	2	2	2	2	1	2	128	318	361	361	45.1	24	
19	225	214	2	14	86	S	6	4	2	2	2	2	2	2	2	3	3	3	5	4	54	116	5	2	225	33.0	24	
20	2	1	1	1	1	S	4	5	2	2	4	2	1	1	1	3	1	1	1	1	1	1	1	1	5	1.7	24	
21	1	1	1	1	1	S	2	1	2	1	1	3	8	6	3	2	3	1	1	1	1	1	4	5	8	2.2	24	
22	8	5	3	1	1	S	3	1	2	7	3	4	1	1	1	1	1	2	2	1	1	1	2	2	8	2.3	24	
23	2	2	2	2	1	S	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1.3	24	
24	1	1	2	1	1	S	3	2	3	2	2	3	4	2	3	1	2	2	2	2	2	2	2	1	4	2.0	24	
25	2	1	4	2	2	S	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	1.3	24	
26	1	1	1	1	1	S	3	1	1	1	1	1	1	1	1	1	1	1	1	2	6	4	3	3	6	1.7	24	
27	2	3	20	2	1	S	2	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	20	2.2	24	
28	1	1	2	1	1	S	3	1	2	1	1	2	3	3	2	2	2	1	1	1	3	1	17	1	17	2.3	24	
29	14	7	2	6	12	S	9	2	7	6	7	4	2	2	3	3	2	2	1	1	1	1	3	4	14	4.4	24	
30	5	6	1	1	1	S	3	2	2	6	5	6	2	2	2	2	1	2	2	1	1	2	2	2	6	2.6	24	
31	1	1	1	1	1	S	3	2	2	2	2	2	1	1	1	1	2	1	1	1	2	7	19	6	19	2.7	24	
HOURLY MAX	248	214	134	133	107	NA	21	59	89	9	22	18	12	20	8	17	17	30	34	130	223	221	318	361				
HOURLY AVG	20.1	15.2	12.4	15.8	13.5	NA	4.0	7.3	5.2	2.5	3.5	2.8	2.3	2.8	2.1	2.6	2.7	4.0	3.8	7.7	13.1	24.3	21.5	24.3				

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

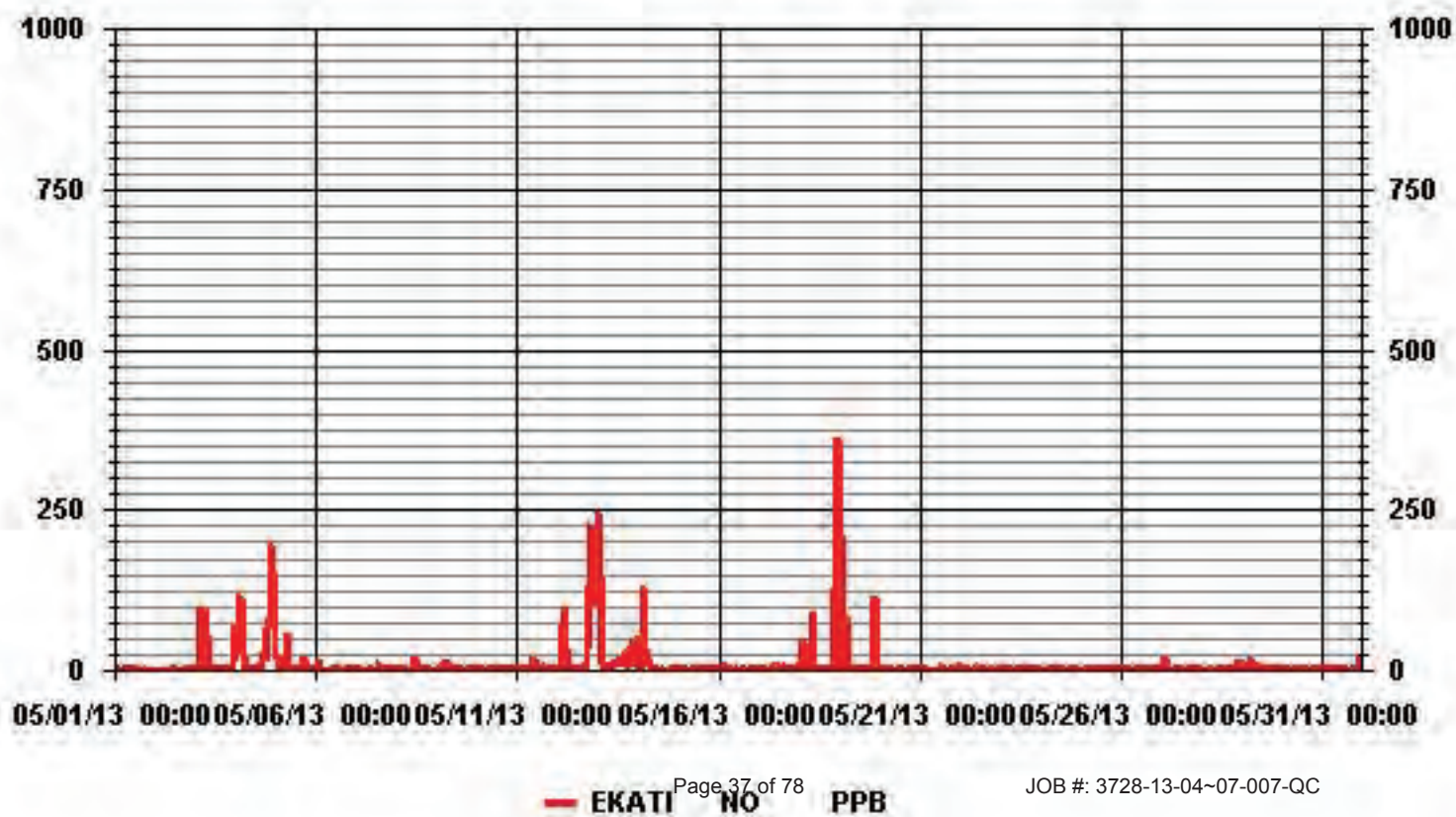
24 HOUR AVERAGES FOR MAY 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	697				
MAXIMUM 1-HR AVERAGE:	361	PPB	@ HOUR(S)	23	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	50.5	PPB			ON DAY(S)
					VAR-VARIOUS
IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	744	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	32.89		MONTHLY AVERAGE:	9.28	PPB

01 Hour Averages



BHP Billiton Diamonds Inc. - EKATI

JUNE 2013

NITRIC OXIDE (NO) hourly averages in ppb

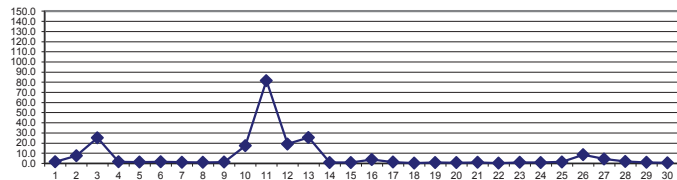
MST

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	DAILY	24-HOUR
1	2	1	4	3	2	S	2	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	4	1.5	24						
2	1	1	2	1	1	S	3	1	1	2	2	1	1	1	2	2	1	2	2	2	9	57	45	32	57	7.5	24					
3	137	171	234	5	2	S	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	2	2	2	234	25.1	24					
4	1	2	2	2	1	S	3	2	2	2	2	1	1	1	1	1	1	1	1	2	1	2	1	1	3	1.5	24					
5	1	1	1	1	1	S	3	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	3	1.2	24						
6	1	1	1	1	1	S	2	1	2	1	2	2	3	1	1	3	2	4	2	1	1	1	1	1	4	1.6	24					
7	1	1	1	1	1	S	3	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	3	1.1	24					
8	1	1	1	1	1	S	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	1.1	24					
9	1	1	1	1	1	S	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	6	6	1.4	24					
10	3	2	5	94	5	S	3	2	2	1	2	1	3	19	4	3	9	13	4	10	3	9	78	125	125	17.4	24					
11	139	209	164	110	70	S	19	39	37	21	2	2	2	2	2	2	1	60	85	97	192	222	200	199	222	81.6	24					
12	147	66	2	2	4	S	3	2	20	13	8	2	1	2	2	C	1	2	2	2	2	2	6	129	147	19.1	24					
13	11	2	4	70	52	S	14	Y	Y	Y	Y	Y	Y	Y	C	C	Y	Y	Y	Y	Y	Y	Y	Y	70	25.5	9					
14	Y	Y	Y	Y	Y	Y	Y	Y	C	C	C	C	C	C	2	1	0	3	0	2	0	0	0	0	3	0.8	16					
15	0	0	1	6	0	S	0	2	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	6	6	0.8	24					
16	14	6	1	0	5	S	13	16	5	22	1	2	1	0	0	0	0	0	1	0	0	0	1	22	3.8	24						
17	1	1	1	2	2	S	3	9	2	1	1	1	1	0	1	0	0	0	0	1	0	0	0	0	9	1.2	24					
18	0	0	0	0	0	S	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0.2	24						
19	1	2	0	1	1	S	3	0	0	0	0	1	2	1	1	1	1	1	1	0	0	0	1	0	3	0.8	24					
20	0	0	0	1	1	S	2	1	1	1	1	0	1	1	3	2	0	0	1	1	0	0	0	3	0.7	24						
21	0	0	0	1	2	S	4	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	4	0.9	24						
22	0	0	0	0	0	S	2	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	2	0.3	24						
23	0	0	0	0	1	S	4	2	2	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	4	0.9	24					
24	1	0	1	1	3	S	3	2	1	1	1	0	1	0	1	1	1	0	1	1	0	0	0	3	0.9	24						
25	0	0	0	0	0	S	2	1	0	1	1	1	1	8	4	2	1	1	1	1	2	3	1	2	8	1.4	24					
26	2	2	37	28	31	S	17	49	5	12	1	1	1	1	1	0	1	0	1	1	0	1	1	49	8.4	24						
27	66	12	1	1	1	S	2	1	1	1	1	1	1	0	1	3	2	1	1	1	0	1	0	1	66	4.3	24					
28	0	0	0	0	0	S	4	21	3	1	3	1	1	1	1	1	1	1	1	1	0	1	1	1	21	1.9	24					
29	0	0	1	1	1	S	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	2	0.9	24					
30	1	1	0	0	1	S	2	1	1	0	1	1	0	0	0	0	1	1	1	0	1	0	0	1	2	0.6	24					
HOURLY MAX	147	209	234	110	70	NA	19	49	37	22	8	2	3	19	4	3	9	60	85	97	192	222	200	199								
HOURLY AVG	18.3	16.7	16.0	11.5	6.6	NA	4.4	5.8	3.4	3.3	1.5	1.0	1.1	1.7	1.2	1.1	1.1	3.4	4.0	4.6	7.6	10.7	12.0	17.7								

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

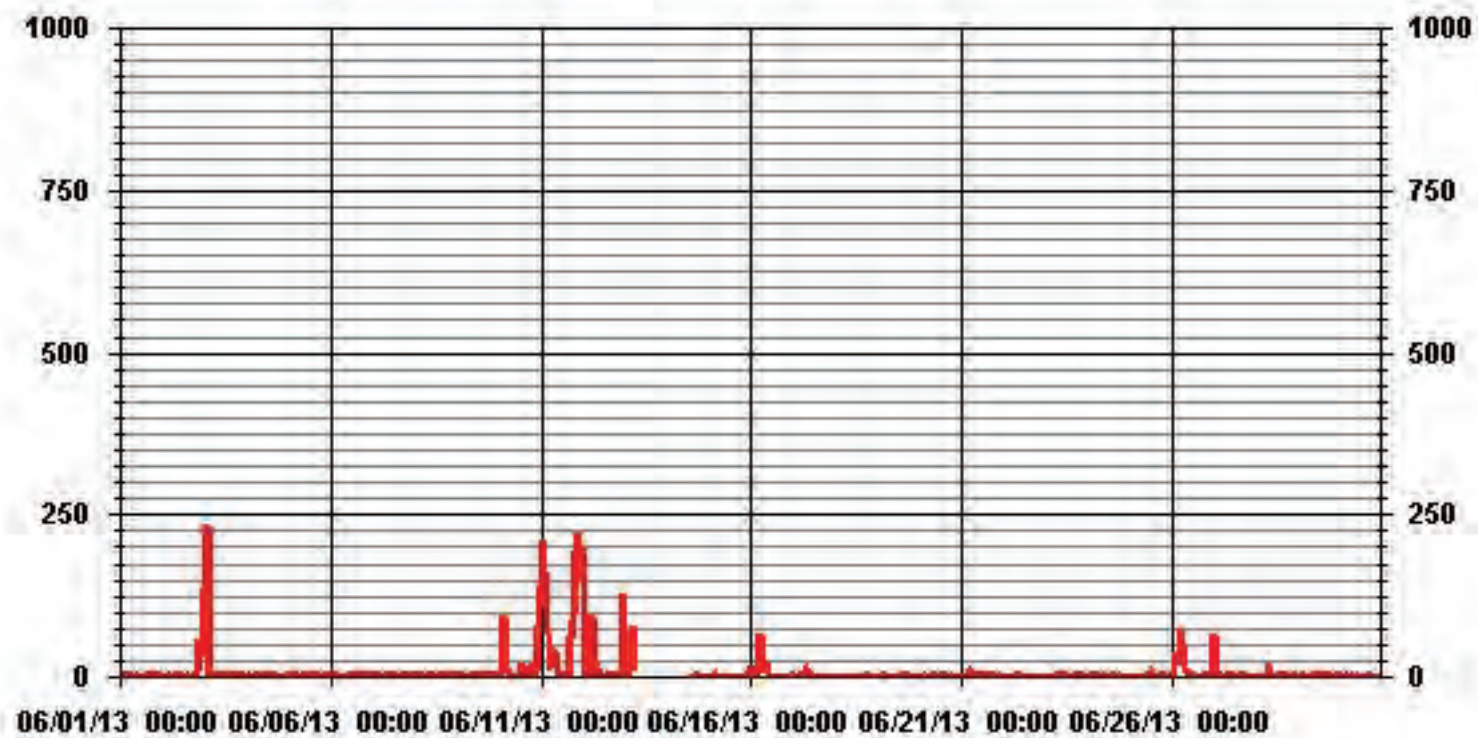
24 HOUR AVERAGES FOR JUNE 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	510				
MAXIMUM 1-HR AVERAGE:	234	PPB	@ HOUR(S)	2	ON DAY(S) 3
MAXIMUM 24-HR AVERAGE:	81.6	PPB			ON DAY(S) 11
					VAR-VARIOUS
IZS CALIBRATION TIME:	29	HRS	OPERATIONAL TIME:	697	HRS
MONTHLY CALIBRATION TIME:	9	HRS	AMD OPERATION UPTIME:	96.8	%
STANDARD DEVIATION:	26.75		MONTHLY AVERAGE:	6.78	PPB

01 Hour Averages



— EKATI NO PPB

Oxides of Nitrogen

BHP Billiton Diamonds Inc. - EKATI
APRIL 2013
OXIDES OF NITROGEN (NOx) hourly averages in ppb

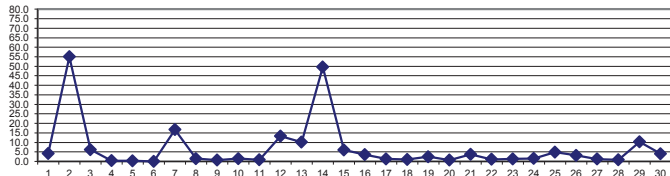
MST

Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	8	3	6	4	4	S	7	8	3	1	7	4	2	1	8	4	0	0	0	2	1	15	6	1	15	4.1	24
2	5	28	12	13	13	S	9	8	7	117	397	150	250	53	90	10	14	6	5	7	13	15	20	23	397	55.0	24
3	25	25	13	11	4	S	5	12	10	10	2	7	1	1	12	0	0	0	3	0	0	0	1	0	25	6.2	24
4	0	0	0	0	0	S	1	1	4	1	1	0	0	0	0	0	0	0	0	0	0	1	0	4	0.4	24	
5	0	0	0	0	0	S	0	0	0	0	0	0	0	0	5	0	2	0	0	0	0	0	0	0	5	0.3	24
6	0	0	0	0	0	S	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0.0	24
7	1	1	1	17	6	S	2	7	3	61	3	5	15	137	10	43	1	1	0	3	11	31	13	12	137	16.7	24
8	3	4	4	3	1	S	2	4	1	2	1	1	0	1	1	1	0	0	0	1	1	0	1	2	4	1.5	24
9	2	2	2	3	3	S	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.7	24
10	0	0	1	5	5	S	1	3	1	3	1	0	0	1	2	1	1	1	1	1	1	2	1	1	5	1.4	24
11	0	0	0	0	0	S	0	0	0	0	1	3	3	1	1	1	1	3	2	0	2	1	1	0	3	0.9	24
12	0	1	5	10	6	S	7	3	6	93	101	1	1	7	5	3	2	3	5	5	6	9	5	20	101	13.2	24
13	3	23	53	38	8	S	26	7	25	10	6	8	3	1	2	2	1	1	1	1	1	5	4	4	53	10.1	24
14	12	51	40	100	81	S	115	45	29	11	15	8	3	3	8	7	13	50	156	79	4	25	85	201	201	49.6	24
15	91	26	0	1	0	S	0	0	2	4	3	2	2	1	1	1	0	1	0	0	1	2	0	0	91	6.0	24
16	1	2	1	1	0	S	1	2	11	14	24	3	3	1	7	1	1	6	0	1	0	1	1	0	24	3.6	24
17	0	0	0	0	0	S	3	3	1	5	1	8	0	1	0	1	1	0	0	0	0	2	1	2	8	1.3	24
18	0	2	2	3	1	S	2	2	0	1	0	1	1	0	1	4	1	0	1	1	0	0	0	0	4	1.0	24
19	0	2	0	0	0	S	1	1	2	6	5	14	2	1	14	2	1	0	1	0	1	3	0	1	14	2.5	24
20	0	0	0	0	0	S	0	0	1	1	2	1	1	1	1	1	1	1	2	1	1	0	0	2	0.7	24	
21	0	0	0	0	0	S	5	5	7	7	14	26	9	3	2	2	4	1	0	1	0	0	0	0	26	3.7	24
22	1	1	1	1	1	S	4	2	0	1	2	2	1	0	1	5	0	0	0	0	0	1	1	5	1.1	24	
23	0	0	0	0	0	S	0	0	1	1	1	1	2	2	0	0	0	2	1	1	1	3	8	5	8	1.3	24
24	1	1	1	1	1	S	7	8	4	2	2	0	0	1	1	1	0	0	1	0	0	1	2	8	1.5	24	
25	3	20	21	9	9	S	7	4	3	2	14	9	7	2	1	2	0	0	0	0	0	0	0	0	21	4.9	24
26	0	0	0	0	0	S	4	1	0	4	8	9	26	1	2	2	7	3	1	0	3	1	0	0	26	3.1	24
27	0	0	0	1	0	S	1	1	1	1	0	1	8	7	4	1	1	0	0	0	0	1	0	8	1.2	24	
28	0	0	0	0	0	S	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	11	6	1	11	0.9	24
29	11	13	32	47	44	S	36	30	8	7	6	1	1	0	0	0	0	0	0	0	0	0	0	1	47	10.3	24
30	3	2	6	1	2	S	18	5	4	5	3	8	11	3	1	2	0	0	1	0	2	4	5	6	18	4.0	24
Hourly Max	91	51	53	100	81	NA	115	45	29	117	397	150	250	137	90	43	14	50	156	79	13	31	85	201			
Hourly Avg	5.7	6.9	6.7	9.0	6.3	NA	8.9	5.4	4.5	12.3	20.7	9.1	11.7	7.7	6.0	3.2	1.7	2.6	6.0	3.5	1.7	4.3	5.4	9.4			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

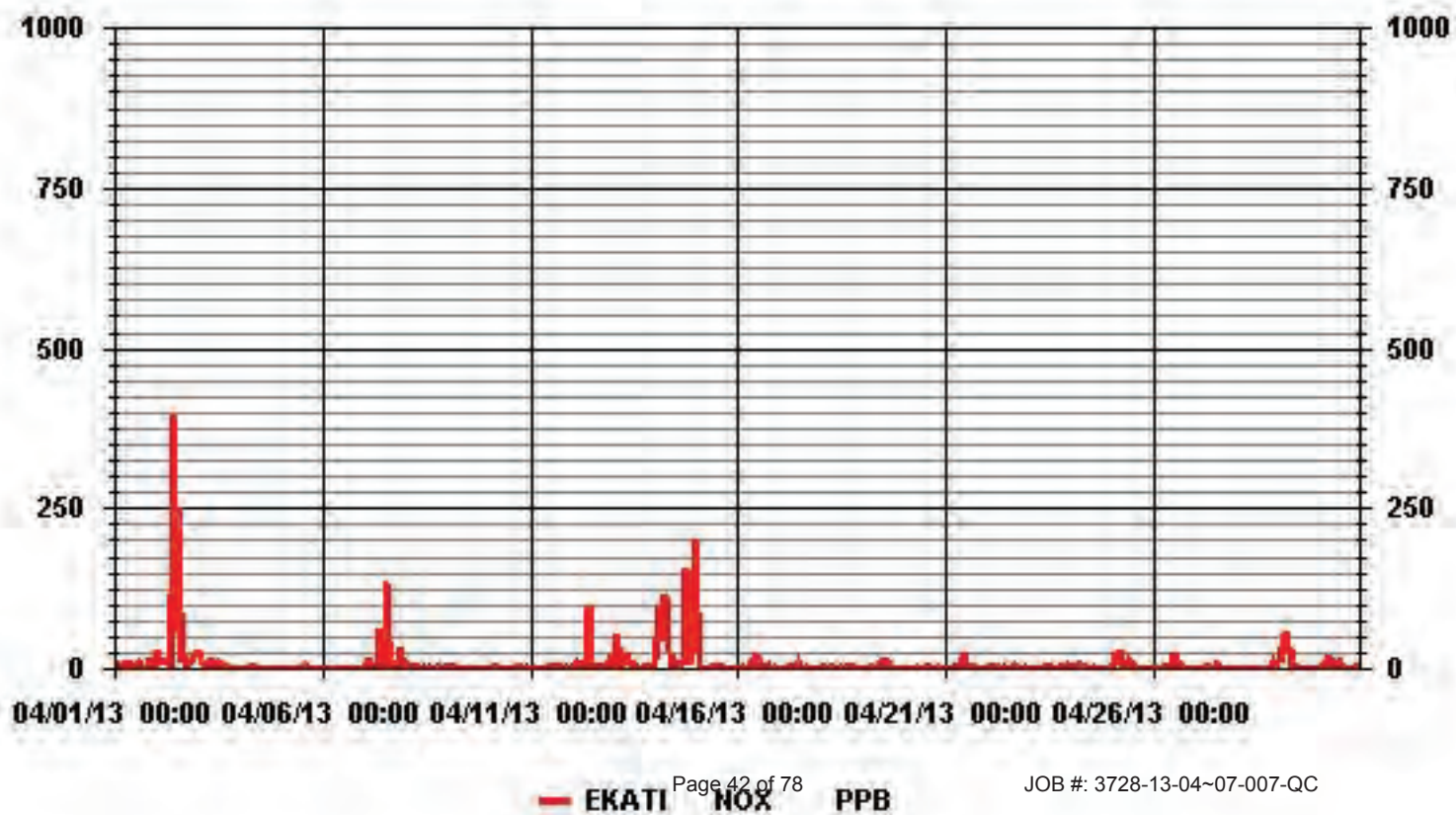
24 HOUR AVERAGES FOR APRIL 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:		439			
MAXIMUM 1-HR AVERAGE:		397	PPB @ HOUR(S)	10	ON DAY(S) 2
MAXIMUM 24-HR AVERAGE:		55.0	PPB		ON DAY(S) 2
VAR-VARIOUS					
IZS CALIBRATION TIME:		30	HRS	OPERATIONAL TIME: 720 HRS	
MONTHLY CALIBRATION TIME:		0	HRS	AMD OPERATION UPTIME: 100.0 %	
STANDARD DEVIATION:		25.13		MONTHLY AVERAGE: 6.91 PPB	

01 Hour Averages



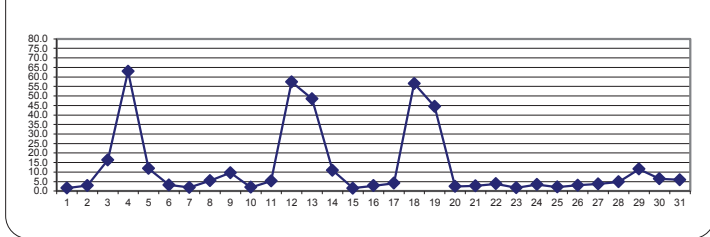
BHP Billiton Diamonds Inc. - EKATI
MAY 2013
OXIDES OF NITROGEN (NOx) hourly averages in ppb

MST																								DAILY	24-HOUR		
HOURLY START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
HOURLY END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	3	3	5	3	2	S	3	2	2	1	1	1	2	1	0	0	1	1	0	1	1	1	1	5	1.6	24	
2	1	1	2	2	1	S	1	1	1	1	1	2	1	2	1	1	1	1	1	1	2	14	14	12	14	2.9	24
3	12	11	12	126	77	S	5	64	1	1	1	1	1	3	3	4	1	1	1	2	7	13	26	126	16.3	24	
4	97	35	154	155	150	S	3	6	14	8	7	9	7	5	10	7	22	39	20	78	94	221	137	170	221	63.0	24
5	23	28	4	1	4	S	79	77	2	1	1	1	1	1	5	2	24	5	9	1	0	1	1	79	11.8	24	
6	1	11	23	4	2	S	3	3	3	2	2	2	2	4	1	2	3	1	1	1	1	1	0	0	23	3.2	24
7	1	0	0	0	0	S	1	1	1	1	1	1	2	12	8	5	2	2	1	1	1	0	1	0	12	1.8	24
8	1	1	1	1	1	S	14	4	1	1	8	25	2	5	2	1	1	2	2	2	8	13	11	19	25	5.5	24
9	10	26	19	40	18	S	36	25	13	1	2	2	8	4	2	4	4	1	1	1	0	1	1	1	40	9.6	24
10	1	1	0	0	0	S	1	4	1	3	4	7	1	1	1	1	1	1	1	1	2	4	4	4	7	1.9	24
11	4	5	3	2	1	S	1	2	10	17	33	3	2	4	4	12	7	4	2	1	1	1	1	1	33	5.3	24
12	1	9	7	92	134	S	1	1	5	1	1	1	1	1	1	1	1	15	42	162	270	266	128	178	270	57.3	24
13	295	185	169	31	6	S	7	8	8	14	21	7	16	25	9	23	20	35	38	7	18	65	64	45	295	48.5	24
14	2	3	5	160	33	S	4	17	5	1	1	1	2	2	1	1	1	2	1	1	2	2	2	2	160	10.9	24
15	1	1	2	2	1	S	2	1	1	1	1	1	1	2	2	2	2	2	1	1	1	2	2	2	2	1.5	24
16	1	2	2	3	17	S	1	1	1	2	2	2	2	3	3	2	3	2	4	6	1	1	1	2	17	2.8	24
17	1	1	1	1	1	S	1	1	1	4	20	2	2	3	9	12	14	2	2	1	2	2	2	10	20	4.1	24
18	5	27	67	7	9	S	49	63	116	4	3	2	2	3	2	3	3	3	3	2	4	158	362	403	403	56.5	24
19	264	241	8	24	121	S	29	9	3	4	4	3	3	3	4	6	6	6	11	12	82	153	18	9	264	44.5	24
20	4	1	1	1	4	S	10	7	2	2	6	2	1	1	1	4	1	1	1	1	1	1	1	1	10	2.4	24
21	1	1	1	1	1	S	2	1	1	1	1	4	11	8	3	2	3	1	1	1	1	1	5	11	11	2.7	24
22	16	11	10	2	2	S	2	1	2	10	5	5	1	1	1	1	1	2	2	2	1	2	4	4	16	3.8	24
23	3	3	4	2	1	S	3	1	2	1	1	1	1	2	1	1	1	1	1	1	1	2	2	2	4	1.7	24
24	1	3	3	2	2	S	5	2	6	3	4	4	7	3	4	1	2	2	3	5	6	5	4	2	7	3.4	24
25	3	3	10	8	7	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	2.1	24
26	3	3	4	2	2	S	2	1	1	1	1	1	1	1	1	2	1	1	1	2	10	9	10	10	10	3.0	24
27	9	11	33	2	1	S	1	1	1	1	1	1	1	1	1	2	3	3	4	2	1	2	2	2	33	3.7	24
28	3	3	3	2	3	S	3	2	2	2	2	3	7	7	3	4	2	2	2	3	8	4	37	4	37	4.8	24
29	35	28	8	20	33	S	27	6	14	13	14	8	4	4	6	7	2	3	2	2	1	2	12	14	35	11.5	24
30	19	25	10	2	1	S	1	6	6	13	13	16	3	3	4	3	2	3	2	2	2	4	5	4	25	6.5	24
31	2	2	2	2	2	S	4	2	2	4	4	2	2	1	2	2	3	1	1	1	5	25	46	19	46	5.9	24
HOURLY MAX	295	241	169	160	150	NA	79	77	116	17	33	25	16	25	10	23	22	39	42	162	270	266	362	403			
HOURLY AVG	26.5	22.1	18.5	22.6	20.5	NA	9.7	10.4	7.4	3.9	5.4	3.9	3.2	3.8	3.0	3.9	3.8	5.3	5.1	10.0	17.1	31.3	28.8	31.0			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

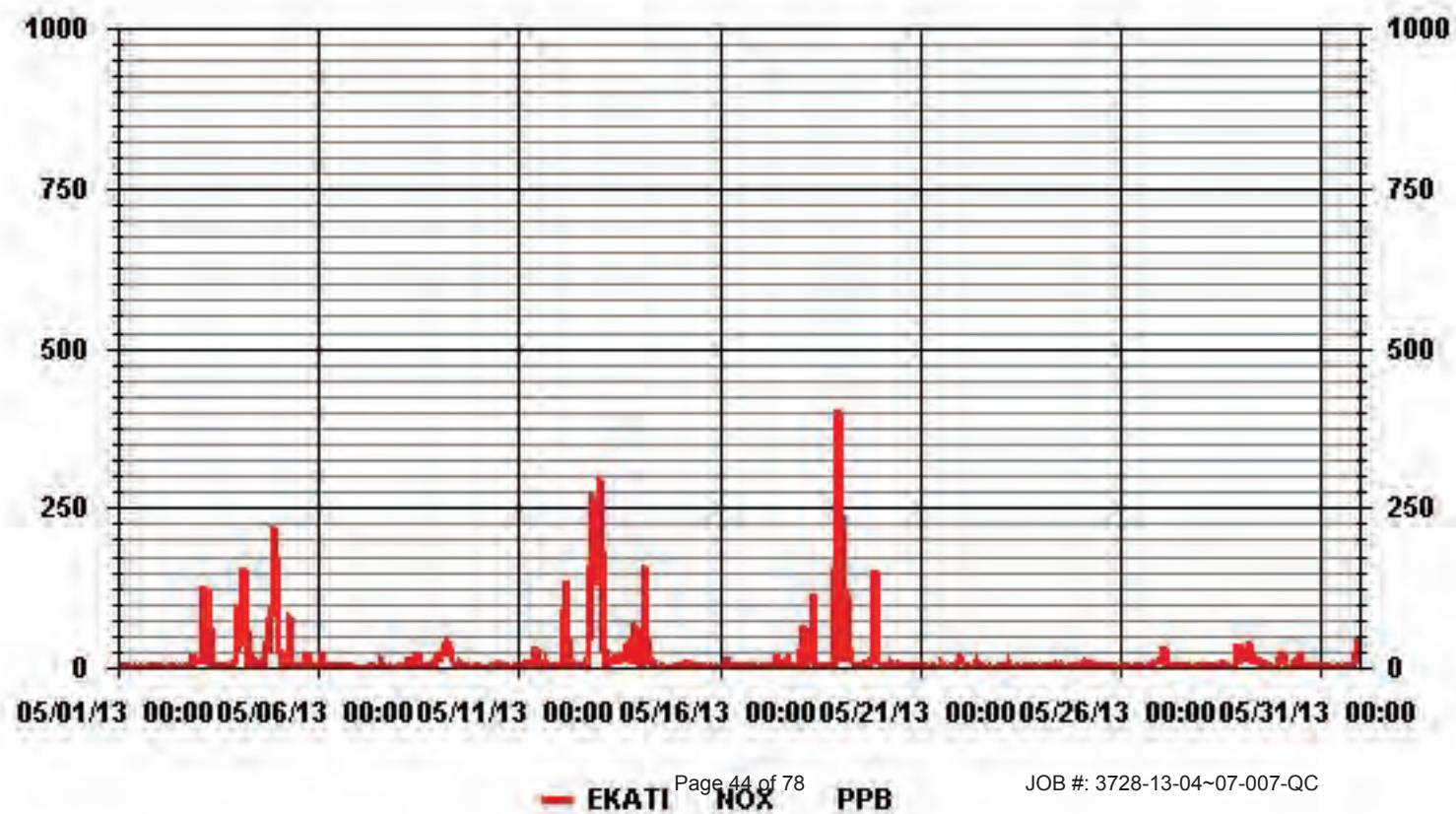
24 HOUR AVERAGES FOR MAY 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	697				
MAXIMUM 1-HR AVERAGE:	403	PPB	@ HOUR(S)	23	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	63.0	PPB			ON DAY(S)
					VAR-VARIOUS
IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	744	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	39.37		MONTHLY AVERAGE:	12.92	PPB

01 Hour Averages

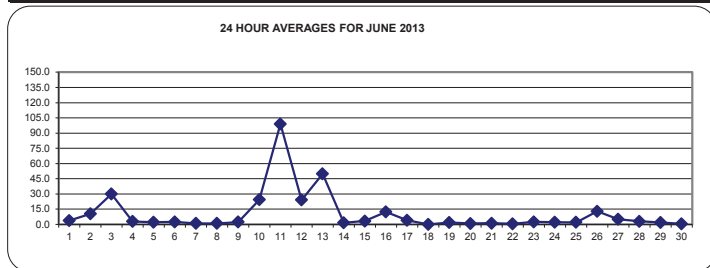


JUNE 2013

OXIDES OF NITROGEN (NO_x) hourly averages in ppb

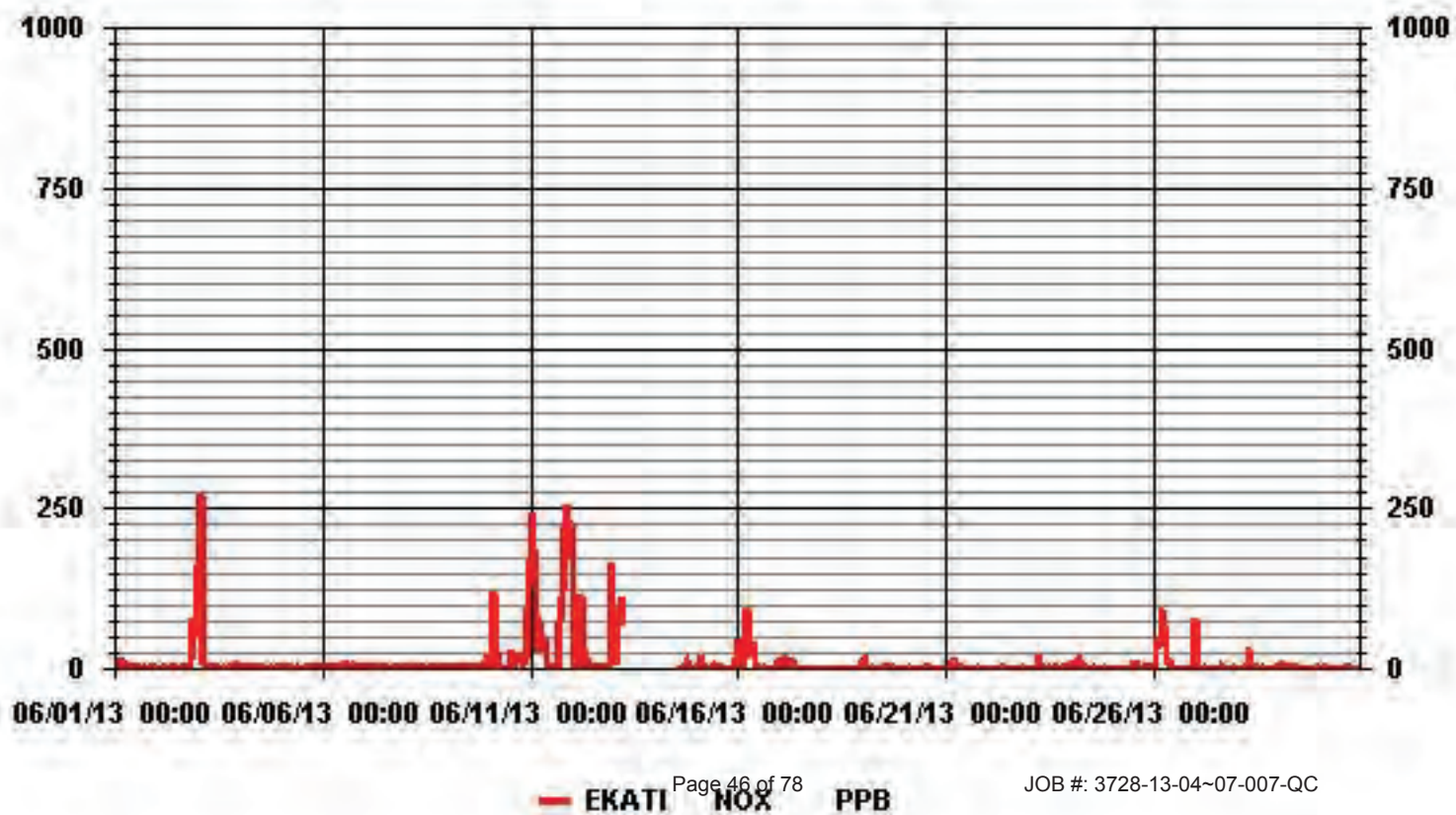
Hour Start	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Daily	24-Hour		
Hour End	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	Max	Avg	RDGS	
Day																												
1	5	6	13	14	7	S	3	3	3	2	2	2	4	2	2	2	1	2	2	1	3	2	3	2	14	3.7	24	
2	2	1	2	1	1	S	1	1	2	2	2	1	1	1	2	2	2	3	2	2	15	79	64	53	79	10.5	24	
3	161	203	272	8	2	S	2	2	3	3	2	2	2	1	2	1	1	2	1	1	2	4	7	7	272	30.0	24	
4	5	6	5	6	3	S	3	3	2	4	4	1	1	1	2	2	1	2	1	2	2	4	4	4	6	3.0	24	
5	3	3	4	2	3	S	3	1	2	1	1	2	1	2	1	1	1	1	1	1	5	6	2	1	6	2.1	24	
6	1	1	1	1	1	S	1	2	5	2	3	5	7	1	1	6	3	7	4	1	1	1	1	1	7	2.5	24	
7	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	3	1.1	24	
8	1	1	1	1	1	S	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	1.0	24	
9	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	10	21	21	2.3	24	
10	12	10	15	120	15	S	3	2	2	1	2	1	4	27	7	5	16	22	8	15	9	15	95	155	155	24.4	24	
11	168	241	189	133	88	S	72	51	48	29	3	2	2	2	2	2	2	74	110	119	223	257	231	228	257	99.0	24	
12	172	81	2	3	8	S	2	2	27	17	10	1	1	2	3	Y	4	2	3	5	7	5	10	163	172	24.1	23	
13	25	5	12	98	86	S	73	Y	Y	Y	Y	Y	Y	Y	C	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	98	49.8	9
14	Y	Y	Y	Y	Y	Y	Y	C	C	C	C	C	C	C	C	0	0	7	0	8	1	0	0	0	8	1.6	17	
15	5	0	6	19	6	S	0	0	0	1	6	0	1	1	1	1	1	0	0	0	1	5	4	18	19	3.3	24	
16	47	33	9	3	14	S	61	32	19	42	2	3	3	0	0	1	1	0	0	0	1	2	2	10	61	12.4	24	
17	6	12	13	17	9	S	3	16	6	3	3	1	2	0	2	0	0	0	0	0	0	0	0	0	17	4.0	24	
18	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24	
19	10	13	3	4	1	S	2	0	0	0	0	0	3	2	1	1	1	1	1	0	0	1	0	13	1.9	24		
20	2	0	0	1	1	S	0																					

STATUS/ENG CODES	
C	- CALIBRATION
Y	- MAINTENANCE
S	- DAILY ZERO/SPAN CHECK
P	- POWER FAILURE
G	- OUT FOR REPAIR
Q	- QUALITY ASSURANCE
R	- RECOVERY
X	- MACHINE MALFUNCTION
O	- OPERATOR ERROR
K	- COLLECTION ERROR

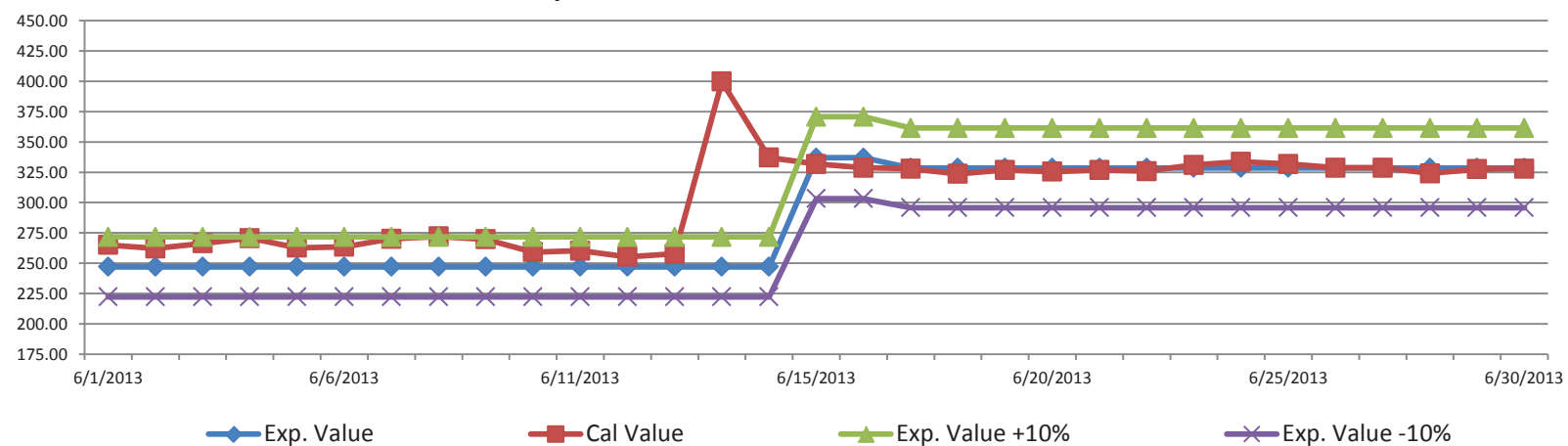


MONTHLY SUMMARY							
NUMBER OF NON-ZERO READINGS:		492					
MAXIMUM 1-HR AVERAGE:		272	PPB	@ HOUR(S)	2	ON DAY(S)	3
MAXIMUM 24-HR AVERAGE:		99.0	PPB			ON DAY(S)	11
VAR-VARIOUS							
IZS CALIBRATION TIME:		29	HRS	OPERATIONAL TIME:		697	HRS
MONTHLY CALIBRATION TIME:		9	HRS	AMD OPERATION UPTIME:		96.8	%
STANDARD DEVIATION:		32.20		MONTHLY AVERAGE:		9.43	PPB

01 Hour Averages



Calibration Graph for Site: EKATI Parameter: NOx Phase: SPAN



Particulate Matter 2.5

BHP Billiton Diamonds Inc. - EKATI

APRIL 2013

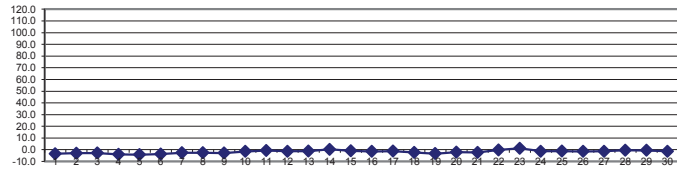
PARTICULATE MATTER 2.5 (LESS THAN 2.5 MICRONS) (PM2.5) hourly averages in ug/m3

MST																								DAILY	24-HOUR	RDGS.	
HOURLY START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	23:00		MAX.
HOURLY END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00			
DAY																											
1	-3	-5	-5	-3	-4	-4	-5	-5	-4	-4	-2	-1	-4	0	5	-2	-5	-5	-4	-4	-5	-5	-5	-5	5	-3.5	24
2	-5	-5	2	-2	-5	-5	-3	-3	-3	-4	-3	-2	-3	-1	1	2	0	-4	-5	-5	-3	-5	-5	-5	2	-3.0	24
3	-3	-2	0	-2	-4	-3	-1	-1	-5	-4	-1	-4	-4	-4	-1	-2	-2	-1	-2	-4	-5	-5	-5	0	-2.9	24	
4	-5	-5	-5	-5	-5	-5	-5	-5	-3	-2	-3	-5	-5	-5	-4	-3	-3	-2	-1	-3	-4	-5	-4	-1	-4.0	24	
5	-2	-4	-5	-5	-3	-5	-5	-5	-5	-5	-5	-5	-3	-1	-5	-5	-3	-3	-5	-5	-4	-4	-3	-1	-4.2	24	
6	-4	-5	-2	-3	-5	-5	-5	-5	-5	-5	-5	-5	-3	-3	-3	-3	-1	0	-3	-3	-4	-5	-5	-5	0	-3.8	24
7	-4	-4	-4	-5	-3	0	2	-2	-4	-3	-4	-3	-2	-2	-1	-2	-2	-2	-5	-5	-3	-1	0	-5	2	-2.7	24
8	-5	-5	-5	-5	-5	-4	-5	-4	-2	0	2	2	-1	-2	-4	-4	-3	-5	-3	2	1	-2	-2	-2	2	-2.5	24
9	-3	-1	0	-4	-2	1	-3	-5	-5	-5	-3	-4	-4	-3	-5	-3	-1	-5	-3	1	1	-5	-5	-4	1	-2.9	24
10	-5	-5	-2	0	-2	-3	-3	-1	0	-2	-5	-5	-4	-3	0	-1	1	3	2	-1	1	2	-1	-3	3	-1.5	24
11	-1	-1	0	2	-1	-2	0	1	-1	0	1	0	-1	-2	0	0	0	-1	-3	-4	-3	-2	-1	0	2	-0.8	24
12	-2	-1	-2	-5	-5	-5	-5	-5	X	-2	3	5	1	-2	-1	-2	-3	-2	0	-1	-2	2	2	0	5	-1.4	23
13	2	0	0	-1	-2	-2	-5	-5	-3	-3	1	4	2	-1	-3	-1	-1	-4	-2	0	-2	1	1	-5	4	-1.2	24
14	-5	-5	-3	0	5	6	5	8	7	2	-1	2	3	0	-5	-4	-2	-2	-1	3	1	-2	-2	-4	8	0.3	24
15	-4	0	3	4	4	-1	-2	-2	-5	-3	2	1	-1	-3	-4	3	4	-4	-2	-1	0	0	-5	-5	4	-0.9	24
16	-3	-2	1	-1	-3	-1	-1	0	-1	-2	-1	-1	-1	-4	-3	1	3	-1	-4	-1	0	-1	-5	-5	3	-1.5	24
17	-5	-3	1	2	4	1	-5	-2	2	0	1	1	0	0	0	2	-2	-4	-4	-4	-3	-3	-5	-5	4	-1.3	24
18	-2	-2	0	1	-2	-4	-5	-4	-1	1	0	-3	-4	-2	-1	2	2	-4	-5	-5	-5	-5	-5	-5	2	-2.4	24
19	-5	-5	-5	-4	-3	-4	-2	-3	-1	1	0	-3	-5	-5	-4	-5	-4	-3	-5	-5	-3	-3	-2	-2	1	-3.3	24
20	-5	-5	-5	-5	-3	-2	-2	-1	-3	-1	1	3	2	1	-2	-5	-5	-2	-2	-3	-1	-1	-3	-4	3	-2.2	24
21	-3	-4	-5	-5	-4	-5	-4	-2	-2	-3	1	0	-3	-2	0	-1	-2	-3	-1	1	0	-1	-3	-4	1	-2.3	24
22	-4	-4	-4	-5	-5	-3	-4	-4	-1	-2	-4	-2	3	5	4	4	2	3	5	5	4	1	0	1	5	-0.2	24
23	2	1	1	0	-2	-1	0	3	3	3	2	-1	0	2	1	1	1	4	4	3	1	-1	0	0	4	1.1	24
24	-1	-2	-3	-2	0	2	3	2	0	0	0	-1	-2	-2	-2	-3	-2	-2	-4	-4	-2	-1	-2	-4	3	-1.3	24
25	-2	-3	-3	-3	-4	-3	-3	-3	-3	-3	-2	-4	-5	-5	-5	-5	-3	5	5	3	3	6	5	1	6	-1.3	24
26	0	-1	0	-1	-4	-5	-4	-1	0	0	-1	-2	-2	-1	-3	-4	-3	-1	0	2	1	-2	-2	-1	2	-1.5	24
27	-2	-3	-4	-3	-2	-1	-2	0	0	-2	-1	-2	-2	-2	0	3	1	2	2	-1	-2	-4	-3	-5	3	-1.4	24
28	-5	-4	-5	-4	-1	-3	-3	0	1	1	0	-1	0	4	5	2	4	1	0	0	-2	0	1	-4	5	-0.5	24
29	-5	-5	1	2	4	4	3	4	2	-1	0	4	6	2	-1	-5	-5	-4	-2	0	-4	-4	-5	-5	6	-0.6	24
30	-5	-4	-3	-2	-2	0	1	0	-1	0	1	-1	-4	-2	0	0	-2	-5	-4	-1	1	2	0	-2	2	-1.4	24
HOURLY MAX	2	1	3	4	5	6	5	8	7	3	3	5	6	5	5	4	4	5	5	5	4	6	5	1			
HOURLY AVG	-3.1	-3.1	-2.0	-2.1	-2.1	-2.1	-2.3	-1.7	-1.5	-1.6	-0.9	-1.0	-1.5	-1.4	-1.5	-1.3	-1.3	-1.8	-1.7	-1.2	-1.4	-1.7	-2.4	-3.3			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

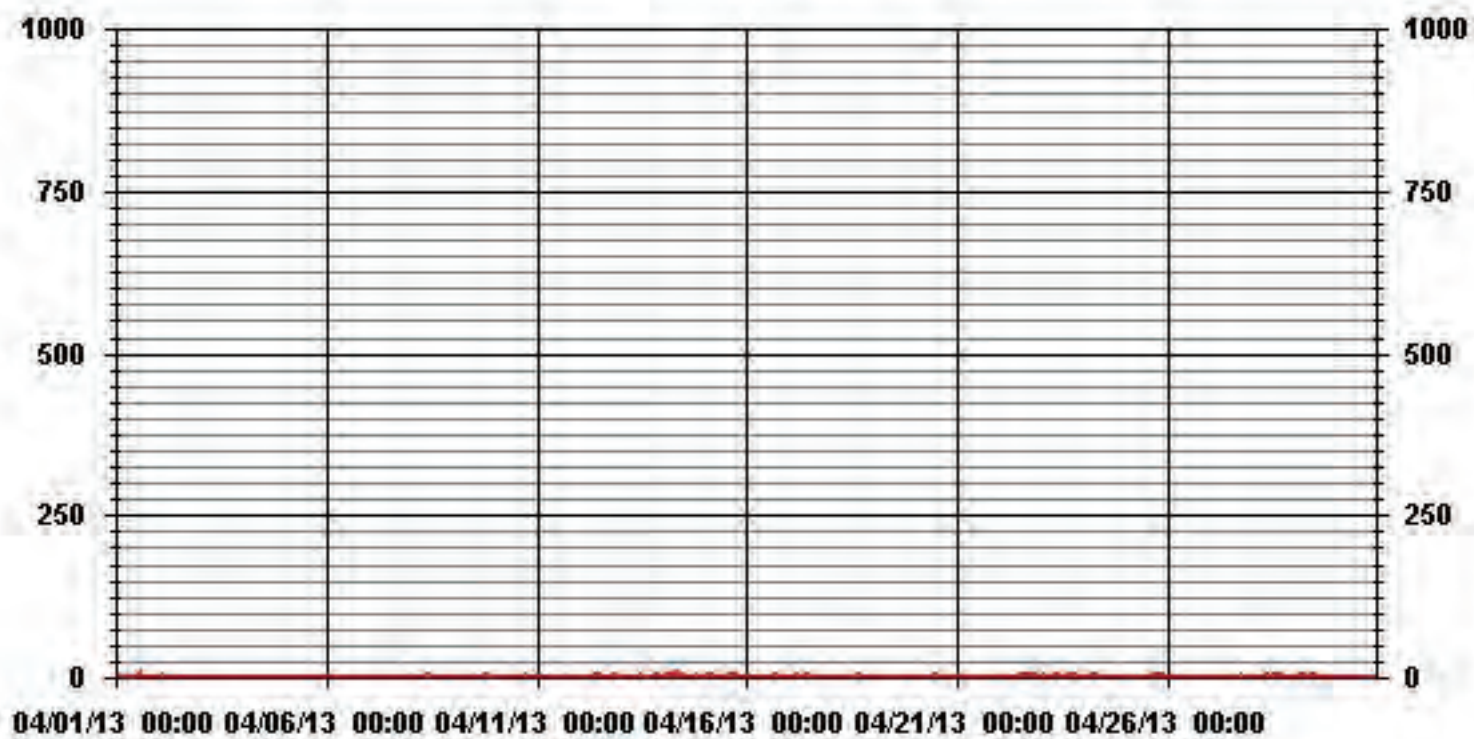
24 HOUR AVERAGES FOR APRIL 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	134				
MAXIMUM 1-HR AVERAGE:	8 ug/m3	@ HOUR(S)	7	ON DAY(S)	14
MAXIMUM 24-HR AVERAGE:	1.1 ug/m3			ON DAY(S)	23
				VAR-VARIOUS	
MONTHLY CALIBRATION TIME:	0 HRS	OPERATIONAL TIME:		719 HRS	
		AMD OPERATION UPTIME:		99.9 %	
STANDARD DEVIATION:	2.66	MONTHLY AVERAGE:		-1.84 ug/m3	

01 Hour Averages



— EKATI PM25 UG/M3

BHP Billiton Diamonds Inc. - EKATI

MAY 2013

PARTICULATE MATTER 2.5 (LESS THAN 2.5 MICRONS) (PM2.5) hourly averages in ug/m3

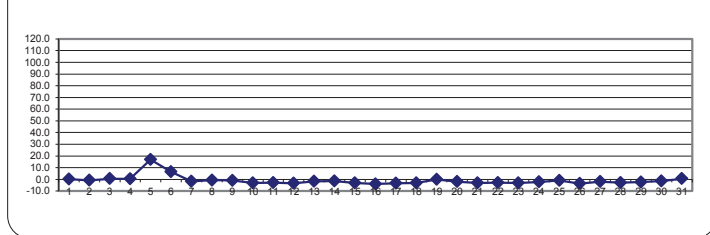
MST

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	HOURLY MAX	HOURLY AVG
1	4	4	2	-1	-5	-1	1	-1	1	1	0	3	3	-1	0	0	-3	-3	-2	-1	1	2	-2	0	4	0.1	24						
2	3	2	0	0	0	0	-3	-3	0	1	1	0	-3	-5	-3	-2	-2	-1	-2	-1	0	-1	-2	1	3	-0.8	24						
3	4	2	2	1	-1	-2	-1	4	4	4	4	0	0	0	0	0	0	-2	0	0	-1	-1	-3	4	0.6	24							
4	-2	-1	-2	2	4	2	2	3	2	-1	-1	-1	0	-1	-1	0	-1	1	2	0	1	2	3	0	4	0.5	24						
5	-4	-4	-2	0	-5	-5	-5	-3	-2	-4	-1	0	3	5	0	-3	-1	104	87	95	61	39	15	36	104	16.9	24						
6	14	8	1	1	0	0	0	0	-1	-4	-4	-3	-2	0	-3	-2	5	155	-3	-4	-4	-2	0	1	155	6.4	24						
7	-2	-5	-5	-5	-4	-3	-5	-5	-3	-1	-1	-2	-1	2	3	2	4	2	-1	-2	-2	0	-2	-5	4	-1.7	24						
8	-5	-4	1	0	-3	-1	2	1	-3	-1	4	6	2	-2	2	-1	-3	-2	-2	-1	-1	-1	-2	-3	6	-0.7	24						
9	-3	0	1	-1	-2	1	2	-2	-4	-2	-1	-2	-3	-3	1	4	0	0	-1	-4	-3	-2	1	1	4	-0.9	24						
10	-2	-4	-5	-5	-5	-4	-2	2	X	-1	0	2	0	-4	-5	-5	-4	-3	-3	-5	-5	-5	-5	-3	2	-3.1	23						
11	-1	1	-1	-2	-3	-5	-5	-4	-4	-3	1	0	-4	-4	-4	-3	-4	-4	-4	-4	-2	-1	-4	-5	1	-2.9	24						
12	-3	-2	-4	-4	-4	-2	-2	-3	-5	-5	-5	-5	-4	-3	-5	-5	-3	-2	-3	-4	-3	-1	-1	-3	-1	-3.4	24						
13	-2	-1	1	2	1	-2	-5	-4	-3	-2	-1	1	-1	-2	-2	-2	-3	-5	-4	0	-2	-3	-3	0	2	-1.8	24						
14	-1	-3	-3	-2	1	3	2	1	-1	0	0	-2	-4	-2	1	-1	-5	-3	-3	-5	-5	-3	-1	0	3	-1.5	24						
15	-1	-2	-4	-5	-5	-3	-4	-4	-2	-2	-5	-5	-1	-1	-4	-3	-4	-4	0	-1	-5	-4	-2	-4	0	-3.1	24						
16	-4	-5	-5	-5	-4	-4	-5	-5	-5	-2	0	-3	-5	-5	-3	-5	-5	-5	-4	-5	-1	-2	-5	-4	0	-4.0	24						
17	-5	-5	-2	-4	-5	-4	-3	-2	-4	-4	-2	2	-2	-5	-5	-5	-4	-5	-5	-2	-1	-2	-1	-3	2	-3.3	24						
18	-5	-4	-1	-1	-3	-4	-4	-5	-5	-1	-2	-2	-1	-1	-3	-5	-4	-5	-4	-3	-2	-3	-5	-1	-1	-3.1	24						
19	2	0	-1	-2	-2	2	2	0	0	0	-2	-2	1	2	-1	-2	-1	1	2	1	-2	-2	1	3	3	0.0	24						
20	1	0	1	-2	-2	0	0	-2	0	1	-1	-4	-2	-1	-3	-3	-3	-4	-5	-4	-2	-3	-5	-5	1	-2.0	24						
21	-5	-5	-5	-4	-2	-3	-4	-2	-1	-1	-1	-2	-3	-3	-1	0	-1	-3	-5	-5	-5	-5	-4	-5	0	-3.1	24						
22	-5	-5	-3	-4	-5	-3	-1	-3	-5	-4	-2	2	2	-1	-4	-5	-4	-3	-3	-3	-3	0	-1	-4	2	-2.8	24						
23	-4	-5	-5	-5	-2	-1	-5	-5	-1	2	4	1	-4	-5	-5	-4	-2	-4	-5	-3	-2	-5	-5	-5	4	-3.1	24						
24	-5	-3	0	1	-4	0	-2	0	1	-1	-2	-2	-2	-1	-2	-2	-2	-3	-4	-3	-3	-5	-4	1	-2.2	24							
25	-4	-4	-2	2	3	-1	-3	1	0	-1	1	2	1	1	-2	-4	0	2	-1	-1	-1	-3	-4	-5	3	-1.0	24						
26	-5	-5	-5	-5	-5	-5	-3	-5	-2	1	-2	-3	-3	-2	-5	-5	-3	-3	-2	-4	-5	-5	-2	-2	1	-3.5	24						
27	-2	-1	1	-1	-4	-2	-2	-2	1	0	-1	-2	-3	-3	-3	-5	-3	-2	-5	-3	-1	-2	-1	-1	1	-2.0	24						
28	-2	-3	-3	-2	-5	-5	-2	-2	-3	-3	-2	-1	-3	-4	-2	-4	-5	-3	-2	-2	-1	-2	-3	-2	-1	-2.8	24						
29	-2	-1	-1	-2	-2	0	-1	-3	-4	-4	-4	-5	-2	-2	-4	-2	-3	-3	-3	-1	0	-3	-3	0	-2.4	24							
30	-4	-2	0	-2	0	1	-1	-2	-1	-2	-2	-2	-4	-3	-3	-1	-2	-2	-1	-2	-2	-1	1	3	3	-1.4	24						
31	3	0	0	2	2	-3	-1	1	1	5	4	1	-2	-5	-2	-1	-2	-1	-1	-1	0	3	5	6	6	0.6	24						
HOURLY MAX	14	8	2	2	4	3	2	4	4	5	4	6	3	5	3	4	5	155	87	95	61	39	15	36									
HOURLY AVG	-1.5	-1.8	-1.6	-1.7	-2.3	-1.9	-1.8	-1.7	-1.6	-1.0	-0.7	-0.9	-1.6	-1.9	-2.1	-2.5	-2.2	6.2	0.4	0.6	0.0	-0.5	-1.4	-0.6									

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

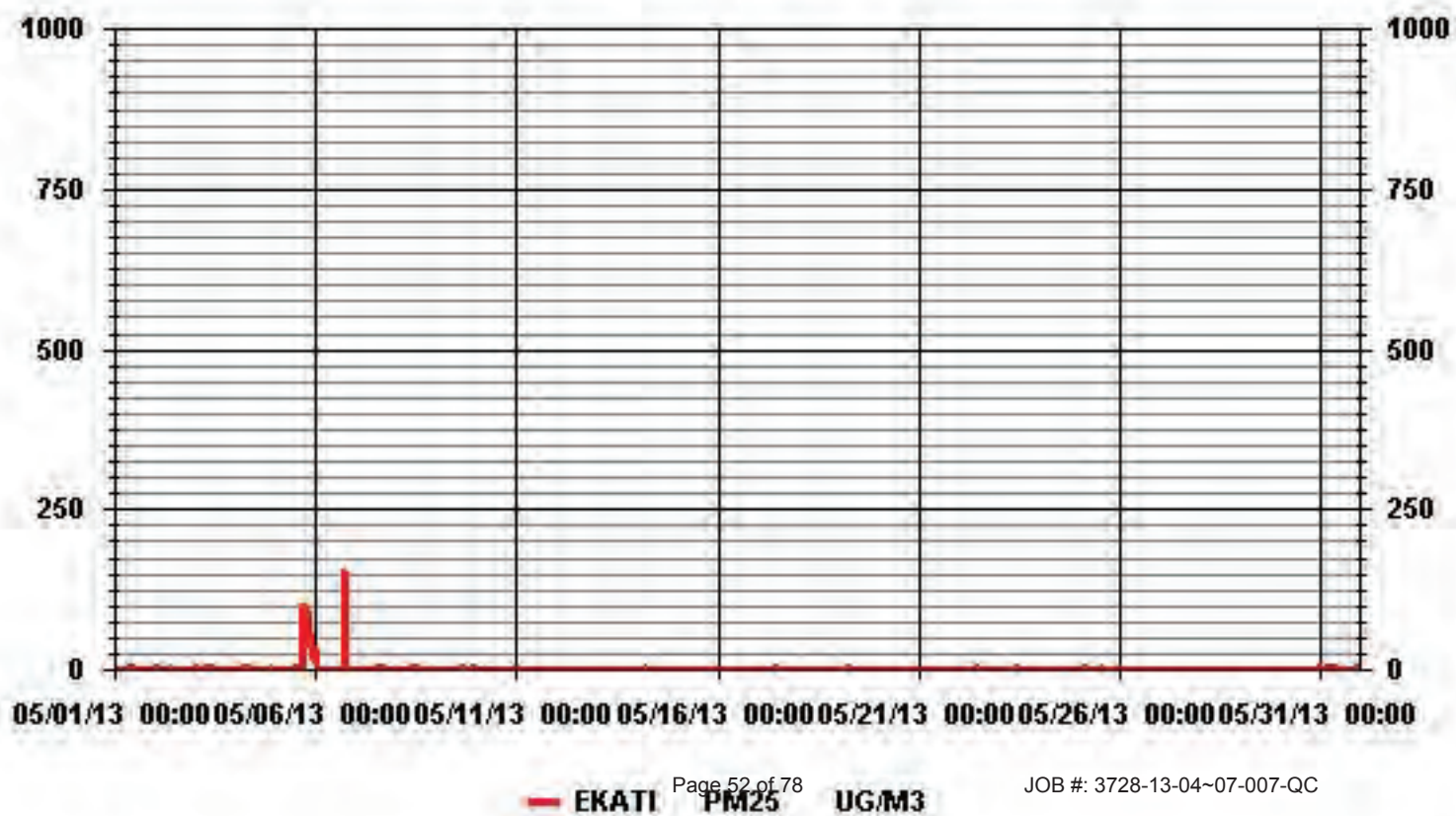
24 HOUR AVERAGES FOR MAY 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	128				
MAXIMUM 1-HR AVERAGE:	155 ug/m3	@ HOUR(S)	17	ON DAY(S)	6
MAXIMUM 24-HR AVERAGE:	16.9 ug/m3			ON DAY(S)	5
				VAR-VARIOUS	
MONTHLY CALIBRATION TIME:	0 HRS	OPERATIONAL TIME:	743 HRS		
STANDARD DEVIATION:	9.30	AMD OPERATION UPTIME:	99.9 %		
		MONTHLY AVERAGE:	-1.01 ug/m3		

01 Hour Averages



BHP Billiton Diamonds Inc. - EKATI

JUNE 2013

PARTICULATE MATTER 2.5 (LESS THAN 2.5 MICRONS) (PM2.5) hourly averages in ug/m3

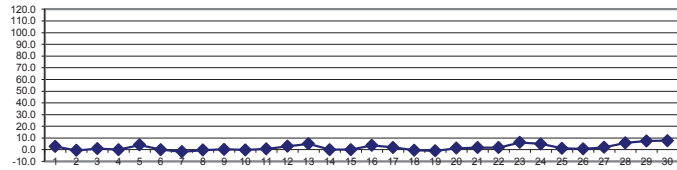
MST

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	5	2	3	5	5	5	3	4	4	4	3	3	2	2	1	0	1	1	0	3	3	1	3	4	5	2.8	24
2	4	4	3	0	-4	-5	-5	-2	-3	-4	-2	-2	-2	-2	-1	2	4	2	1	-1	-3	3	1	4	-0.6	24	
3	-2	-2	0	4	1	-2	2	4	2	0	2	1	0	3	4	4	4	1	-2	0	1	1	0	-2	4	1.0	24
4	2	1	-1	1	-2	-2	-1	-3	-1	2	0	-1	1	2	1	-2	-3	-1	1	0	-2	2	4	3	4	0.0	24
5	2	5	5	0	2	1	-2	-2	0	1	0	-2	0	4	3	3	2	0	-1	2	4	35	32	3	35	4.0	24
6	2	0	1	4	4	1	-1	1	0	-1	-1	1	-1	-3	-3	-1	0	1	1	-2	-2	-1	1	0	4	0.0	24
7	0	1	-1	-2	0	0	-2	-1	-1	-1	1	-1	-4	-4	1	1	-2	-3	-2	-5	-5	-5	-5	-2	1	-1.8	24
8	-1	0	-1	-2	-2	-2	0	1	0	0	-2	1	4	3	1	-1	-2	-2	1	3	1	-2	-4	-2	4	-0.3	24
9	1	1	2	2	-2	-1	0	2	2	-1	-1	0	0	1	1	-1	-1	2	1	-2	-2	-1	1	3	3	0.3	24
10	4	2	0	-1	-1	3	3	-2	-4	-1	0	-2	-1	-1	0	1	-1	-1	-1	-2	1	0	-2	-1	4	-0.3	24
11	1	0	2	6	5	4	3	1	1	1	1	-2	-2	-2	0	0	0	0	-2	-2	-3	-2	3	3	6	0.7	24
12	2	1	1	3	2	-3	-5	0	1	1	2	0	-2	2	3	2	9	10	18	3	4	9	6	0	18	2.9	24
13	1	1	3	5	5	8	8	8	7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	8	5.1	9
14	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			0
15	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			0
16	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	-5	C	3	5	6	5	9	7	6	5	4	3	-1	1	9	3.7	14
17	6	6	3	5	7	5	3	1	2	3	1	0	2	2	3	1	1	3	-1	-3	-1	3	-1	-5	7	1.9	24
18	-1	1	1	2	0	-1	3	2	0	1	-1	-1	2	-1	-2	-1	0	-1	-3	-3	-5	-3	1	-1	3	-0.5	24
19	-3	0	2	2	1	0	-3	-4	-4	-4	0	2	-1	-1	-2	-2	4	3	1	1	-2	-5	-4	4	-1.0	24	
20	-2	-2	-1	0	0	2	7	3	2	8	8	6	3	1	-1	-3	-3	-1	3	3	0	1	0	-3	8	1.3	24
21	-3	-1	-1	1	2	6	8	4	1	2	3	5	6	2	0	-2	-2	1	7	3	-2	1	3	1	8	1.9	24
22	-1	1	1	1	2	3	1	2	4	2	1	2	2	1	1	2	3	1	0	1	3	4	4	3	4	1.8	24
23	5	8	8	7	6	17	7	6	7	8	7	8	6	7	9	8	6	-1	-1	4	-1	-2	7	11	17	6.1	24
24	10	9	7	5	6	5	7	6	1	1	3	6	10	11	5	4	5	4	-1	0	4	2	1	7	11	4.9	24
25	9	6	3	1	1	0	1	2	1	1	-1	-1	1	2	1	0	-2	0	4	3	1	1	-2	-5	9	1.1	24
26	-3	-4	2	4	0	1	1	0	1	0	1	0	1	1	-1	1	2	0	-1	-1	1	1	5	6	6	0.8	24
27	4	3	4	6	3	-1	0	3	3	1	1	1	2	5	5	5	4	3	1	-2	1	2	1	-4	6	2.1	24
28	-1	8	10	6	1	3	5	5	2	3	9	8	4	5	5	5	15	11	10	9	8	3	2	5	15	5.9	24
29	7	9	11	10	20	10	10	10	11	11	6	3	3	5	8	11	12	7	-1	-1	5	6	3	4	20	7.5	24
30	10	17	6	7	16	11	16	13	11	7	6	5	2	2	2	4	3	4	4	4	6	10	12	5	17	7.6	24
HOURLY MAX	10	17	11	10	20	17	16	13	11	11	9	8	10	11	9	11	15	11	18	9	8	35	32	11			
HOURLY AVG	2.1	2.9	2.7	3.0	2.9	2.5	2.6	2.4	1.9	1.7	1.4	1.5	1.6	1.9	1.9	1.6	2.2	2.0	1.7	0.8	0.9	2.4	2.7	1.1			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

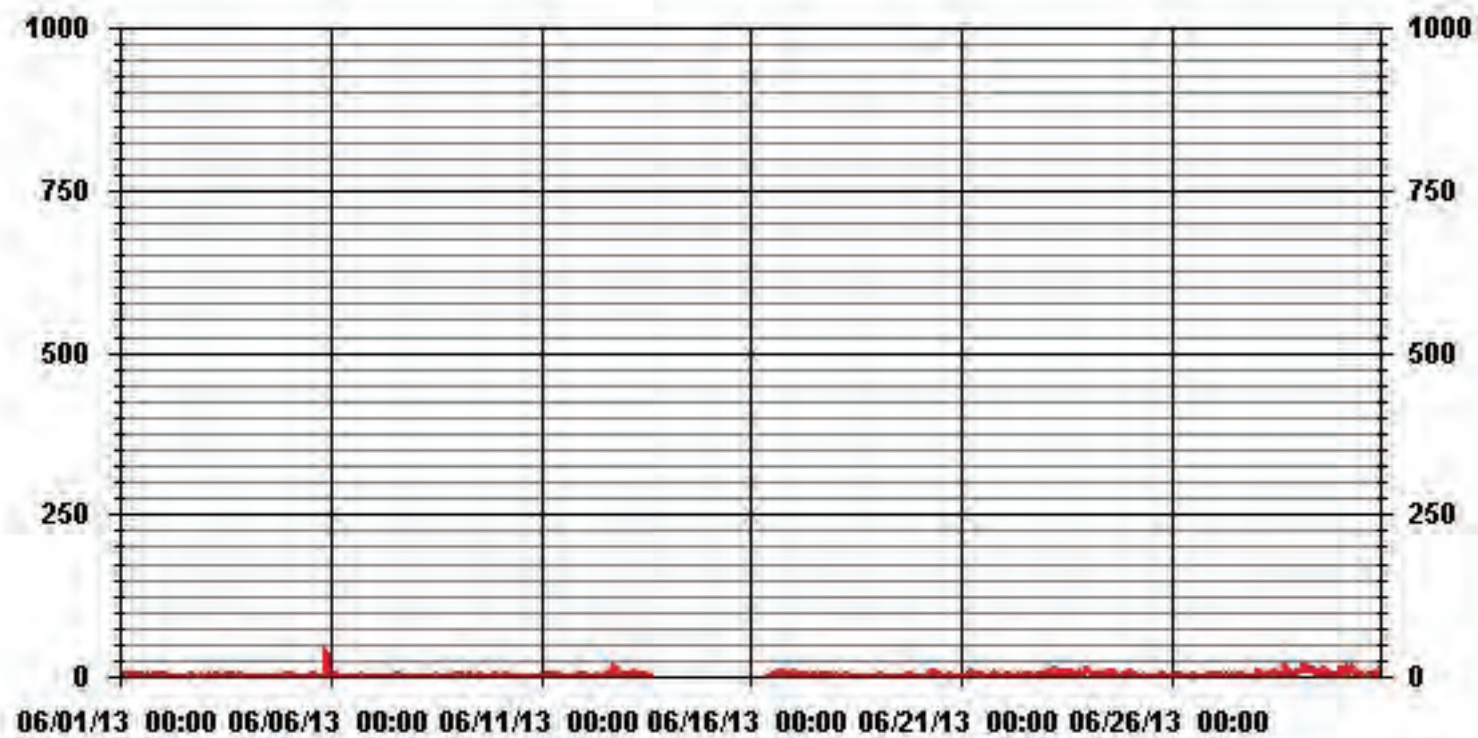
24 HOUR AVERAGES FOR JUNE 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	407				
MAXIMUM 1-HR AVERAGE:	35	ug/m3	@ HOUR(S)	21	ON DAY(S)
MAXIMUM 24-HR AVERAGE:	7.6	ug/m3			ON DAY(S)
					VAR-VARIOUS
MONTHLY CALIBRATION TIME:	1	HRS	OPERATIONAL TIME:	647	HRS
			AMD OPERATION UPTIME:	89.9	%
STANDARD DEVIATION:	4.17		MONTHLY AVERAGE:	2.11	ug/m3

01 Hour Averages



— EKATI PM25 UG/M3

Total Suspended Particulate

BHP Billiton Diamonds Inc. - EKATI

APRIL 2013

TOTAL SUSPENDED PARTICULATE (TSP) hourly averages in ug/m3

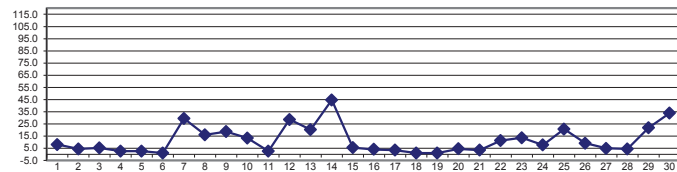
MST

DAY	12	8	2	0	1	1	-1	-1	-1	0	3	67	29	30	12	16	-1	3	6	2	1	2	1	1	67	8.0	24
1	12	8	2	0	1	1	-1	-1	-1	0	3	67	29	30	12	16	-1	3	6	2	1	2	1	1	67	8.0	24
2	-1	-2	2	2	3	4	3	1	3	3	4	10	10	18	9	8	5	3	7	7	5	3	-2	-1	18	4.3	24
3	2	6	8	7	5	3	2	1	2	3	3	15	45	6	4	3	5	1	1	2	1	2	1	-2	45	5.3	24
4	-1	0	-1	2	6	4	-1	3	5	0	0	4	5	5	4	3	3	5	4	1	-1	1	3	6	6	2.5	24
5	3	0	3	3	-1	0	0	-1	1	2	2	4	5	3	4	7	11	12	6	1	-2	-1	1	0	12	2.6	24
6	0	1	1	1	0	-1	0	1	0	1	5	3	1	4	2	4	7	4	1	-1	-2	-4	-4	0	7	1.0	24
7	1	0	2	4	118	23	4	5	6	4	8	6	3	9	8	5	5	5	6	8	66	88	201	120	201	29.4	24
8	55	-1	5	10	6	3	6	9	9	22	23	16	17	7	9	17	9	6	23	42	51	11	13	15	55	16.0	24
9	18	39	31	16	38	12	17	25	6	4	6	7	7	16	11	8	7	10	24	32	32	25	41	17	41	18.7	24
10	9	19	12	27	20	21	14	13	13	26	37	24	25	21	8	7	2	-1	2	2	4	5	5	6	37	13.4	24
11	5	5	4	2	2	3	3	4	5	6	3	0	2	5	4	0	-3	0	1	3	3	-1	1	5	6	2.6	24
12	4	3	5	7	4	0	0	3	3	6	8	39	49	15	19	18	16	21	11	32	41	179	180	23	180	28.6	24
13	162	6	51	111	41	7	2	2	5	6	25	16	26	4	2	0	0	1	2	1	2	4	3	7	162	20.3	24
14	9	57	186	60	214	35	48	75	29	54	41	53	38	12	26	13	11	11	17	10	10	11	11	40	214	44.6	24
15	39	22	3	3	3	3	1	1	1	6	6	1	7	8	4	4	3	3	3	4	5	4	-1	-2	39	5.5	24
16	0	1	1	5	5	2	3	3	0	3	6	15	16	3	4	4	3	1	0	3	3	4	8	4	16	4.0	24
17	-3	-1	0	1	5	6	1	0	6	7	11	12	8	6	4	5	6	5	4	1	2	4	-2	-5	12	3.5	24
18	-4	-1	-1	0	1	3	3	2	2	0	0	-1	1	2	3	3	1	0	0	0	2	3	2	1	3	0.9	24
19	0	-2	2	5	1	0	2	4	1	2	4	1	-4	-3	1	1	1	-1	-2	-1	2	4	3	2	5	1.0	24
20	0	-1	-3	-4	-2	-1	-1	1	5	11	11	8	3	1	6	9	11	18	12	7	5	6	2	4	18	4.5	24
21	6	3	3	2	0	0	2	5	6	1	0	0	2	5	2	-1	-1	2	7	23	5	3	2	5	23	3.4	24
22	5	4	5	3	1	1	3	6	9	12	15	13	12	12	10	9	16	7	31	42	35	7	6	7	42	11.3	24
23	7	5	6	8	11	19	16	13	10	10	9	7	9	10	9	9	8	9	9	4	3	6	32	96	96	13.5	24
24	76	12	16	10	12	9	3	1	1	3	4	3	4	5	6	6	5	3	2	-1	-2	-1	3	4	76	7.7	24
25	8	8	85	3	0	1	18	15	-2	3	23	34	19	25	23	29	4	84	51	27	9	10	11	9	85	20.7	24
26	6	7	7	7	7	4	2	2	5	4	3	2	1	5	4	2	3	3	2	1	5	82	25	29	82	9.1	24
27	13	11	6	4	6	4	2	6	11	10	7	4	4	2	2	5	4	5	4	1	1	2	2	1	13	4.9	24
28	1	1	3	5	6	5	4	6	5	1	1	3	4	8	6	1	2	3	2	2	4	6	25	3	25	4.5	24
29	2	22	15	133	13	14	32	70	71	29	54	32	8	7	3	2	3	4	1	2	5	2	1	-2	133	21.8	24
30	-5	2	22	2	2	1	2	23	9	12	14	7	1	3	4	2	5	4	2	19	11	70	259	340	340	33.8	24
HOURLY MAX	162	57	186	133	214	35	48	75	71	54	54	67	49	30	26	29	16	84	51	42	66	179	259	340			
HOURLY AVG	14.3	7.8	16.0	14.6	17.6	6.2	6.3	9.9	7.5	8.4	11.2	13.5	11.9	8.5	7.1	6.6	5.0	7.7	8.0	9.2	10.2	17.9	27.8	24.4			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

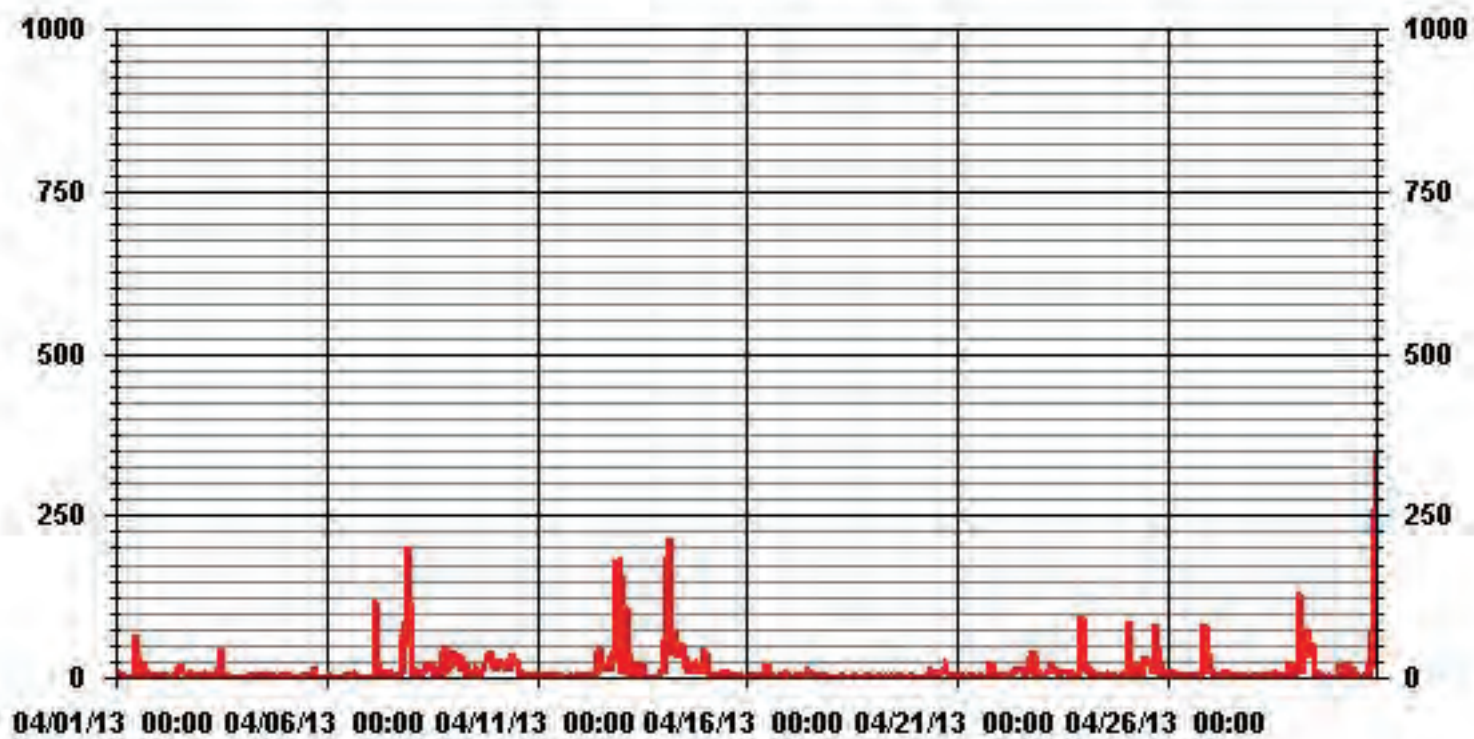
24 HOUR AVERAGES FOR APRIL 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	623				
MAXIMUM 1-HR AVERAGE:	340	ug/m3	@ HOUR(S)	23	ON DAY(S) 30
MAXIMUM 24-HR AVERAGE:	44.6	ug/m3			ON DAY(S) 14
					VAR-VARIOUS
MONTHLY CALIBRATION TIME:	0	HRS			
OPERATIONAL TIME:	720	HRS			
AMD OPERATION UPTIME:	100.0	%			
STANDARD DEVIATION:	27.44		MONTHLY AVERAGE:	11.57	ug/m3

01 Hour Averages



— EKATI TSP UG/M3

BHP Billiton Diamonds Inc. - EKATI

MAY 2013

TOTAL SUSPENDED PARTICULATE (TSP) hourly averages in ug/m3

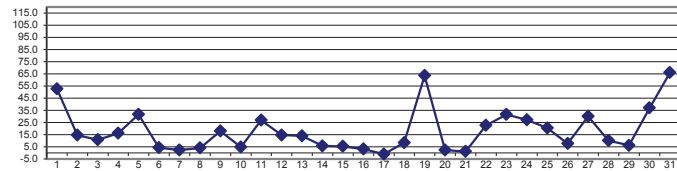
MST

DAY	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
1	326	30	39	90	58	42	100	49	26	45	36	73	43	32	29	37	29	20	27	34	11	19	34	35	326	52.7	24
2	30	28	16	40	40	19	1	6	19	23	19	29	8	5	1	0	2	6	6	6	8	11	11	16	40	14.6	24
3	18	9	10	13	13	7	4	7	8	10	9	27	21	17	21	9	9	7	6	7	6	8	7	6	27	10.8	24
4	15	7	5	7	11	11	9	8	11	27	15	19	43	27	27	47	12	11	11	9	8	20	12	17	47	16.2	24
5	12	11	9	11	31	28	41	43	54	59	51	45	30	63	36	40	39	32	29	37	25	13	11	9	63	31.6	24
6	6	3	5	5	4	5	6	6	5	5	1	1	2	3	4	4	6	5	4	5	5	5	4	6	6	4.4	24
7	6	4	1	-3	-2	1	4	1	1	2	3	7	5	4	3	2	2	4	2	-1	2	3	2	4	7	2.4	24
8	2	1	3	2	1	2	4	9	7	4	5	3	1	-1	0	-1	-5	-4	1	1	1	2	28	33	33	4.1	24
9	73	43	123	58	54	14	33	0	7	8	1	2	3	1	-1	-1	-1	6	11	1	-4	-1	0	0	123	17.9	24
10	4	7	4	3	2	-1	-2	1	1	7	7	3	1	0	-1	-2	-2	-2	-3	-3	1	17	77	77	77	4.9	24
11	107	101	81	36	37	0	2	8	12	174	23	5	7	4	26	1	1	0	1	2	3	4	7	6	174	27.0	24
12	0	-1	2	33	1	3	0	-2	-2	0	5	190	-1	0	21	14	18	6	17	15	9	9	7	9	190	14.7	24
13	20	16	32	14	22	13	12	28	18	30	22	25	18	1	4	8	9	6	5	8	3	3	10	10	32	14.0	24
14	5	2	4	4	6	4	3	5	2	4	6	23	23	12	6	1	1	5	10	6	3	3	0	0	23	5.8	24
15	2	2	1	5	10	11	11	16	14	9	7	9	5	0	0	3	6	8	3	0	1	2	4	1	16	5.4	24
16	4	3	3	6	5	7	9	9	6	4	1	-1	2	2	0	2	4	3	1	4	3	1	0	-2	9	3.2	24
17	-2	3	3	-4	-3	0	0	-2	-3	-2	-2	-3	-5	-5	-5	-5	-5	-1	0	18	-2	-2	0	1	18	-1.1	24
18	0	-1	0	2	2	1	2	3	3	6	6	2	1	0	3	4	3	2	3	25	0	64	49	23	64	8.5	24
19	35	12	18	25	12	15	23	18	33	9	28	15	44	42	46	100	98	125	159	156	33	56	224	199	224	63.5	24
20	48	21	3	2	1	-3	-4	-3	-4	-2	-1	-1	-2	-2	0	1	3	2	-3	-2	0	0	2	1	48	2.4	24
21	1	0	-4	-2	1	2	3	1	1	7	7	2	3	0	-3	-4	4	5	-2	1	1	2	5	7	7	1.1	24
22	25	0	3	46	8	7	8	12	8	6	12	12	10	15	8	7	16	20	19	17	2	7	161	116	161	22.7	24
23	101	52	60	43	15	4	8	13	19	50	20	13	29	34	27	56	45	32	34	3	18	12	37	33	101	31.6	24
24	17	5	9	8	3	3	4	25	4	4	6	9	28	22	52	54	58	69	85	82	32	61	7	7	85	27.3	24
25	8	17	55	210	60	40	101	6	2	2	4	-1	-2	-1	1	0	-3	-1	-2	-1	-1	-1	-1	1	210	20.5	24
26	3	4	16	2	2	3	4	3	3	0	0	-2	0	2	-1	1	0	0	4	6	3	21	57	53	57	7.7	24
27	40	11	22	30	66	11	25	30	15	11	39	15	16	25	22	16	36	20	17	46	22	25	96	65	96	30.0	24
28	69	78	72	20	6	4	0	-3	-1	1	-3	-3	-2	-3	-1	0	0	-2	-1	3	2	2	2	3	78	10.1	24
29	3	6	9	6	3	2	7	7	2	0	3	7	20	6	5	8	13	8	3	2	2	3	2	23	23	6.3	24
30	14	13	38	90	4	1	-1	2	1	-1	2	4	19	13	42	72	45	34	48	26	23	112	154	132	154	37.0	24
31	172	124	26	0	0	0	2	4	2	3	15	14	33	16	24	34	-3	39	6	3	5	66	516	482	516	66.0	24
HOURLY MAX	326	124	123	210	66	42	101	49	54	174	51	190	44	63	52	100	98	125	159	156	33	112	516	482			
HOURLY AVG	37.5	19.7	21.5	25.8	15.2	8.2	13.5	10.1	8.8	16.1	11.2	17.7	13.0	10.9	12.9	16.4	13.9	15.0	16.4	16.5	7.1	17.1	47.2	44.2			

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

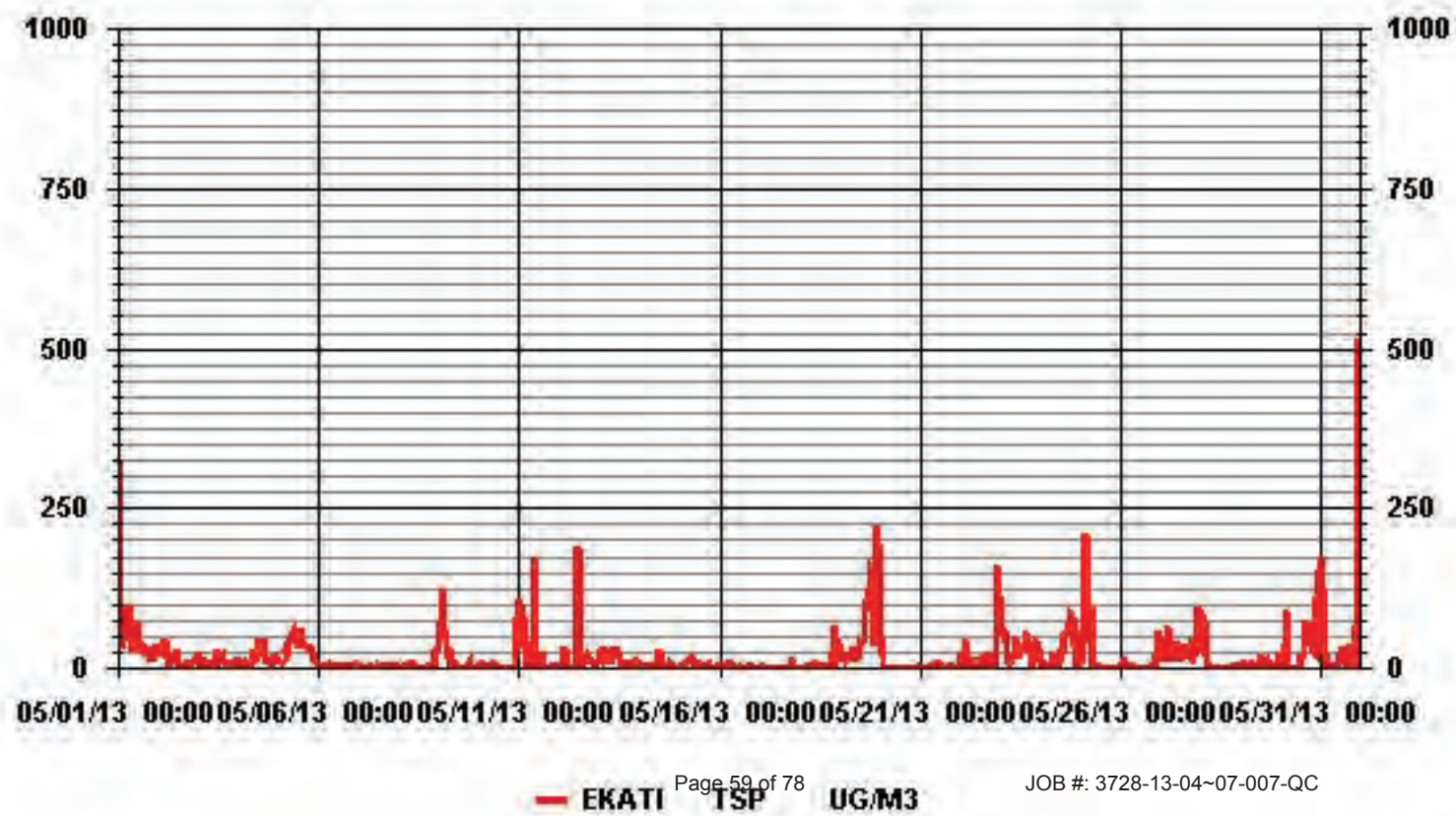
24 HOUR AVERAGES FOR MAY 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	613				
MAXIMUM 1-HR AVERAGE:	516 ug/m3	@ HOUR(S)	22	ON DAY(S)	31
MAXIMUM 24-HR AVERAGE:	66.0 ug/m3			ON DAY(S)	31
				VAR-VARIOUS	
MONTHLY CALIBRATION TIME:	0 HRS	OPERATIONAL TIME:	744 HRS		
STANDARD DEVIATION:	39.82	AMD OPERATION UPTIME:	100.0 %		
		MONTHLY AVERAGE:	18.17 ug/m3		

01 Hour Averages



BHP Billiton Diamonds Inc. - EKATI

JUNE 2013

TOTAL SUSPENDED PARTICULATE (TSP) hourly averages in ug/m3

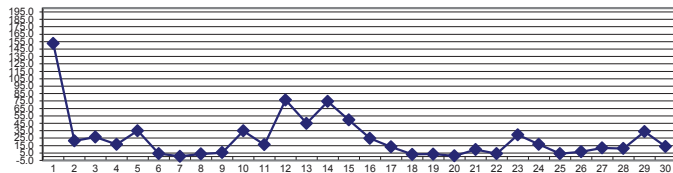
MST

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	DAILY MAX.	24-HOUR AVG.	RDGS.
1	274	64	353	651	367	175	175	80	47	486	139	45	39	92	63	115	44	1	61	70	38	113	77	93	651	152.6	24						
2	114	23	33	50	17	9	9	11	10	21	18	15	10	7	6	19	19	6	32	11	11	19	21	20	114	21.3	24						
3	35	20	25	13	31	22	1	5	10	10	19	26	8	26	36	25	33	14	34	17	13	93	79	41	93	26.5	24						
4	22	10	6	2	7	8	10	10	11	13	13	11	8	3	16	33	35	16	17	6	15	40	49	37	49	16.6	24						
5	30	35	11	11	15	6	10	13	18	14	10	19	14	44	129	33	32	36	48	24	92	X	X	124	129	34.9	22						
6	6	4	2	1	2	3	0	-3	0	7	9	10	30	8	3	2	4	3	15	3	0	-2	-4	-1	30	4.3	24						
7	5	4	1	-2	-2	0	2	0	-1	0	1	2	0	-1	1	3	4	0	-2	1	-3	-2	2	0	5	0.5	24						
8	-2	-1	0	2	3	18	1	3	7	10	8	2	5	6	4	5	-2	-1	1	2	4	3	4	5	18	3.6	24						
9	4	2	1	2	3	5	1	1	3	1	0	0	3	3	3	5	7	7	6	5	3	6	9	53	53	5.5	24						
10	55	58	108	62	13	31	18	26	15	15	7	7	7	5	26	40	27	32	66	79	29	57	32	20	108	34.8	24						
11	21	20	26	17	23	14	26	24	8	8	19	26	34	18	52	17	4	5	4	2	6	6	5	5	52	16.3	24						
12	2	3	6	4	4	5	4	2	-1	1	6	5	6	11	24	70	55	80	114	70	204	762	359	37	762	76.4	24						
13	30	24	57	34	38	44	69	73	11	Y	Y	Y	11	12	31	Y	Y	Y	Y	150	Y	Y	Y	Y	150	44.9	13						
14	Y	Y	Y	Y	Y	Y	25	34	77	66	17	24	33	32	50	67	48	36	28	49	50	614	62	26	614	74.3	18						
15	33	84	18	74	32	19	15	16	C	C	C	200	Y	Y	16	2	35	15	15	16	10	52	262	25	262	49.4	22						
16	11	9	16	5	5	3	2	16	11	12	16	3	3	3	5	6	6	7	16	51	26	113	96	151	151	24.7	24						
17	2	1	36	10	8	7	24	14	33	24	15	22	13	13	13	18	9	18	19	3	6	6	1	2	36	13.2	24						
18	5	4	8	8	3	3	1	2	3	1	1	-1	-3	4	10	7	6	2	1	2	1	1	2	3	10	3.1	24						
19	2	6	17	10	9	7	7	8	5	-1	2	5	2	-1	-3	1	4	2	0	-1	-2	-1	2	5	17	3.5	24						
20	5	3	-1	-1	4	2	1	2	2	4	3	-1	-2	0	3	3	0	1	-1	-1	2	1	0	-1	5	1.2	24						
21	0	5	5	15	34	83	41	9	6	3	3	4	3	3	3	3	2	-2	-1	2	2	3	5	3	83	9.8	24						
22	4	4	2	3	5	2	0	0	1	5	2	0	4	3	3	5	2	2	5	4	4	7	18	10	18	4.0	24						
23	70	13	29	9	52	182	103	25	5	1	0	2	4	7	4	1	2	3	2	1	6	11	85	86	182	29.3	24						
24	102	26	13	24	30	60	50	9	6	3	4	3	0	3	6	20	15	16	4	1	1	3	1	2	102	16.8	24						
25	3	5	5	7	7	2	2	3	4	3	1	2	5	2	0	3	0	2	8	4	-1	15	10	7	15	4.1	24						
26	6	6	15	5	6	9	7	0	0	3	2	1	4	6	4	4	6	6	7	7	4	-1	25	27	27	6.6	24						
27	37	14	26	24	22	15	24	11	8	5	7	10	7	4	3	3	15	10	6	1	2	3	3	22	37	11.8	24						
28	50	21	104	4	4	6	8	5	4	3	1	0	2	7	7	5	5	2	2	0	2	3	5	16	104	11.1	24						
29	50	88	72	77	195	57	99	61	20	11	10	5	3	4	2	-3	-4	3	5	4	3	1	4	44	195	33.8	24						
30	26	29	9	10	41	56	46	11	10	9	9	6	5	5	4	4	6	6	5	6	7	7	6	5	56	13.7	24						
HOURLY MAX	274	88	353	651	367	182	175	80	77	486	139	200	39	92	129	115	55	80	114	150	204	762	359	151									
HOURLY AVG	34.6	20.1	34.6	39.0	33.7	29.4	26.0	15.7	11.5	26.4	12.2	15.6	8.9	11.3	17.5	17.8	14.4	11.3	17.8	19.6	18.4	69.0	43.6	29.9									

STATUS FLAG CODES

C	- CALIBRATION	Q	- QUALITY ASSURANCE
Y	- MAINTENANCE	R	- RECOVERY
S	- DAILY ZERO/SPAN CHECK	X	- MACHINE MALFUNCTION
P	- POWER FAILURE	O	- OPERATOR ERROR
G	- OUT FOR REPAIR	K	- COLLECTION ERROR

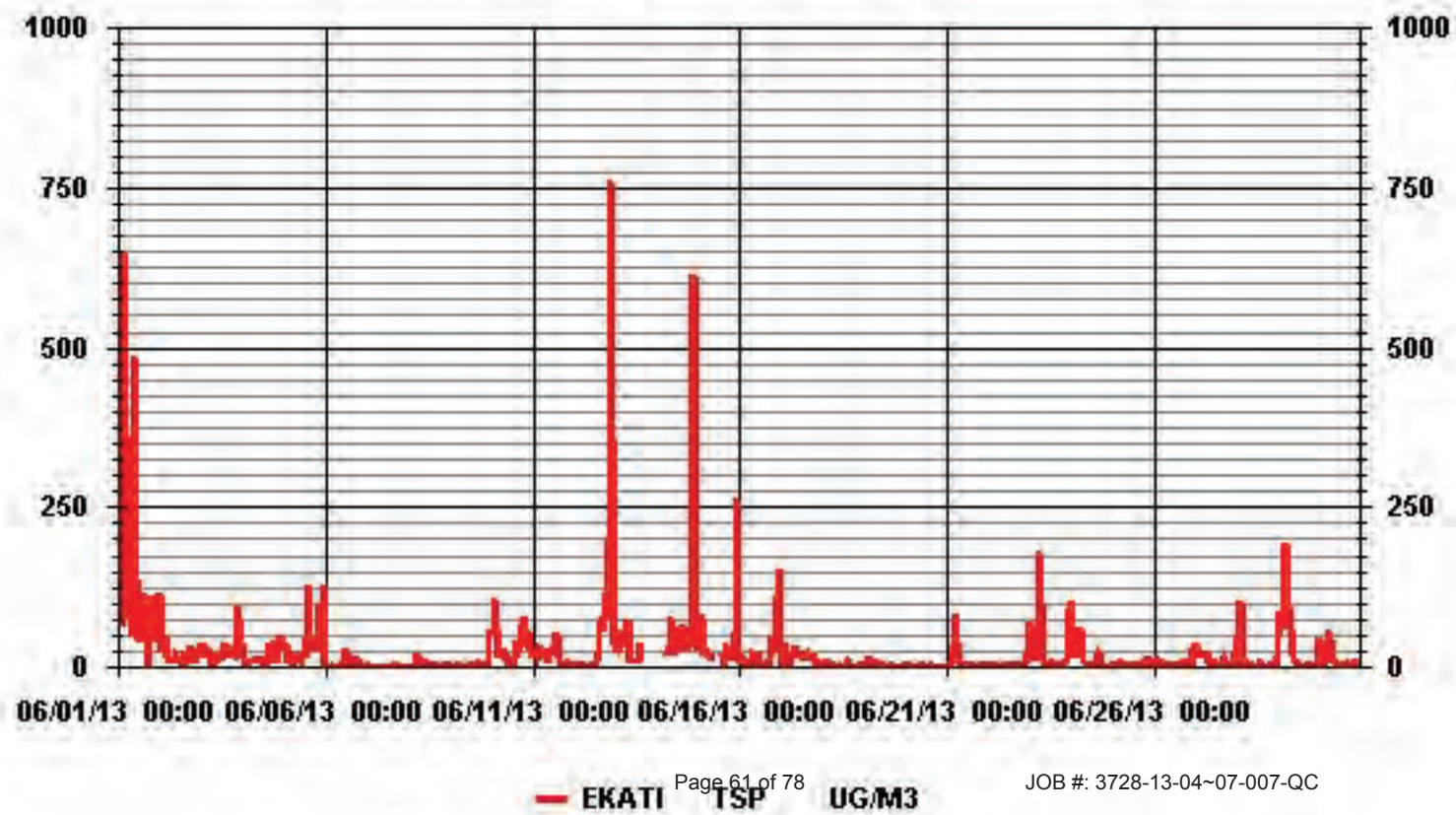
24 HOUR AVERAGES FOR JUNE 2013



MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	631				
MAXIMUM 1-HR AVERAGE:	762 ug/m3	@ HOUR(S)	21	ON DAY(S)	12
MAXIMUM 24-HR AVERAGE:	152.6 ug/m3			ON DAY(S)	1
				VAR-VARIOUS	
MONTHLY CALIBRATION TIME:	3 HRS	OPERATIONAL TIME:	699 HRS		
		AMD OPERATION UPTIME:	97.1 %		
STANDARD DEVIATION:	60.73	MONTHLY AVERAGE:	24.0 ug/m3		

01 Hour Averages



Calibration Reports

Sulphur Dioxide

Station Information

Equipment Information					
Analyzer Make / Model:	API 100E	S/N :	1232	Method:	Fluorescent
Converter Make / Model:	NA	S/N :	NA		
Calibrator Make / Model:	Sabio 2010	S/N :	042531101(0911)	Method:	Dilution
DAS Make / Model:	Envidas/ADAM 5000	S/N :	NA		
Chart Recorder Make / Model:	NA	S/N :	NA		
Flow Meter:		S/N :			

Analyzer Settings

	Before Calibration				After Calibration			
Concentration Range	0-500ppb				ppb			
Sample Flow / Box Temp	632	ccm	27.4	Deg C	632	ccm	30.6	Deg C
HVPS / Lamp Setting	575		2755(100%)		575		2755(100%)	
PMT / RxCell Temp	8.2	Deg C	50	Deg C	8.2	Deg C	50	Deg C
Converter / IZS Temp	na	Deg C	40	Deg C	na	Deg C	40.0	Deg C
Offset / Slope	45.7		1.088		45.7		1.088	

Calibration Data

Calibration Data				
Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
5000	0	0	0	0.0000
4962	38.3	371	380	0.9756
		Sum of Least Squares New Correction Factor		0.9756

IZS Calibration Data

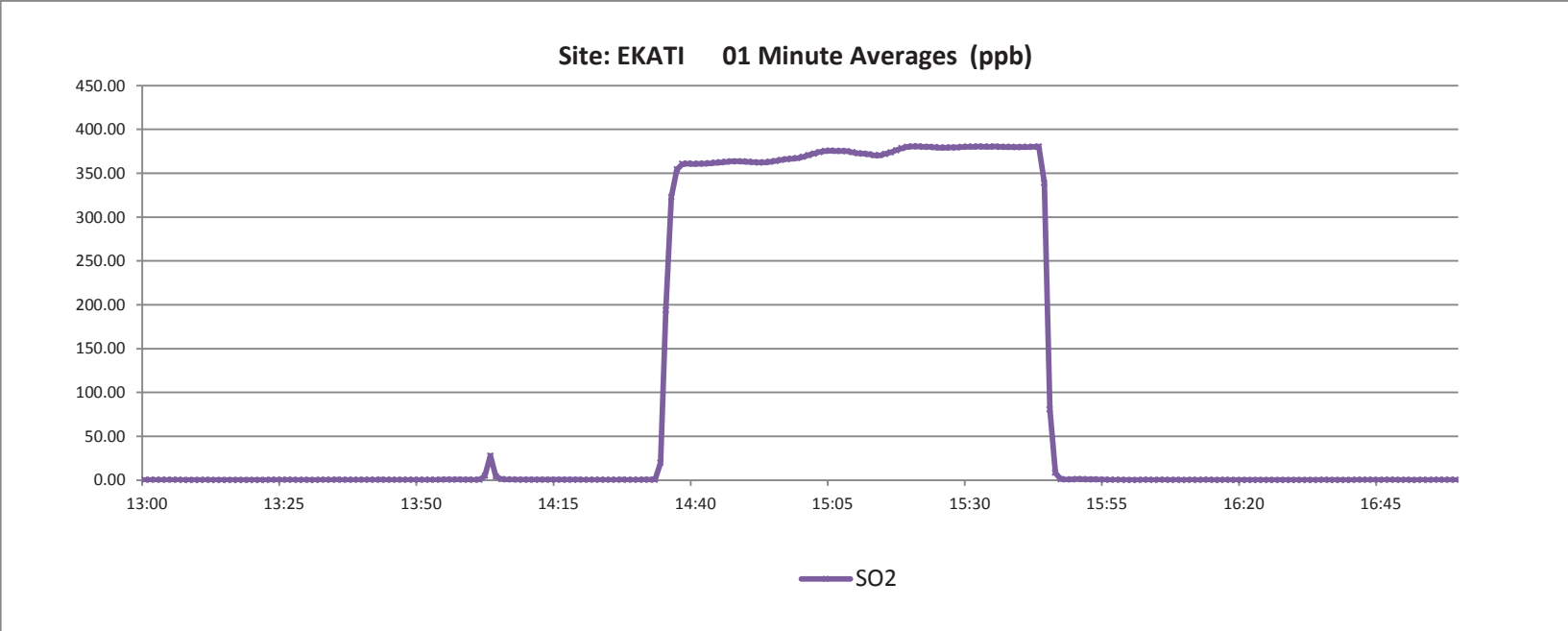
Calibration Data		
	Before Calibration	After Calibration
Auto Zero	0.0	0.0
Auto Span	328.0	328.0
Sample Lines Connected		Yes

Percent Change

Previous Month's Calibration Correction Factor:	1.0000
Current Correction Factor Before Span Adjust:	0.9756
Percent Change:	2.5%

Notes:

Calibration Performed by: Limin Li



SO₂ Calibration Report

Station Information

Calibration Date	June 14, 2013	Previous Calibration	March 21, 2013
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	5:40	End Time (MST)	11:30
Reason:	Post repair		
Barometric Pressure	28.37	inHg	Station Temperature 19 Deg C
Cal Gas	48.4	ppm	Gas Cyl. # LL105149 Cal Gas Expiry date September 13, 2013
DAS Output Voltage	0-5	Volts	Chart Rec. Output NA Volts

Equipment Information

Analyzer Make / Model:	API 100E	S/N :	1232	Method:	Fluorescent
Converter Make / Model:	NA	S/N :	NA		
Calibrator Make / Model:	Sabio 2010	S/N :	042531101(0911)	Method:	Dilution
DAS Make / Model:	Envidas/ADAM 5000	S/N :	NA		
Chart Recorder Make / Model:	NA	S/N:	NA		
Flow Meter:		S/N :			

Analyzer Settings

		Before Calibration				After Calibration			
Concentration Range		0-500ppb				ppb			
Sample Flow / Box Temp	638	ccm	27.4	Deg C	635	ccm	29.5	Deg C	
HVPS / Lamp Setting	-575		2759(100.1%)		-575		2756(100%)		
PMT / RxCell Temp	8.2	Deg C	50	Deg C	8.2	Deg C	50	Deg C	
Converter / IZS Temp	na	Deg C	40	Deg C	na	Deg C	45.0	Deg C	
Offset / Slope	45.7		1.088		45.7		1.056		

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
5000	0	0	0	0.0000
	No Zero Adj.			
4962	38.3	371	371	1.0000
4981	19.2	186	189	0.9833
4990	10.2	99	102	0.9680
5000	0	0	0	0.0000
Sum of Least Squares				0.9945
New Correction Factor				1.0000

IZS Calibration Data

Before Calibration		After Calibration	
Auto Zero	0.0	Auto Zero	0.0
Auto Span	369.0	Auto Span	277.0
Sample Lines Connected		Sample Lines Connected	Yes

Percent Change

Previous Month's Calibration Correction Factor:	1.0000
Current Correction Factor Before Span Adjust:	1.0000
Percent Change:	0.0%

Notes:

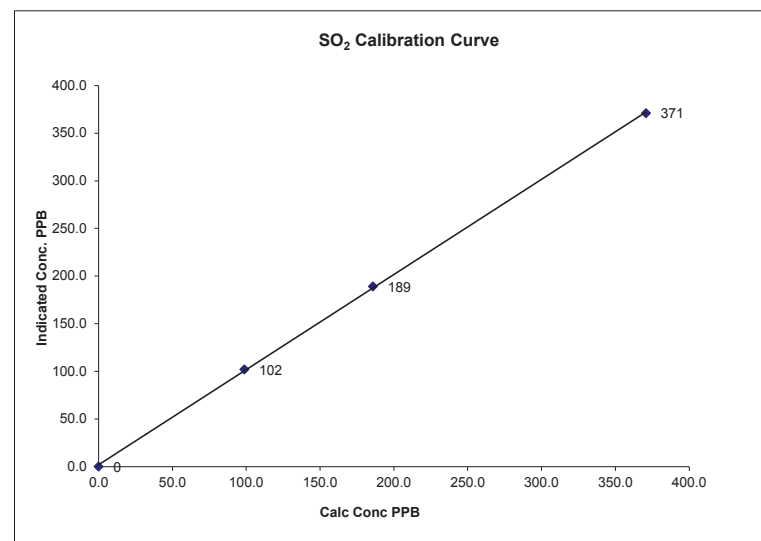
On June 12, 2013, change perm tube and rebuilt pump.
 On June 13, 2013, renew charcol. Adjust Z/S oven temperature from 40 to 45 degree.
 Sample flow rate 627ccm.
 Change expected span value to 262.8 on June 16, 2013.

Calibration Performed by: Limin Li

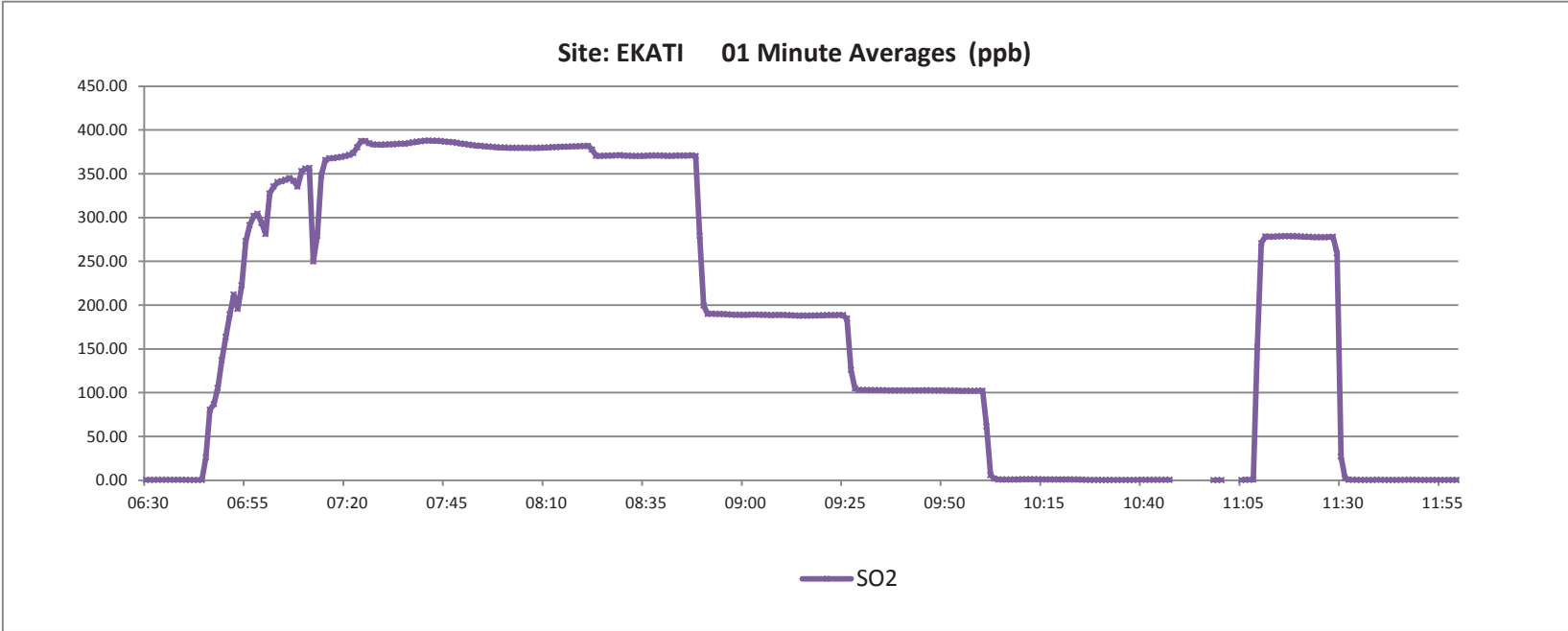
SO₂ Calibration Curve

Calibration Date	June 14, 2013		
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	5:40	End Time (MST)	11:30

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) (± 3% F.S.)
0	0	0.0000		0.999874
99	102	0.9680		0.998847
186	189	0.9833		1.863310
371	371	1.0000		



Notes:



Nitrogen Dioxide

NOx - NO- NO₂ Calibration Report

Station Information

Calibration Date	June 13, 2012	Previous Calibration	March 21, 2012
Company	BHP Billiton Diamonds Inc.	Plant/Location	EKATI Mine
Start Time (MST)	14:00	End Time (MST)	15:40
Reason:			
Barometric Pressure	28.53 inHg	Station Temperature	19 Deg C
Cal Gas Concentration	NOx 52.4 ppm NO 52.2 ppm	Cal Gas Expiry date	MFCF September 13, 2013
Cal Gas Cylinder #	LL105149		
DAS Output Voltage	0-5 Volts	Chart Rec. Output	na Volts

Equipment Information

Analyzer Make / Model:	API 200E	S/N :	1375	Method:	Chemiluminescent
Calibrator Make / Model:	Sabio 2010	S/N:	042531101(0911)		
DAS Make / Model:	Envigas/ADAM 5000	S/N :	na		
Chart Recorder Make / Model:	na	S/N:	na		
Flow Meter:		S/N :			

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range			0-500				
Sample Flow/Conv. Temp	445 ccm	316.8 Deg C		446 ccm	314 Deg C		
Ozone Flow / Vacuum	79 ccm	4.6 "Hg-A		79 ccm	4.6 "Hg-A		
HVPS / A ZERO	-716 Volts	3.5 MV		-716 Volts	2.3 MV		
Rx/ Temp / PMT Temp	50.0 Deg C	6.7 Deg C		50.0 Deg C	6.7 Deg C		
Box Temp / IZS Temp	31.9 Deg C	50.3 Deg C		34.5 Deg C	50 Deg C		
Offset	1.4 NOx	0.5 NO		1.4 NOx	0.5 NO		
Slope	1.048 NOx	1.049 NO		1.048 NOx	1.049 NO		
NO ₂ COEF / Conv Efficiency	na NO2	0.966		na NO2	0.966		

Dilution Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			Correction Factor	
			NOx	NO	NO2	NOx	NO	NO2	NOx	NO
5000	0.0	0	0	0	0	1	0	1	0	0
4962	38.3	0	401	400	0	400	399	3	1.0059	1.0021

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			NO ₂ Correction Factor	NO2 Conv Efficiency
			NOx	NO	NO2	NOx	NO	NO2		

Linearity OK?	Yes	No	Sum of Least Squares Correction Factors:	NOx= 1.0059	NO= 1.0021	NO2= 1.0021
				Average Converter Efficiency=		

IZS Calibration Data

	Before Calibration				After Calibration			
	0.0 NOx	0.0 NO2			0.0 NOx	0.0 NO2		
Auto Zero	241 NOx	238 NO2			241 NOx	238 NO2		
Auto Span	Sample Lines Connected				Yes			

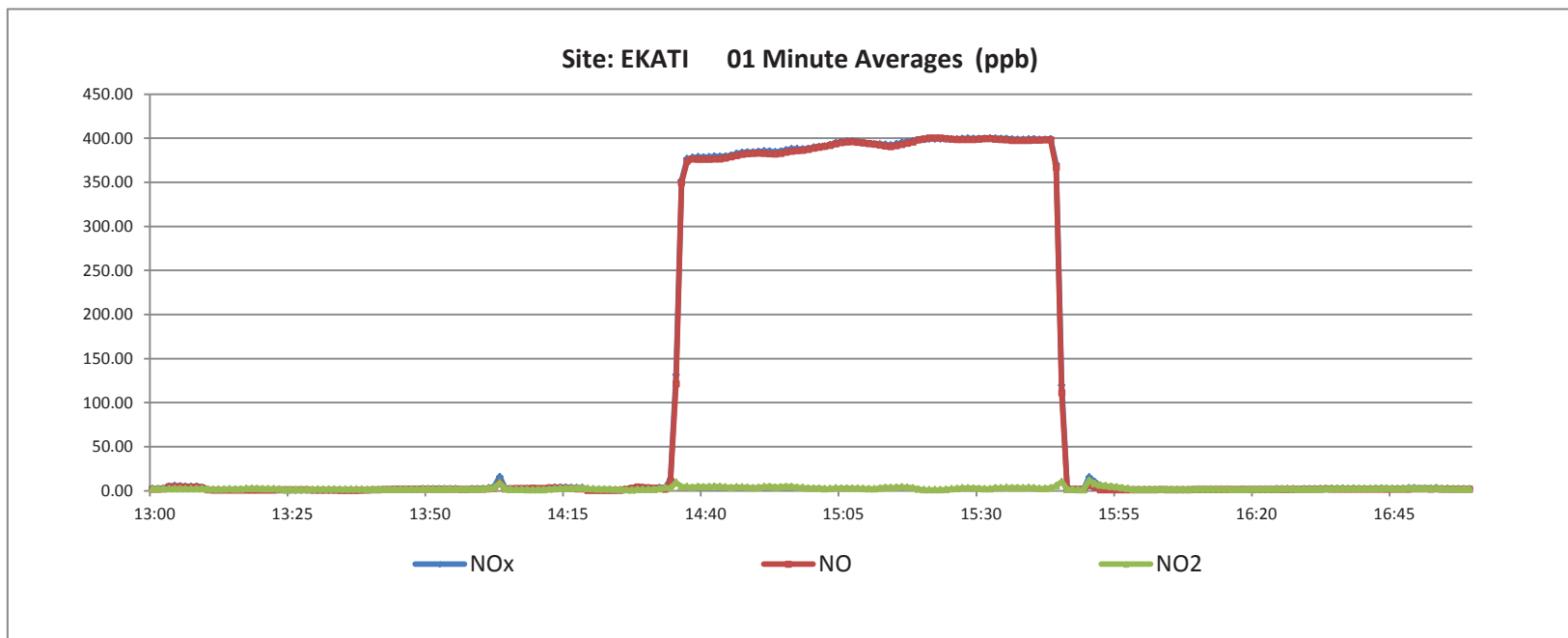
Percent Change

	NOx	NO	NO2
Previous Month's Calibration Correction Factor	1.000	1.000	0.998
Current Correction Factor Before Span Adjust	1.006	1.002	
Percent Change	-0.6%	-0.2%	

Notes

Unstable zero and first point. Check find the sample filter holder was not tightened. Leak.

Calibration Performed by: Limin Li



NOx - NO- NO2 Calibration Report

Station Information

Calibration Date	June 14, 2013	Previous Calibration	March 21, 2013
Company	BHP Billiton Diamonds Inc.	Plant/Location	EKATI Mine
Start Time (MST)	5:40	End Time (MST)	14:20
Reason:	Post Repair		
Barometric Pressure	28.37 inHg	Station Temperature	19 Deg C
Cal Gas Concentration	NOx 52.4 ppm	NO 52.2 ppm	Cal Gas Expiry date September 13, 2013
Cal Gas Cylinder #	LL105149		
DAS Output Voltage	0-5 Volts	Chart Rec. Output	na Volts

Equipment Information

Analyzer Make / Model:	API 200E	S/N :	1375	Method:	Chemiluminescent
Calibrator Make / Model:	Sabio 2010	S/N:	042531101(0911)		
DAS Make / Model:	Envivas/ADAM 5000	S/N :	na		
Chart Recorder Make / Model:	na	S/N:	na		
Flow Meter:		S/N :			

Analyzer Settings

Before Calibration				After Calibration			
Concentration Range		0-500					
Sample Flow/Conv. Temp	441 ccm	315.3 Deg C		442 ccm	314 Deg C		
Ozone Flow / Vacuum	79 ccm	4.7 °Hg-A		79 ccm	4.6 °Hg-A		
HVPS / A ZERO	-716 Volts	3.8 MV		-716 Volts	3.6 MV		
Rx/ Temp / PMT Temp	50.0 Deg C	6.6 Deg C		50.0 Deg C	6.7 Deg C		
Box Temp / IZS Temp	31.1 Deg C	40.1 Deg C		33.6 Deg C	40 Deg C		
Offset	1.4 NOx	0.5 NO		1.4 NOx	0.5 NO		
Slope	1.048 NOx	1.049 NO		0.929 NOx	0.930 NO		
NO2 COEF / Conv Efficiency	na NO2	0.966		na NO2	0.966		

Dilution Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			Correction Factor	
			NOx	NO	NO2	NOx	NO	NO2	NOx	NO
5000	0.0	0	0	0	0	0	0	0	0	0
	No Zero Adj.									
4962	38.3	0	401	400	0	401	400	1	1.0000	1.0000
	No Span Adj.									
4981	19.2	0	201	200	0	205	204	1	0.9815	0.9825
4990	10.2	0	107	106	0	111	110	1	0.9630	0.9680
5000	0.0	0	0	0	0	0	0	0	0.0000	0.0000

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration			Indicated Concentration			NO2 Correction Factor	NO2 Conv Efficiency
			NOx	NO	NO2	NOx	NO	NO2		
4962	38.3	0	401	400	0	402	401	1	0	0.00%
4962	38.3	300	401	0.0	278	403	124	279	0.9964	100.36%
4962	38.3	150	401	0.0	169	401	233	168	1.0060	99.40%
4962	38.3	75	401	0.0	70	401	332	69	1.0145	98.55%

Linearity	Sum of Least Squares	NOx= 0.995	NO= 0.995	NO2= 1.000
OK?	Correction Factors:	NOx= 1.0000	NO= 1.0000	NO2= 0.9964
		Average Converter Efficiency= 99.44%		

IZS Calibration Data

Before Calibration				After Calibration			
Auto Zero	0.0 NOx	0.0 NO2		0.0 NOx	0.0 NO2		
Auto Span	247 NOx	243 NO2		337 NOx	331 NO2		
Sample Lines Connected:				Yes			

Percent Change

	NOx	NO	NO2
Previous Month's Calibration Correction Factor	1.000	1.000	0.998
Current Correction Factor Before Span Adjust	1.000	1.000	0.996
Percent Change	0.0%	0.0%	0.2%

Notes: On June 12, 2013, change perm tube, clean reaction cell, clean orifices. Change o-rings.

Change sinter filters. Clean valves. Adjust Z/S oven temperature from 50 to 40 degree.

Sample flow rate 470ccm.

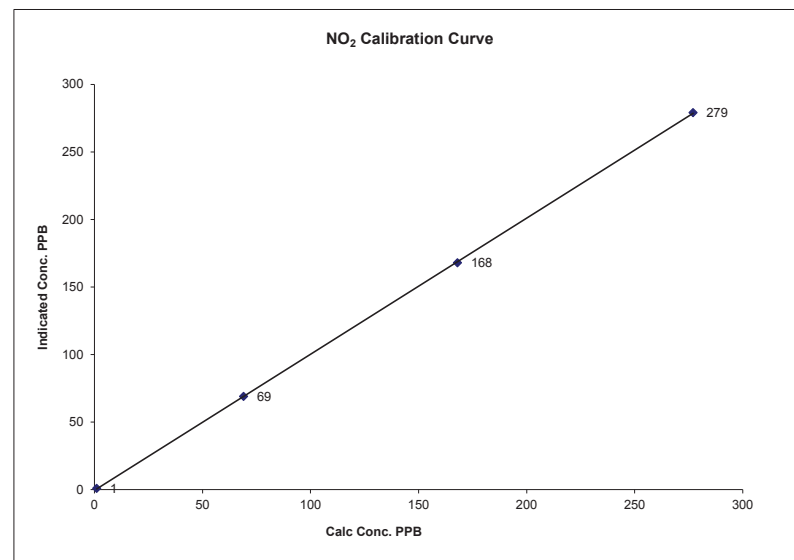
Change expected span value to NOX:328.6 & NO:323.5 on June 16, 2013.

Calibration Performed by: Limin Li

NO2 Calibration Curve

Calibration Date	June 14, 2013
Company	BHP Billiton Diamonds Inc.
Plant / Location	EKATI Mine
Start Time (MST)	5:40
End Time (MST)	14:20

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) (± 3% F.S.)
1	1	0.0000		0.999978
69	69	1.0000		1.006830
168	168	1.0000		-0.37942
277	279	0.9928		

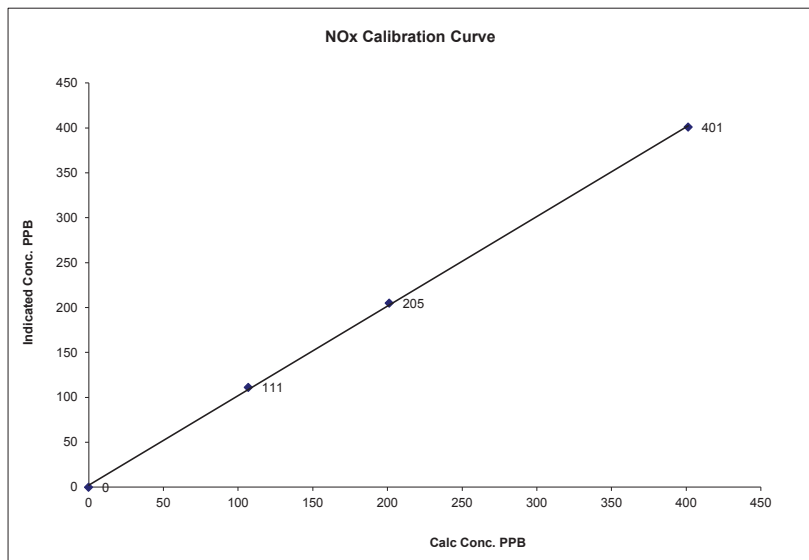


Notes:

NOx Calibration Curve

Calibration Date	June 14, 2013		
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	5:40	End Time (MST)	14:20

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) ($\pm 3\%$ F.S.)	0.999812 0.996791 2.45429
0	0	0.0000			
107	111	0.9630			
201	205	0.9815			
401	401	1.0000			

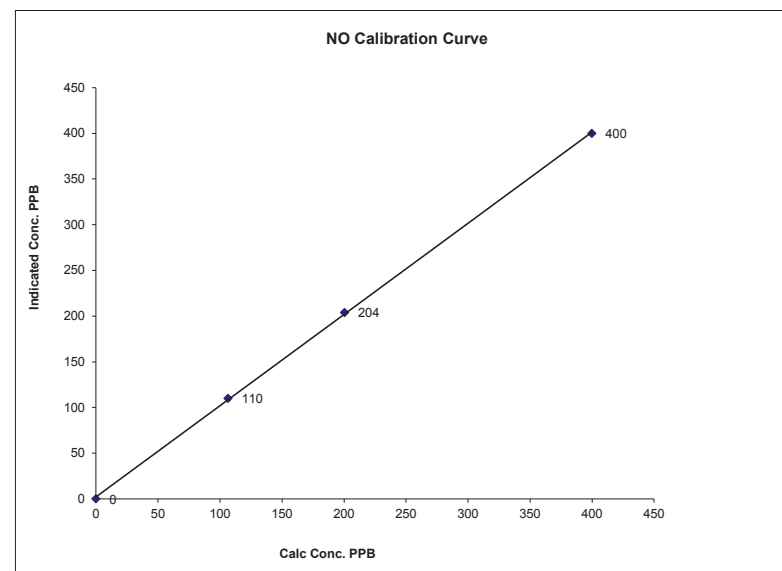


Notes:

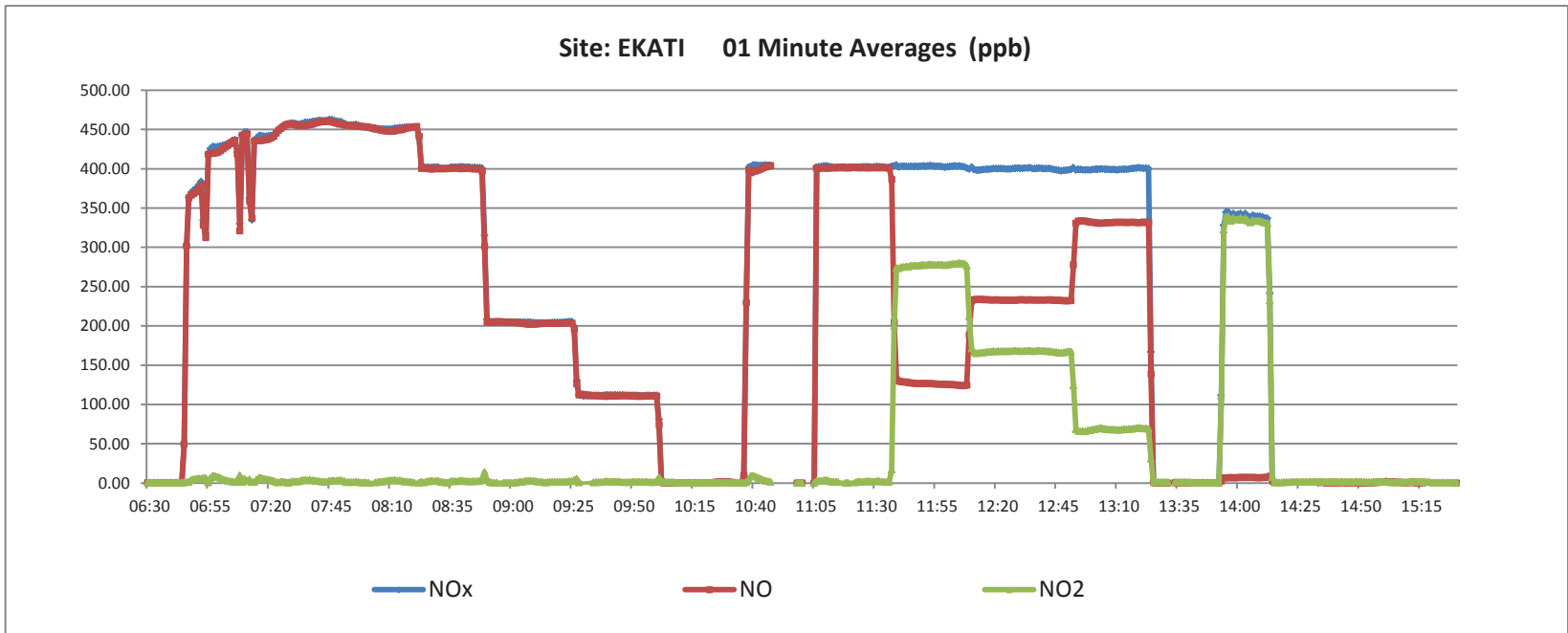
NO Calibration Curve

Calibration Date	June 14, 2013		
Company	BHP Billiton Diamonds Inc.		
Plant / Location	EKATI Mine		
Start Time (MST)	5:40	End Time (MST)	14:20

Calculated Conc. ppb	Indicated Response ppb	Correction Factor	Correlation Coefficient Slope Intercept	(≥ 0.995) (0.85 to 1.15) ($\pm 3\%$ F.S.)	0.999864 0.998567 2.06518
0	0	0.0000			
106	110	0.9680			
200	204	0.9825			
400	400	1.0000			



Notes:



Particulate Matter 2.5

BAM -1020

Audit Report

Station Information

Date: June 15, 2013
 Company: BHP Billiton Diamonds Inc.
 Location: EKATI Mine
 Station Name: Polar Explosives

Audit Transfer Standard

Make/Model: MNF1868
 Serial Number: FRM1210
 Cell S/N:
 Thermometer S/N: Fluke 87V

Instrument Information

Make/Model: BAM 1020
 Serial Number: F4642
 Unit Number: 2
 Parameter: PM2.5
 Analog Output Voltage: 0-10 vdc
 Flow Type: Actual
 Amb Temperature Sensor Used: Y
 Model Number: BX 592-2 (-50 to +50C)

Mechanical Audit:

Pump Muffler Unclogged: Y
 Sample Nozzel Clean: Y
 Tape Support Vane Clean: Y
 Capstan Shaft Clean: Y
 Rubber Pinch Rollers Clean: Y
 Inlet Clean: Y
 Inlet tube Position Correct: Y
 Water Tight Seal OK: Y

Flow Audit

Note: Tolerances are in (BOLD)

Leak Check Value

Amb Temperature (C)
 Baro Pressure (mmHg)
 Flow Rate (lpm)

0.1 lpm (1.0 lpm)		
BAM	Ref. Std.	Difference
10.6	11.2	-0.6
723	722	1
16.7	16.72	-0.02

Flow Setpoint:

16.7 lpm

Membrane Audit

Last m (mg): 0.813
 ABS (mg): 0.812
 Difference (mg): -0.001
 % Difference: -0.12%

Error Codes (last six)

1 Tape 4 Power fail
 2 Tape 5 Tape
 3 Maintenance 6 Maintenance

Setup and Calibration Values

Range 1.0 mg Flow Set-pt. 16.7
 Units ug/m3 HEATER Auto
 Offset -0.005 AP 150
 Count Time 4min FRI 10
 Cv 1.001 FRh 20
 Qo 0.000 RH Control YES
 ABS 0.812 RH Set-pt. 35%
 u sw 0.287 e1 -0.005
 K factor 0.936 BKRD -0.0099

Comments: Audit from 10:30am. Flow rate calibrate from 17.3 to 17.7

Audited By: Limin Li

Total Suspended Particulate

BAM -1020

Audit Report

Station Information

Date:	June 15, 2013
Company:	BHP Billiton Diamonds Inc.
Location:	EKATI Mine
Station Name:	Polar Explosives

Audit Transfer Standard

Make/Model:	MNF1868
Serial Number:	FRM1210
Cell S/N:	
Thermometer S/N:	Fluke 87V

Instrument Information

Make/Model:	BAM 11020
Serial Number:	F 4641
Unit Number:	1
Parameter:	TSP
Analog Output Voltage:	0-1vdc
Flow Type:	Actual
Amb Temperature Sensor Used:	Y
Model Number:	BX592-2

Mechanical Audit:

Pump Muffler Unclogged:	Y
Sample Nozzel Clean:	Y
Tape Support Vane Clean:	Y
Capstan Shaft Clean:	Y
Rubber Pinch Rollers Clean:	Y
Inlet Clean:	Y
Inlet tube Position Correct:	Y
Water Tight Seal OK:	Y

Flow Audit

Note: Tolerances are in **(BOLD)**

Leak Check Value

Amb Temperature (C)
Baro Pressure (mmHg)
Flow Rate (lpm)

2--0.1	lpm (1.0 lpm)	
BAM	Ref. Std.	Difference
12.2	12.6	-0.4
722	721.4	0.6
16.7	16.33	0.37

Flow Setpoint:

16.7 lpm

Membrane Audit

Last m (mg):	0.813
ABS (mg):	0.813
Difference (mg)	0
% Difference:	0.00%

Error Codes (last six)

1 Power Fail	4 Flow Fail
2 Flow Fail	1 Power Fail
3 Flow Fail	1 Power Fail

Setup and Calibration Values

Range	0-1mg	Flow Set-pt.	16.7
Units	mg/m3	HEATER	Auto
Offset	-0.005	AP	150
Count Time	4min	FRI	10
Cv	0.987	FRh	20
Qo	0.000	RH Control	Yes
ABS	0.813	RH Set-pt.	35%
u sw	0.287	e1	-0.005
K factor	0.965	BKRD	-0.0046

Comments: Audit from 07:300am to 10:30am. As found leak check is 2.0LPM. Check find lot of small holes in sample tape. Clean Sample Nozzel then check leak:0.1LPM. Pass. As found flow rate 16.33LPM.

Audited By:

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Limin Li

JOB #: 3728-13-04-07-007-QC

BAM -1020

Audit Report

Station Information

Date:	June 15, 2013
Company:	BHP Billiton Diamonds Inc.
Location:	EKATI Mine
Station Name:	Polar Explosives

Audit Transfer Standard

Make/Model:	MNF1868
Serial Number:	FRM1210
Cell S/N:	
Thermometer S/N:	Fluke 87V

Instrument Information

Make/Model:	BAM 11020
Serial Number:	F 4641
Unit Number:	1
Parameter:	TSP
Analog Output Voltage:	0-1vdc
Flow Type:	Actual
Amb Temperature Sensor Used:	Y
Model Number:	BX592-2

Mechanical Audit:

Pump Muffler Unclogged:	Y
Sample Nozzel Clean:	Y
Tape Support Vane Clean:	Y
Capstan Shaft Clean:	Y
Rubber Pinch Rollers Clean:	Y
Inlet Clean:	Y
Inlet tube Position Correct:	Y
Water Tight Seal OK:	Y

Flow Audit

Note: Tolerances are in **(BOLD)**

Leak Check Value

0.3	lpm (1.0 lpm)	
BAM	Ref. Std.	Difference
12.5	13.0	-0.5
723	722	1
16.7	16.79	-0.09

Amb Temperature (C)

Baro Pressure (mmHg)

Flow Rate (lpm)

Flow Setpoint:

16.7 lpm

Membrane Audit

Last m (mg):	0.813
ABS (mg):	0.813
Difference (mg)	0
% Difference:	0.00%

Error Codes (last six)

1 Power Fail	4 Flow Fail
2 Flow Fail	4 Flow Fail
3 Flow Fail	4 Flow Fail

Setup and Calibration Values

Range	0-1mg	Flow Set-pt.	16.7
Units	mg/m3	HEATER	Auto
Offset	-0.005	AP	150
Count Time	4min	FRI	10
Cv	0.987	FRh	20
Qo	0.000	RH Control	Yes
ABS	0.813	RH Set-pt.	35%
u sw	0.287	e1	-0.005
K factor	0.965	BKRD	-0.0046

Comments: Audit from 10:30am to 13:00am. Replace Nozzle and Nozzle O-Ring. Clean filter in-line. Clean Inlet tube. Replace Pump Muffler. Flow Calibration. Change sample tape.

Audited By:

Page 78 of 78
Limin Li

JOB #: 3728-13-04-07-007-QC

BHP Billiton Diamonds Inc.
EKATI Diamond Mine
Ambient Air Monitoring Data Report

For
July to September 2013

Prepared By:



September 22, 2014

BHP Billiton Diamonds Inc. EKATI Diamond Mine Ambient Air Monitoring

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Introduction

The following Ambient Air Monitoring report was prepared for:

Mr. Andrew Howton
BHP Billiton Diamonds Inc.
#1102 4920 52nd Street
Yellowknife, NT, X1A 3T1

Monitoring Location: EKATI
Data Period: July to September 2013

The monthly ambient data report:

- Prepared by Lili Zhou
- Reviewed by Lily Lin

Calibration Procedure

The calibrations conducted at the BHP Billiton Diamonds Inc. - EKATI Air Monitoring Station conform to the following Maxxam Standard Operation Procedures:

- CAL SOP-00211
- CAL SOP-00213
- CAL SOP-00215

Conformance of each calibration to Alberta Environment regulations is outlined in the individual calibration reports. The slope and correlation coefficient are derived from the calculated and indicated analyzer responses. The percent change is calculated using the previous calibration correction factor and the current correction factor before adjustment. All calibration's and maintenance conforms to the procedures outlined in the *Air Monitoring Directive, Appendix A-10, Section 1.6*.

Monthly Continuous Data Summary

BHP Billiton Diamonds Inc. - EKATI

Continuous Ambient Monitoring – July 2013

BHP Billiton Diamonds Inc.- EKATI		MAXIMUM VALUES					OPERATIONAL TIME (PERCENT)
		1-HOUR			24-HOUR		
PARAMETER	MONTHLY AVERAGE	READING	DAY	HOUR	READING	DAY	
SO ₂ (PPB)	0.41	3	10	0	1.3	10	100.0
NO ₂ (PPB)	2.38	29	10	0	12.1	10	100.0
NO (PPB)	4.00	163	10	0	40.7	10	100.0
NO _x (PPB)	5.26	191	10	0	51.8	10	100.0
PM _{2.5} (UG/M ³)	1.35	61	26	4	21.0	26	99.1
TSP (UG/M ³)	2.57	45	20	4	16.9	26	100.0

NA: Not Applicable

Exceedences Summary Report

July 2013

Plant Operator: BHP Billiton Diamonds Inc.

Plant Location: EKATI

PARAMETER	CANADIAN AMBIENT AIR QUALITY OBJECTIVES		CANADIAN AMBIENT AIR QUALITY EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	344	115	0	0
NO ₂ (PPB)	213	106	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

PARAMETER	NT AMBIENT AIR QUALITY STANDARDS		NT AMBIENT AIR QUALITY STANDARDS EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	172	57	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

General Monthly Summary

Equipment Operation

The following summary outlines the analyzer performance compared to Canadian Environmental Quality Guidelines for ambient air monitors. Any problems or maintenance performed are detailed at the end of each section.

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Sulphur Dioxide (PPB)

- Analyzer make / model - API 100

The analyzer was working well throughout this month. No operational issues were observed.

Nitrogen Dioxide (PPB)

- Analyzer make / model - API 200E

The analyzer was working well throughout this month. No operational issues were observed.

Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

Hourly data collected on July 14th between hour 10 and hour 16 were invalidated due to the unit spike. Data was not corrected using Alberta air quality guideline for PM2.5 analyzer.

Total suspended Particulate ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

The BAM unit was working well throughout this month. No operational issues were observed.

Monthly Continuous Data Summary

BHP Billiton Diamonds Inc. - EKATI

Continuous Ambient Monitoring – August 2013

BHP Billiton Diamonds Inc. - EKATI		MAXIMUM VALUES					OPERATIONAL TIME (PERCENT)
		1-HOUR			24-HOUR		
PARAMETER	MONTHLY AVERAGE	READING	DAY	HOUR	READING	DAY	
SO ₂ (PPB)	1.12	5	12	21	2.1	15	88.7
NO ₂ (PPB)	3.25	41	15	2	12.5	15	88.7
NO (PPB)	3.16	109	4	0	17.0	15	88.7
NO _x (PPB)	5.17	131	4, 6	0, 4	30.6	15	88.7
PM _{2.5} (UG/M ³)	5.22	96	13	11	33.9	11	88.2
TSP (UG/M ³)	5.45	128	14	22	41.8	15	88.4

NA: Not Applicable

Exceedences Summary Report

August 2013

Plant Operator: BHP Billiton Diamonds Inc.

Plant Location: EKATI

PARAMETER	CANADIAN AMBIENT AIR QUALITY OBJECTIVES		CANADIAN AMBIENT AIR QUALITY EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	344	115	0	0
NO ₂ (PPB)	213	106	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

PARAMETER	NT AMBIENT AIR QUALITY STANDARDS		NT AMBIENT AIR QUALITY STANDARDS EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	172	57	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

General Monthly Summary

Equipment Operation

The following summary outlines the analyzer performance compared to Canadian Environmental Quality Guidelines for ambient air monitors. Any problems or maintenance performed are detailed at the end of each section.

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Sulphur Dioxide (PPB)

- Analyzer make / model - API 100

The analyzer was working well throughout this month. No operational issues were observed. Hourly data collected between August 8th at hour 8 and August 11th at hour 15, and August 12th between hour 6 and hour 8 are missing. It was likely due to a power failure event. Hourly data collected on August 12th at hour 9 was invalidated as the analyzer was recovery from the power failure.

Nitrogen Dioxide (PPB)

- Analyzer make / model - API 200E

The analyzer was working well throughout this month. No operational issues were observed. Hourly data collected between August 8th at hour 8 and August 11th at hour 15, and August 12th between hour 6 and hour 8 are missing. It was likely due to a power failure event. Hourly data collected on August 12th at hour 9 was invalidated as the analyzer was recovery from the power failure.

General Monthly Summary

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

The BAM unit was working well throughout this month. No operational issues were observed. Hourly data collected between August 8th at hour 8 and August 11th at hour 15, and August 12th between hour 6 and hour 8 are missing. It was likely due to a power failure event. Hourly data collected on August 12th at hour 9 was invalidated as the analyzer was recovery from the power failure. Hourly data collected on August 12th at hour 21 and hour 22, on August 15th at hour 8 and August 16th at hour 8 were invalidated due to the unit spike. Data was not corrected using Alberta air quality guideline for PM2.5 analyzer.

Total suspended Particulate ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

The BAM unit was working well throughout this month. No operational issues were observed. Hourly data collected between August 8th at hour 8 and August 11th at hour 15, and August 12th between hour 6 and hour 8 are missing. It was likely due to a power failure event. Hourly data collected on August 12th at hour 9 was invalidated as the analyzer was recovery from the power failure. Hourly data collected on August 12th at hour 21 and hour 22 were invalidated due to the unit spike.

Monthly Continuous Data Summary

BHP Billiton Diamonds Inc. - EKATI

Continuous Ambient Monitoring – September 2013

BHP Billiton Diamonds Inc. - EKATI		MAXIMUM VALUES					OPERATIONAL TIME (PERCENT)
		1-HOUR			24-HOUR		
PARAMETER	MONTHLY AVERAGE	READING	DAY	HOUR	READING	DAY	
SO ₂ (PPB)	0.86	4	10	1, 2	2.1	10	90.1
NO ₂ (PPB)	3.12	30	18	1	11.3	10	90.1
NO (PPB)	6.65	167	10	1	38.4	10	90.1
NOx (PPB)	9.61	192	10	1	50.2	10	90.1
PM _{2.5} (UG/M ³)	-0.27	64	9	15	3.6	9	88.9
TSP (UG/M ³)	6.00	176	15	19	73.1	18	89.3

Exceedences Summary Report

August 2013

Plant Operator: BHP Billiton Diamonds Inc.

Plant Location: EKATI

PARAMETER	CANADIAN AMBIENT AIR QUALITY OBJECTIVES		CANADIAN AMBIENT AIR QUALITY EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	344	115	0	0
NO ₂ (PPB)	213	106	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

PARAMETER	NT AMBIENT AIR QUALITY STANDARDS		NT AMBIENT AIR QUALITY STANDARDS EXCEEDENCES	
	1-HR	24-HR	1-HR	24-HR
SO ₂ (PPB)	172	57	0	0
PM 2.5 (UG/M ³)	-	30	-	0
TSP (UG/M ³)	-	120	-	0

Note: NA

General Monthly Summary

Equipment Operation

The following summary outlines the analyzer performance compared to Canadian Environmental Quality Guidelines for ambient air monitors. Any problems or maintenance performed are detailed at the end of each section.

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Sulphur Dioxide (PPB)

- Analyzer make / model - API 100

The analyzer was working well throughout this month. No operational issues were observed. The as found points check was performed on September 11th to ensure the analyzer's functionality. A full calibration was performed on September 12th. Hourly data collected between September 18th at hour 15 and September 21st at hour 13 are missing. It was likely due to a power failure.

Nitrogen Dioxide (PPB)

- Analyzer make / model - API 200E

The analyzer was working well throughout this month. No operational issues were observed. The as found points check was performed on September 11th to ensure the analyzer's functionality. A full calibration was performed on September 12th. Hourly data collected between September 18th at hour 15 and September 21st at hour 13 are missing. It was likely due to a power failure.

General Monthly Summary

AQM STATION – BHP Billiton Diamonds Inc. - EKATI

Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

The PM2.5 channel was put into the maintenance mode for the sample tape check up on September 11th. The BAM audit/calibration was performed on September 13th. The sample pump was rebuilt on September 13th. Hourly data collected between September 18th at hour 15 and September 21st at hour 13 are missing. It was likely due to a power failure. Hourly data collected on September 21st at hour 14 and hour 15 were invalidated as the unit was recovering from the power failure. Hourly data collected on September 24th at hour 14 and hour 15 were invalidated due to the unit spike. Data was not corrected using Alberta air quality guideline for PM2.5 analyzer.

Total suspended Particulate ($\mu\text{g}/\text{m}^3$)

- System make / model – Met One BAM 1020

Upon arrival on September 11th, it was found that the sample filter fell off the stand. Performed troubleshooting by reinstalling the sample filter on September 11th. After the troubleshooting, the BAM unit started operating properly. A BAM audit/calibration attempted to be performed on September 12th. However, it was noticed that the nozzle was always on the up position. As no new spare nozzle was available, the nozzle was replaced to a used one. A leak check was performed to confirm the nozzle's functionality. The BAM passed the leak check. A BAM audit/calibration was performed on September 13th. The sample pump was replaced with a spare one on September 13th. Hourly data collected between September 18th at hour 15 and September 21st at hour 13 are missing. It was likely due to a power failure. Hourly data collected on September 21st at hour 14 and hour 15 were invalidated as the unit was recovering from the power failure.

Continuous Monitoring

Monthly Summaries & Graphs