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KAS INC
www.kas-consulting.com
ENVIRONMENTAL & GEOLOGICAL CONSULTING

January 4, 2008

Buff McLaughry
93 South Main Street, LLC
93 South Main Street
West Lebanon, New Hampshire 03784

Re: Off-Site Soil Sampling Results, Tip Top Tire, Wilder, Vermont

Dear Mr. McLaughry:

KAS, Inc. (KAS) has completed an off-site shallow soil sampling investigation in the vicinity of the former Tip Top Tire property (Site) located in Wilder, Vermont. A Site Map and Site Location Map are included in Attachment A. This investigative work was performed for 93 South Main Street, LLC and was conducted in accordance with KAS' *Work Plan for Supplemental Soil Testing* dated October 26, 2007, which was approved by you on October 30, 2007.

The objective of the off-Site soils investigation work was to address the requirements for completion of off-site soil sampling on the residential property located south of the Former Tip Top Tire property. This work was performed in accordance with a verbal request from the Vermont Department of Environmental Conservation (VTDEC) during a meeting on October 4, 2007. Approval to initiate the work plan was granted by Ms. Patricia Coppolino of the VTDEC via electronic mail on November 15, 2007.

Soil Sampling
KAS advanced 3 shallow soil borings using a hand auger on December 7, 2007 on the residential property south of the subject property. The soil sampling locations were identified as SB-20B, SB-21B, and SB-22B. These sampling locations were approximately the same as the previous sampling locations identified as SB-20, SB-21, and SB-22, which were sampled on January 5, 2007. The locations of the borings are shown on the Site map included in Attachment A. One composite soil sample was collected from each boring at a depth of 6" to 12" below grade and submitted for laboratory analysis of polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270C. One duplicate sample was also collected for quality assurance and quality control purposes. All of the samples were placed in a cooler with ice for storage and transportation to Endyne, Incorporated Laboratory Services of Williston, Vermont (Endyne). Chain of custody procedures were followed.

Samples were collected and handled according to standard operation procedures for collection of shallow soil samples. A stainless steel hand auger was used to collect the samples. All equipment was decontaminated before the first samples were collected, between sampling locations, and after the last sample was collected. The borings were

located using a measuring tape.

Soil samples were screened in the field using a properly calibrated IonScience PhotoCheck Plus model photoionization detector (PID). No PID readings above background were obtained from any of the soil samples.

Concentrations of PAHs were detected above the laboratory detection limit in the soil samples collected from SB-20B, SB-21B, and SB-22B on December 7, 2007. Benzo(a)pyrene was reported above the EPA's Region IX Preliminary Remediation Goals (PRGs) for a residential site in all three of the samples collected. Dibenzo(a,h)anthracene was reported above the Region IX PRGs in the soil sample collected from SB-20B. Tabulated results and the laboratory analytical results for the soil samples are included in the Off-Site Soil Data Summary in Attachment B.

Based on soil data obtained during the December 2007 sampling event, and historic data, shallow soil contamination is present in the residential property south of the Former Tip Top Tire at concentrations greater than the Residential PRGs from 0' to 2' below grade. Higher concentrations of PAHs were detected in the previous 0' to 2' depth samples than in the most recent 0.5' to 1' depth samples. This implies that the majority of the PAH contamination is either concentrated in the 0' to 0.5' depth or the 1' to 2' depth.

The southern most extent of the PAHs has not been defined based on the presence of PAHs in the southern most sampling locations. As reported previously, interviews with the adjacent homeowner revealed that coal ash was present in the subsurface on his property, which could have contributed to the concentrations of PAHs detected. Other activities may also contribute to concentrations of PAHs on the off-site property.

Recommendations

In light of prior discussions and findings, it is not clear to KAS that the PAH concentrations that have been reported from the off-site property are a result of activities on the Tip Top Tire parcel. If further delineation of PAH becomes necessary, KAS recommends using field screening techniques and utilizing an "EPA Triad" approach to reduce the amount of time, cost, and number of sampling visits. KAS can prepare a work plan and cost estimate for this work upon request.

KAS appreciates the opportunity to have performed this work. Please call me if you have any questions.

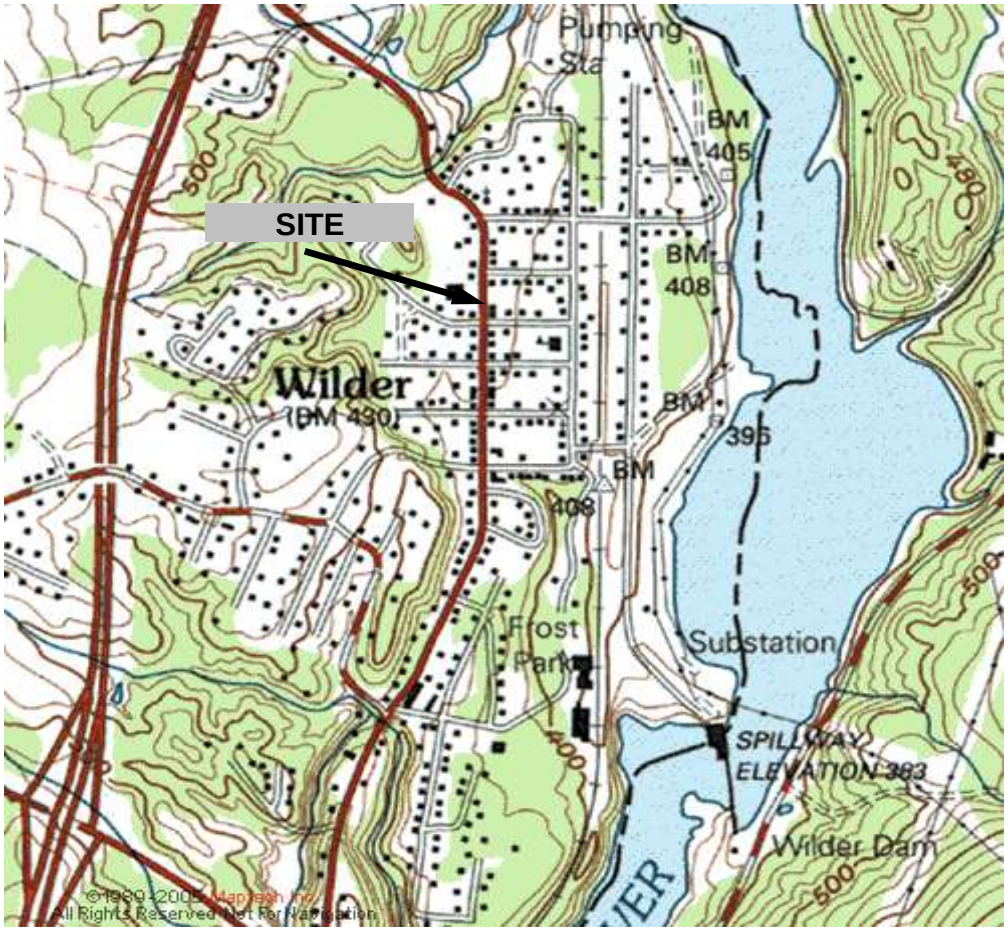
Sincerely,

Angela Rogers

Angela Rogers
Geologist

Attachment A

Site Location Map
Site Map
Total Reported PAHs Contaminant Concentration Map



North

KAS Job Number: *508050036*

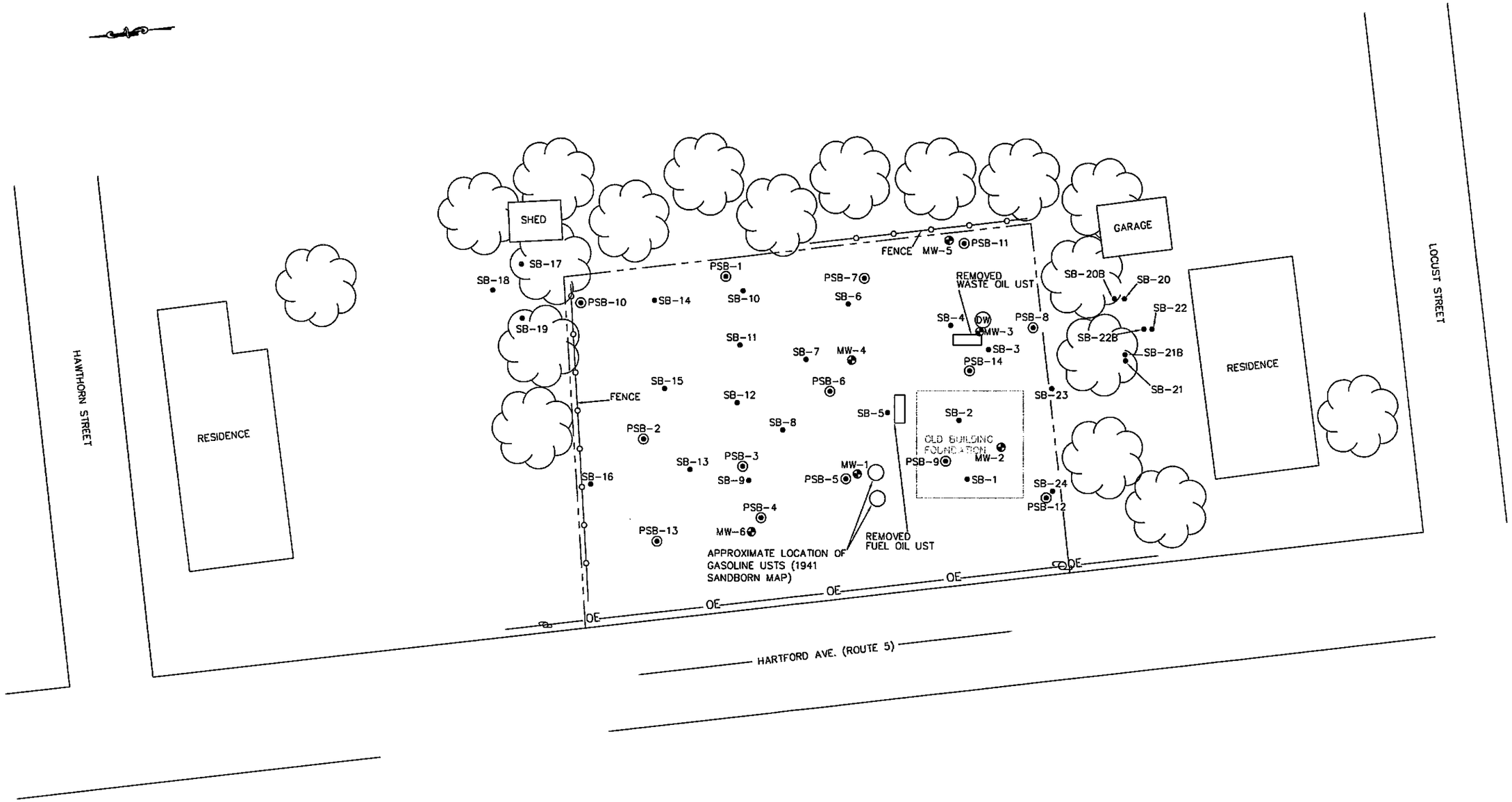
Source: www.maptech.com

KAS INC

Former Tip Top Tire
1965 Hartford Avenue
Wilder, Vermont 05001

Site Location Map
USGS Mapping

Date:	05/17/06	Drawing No	0	Scale:	1:24,000	By:	JR



GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET)

1 Inch = 20' Feet

LEGEND

SB-4	GEOPROBE BORING
MW-4	MONITORING WELL
	UTILITY POLE
OE	OVERHEAD ELECTRIC LINE
DW	REMOVED DRY WELL
SB-19	PROPOSED SOIL BORING

ANNOTED BY KAS 11/05

NOTE: MONITORING WELL LOCATIONS ARE APPROXIMATE AND ARE BASED ON KAS SURVEY AND FIELD OBSERVATIONS

ESPC #: 20054184
KAS #: 508050036
VTDEC #: 2005-3356

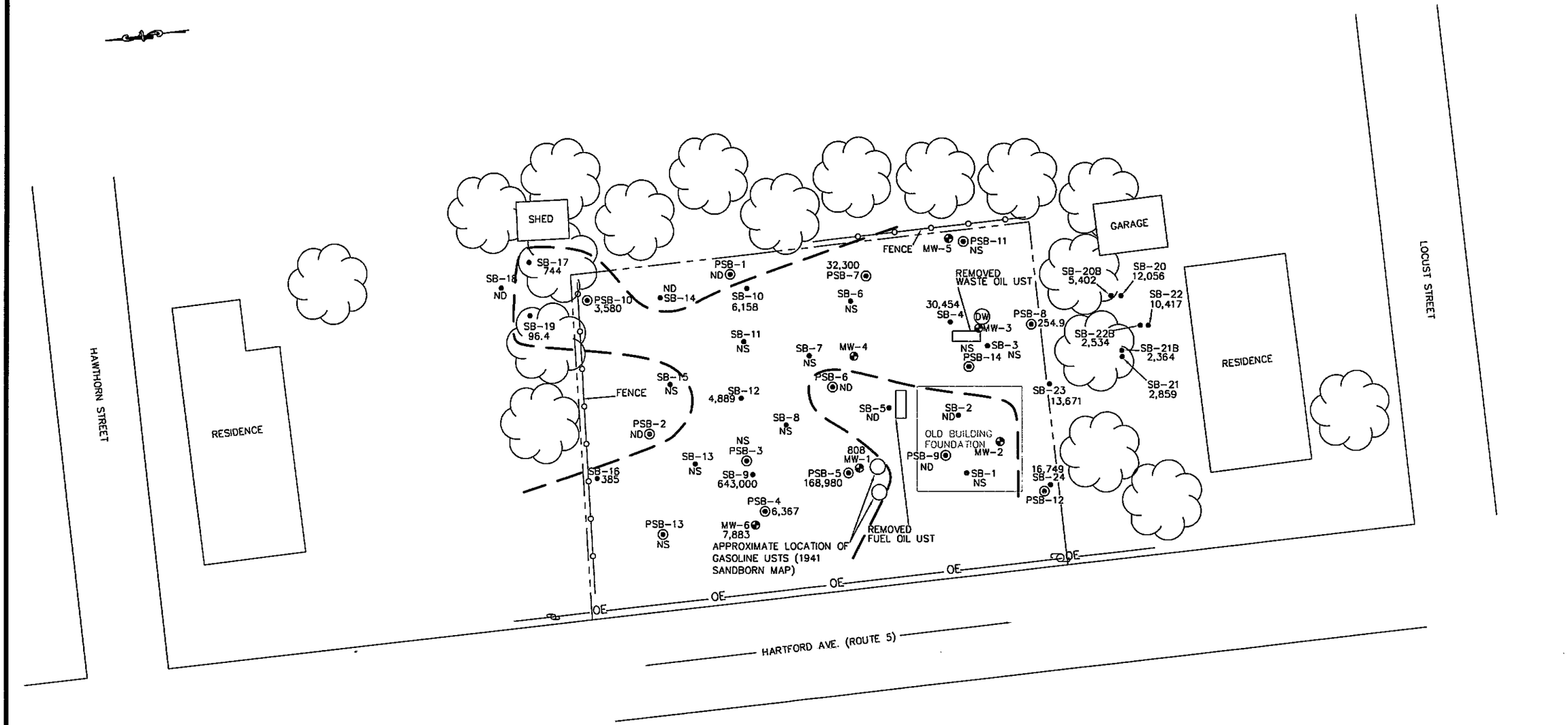
KAS

P.O. BOX 787, WILLISTON, VT, 05495
WWW.KAS-CONSULTING.COM

FORMER TIP TOP TIRE
1965 HARTFORD ROAD
WILDER, VERMONT

SITE MAP

DATE: 8/2/07	DWG #: 1	SCALE: 1"=30'	DRN.: DM	APP.: AR



NOTE:
SB-1 THRU SB-16 SAMPLED 3/9/06
PSB-1 THRU PSB-12 SAMPLED 8/10/06
SB-17 THRU SB-22 SAMPLED 1/5/07
SB-23 AND SB-24 SAMPLED 4/26/07
SB-20B THRU SB-22B SAMPLED 12/7/07

LEGEND

SB-4 30,454	GEOPROBE BORING WITH TOTAL REPORTED POLY AROMATIC HYDROCARBONS (ppb) (M= 8270C)
PSB-13 NS	SOIL BORING WITH TOTAL PAH CONCENTRATION (ppb) (M= 8270C)
MW-4	MONITORING WELL
	UTILITY POLE
OE	OVERHEAD ELECTRIC LINE
DW	REMOVED DRY WELL
NS	NOT SAMPLED
ND	NONE DETECTED
	ESTIMATED EXTENT OF PAH CONTAMINATION ABOVE APPLICABLE REGION IX PRGS

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET)

1 Inch = 20' Feet

ANNOTED BY KAS 11/05

NOTE: MONITORING WELL LOCATIONS ARE APPROXIMATE AND ARE BASED ON KAS SURVEY AND FIELD OBSERVATIONS

ESPC #: 20054184
KAS #: 508050036
VTDEC #: 2005-3356

KAS

P.O. BOX 787, WILLISTON, VT, 05495
WWW.KAS-CONSULTING.COM

FORMER TIP TOP TIRE

1965 HARTFORD ROAD
WILDER, VERMONT

TOTAL REPORTED PAHs CONTAMINANT CONCENTRATION MAP

DATE: 1/3/08	DWG #: 5	SCALE: 1"=30'	DRN.: DM	APP.: AR

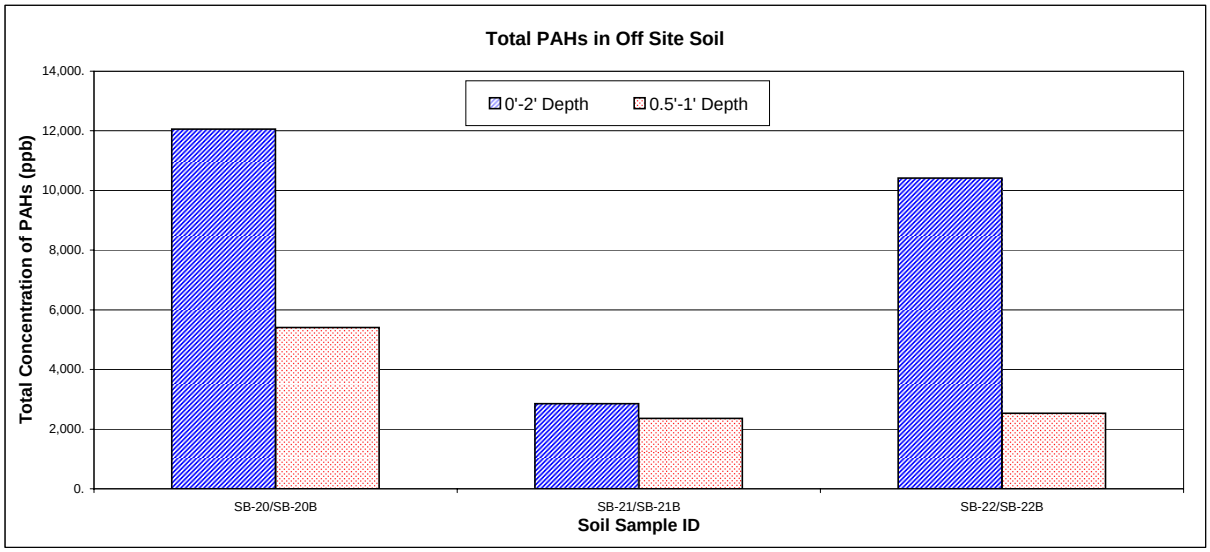
Attachment B

Soil Sampling Analytical Data

Offsite Shallow Soil Sampling Data Summary

Soil Sample	*SB-20*	*SB-21*	*SB-22*	*SB-20 B*	*SB-21 B*	*SB-22 B*	EPA Region IX PRG Residential	EPA Region IX PRG Industrial
Sample Depth (ft.)	*0-2'*	*0-2'*	*0-2'*	*0.5'-1'*	*0.5'-1'*	*0.5'-1'*		
PID reading (ppm)	*3.6*	*0.1*	*2.2*	*0.1*	*0.1*	*0.1*		
Date Sampled	1/5/2007	1/5/2007	1/5/2007	12/7/2007	12/7/2007	12/7/2007		
PAHs, EPA Method 8270								
Acenaphthene	ND<400.	ND<340.	ND<360.	ND<40.0	ND<40.0	ND<40.0	3,700,000.	29,000,000.
Acenaphthylene	ND<400.	ND<340.	ND<360.	**64.8**	ND<40.0	ND<40.0	NA	NA
Anthracene	ND<400.	ND<340.	ND<360.	**53.2**	ND<40.0	ND<40.0	22,000,000.	100,000,000.
Benzo(a)anthracene	**792.**	ND<340.	**576.**	**420.**	**201.**	**201.**	620.	2,100.
Benzo(b&k)fluoranthene	**1,940.**	**738.**	**1,530.**	**839.**	**412.**	**395.**	6,200.	21,000.
Benzo(a)pyrene	**1,240.**	**452.**	**965.**	**530.**	**239.**	**241.**	62.	210.
Benzo(g,h,i)perylene	**915.**	ND<340.	**731.**	**400.**	**178.**	**181.**	NA	NA
Chrysene	**997.**	ND<340.	**810.**	**510.**	**231.**	**239.**	62,000.	210,000.
Dibenzo(a,h)anthracene	**416.**	ND<340.	**390.**	**84.0**	**46.0**	**43.1**	62.	210.
Fluoranthene	**1,920.**	**586.**	**1,770.**	**893.**	**404.**	**462.**	2,300,000.	22,000,000.
Fluorene	ND<400.	ND<340.	ND<360.	ND<40.0	ND<40.0	ND<40.0	2,700,000.	26,000,000.
Indeno(1,2,3-cd)pyrene	**1,190.**	**526.**	**945.**	**308.**	**156.**	**154.**	620.	2,100.
1-Methylnaphthalene	ND<400.	ND<340.	ND<360.	ND<40.0	ND<40.0	ND<40.0	NA	NA
2-Methylnaphthalene	ND<400.	ND<340.	ND<360.	ND<40.0	ND<40.0	ND<40.0	NA	NA
Naphthalene	ND<400.	ND<340.	ND<360.	ND<40.0	ND<40.0	ND<40.0	56,000.	190,000.
Phenanthrene	**796.**	ND<340.	**1,030.**	**250.**	**131.**	**180.**	NA	NA
Pyrene	**1,850.**	**557.**	**1,670.**	**1,050.**	**366.**	**438.**	2,300,000.	29,000,000.
Total Reported PAHs	**12,056.**	**2,859.**	**10,417.**	**5,402.**	**2,364.**	**2,534.**		

NOTES:
All values reported in ug/kg, dry, unless otherwise indicated.
PRG = Preliminary Remediation Goal
ND<1.0 = Not Detected< Detection Limit
Results reported above detection limits are indicated in bold
NA = No PRG Available
NT = Not tested



Quality Assurance and Control Summary
Off-Site Soil Sampling
Former Tip Top Tire
Wilder, Vermont

December 7, 2007

Sample Location *Sample Depth*	*SB-20B* *0.5'-1'*	*Duplicate* *(SB-20B)* *0.5'-1'*	RPD
PAHs, EPA Method 8270C			
Acenaphthene	ND<40.	ND<40.	-
Acenaphthylene	**64.8**	**78.4**	19.0
Anthracene	**53.2**	**61.2**	14.0
Benzo(a)anthracene	**420.**	**470.**	11.2
Benzo(b&k)fluoranthene	**839.**	**862.**	2.7
Benzo(a)pyrene	**530.**	**599.**	12.2
Benzo(g,h,i)perylene	**400.**	**445.**	10.7
Chrysene	**510.**	**541.**	5.9
Dibenzo(a,h)anthracene	**84.0**	**90.4**	7.3
Fluoranthene	**893.**	**1,000.**	11.3
Fluorene	ND<40.	ND<40.	-
Indeno(1,2,3-cd)pyrene	**308.**	**351.**	13.1
1-Methylnaphthalene	ND<40.	ND<40.	-
2-Methylnaphthalene	ND<40.	ND<40.	-
Naphthalene	ND<40.	ND<40.	-
Phenanthrene	**250.**	**306.**	20.1
Pyrene	**1,050.**	**1,130.**	7.3
Total PAHs	**5,402.**	**5,934.**	9.4

NOTES:

All values reported in ug/kg, dry, unless otherwise indicated

EPA Method 8270C used for laboratory analysis for PAHs

ND<1.0 = Not Detected< Detection Limit

Results reported above detection limits are indicated in bold

Results reported above residential PRGs are shaded

ENDYNE Inc.
Environmental Laboratories

Laboratory Report

KAS, Inc.	100306
PO Box 787	
Williston, VT 05495	
Atten: Angela Rogers	

PROJECT: 510070110 Tip Top Tire
WORK ORDER: **0712-12034**
DATE RECEIVED: December 10, 2007
DATE REPORTED: December 21, 2007
SAMPLER: JE

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody located at the end of this report.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Randolph, VT facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

This NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

Laboratory Report

DATE REPORTED:12/21/2007

CLIENT: KAS, Inc.
PROJECT: 510070110 Tip Top Tire

WORK ORDER: **0712-12034**
DATE RECEIVED: 12/10/2007

001 Site: SB-20B — Date Sampled: 12/7/07 Time: 10:05

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Poly-Aromatic Hydrocarbons							
Ultrasonic Extraction	Completed		EPA 3550B	12/10/07	W EPG	A	
B/N Surr.1 Nitrobenzene-d5	67%	%	EPA 8270C	12/14/07	W EEP	A	
Naphthalene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
2-Methylnaphthalene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	N	
1-Methylnaphthalene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	U	
B/N Surr.2 2-Fluorobiphenyl	82%	%	EPA 8270C	12/14/07	W EEP	A	
Acenaphthylene	64.8	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	N	
Acenaphthene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Fluorene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Phenanthrene	250	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Anthracene	53.2	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Fluoranthene	893	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Pyrene	1,050	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
B/N Surr.3 Terphenyl-d14	83%	%	EPA 8270C	12/14/07	W EEP	A	
Benzo(a)anthracene	420	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Chrysene	510	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Benzo(b)fluoranthene	590	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Benzo(k)fluoranthene	249	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	N	
Benzo(a)pyrene	530	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Indeno(1,2,3-cd)pyrene	308	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Dibenzo(a,h)anthracene	84.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Benzo(g,h,i)perylene	400	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Unidentified Peaks	> 10		EPA 8270C	12/14/07	W EEP	U	

002 Site: SB-21B — Date Sampled: 12/7/07 Time: 10:10

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Poly-Aromatic Hydrocarbons							
Ultrasonic Extraction	Completed		EPA 3550B	12/10/07	W EPG	A	
B/N Surr.1 Nitrobenzene-d5	80%	%	EPA 8270C	12/14/07	W EEP	A	
Naphthalene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
2-Methylnaphthalene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	N	
1-Methylnaphthalene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	U	
B/N Surr.2 2-Fluorobiphenyl	86%	%	EPA 8270C	12/14/07	W EEP	A	
Acenaphthylene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	N	
Acenaphthene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Fluorene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Phenanthrene	131	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Anthracene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Fluoranthene	404	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Pyrene	366	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	

Laboratory Report

DATE REPORTED:12/21/2007

CLIENT: KAS, Inc.
PROJECT: 510070110 Tip Top Tire

WORK ORDER: **0712-12034**
DATE RECEIVED: 12/10/2007

002 Site: SB-21B — Date Sampled: 12/7/07 Time: 10:10

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
B/N Surr.3 Terphenyl-d14	85%	%	EPA 8270C	12/14/07	W EEP	A	
Benzo(a)anthracene	201	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Chrysene	231	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Benzo(b)fluoranthene	274	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Benzo(k)fluoranthene	138	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	N	
Benzo(a)pyrene	239	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Indeno(1,2,3-cd)pyrene	156	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Dibenzo(a,h)anthracene	46.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Benzo(g,h,i)perylene	178	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Unidentified Peaks	> 10		EPA 8270C	12/14/07	W EEP	U	

003 Site: SB-22B — Date Sampled: 12/7/07 Time: 10:20

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Poly-Aromatic Hydrocarbons							
Ultrasonic Extraction	Completed		EPA 3550B	12/10/07	W EPG	A	
B/N Surr.1 Nitrobenzene-d5	84%	%	EPA 8270C	12/14/07	W EEP	A	
Naphthalene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
2-Methylnaphthalene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	N	
1-Methylnaphthalene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	U	
B/N Surr.2 2-Fluorobiphenyl	85%	%	EPA 8270C	12/14/07	W EEP	A	
Acenaphthylene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	N	
Acenaphthene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Fluorene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Phenanthrene	180	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Anthracene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Fluoranthene	462	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Pyrene	438	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
B/N Surr.3 Terphenyl-d14	83%	%	EPA 8270C	12/14/07	W EEP	A	
Benzo(a)anthracene	201	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Chrysene	239	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Benzo(b)fluoranthene	266	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Benzo(k)fluoranthene	129	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	N	
Benzo(a)pyrene	241	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Indeno(1,2,3-cd)pyrene	154	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Dibenzo(a,h)anthracene	43.1	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Benzo(g,h,i)perylene	181	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Unidentified Peaks	> 10		EPA 8270C	12/14/07	W EEP	U	

004 Site: Dup — Date Sampled: 12/7/07 Time: 10:05

Laboratory Report

DATE REPORTED:12/21/2007

CLIENT: KAS, Inc.
PROJECT: 510070110 Tip Top Tire

WORK ORDER: **0712-12034**
DATE RECEIVED: 12/10/2007

004 Site: Dup — Date Sampled: 12/7/07 Time: 10:05

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Poly-Aromatic Hydrocarbons							
Ultrasonic Extraction	Completed		EPA 3550B	12/10/07	W EPG	A	
B/N Surr.1 Nitrobenzene-d5	80%	%	EPA 8270C	12/14/07	W EEP	A	
Naphthalene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
2-Methylnaphthalene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	N	
1-Methylnaphthalene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	U	
B/N Surr.2 2-Fluorobiphenyl	82%	%	EPA 8270C	12/14/07	W EEP	A	
Acenaphthylene	78.4	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	N	
Acenaphthene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Fluorene	< 40.0	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Phenanthrene	306	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Anthracene	61.2	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Fluoranthene	1,000	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Pyrene	1,130	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
B/N Surr.3 Terphenyl-d14	81%	%	EPA 8270C	12/14/07	W EEP	A	
Benzo(a)anthracene	470	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Chrysene	541	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Benzo(b)fluoranthene	617	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Benzo(k)fluoranthene	245	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	N	
Benzo(a)pyrene	599	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Indeno(1,2,3-cd)pyrene	351	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Dibenzo(a,h)anthracene	90.4	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Benzo(g,h,i)perylene	445	ug/Kg, dry	EPA 8270C	12/14/07	W EEP	A	
Unidentified Peaks	> 10		EPA 8270C	12/14/07	W EEP	U	

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

Special Reporting Instructions:

28231

Project Name: 510070110 Lip Lop Tire	Reporting Address: KAS Inc. PO 787 Williston VT 05495	Billing Address: KAS Inc PO 787 Williston VT 05495
Endyne Order ID: 0712-12034 (Lab Use Only) -O -I -S	Company: KAS Contact Name/Phone #: AR	Sampler Name: Phone #:

Ref.# (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time 12/7/07	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	SB-20B	Soil		X	1005	1	4oz		29	none	
	SB-21B	↓		↓	1010	↓	↓		↓	↓	
	SB-22B	↓		↓	1020	↓	↓		↓	↓	
	Dup-	↓		↓	1005	↓	↓		↓	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
J M Ban	12/10/07 0800	[illegible]	12/10/07 10:17	[illegible]	12/10/07 10:17

New York State Project: Yes _____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	8270c
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

LAB USE ONLY
Delivery: [illegible]
Temp: 3.0

Comment:
* Brownfields Site - Need Low Detection Limits

(White, Yellow - Laboratory / Pink - Client)

Data Packet

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KAS, Inc. - 510070110 Tip Top Tire

PAHs by Method 8270C - QC Summary

Work Order 0712-12034

SECTION	PAGE
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Blank Results and Continuing Calibration Recovery Summary	2
Continuing Calibration Evaluation Report	3
Laboratory Fortified Blank Summary (Extracted QC Standard)	4

Date	Time	File ID	Client/Project	Sample ID	Reference #	Original Mass G or L	Final Volume	Dilution	Prep Date	Acquisition Method	Notes & Comments
	121407xx.d										
12/14/07	NA	01		garbage-bake out						AQ-8270f-DFTPP	
12/14/07	1230	02	SW 8270C IPC	25ppm 8270C DFTPP 10/11/07					10/11/07	AQ-8270f-DFTPP	
12/14/07	1256	03	Calibration Verification	40ug 8270C Cal Std 10/11/07					10/11/07	AQ-8270f	**ICAL W/Q-9196**
12/14/07	1330	04	Extracted Ind QC	qc	LFB	30.00g	4.0ml		12/10/07	AQ-8270f	**EXT.W/Q-8964**
12/14/07	1404	05	Extracted Blank	blank	LRB	30.00g	4.0ml		12/10/07	AQ-8270f	
12/14/07	1438	06	KAS/Tip Top	sb 20b	12034-1	30.16g	4.0ml		12/10/07	AQ-8270f	
12/14/07	1512	07	KAS/Tip Top	sb 21b	12034-2	30.01g	4.0ml		12/10/07	AQ-8270f	
12/14/07	1547	08	KAS/Tip Top	sb 22b	12034-3	30.02g	4.0ml		12/10/07	AQ-8270f	
12/14/07	1621	09	KAS/Tip Top	dup	12034-4	30.08g	4.0ml		12/10/07	AQ-8270f	

Page 1 of 4

PAHs By EPA 8270C Blank and C.C. Recovery Summary
KAS, Inc.
510070110 Tip Top Tire
Work Order 0712-12034

File:	12140705.d		12140703.d		
Standard	Blank (LRB)		Continuing Calibration (40ug)		
	Rusults (ug)	Acceptance Limit (ug)	Rusults (ug)	Recovery (%)	Acceptance (%)
PAH Compounds					
Naphthalene	N.D.	< 1.0	38.23	95.6	80 - 120
2-Methylnaphthalene	N.D.	< 1.0	38.58	96.5	80 - 120
1-Methylnaphthalene	N.D.	< 1.0	39.05	97.6	80 - 120
Acenaphthylene	N.D.	< 1.0	40.17	100.4	80 - 120
Acenaphthene	N.D.	< 1.0	39.79	99.5	80 - 120
Fluorene	N.D.	< 1.0	39.97	99.9	80 - 120
Phenanthrene	N.D.	< 1.0	39.08	97.7	80 - 120
Anthracene	N.D.	< 1.0	40.57	101.4	80 - 120
Fluoranthene	N.D.	< 1.0	41.25	103.1	80 - 120
Pyrene	N.D.	< 1.0	40.45	101.1	80 - 120
Benzo(a)anthracene	N.D.	< 1.0	38.63	96.6	80 - 120
Chrysene	N.D.	< 1.0	39.94	99.9	80 - 120
Benzo(b)fluoranthene	N.D.	< 1.0	40.08	100.2	80 - 120
Benzo(k)fluoranthene	N.D.	< 1.0	41.49	103.7	80 - 120
Benzo(a)pyrene	N.D.	< 1.0	42.6	106.5	80 - 120
Indeno[1,2,3-cd]pyrene	N.D.	< 1.0	42.34	105.9	80 - 120
Dibenz(a,h)anthracene	N.D.	< 1.0	42.54	106.4	80 - 120
Benzo(g,h,i)perylene	N.D.	< 1.0	42.12	105.3	80 - 120

Note: N.D.-Not Detected

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\DEC2007\
Data File : 12140703.D
Acq On : 14 Dec 2007 12:56 pm
DataAcq Meth:AQ-8270F.M
Operator :
Sample : 40ug 8270C Cal Std 10/11/07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 14 14:03:50 2007
Quant Method : C:\msdchem\1\METHODS\8270-121307rt.M
Quant Title : SW 8270C Calibration
QLast Update : Fri Dec 14 14:03:11 2007

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene d-4 (I.S.)	1.000	1.000	0.0	91	0.00
16		Naphthalene-d8 (I.S)	1.000	1.000	0.0	92	0.00
20		Nitrobenzene-d5 (E.S.)	0.319	0.271	15.0	72	0.00
29		Naphthalene	1.095	1.046	4.5	90	0.00
35		2-Methylnaphthalene	0.658	0.634	3.6	90	0.00
36		1-Methylnaphthalene	0.653	0.638	2.3	91	0.00
37		Acenaphthene-d10 (I.S.)	1.000	1.000	0.0	89	0.00
41		2-Fluorobiphenyl (E.S.)	1.316	1.286	2.3	91	0.00
47		Acenaphthylene	1.716	1.723	-0.4	90	0.00
49		Acenaphthene	1.195	1.189	0.5	89	0.00
56		Fluorene	1.320	1.319	0.1	90	0.00
57		Phenanthrene-d10 (I.S.)	1.000	1.000	0.0	90	0.00
68		Phenanthrene	1.288	1.258	2.3	89	0.00
69		Anthracene	1.255	1.273	-1.4	91	0.00
72	I	Chrysene-d12 (I.S.)	1.000	1.000	0.0	89	0.00
73		Fluoranthene	1.186	1.223	-3.1	90	0.00
75		Pyrene	1.289	1.303	-1.1	89	0.00
76		Terphenyl-d14 (E.S.)	0.900	0.903	-0.3	91	0.00
78		Benzo(a)anthracene	1.286	1.242	3.4	87	0.00
79		Chrysene	1.213	1.212	0.1	90	0.00
82		Perylene-d12 (I.S.)	1.000	1.000	0.0	87	0.00
84		Benzo(b)fluoranthene	1.591	1.594	-0.2	88	0.00
85		Benzo(k)fluoranthene	1.473	1.528	-3.7	87	0.00
86		Benzo(a)pyrene	1.365	1.453	-6.4	88	0.00
87		Indeno[1,2,3-cd]pyrene	1.553	1.644	-5.9	88	0.00
88		Dibenz(a,h)anthracene	1.325	1.409	-6.3	89	0.00
89		Benzo(g,h,i)perylene	1.342	1.413	-5.3	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

8270-121307rt.M Wed Dec 26 17:14:35 2007

AvgRF- Initial Calibration Response Factor (Acceptance = >0.05)
CCRF - Continuing Calibration Response Factor (Acceptance = >0.05)
% Dev- Percent difference between the AvgRF and the CCRF (Acceptance = +/- 20%)
Area%- Peak area of Continuing Calibration Standard compared to Initial Calibration
(Internal Standard Acceptance = 50% to 200%)
Dev(min)- Difference between expected and measured retention times (Acceptance = +/- 0.5mi

SW 8270C, WATER QC Summary (B/N Fraction Results)

Data File Name	12140704.D
Date Acquired	12/14/2007 13:30
Acq. Method File	AQ-8270F.M
Sample Name	QC 30.00G 12/10/07
Instrument Name	5973 svoc
Target	40ug

#	Compound Name	Amount (ug)	UCL (%)	LCL (%)	Recovery (%)	Qualifier
11)	1,4-Dichlorobenzene	28.59	105.27	33.85	71.48	Pass
17)	N-Nitrosodi-n-propylamine	32.07	110.84	42.78	80.17	Pass
28)	1,2,4-Trichlorobenzene	32.75	113.34	35.05	81.88	Pass
49)	Acenaphthene	34.28	118.24	43.85	85.71	Pass
53)	2,4-Dinitrotoluene	23.71	134.44	44.16	59.27	Pass
75)	Pyrene	36.58	132.31	54.98	91.45	Pass

N.D.=Not Detected

#	Surrogate Name	Amount (ug)	UCL (%)	LCL (%)	Recovery (%)	Qualifier
20)	Nitrobenzene-d5 (B/N Surr 1)	28.63	106.62	23.22	71.57	Pass
41)	2-Fluorobiphenyl (B/N Surr 2)	31.88	104.64	30.51	79.69	Pass
76)	Terphenyl-d14 (B/N Surr 3)	34.33	131.79	24.67	85.83	Pass

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