



Technical Report

prepared for

Plumley Engineering
8232 Loop Road
Baldwinsville, NY 13027
Attention: Dale Vollmer

Report Date: 10/23/2006
Re: Client Project ID: 2003118
York Project No.: 06100481

CT License No. PH-0723

New York License No. 10854



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York Project No.: 06100481

Plumley Engineering
8232 Loop Road
Baldwinsville, NY 13027
Attention: Dale Vollmer

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 10/16/06. The project was identified as your project "2003118".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			EA-138		EA-139	
York Sample ID			06100481-01		06100481-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	825	Not detected	165
Anthracene			1100	825	460	165
Benzo[a]anthracene			1700	825	1400	165
Benzo[a]pyrene			1000	825	840	165
Benzo[b]fluoranthene			Not detected	825	860	165
Benzo[g,h,i]perylene			Not detected	825	Not detected	165
Benzo[k]fluoranthene			1000	825	660	165
Chrysene			1400	825	1000	165
Dibenz[a,h]anthracene			Not detected	825	Not detected	165
Fluoranthene			3600	825	2200	165
Fluorene			Not detected	825	Not detected	165
Indeno[1,2,3-cd]pyrene			Not detected	825	Not detected	165
Naphthalene			Not detected	825	Not detected	165
Phenanthrene			3300	825	1400	165
Pyrene			3200	825	2300	165

YORK

Client Sample ID			EA-138		EA-139	
York Sample ID			06100481-01		06100481-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
BN Tentatively ID Compounds	SW846-8270	ug/kG	---	---	---	---
Anthracenedione isomer					860	
Benzo[e]pyrene			1400			
Dodecane					1400	
Heptadecane					750	
Methylanthracene isomer			1900		740	
Methylnonane isomer					740	
Methylpentadecane isomer					1500	
Methylphenanthrene isomer			1400		1000	
Phenylnaphthalene isomer			1700			
Tetramethylpentadecane isomer			4300		1900	
Unknown C20 aliphatic			2600			

Client Sample ID			EA-140		EA-141	
York Sample ID			06100481-03		06100481-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			Not detected	330	Not detected	330
Anthracene			830	330	490	330
Benzo[a]anthracene			1500	330	1700	330
Benzo[a]pyrene			930	330	930	330
Benzo[b]fluoranthene			860	330	870	330
Benzo[g,h,i]perylene			Not detected	330	Not detected	330
Benzo[k]fluoranthene			760	330	870	330
Chrysene			1300	330	1400	330
Dibenz[a,h]anthracene			Not detected	330	Not detected	330
Fluoranthene			3000	330	2500	330
Fluorene			440	330	Not detected	330
Indeno[1,2,3-cd]pyrene			Not detected	330	Not detected	330
Naphthalene			Not detected	330	Not detected	330
Phenanthrene			2600	330	1300	330
Pyrene			2900	330	2600	330
BN Tentatively ID Compounds	SW846-8270	ug/kG	---	---	---	---
Dimethylphenanthrene isomer			1400		1300	
Dimethylundecane isomer					1200	
Methylanthracene isomer			1300		1200	
Methylpentadecane isomer			1200			
Methylphenanthrene isomer			1500		2400	
Phenylnaphthalene isomer			1600		1700	
Tetradecane					2400	
Tetramethylpentadecane isomer			2300		2400	

YORK

Client Sample ID			EA-142		EA-143	
York Sample ID			06100481-05		06100481-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	165	Not detected	165
Anthracene			430	165	180	165
Benzo[a]anthracene			1500	165	640	165
Benzo[a]pyrene			670	165	290	165
Benzo[b]fluoranthene			620	165	310	165
Benzo[g,h,i]perylene			Not detected	165	Not detected	165
Benzo[k]fluoranthene			710	165	290	165
Chrysene			1100	165	470	165
Dibenz[a,h]anthracene			Not detected	165	Not detected	165
Fluoranthene			2200	165	950	165
Fluorene			180	165	Not detected	165
Indeno[1,2,3-cd]pyrene			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Phenanthrene			1300	165	460	165
Pyrene			2400	165	1100	165
BN Tentatively ID Compounds	SW846-8270	ug/kg	---	---	---	---
Dibenzothiophene			1300			
Dimethyltetradecane isomer					970	
Methylanthracene isomer			890		700	
Methyldecane isomer					1700	
Methylhexadecane isomer			2000			
Methylnonane isomer					710	
Methylphenanthrene isomer			2700		1100	
Phenylnaphthalene isomer					980	
Tetramethylpentadecane isomer			2200			
Tridecane					1200	
Undecane			1100			

Client Sample ID			WA-107		WA-108	
York Sample ID			06100481-07		06100481-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	330	Not detected	330
Anthracene			Not detected	330	190	330
Benzo[a]anthracene			Not detected	330	520	330
Benzo[a]pyrene			Not detected	330	Not detected	330
Benzo[b]fluoranthene			Not detected	330	Not detected	330
Benzo[g,h,i]perylene			Not detected	330	Not detected	330
Benzo[k]fluoranthene			Not detected	330	Not detected	330
Chrysene			Not detected	330	440	330
Dibenz[a,h]anthracene			Not detected	330	Not detected	330
Fluoranthene			430	330	1200	330
Fluorene			Not detected	330	Not detected	330
Indeno[1,2,3-cd]pyrene			Not detected	330	Not detected	330
Naphthalene			Not detected	330	Not detected	330
Phenanthrene			Not detected	330	980	330

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Client Sample ID			WA-107		WA-108	
York Sample ID			06100481-07		06100481-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Pyrene			400	330	1100	330
BN Tentatively ID Compounds	SW846-8270	ug/kg	Not detected	---	---	---
Perylene					2100	

Client Sample ID			WA-109		WA-110	
York Sample ID			06100481-09		06100481-10	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	330	Not detected	330
Anthracene			Not detected	330	Not detected	330
Benzo[a]anthracene			380	330	Not detected	330
Benzo[a]pyrene			Not detected	330	Not detected	330
Benzo[b]fluoranthene			Not detected	330	Not detected	330
Benzo[g,h,i]perylene			Not detected	330	Not detected	330
Benzo[k]fluoranthene			Not detected	330	Not detected	330
Chrysene			350	330	Not detected	330
Dibenz[a,h]anthracene			Not detected	330	Not detected	330
Fluoranthene			810	330	330	330
Fluorene			Not detected	330	Not detected	330
Indeno[1,2,3-cd]pyrene			Not detected	330	Not detected	330
Naphthalene			Not detected	330	Not detected	330
Phenanthrene			540	330	Not detected	330
Pyrene			720	330	Not detected	330
BN Tentatively ID Compounds	SW846-8270	ug/kg	---	---	Not detected	---
Tetramethylpentadecane isomer			2000			

Client Sample ID			WA-111		WA-112	
York Sample ID			06100481-11		06100481-12	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	330	Not detected	330
Anthracene			Not detected	330	Not detected	330
Benzo[a]anthracene			Not detected	330	Not detected	330
Benzo[a]pyrene			Not detected	330	Not detected	330
Benzo[b]fluoranthene			Not detected	330	Not detected	330
Benzo[g,h,i]perylene			Not detected	330	Not detected	330
Benzo[k]fluoranthene			Not detected	330	Not detected	330
Chrysene			Not detected	330	Not detected	330
Dibenz[a,h]anthracene			Not detected	330	Not detected	330
Fluoranthene			550	330	490	330
Fluorene			Not detected	330	Not detected	330
Indeno[1,2,3-cd]pyrene			Not detected	330	Not detected	330
Naphthalene			Not detected	330	Not detected	330
Phenanthrene			400	330	Not detected	330
Pyrene			490	330	490	330

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Client Sample ID			WA-111		WA-112	
York Sample ID			06100481-11		06100481-12	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
BN Tentatively ID Compounds	SW846-8270	ug/kg	Not detected	---	Not detected	---

Client Sample ID			EAB-122		EAB-123	
York Sample ID			06100481-13		06100481-14	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	825	Not detected	825
Anthracene			Not detected	825	Not detected	825
Benzo[a]anthracene			1200	825	1200	825
Benzo[a]pyrene			Not detected	825	Not detected	825
Benzo[b]fluoranthene			Not detected	825	Not detected	825
Benzo[g,h,i]perylene			Not detected	825	Not detected	825
Benzo[k]fluoranthene			Not detected	825	Not detected	825
Chrysene			1100	825	950	825
Dibenz[a,h]anthracene			Not detected	825	Not detected	825
Fluoranthene			2000	825	2000	825
Fluorene			Not detected	825	Not detected	825
Indeno[1,2,3-cd]pyrene			Not detected	825	Not detected	825
Naphthalene			Not detected	825	Not detected	825
Phenanthrene			1100	825	1200	825
Pyrene			2300	825	2000	825
BN Tentatively ID Compounds	SW846-8270	ug/kg	---	---	---	---
Benzo[b]fluorene isomer			1000		1000	
Benzo[e]pyrene					1300	
Dodecane			2000			
Methylanthracene isomer					960	
Methyldodecane isomer			1600			
Methylphenanthrene isomer			1300		1100	
Perylene			1800			
Phenylnaphthalene isomer			1200			
Tetramethylpentadecane isomer			2000		2000	
Unknown C14 hydrocarbon					1700	
Unknown PAH			4500		1100	
Unknown possible hexanedioic acid ester					1600	

Client Sample ID			EAB-124		EAB-125	
York Sample ID			06100481-15		06100481-16	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	825	1700	825
Anthracene			Not detected	825	4900	825
Benzo[a]anthracene			1500	825	9800	825
Benzo[a]pyrene			1100	825	8000	825
Benzo[b]fluoranthene			980	825	4200	825
Benzo[g,h,i]perylene			Not detected	825	4300	825
Benzo[k]fluoranthene			990	825	7400	825

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Client Sample ID			EAB-124		EAB-125	
York Sample ID			06100481-15		06100481-16	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chrysene			1200	825	8200	825
Dibenz[a,h]anthracene			Not detected	825	1900	825
Fluoranthene			2700	825	19000	825
Fluorene			Not detected	825	2400	825
Indeno[1,2,3-cd]pyrene			Not detected	825	3800	825
Naphthalene			Not detected	825	Not detected	825
Phenanthrene			1600	825	14000	825
Pyrene			2700	825	17000	825
BN Tentatively ID Compounds	SW846-8270	ug/kg	---	---	---	---
Benzo[e]pyrene			1200		5900	
Dibenzothiophene isomer					17000	
Dimethylphenanthrene isomer			1100			
Methylanthracene isomer			2400		13000	
Methylfluorene isomer					5500	
Methylphenanthrene isomer			3000		21000	
Phenylnaphthalene isomer			1300		8000	
Tetramethylpentadecane isomer			2200		14000	
Unknown C20 aliphatic			1600		9600	

Client Sample ID			EAB-126		EAB-127	
York Sample ID			06100481-17		06100481-18	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	330	Not detected	165
Anthracene			740	330	270	165
Benzo[a]anthracene			2000	330	850	165
Benzo[a]pyrene			1300	330	420	165
Benzo[b]fluoranthene			1200	330	420	165
Benzo[g,h,i]perylene			Not detected	330	Not detected	165
Benzo[k]fluoranthene			1100	330	410	165
Chrysene			1500	330	750	165
Dibenz[a,h]anthracene			Not detected	330	Not detected	165
Fluoranthene			3400	330	1400	165
Fluorene			Not detected	330	Not detected	165
Indeno[1,2,3-cd]pyrene			350	330	Not detected	165
Naphthalene			Not detected	330	Not detected	165
Phenanthrene			2300	330	750	165
Pyrene			3200	330	1400	165
BN Tentatively ID Compounds	SW846-8270	ug/kg	---	---	---	---
Anthracenedione isomer			1100			
Benzo[e]pyrene					770	
Benzofluorene isomer					670	
Dibenzothiophene			1200			
Dimethylphenanthrene isomer			2100			
Methylanthracene isomer			2300		930	

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Client Sample ID			EAB-126		EAB-127	
York Sample ID			06100481-17		06100481-18	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Methylfluorene isomer			1100			
Methylheptadecane isomer					2100	
Methylphenanthrene isomer			2000		980	
Phenylanthralene isomer			1300		1100	
Tetramethylpentadecane isomer			1700		1700	
Unknown cyclic phenanthrenone					710	

Client Sample ID			SB54-154		SB54-155	
York Sample ID			06100481-19		06100481-20	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	330	460	330
Anthracene			Not detected	330	780	330
Benzo[a]anthracene			520	330	1300	330
Benzo[a]pyrene			340	330	520	330
Benzo[b]fluoranthene			380	330	560	330
Benzo[g,h,i]perylene			Not detected	330	Not detected	330
Benzo[k]fluoranthene			350	330	620	330
Chrysene			510	330	1300	330
Dibenz[a,h]anthracene			Not detected	330	Not detected	330
Fluoranthene			900	330	3400	330
Fluorene			Not detected	330	510	330
Indeno[1,2,3-cd]pyrene			Not detected	330	Not detected	330
Naphthalene			Not detected	330	Not detected	330
Phenanthrene			640	330	3400	330
Pyrene			1000	330	3000	330
BN Tentatively ID Compounds	SW846-8270	ug/kg	---	---	---	---
Anthracenedione isomer					1600	
Benzo[e]pyrene			1500		1900	
Benzo[a]fluorene isomer			1600			
Carbazole					410	
Dihydrofluorene isomer					1300	
Dimethylnaphthalene isomer			1200			
Dimethoxyanthracene isomer			1100			
Ethylanthracene isomer					1400	
Methylanthracene isomer					1300	
Methylbenz[a]anthracene isomer			2100			
Methylpyrene isomer					1400	
Methyltetradecane isomer			1100			
Perylene			1400			
Phenylanthralene isomer					1700	
Tetramethylpentadecane isomer					1500	
Unknown PAH					2100	

YORK

Client Sample ID			BIO-164		BIO-165	
York Sample ID			06100481-21		06100481-22	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	165	Not detected	165
Anthracene			240	165	Not detected	165
Benzo[a]anthracene			610	165	260	165
Benzo[a]pyrene			250	165	Not detected	165
Benzo[b]fluoranthene			360	165	Not detected	165
Benzo[g,h,i]perylene			Not detected	165	Not detected	165
Benzo[k]fluoranthene			270	165	Not detected	165
Chrysene			540	165	250	165
Dibenz[a,h]anthracene			Not detected	165	Not detected	165
Fluoranthene			1100	165	380	165
Fluorene			Not detected	165	Not detected	165
Indeno[1,2,3-cd]pyrene			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Phenanthrene			780	165	210	165
Pyrene			1100	165	540	165
BN Tentatively ID Compounds	SW846-8270	ug/kg	---	---	---	---
2-Methylnaphthalene					240	
Anthracenedione isomer			830			
Benzo[e]pyrene					710	
Benzo[fluorene] isomer			850			
Dimethoxyanthracene isomer					570	
Heptadecane					740	
Methylanthracene isomer			1300		670	
Methylpentadecane isomer			890			
Methylphenanthrene isomer			980		550	
Methylpyrene isomer			690			
Nonadecane					630	
Perylene			720			
Tetramethylpentadecane isomer			900			
Unknown cyclic phenanthrenone			680			
Unknown PAH			1100			

Client Sample ID			BIO-166		CHEM-167	
York Sample ID			06100481-23		06100481-24	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	165	Not detected	330
Anthracene			Not detected	165	Not detected	330
Benzo[a]anthracene			200	165	Not detected	330
Benzo[a]pyrene			Not detected	165	Not detected	330
Benzo[b]fluoranthene			Not detected	165	Not detected	330
Benzo[g,h,i]perylene			Not detected	165	Not detected	330
Benzo[k]fluoranthene			Not detected	165	Not detected	330
Chrysene			230	165	Not detected	330
Dibenz[a,h]anthracene			Not detected	165	Not detected	330
Fluoranthene			490	165	410	330

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Client Sample ID			BIO-166		CHEM-167	
York Sample ID			06100481-23		06100481-24	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Fluorene			Not detected	165	Not detected	330
Indeno[1,2,3-cd]pyrene			Not detected	165	Not detected	330
Naphthalene			Not detected	165	Not detected	330
Phenanthrene			360	165	Not detected	330
Pyrene			450	165	Not detected	330
BN Tentatively ID Compounds	SW846-8270	ug/kG	---	---	Not detected	---
Dimethylphenanthrene isomer			790			

Client Sample ID			CHEM-168		CHEM-169	
York Sample ID			06100481-25		06100481-26	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			Not detected	330	Not detected	330
Anthracene			Not detected	330	Not detected	330
Benzo[a]anthracene			Not detected	330	440	330
Benzo[a]pyrene			Not detected	330	Not detected	330
Benzo[b]fluoranthene			Not detected	330	Not detected	330
Benzo[g,h,i]perylene			Not detected	330	Not detected	330
Benzo[k]fluoranthene			Not detected	330	Not detected	330
Chrysene			Not detected	330	420	330
Dibenz[a,h]anthracene			Not detected	330	Not detected	330
Fluoranthene			400	330	1100	330
Fluorene			Not detected	330	Not detected	330
Indeno[1,2,3-cd]pyrene			Not detected	330	Not detected	330
Naphthalene			Not detected	330	Not detected	330
Phenanthrene			Not detected	330	880	330
Pyrene			360	330	970	330
BN Tentatively ID Compounds	SW846-8270	ug/kG	Not detected	---	---	---
Benzo[e]pyrene					1200	
Perylene					1600	
Phenylnaphthalene isomer					830	

Client Sample ID			CHEM-170		CHEM-171	
York Sample ID			06100481-27		06100481-28	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			Not detected	165	Not detected	165
Anthracene			170	165	310	165
Benzo[a]anthracene			480	165	980	165
Benzo[a]pyrene			Not detected	165	610	165
Benzo[b]fluoranthene			220	165	560	165
Benzo[g,h,i]perylene			Not detected	165	230	165
Benzo[k]fluoranthene			180	165	570	165
Chrysene			430	165	750	165
Dibenz[a,h]anthracene			Not detected	165	Not detected	165

YORK

Client Sample ID			CHEM-170		CHEM-171	
York Sample ID			06100481-27		06100481-28	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Fluoranthene			860	165	1700	165
Fluorene			Not detected	165	Not detected	165
Indeno[1,2,3-cd]pyrene			Not detected	165	250	165
Naphthalene			Not detected	165	Not detected	165
Phenanthrene			420	165	1000	165
Pyrene			930	165	1700	165
BN Tentatively ID Compounds	SW846-8270	ug/kg	---	---	---	---
Benzofluorene isomer			770			
Dimethylantracene isomer					840	
Dimethyloctane isomer					930	
Dimethylphenanthrene isomer					2200	
Methylantracene isomer			710		1000	
Methylphenanthrene isomer					1100	
Methylpyrene isomer					880	
Methyltetradecane isomer					1600	
Pentadecane					1100	
Phenylantracene isomer					1200	
Tetramethylpentadecane isomer			2900		2900	
Tridecane			1000			
Unknown C16 aliphatic			1100			
Unknown C16 hydrocarbon					1400	
Unknown C18 hydrocarbon					1200	

Client Sample ID			CHEM-172		CHEM-173	
York Sample ID			06100481-29		06100481-30	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	165	Not detected	330
Anthracene			230	165	700	330
Benzo[a]anthracene			830	165	920	330
Benzo[a]pyrene			570	165	Not detected	330
Benzo[b]fluoranthene			590	165	Not detected	330
Benzo[g,h,i]perylene			Not detected	165	Not detected	330
Benzo[k]fluoranthene			540	165	390	330
Chrysene			710	165	790	330
Dibenz[a,h]anthracene			Not detected	165	Not detected	330
Fluoranthene			1400	165	2200	330
Fluorene			Not detected	165	Not detected	330
Indeno[1,2,3-cd]pyrene			Not detected	165	Not detected	330
Naphthalene			Not detected	165	Not detected	330
Phenanthrene			710	165	2300	330
Pyrene			1400	165	2100	330
BN Tentatively ID Compounds	SW846-8270	ug/kg	---	---	---	---
Benzo[e]pyrene isomer					1600	
Dimethylantracene isomer			790			
Dimethylphenanthrene isomer			700			
Dimethyltridecane isomer			890			
Hexadecane					1200	

YORK

Client Sample ID			CHEM-172		CHEM-173	
York Sample ID			06100481-29		06100481-30	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Methylanthracene isomer			1800		1300	
Methylhexadecane isomer					1900	
Methylpentadecane isomer			1500			
Methylphenanthrene isomer					1100	
Methylphenanthrene isomer			1000			
Phenylanthracene isomer			1700		1700	
Trimethyldodecane isomer			1600			

Client Sample ID			CHEM-174		CHEM-175	
York Sample ID			06100481-31		06100481-32	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
STARS Target Semi-Volatiles	SW846-8270	ug/kg	---	---	---	---
Acenaphthene			Not detected	330	Not detected	330
Anthracene			Not detected	330	Not detected	330
Benzo[a]anthracene			350	330	Not detected	330
Benzo[a]pyrene			Not detected	330	Not detected	330
Benzo[b]fluoranthene			Not detected	330	Not detected	330
Benzo[g,h,i]perylene			Not detected	330	Not detected	330
Benzo[k]fluoranthene			Not detected	330	Not detected	330
Chrysene			410	330	Not detected	330
Dibenz[a,h]anthracene			Not detected	330	Not detected	330
Fluoranthene			690	330	470	330
Fluorene			Not detected	330	Not detected	330
Indeno[1,2,3-cd]pyrene			Not detected	330	Not detected	330
Naphthalene			Not detected	330	Not detected	330
Phenanthrene			420	330	Not detected	330
Pyrene			790	330	610	330
BN Tentatively ID Compounds	SW846-8270	ug/kg	---	---	---	---
Benzo[e]pyrene			2100		1400	
Methylheptadecane isomer					1200	
Methylhexadecane isomer					1100	
Tetramethylpentadecane isomer			1400			

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb

For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

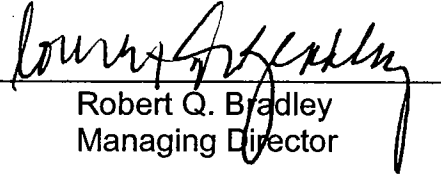
YORK

Report Date: 10/23/2006
Client Project ID: 2003118
York Project No.: 06100481

Notes for York Project No. 06100481

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By:


Robert Q. Bradley
Managing Director

Date: 10/23/2006

YORK

From: William J. Spizuoco <wspizuoco@plumleyeng.com>
To: RowanEnv1@aol.com <RowanEnv1@aol.com>
Cc: Dale R. Vollmer <dvollmer@plumleyeng.com>; Frank A. Karboski <fkarboski@plumleyeng.com>; Matthew T. Martin <MMartin@plumleyeng.com>
Date: Friday, October 13, 2006 4:25 PM
Subject: Re-extraction and Resample request for SVOC samples at Matt site

Marty:

Thank you for your responsiveness in understanding the data consistency issue and for the willingness of York Labs to respond to our stated concerns. I have reviewed the data set and am requesting re-extraction by sonification and analysis for STARs + 20 TICs SVOCs by EPA Method 8270 for soil samples collected on 9/19/06 at the Matt Petroleum site in Utica, NY. These samples are as reported on York Project No. 06090696-700, Report Date 9/26/06. The requested re-analysis is for 32 samples with the following Plumley Engineering Sample Ids for samples collected on 9/19/06.

- EAB - 122, EAB - 123, EAB - 124, EAB - 125, EAB - 126, EAB-127 (six samples) 06090698-01-06
- EA-138, EA-139, EA-140, EA-141, EA-142, EA 143 (six samples) 06090696-01-06
- WA-107, WA-108, WA-109, WA-110, WA-111, WA-112 (six samples) 06090697-01-06
- SB-154, SB-155 (two samples) 06090700-01-02
- BIO-164, BIO-165, BIO-166 (three samples) 06090700-11,12,13
- CHEM-167, CHEM-168, CHEM-169, CHEM-170, CHEM-171, CHEM-172, CHEM-173, CHEM-174, CHEM-175 (nine samples) 06090700-14-22

We also noted that the integration parameters and integration methods varied. We understand that these integration parameter and integration method differences may be related to use of different GC/MS machines/software.

- Integration parameters denoted as RTEINT.P in the August 30, 2006 samples
- Integration parameters denoted as EVENTS.E for the Sept 19, 2006 samples

We are requesting that you consider whether these additional analytical differences significantly potentially impacted the data results in comparison to the earlier data sets in July/August 2006. We understand that uncertainty is created by every change including instrumentation, software, procedural, but are only requesting that the re-analysis re-visit those changes that could have contributed significantly to concentration variance of the 9/19/06 sample event in comparison to the three prior sampling rounds in July and Aug.

At this juncture, the application of the accelerated solvent extraction (ACE) method to the 9/19/06 samples appears to have significantly elevated the SVOC reported results. We request that extraction be done per sonification to maintain consistency with the three prior data sets. If in the re-extraction and re-analysis your judgment dictates that the different integration parameters and integration methods also significantly impacted reported results, then please consider analysis per methods that are also consistent with the three prior data sets.

Thank you,

Bill

Bill Spizuoco, P.E.