Preliminary Analytical Report Summary
Quanta Resources Site WA# 0-0216
11 May 2001
PAH results: COC # 00693

This report contains the result of the sample received on 05/07/2001 for PAH analysis by GC/MS. Seventeen XAD tube samples and one pair BS/BSD were received for analysis. The results and MDLs are reported in units of µg and µg/m3. All samples were extracted within the REAC holding time.

The blank was free from target compounds. Samples were free from target contamination. Non-target results consisted of unknown siloxane compound.

All matrix spike recoveries were acceptable.

The initial calibration, daily calibration checks, and DFTPP all met QC criteria.

V. Reed

Note: Result Files could be found I:\organic\0216quan\XAD\051101*.*

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Table 1.1 (cont.) Results of the Analysis for PAH in Air
WA # R1A00216: Quanta Resources Site

Sample No.	00031		00032	
Sampling Location	Field Blank		Trip Blank	
Volume (L)	0		0	
	Conc.	MDL	Conc.	MDL
Compound Name	µg	µg	µg	µg
Naphthalene	U	9.7	U	9.7
2-Methylnaphthalene	U	9.9	U	9.9
1-Methylnaphthalene	U	9.7	U	9.7
Biphenyl	U	9.8	U	9.8
2,6-Dimethylnaphthalene	U	10	U	10
Acenaphthylene	U	10	U	10
Acenaphthene	U	9.8	U	9.8
Dibenzofuran	U	9.9	U	9.9
Fluorene	U	9.9	U	9.9
Phenanthrene	U	9.9	U	9.9
Anthracene	U	9.9	U	9.9
Carbazole	U	10	U	10
Fluoranthene	U	9.8	U	9.8
Pyrene	U	9.8	U	9.8
Benzo(a)anthracene	U	9.7	U	9.7
Chrysene	U	9.1	U	9.1
Benzo(b)fluoranthene	U	9.6	U	9.6
Benzo(k)fluoranthene	U	9.1	U	9.1
Benzo(e)pyrene	U	9.6	U	9.6
Benzo(a)pyrene	U	9.8	U	9.8
Indeno(1,2,3-cd)pyrene	U	10	U	10
Dibenzo(a,h)anthracene	U	9.9	U	9.9
Benzo(g,h,i)perylene	U	10	U	10

Table 1.1 (cont.) Results of the Analysis for PAH in Air
WA # R1A00216: Quanta Resources Site

Sample No.	00020		00022		00024		00026		00028	
Sampling Location	Room #2		Room #3		Room #4		Room #5		Room #5 (DUP)	
Volume (L)	900		900		900		900		900	
Compound Name	Conc. ppbv	MDL ppbv	Conc. ppbv	MDL ppbv	Conc. ppbv	MDL ppbv	Conc. ppbv	MDL ppbv	Conc. ppbv	MDL ppbv
Naphthalene	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1
2-Methylnaphthalene	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9
1-Methylnaphthalene	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9
Biphenyl	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7
2,6-Dimethylnaphthalene	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7
Acenaphthylene	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8
Acenaphthene	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7
Dibenzofuran	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6
Fluorene	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6
Phenanthrene	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5
Anthracene	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5
Carbazole	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6
Fluoranthene	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3
Pyrene	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3
Benzo(a)anthracene	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2
Chrysene	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1
Benzo(b)fluoranthene	U	1	U	1	U	1	U	1	U	1
Benzo(k)fluoranthene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Benzo(e)pyrene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Benzo(a)pyrene	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1
Indeno(1,2,3-cd)pyrene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Dibenzo(a,h)anthracene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Benzo(g,h,i)perylene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for PAH in Air
WA # R1A00216: Quanta Resources Site

Sample No.	00010		00012		00014		00016		00018	
Sampling Location	Room #4		Room #5		Room #5 (DUP)		Room #1		Room #1 (DUP)	
Volume (L)	900		900		900		900		900	
Compound Name	Conc. ppbv	MDL ppbv	Conc. ppbv	MDL ppbv	Conc. ppbv	MDL ppbv	Conc. ppbv	MDL ppbv	Conc. ppbv	MDL ppbv
Naphthalene	U	2.1	U	2.1	U	2.1	U	2.1	U	2.1
2-Methylnaphthalene	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9
1-Methylnaphthalene	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9
Biphenyl	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7
2,6-Dimethylnaphthalene	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7
Acenaphthylene	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8
Acenaphthene	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7
Dibenzofuran	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6
Fluorene	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6
Phenanthrene	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5
Anthracene	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5
Carbazole	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6
Fluoranthene	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3
Pyrene	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3
Benzo(a)anthracene	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2
Chrysene	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1
Benzo(b)fluoranthene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Benzo(k)fluoranthene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Benzo(e)pyrene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Benzo(a)pyrene	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1
Indeno(1,2,3-cd)pyrene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Dibenzo(a,h)anthracene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0
Benzo(g,h,i)perylene	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0

Table 1.1 (cont.) Results of the Analysis for PAH in Air
WA # R1A00216: Quanta Resources Site

Sample No.	00033		00002		00004		00006		00008	
Sampling Location	Lot Blank		Room #1		Room #1 (DUP)		Room #2		Room #3	
Volume (L)	0		900		900		900		900	
Compound Name	Conc. µg	MDL µg	Conc. ppbv	MDL ppbv	Conc. ppbv	MDL ppbv	Conc. ppbv	MDL ppbv	Conc. ppbv	MDL ppbv
Naphthalene	U	9.7	U	2.1	U	2.1	U	2.1	U	2.1
2-Methylnaphthalene	U	9.9	U	1.9	U	1.9	U	1.9	U	1.9
1-Methylnaphthalene	U	9.7	U	1.9	U	1.9	U	1.9	U	1.9
Biphenyl	U	9.8	U	1.7	U	1.7	U	1.7	U	1.7
2,6-Dimethylnaphthalene	U	10	U	1.7	U	1.7	U	1.7	U	1.7
Acenaphthylene	U	10	U	1.8	U	1.8	U	1.8	U	1.8
Acenaphthene	U	9.8	U	1.7	U	1.7	U	1.7	U	1.7
Dibenzofuran	U	9.9	U	1.6	U	1.6	U	1.6	U	1.6
Fluorene	U	9.9	U	1.6	U	1.6	U	1.6	U	1.6
Phenanthrene	U	9.9	U	1.5	U	1.5	U	1.5	U	1.5
Anthracene	U	9.9	U	1.5	U	1.5	U	1.5	U	1.5
Carbazole	U	10	U	1.6	U	1.6	U	1.6	U	1.6
Fluoranthene	U	9.8	U	1.3	U	1.3	U	1.3	U	1.3
Pyrene	U	9.8	U	1.3	U	1.3	U	1.3	U	1.3
Benzo(a)anthracene	U	9.7	U	1.2	U	1.2	U	1.2	U	1.2
Chrysene	U	9.1	U	1.1	U	1.1	U	1.1	U	1.1
Benzo(b)fluoranthene	U	9.6	U	1.0	U	1.0	U	1.0	U	1.0
Benzo(k)fluoranthene	U	9.1	U	1.0	U	1.0	U	1.0	U	1.0
Benzo(e)pyrene	U	9.6	U	1.0	U	1.0	U	1.0	U	1.0
Benzo(a)pyrene	U	9.8	U	1.1	U	1.1	U	1.1	U	1.1
Indeno(1,2,3-cd)pyrene	U	10	U	1.0	U	1.0	U	1.0	U	1.0
Dibenzo(a,h)anthracene	U	9.9	U	1.0	U	1.0	U	1.0	U	1.0
Benzo(g,h,i)perylene	U	10	U	1.0	U	1.0	U	1.0	U	1.0

Table 1.2 (cont.) Results of the TIC for PAHs in Air
WA # 0-0216 Quanta Resources

Sample # 00002
LabFile# QUA045 Con. Factor 2.2

	CAS#	Compound	Q	RT	Conc.* µg/m3
1		Unknown Siloxane Compound		4.52	29
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

* Esimated Concentration (Response Factor = 1)

Table 1.2 (cont.) Results of the TIC for PAHs in Air
WA # 0-0216 Quanta Resources

Sample # 00004
LabFile# QUA047 Con. Factor 2.2

	CAS#	Compound	Q	RT	Conc.* µg/m3
1		Unknown Siloxane Compound		4.52	29
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

* Esimated Concentration (Response Factor = 1)

Table 1.2 (cont.) Results of the TIC for PAHs in Air
WA # 0-0216 Quanta Resources

Sample # 00006
LabFile# QUA049 Con. Factor 2.2

	CAS#	Compound	Q	RT	Conc.* µg/m3
1		Unknown Siloxane Compound		4.52	11
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

* Esimated Concentration (Response Factor = 1)

Table 1.2 (cont.) Results of the TIC for PAHs in Air
WA # 0-0216 Quanta Resources

Sample # 00008
LabFile# QUA051 Con. Factor 2.2

	CAS#	Compound	Q	RT	Conc.* µg/m3
1		Unknown Siloxane Compound		4.52	14
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

* Esimated Concentration (Response Factor = 1)

Table 1.2 (cont.) Results of the TIC for PAHs in Air
WA # 0-0216 Quanta Resources

Sample # 00010
LabFile# QUA053 Con. Factor 2.2

	CAS#	Compound	Q	RT	Conc.* µg/m3
1		Unknown Siloxane Compound		4.52	17
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

* Esimated Concentration (Response Factor = 1)

Table 1.2 (cont.) Results of the TIC for PAHs in Air
WA # 0-0216 Quanta Resources

Sample # 00012
LabFile# QUA055 Con. Factor 2.2

	CAS#	Compound	Q	RT	Conc.* µg/m3
1		Unknown Siloxane Compound		4.52	25
2		Phenoxy-ethanol isomer		5.11	13
3		Butyl ester acid isomer		5.81	16
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

* Esimated Concentration (Response Factor = 1)

Table 1.x (cont.) Results of the Analysis for Metals in Air
WA # 0-216 Quanta Resources site
NO QC EVALUATION HAS BEEN PERFORMED

Parameter Analysis Method			Arsenic AA-Fur		
Client ID	Location	Air Volume (L)	Conc	MDL	Unit
00040	Media Blank#1 (Lot Blank)	NA	U	0.050	µg/filter
00040	Media Blank#2 (Lot Blank)	NA	U	0.050	µg/filter
00040	Media Blank#3 (Lot Blank)	NA	U	0.050	µg/filter
00035	Fenceline North 1	1080	U	0.046	µg/m³
00036	Fenceline North 2	1080	U	0.046	µg/m³
00037	Fenceline North 3	686	U	0.073	µg/m³
00038	Fenceline North 4	1080	U	0.046	µg/m³
00039	Field Blank	NA	U	0.050	µg/filter

MDL denotes Method Detection Limit
U denotes less than the MDL (not detected)
Average Media Blank concentration subtracted from all sample results

Table 2.x Results of the BS/BSD Analysis for Metals in Air
WA # 0-216 Quanta Resources site
NO QC EVALUATION HAS BEEN PERFORMED

Sample ID: BS/BSD

Metal	BS Spike Added µg/filter	BS Conc µg/filter	BS % Rec	BSD Spike Added µg/filter	BSD Conc µg/filter	BSD % Rec	RPD	Recommended QC Limits % Rec	Recommended QC Limits RPD
Arsenic	1.00	0.89	89	1.00	0.844	84	5	75-125	20