



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
60 Westview Street
Lexington, MA 02421-3185

Laboratory Results

June 13, 2011

Ted Bazenas - Mail Code OSRR02-2
US EPA New England R1

Project Number: 11040091
Project: A & J Floral - Benton, ME
Analysis: Oil Identification
Analyst: Paul Carroll

*Planned
6.13.11*

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, MISOILID3.SOP.

Soil and product samples were extracted using cyclohexane as a solvent. In most cases Pressurized Fluid Extraction is used on soil samples, however if raw product is visible both soil and product samples are extracted using a waste dilution extraction. Aqueous samples are extracted using a separatory funnel technique with dichloromethane. The dichloromethane extract is concentrated and exchanged to cyclohexane. The extracts were analyzed using an Hewlett Packard 5890 gas chromatograph equipped with a J&W DB-1HT 30 meter 0.32mm ID capillary column. Detection was by Flame Ionization Detector.

Date Samples Received by the Laboratory: 04/28/2011

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Report may contain multiple sections and each section will be numbered independently.

If you have any questions please call me at 617 918 8340.

Sincerely,

Dan Boudreau 6/14/11

Dan Boudreau
Chemistry Team Leader

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Oil Identification

Matrix: Soil

Field ID	Lab ID	Collected	Extracted	Analysis	Product	Hydrocarbon Range	Qualifier
D30196	AB16976	04/26/2011	05/12/2011	05/27/2011	Motor Oil	C13 - C38	CM
Comments: CM = Close Match Estimated Concentration: 66,000 mg/kg							
D30197	AB16977	04/26/2011	05/12/2011	05/27/2011	Motor Oil	C20 - C38	CM
Comments: CM = Close Match Estimated Concentration: 14,000 mg/kg							
D30198	AB16978	04/26/2011	05/12/2011	05/27/2011	Motor Oil	C26 - C32	CM
Comments: CM = Close Match Estimated Concentration: 750 mg/kg							
D30199	AB16979	04/26/2011	05/12/2011	05/27/2011	Waste Oil	C26 - C30	PM
Comments: PM = Possible Match Estimated Concentration: 2400 mg/kg							
D30200	AB16980	04/26/2011	05/12/2011	05/27/2011	Waste Oil	C26 - C40	PM
Comments: PM = Possible Match Estimated Concentration: 4500 mg/kg							
D30201	AB16981	04/26/2011	05/12/2011	05/27/2011	Waste Oil	C26 - C40	PM
Comments: PM = Possible Match Estimated Concentration: 3100 mg/kg							

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Oil Identification

Matrix: Soil

Field ID	Lab ID	Collected	Extracted	Analysis	Product	Hydrocarbon Range	Qualifier
D30202	AB16982	04/26/2011	05/12/2011	05/27/2011	Waste Oil	C24 - C40	PM

Comments: PM = Possible Match
Estimated Concentration: 3700 mg/kg

D30203	AB16983	04/26/2011	05/12/2011	05/27/2011	ND
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Comments:

D30204	AB16984	04/26/2011	05/12/2011	05/28/2011	ND
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Comments:

D30205	AB16985	04/26/2011	05/12/2011	05/28/2011	ND
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Comments:

D30206	AB16986	04/26/2011	05/12/2011	05/28/2011	Waste Oil	C26 - C32	PM
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Comments: PM = Possible Match
Estimated Concentration: 300 mg/kg

Lab: OEMME

617-918-4710

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	D30176	SS-01	Metals by ICP	Soil	4/26/2011	11:30	1	8 oz. jar	None	Y
	D30176	SS-01	OILID	Soil	4/26/2011	11:30	1	8 oz. jar	None	Y
	D30176	SS-01	Percent Solids	Soil	4/26/2011	11:30	1	40 mL VOA	None	Y
	D30176	SS-01	Pest/PCB (\$PESMS)	Soil	4/26/2011	11:30	2	8 oz. jar	None	Y
	D30176	SS-01	SVOCs (\$BNAMS)	Soil	4/26/2011	11:30	1	8 oz. jar	None	Y
	D30176	SS-01	VOCs (\$VOAHS)	Soil	4/26/2011	11:30	1	40 mL VOA	MeOH	Y
	D30176	SS-01	VOCs (\$VOAHS)	Soil	4/26/2011	11:30	1	40 mL VOA	MeOH	Y
	D30177	SS-02	OILID	Soil	4/26/2011	11:50	1	4 oz. jar	None	N
	D30177	SS-02	Percent Solids	Soil	4/26/2011	11:50	1	40 mL VOA	None	N
	D30177	SS-02	Pest/PCB (\$PESMS)	Soil	4/26/2011	11:50	1	8 oz. jar	None	N
	D30177	SS-02	SVOCs (\$BNAMS)	Soil	4/26/2011	11:50	1	4 oz. jar	None	N
	D30177	SS-02	VOCs (\$VOAHS)	Soil	4/26/2011	11:50	1	40 mL VOA	MeOH	N
	D30178	SS-03	Metals by ICP	Soil	4/26/2011	12:20	1	4 oz. jar	None	N
	D30178	SS-03	OILID	Soil	4/26/2011	12:20	1	4 oz. jar	None	N
	D30178	SS-03	Pest/PCB (\$PESMS)	Soil	4/26/2011	12:20	1	8 oz. jar	None	N
	D30178	SS-03	SVOCs (\$BNAMS)	Soil	4/26/2011	12:20	1	4 oz. jar	None	N
	D30179	SS-04	OILID	Soil	4/26/2011	12:45	1	4 oz. jar	None	N
	D30179	SS-04	Percent Solids	Soil	4/26/2011	12:45	1	40 mL VOA	None	N
	D30179	SS-04	Pest/PCB (\$PESMS)	Soil	4/26/2011	12:45	1	8 oz. jar	None	N

Special Instructions:

[illegible]

A & J Floral
Ted Bazenas
617-918-4710

Site #: R01-110426TB
Lab: OEME

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	D30179	SS-04	SVOCs (\$BNAMS)	Soil	4/26/2011	12:45	1	4 oz. jar	None	N
	D30179	SS-04	VOCs (\$VOAHS)	Soil	4/26/2011	12:45	1	40 mL VOA	MeOH	N
	D30180	SS-05	Metals by ICP	Soil	4/26/2011	11:39	1	4 oz. jar	None	N
	D30180	SS-05	OLLID	Soil	4/26/2011	11:39	1	4 oz. jar	None	N
	D30180	SS-05	Pest/PCB (\$PESMS)	Soil	4/26/2011	11:39	1	8 oz. jar	None	N
	D30180	SS-05	SVOCs (\$BNAMS)	Soil	4/26/2011	11:39	1	4 oz. jar	None	N
	D30181	SS-06	OLLID	Soil	4/26/2011	12:04	1	4 oz. jar	None	N
	D30181	SS-06	SVOCs (\$BNAMS)	Soil	4/26/2011	12:04	1	4 oz. jar	None	N
	D30182	SS-07	OLLID	Soil	4/26/2011	12:22	1	4 oz. jar	None	N
	D30182	SS-07	Pest/PCB (\$PESMS)	Soil	4/26/2011	12:22	1	8 oz. jar	None	N
	D30182	SS-07	SVOCs (\$BNAMS)	Soil	4/26/2011	12:22	1	4 oz. jar	None	N
	D30183	SS-08	OLLID	Soil	4/26/2011	12:33	1	4 oz. jar	None	N
	D30183	SS-08	SVOCs (\$BNAMS)	Soil	4/26/2011	12:33	1	4 oz. jar	None	N
	D30184	SS-09	OLLID	Soil	4/26/2011	12:50	1	4 oz. jar	None	N
	D30184	SS-09	Percent Solids	Soil	4/26/2011	12:50	1	40 mL VOA	None	N
	D30184	SS-09	Pest/PCB (\$PESMS)	Soil	4/26/2011	12:50	1	8 oz. jar	None	N
	D30184	SS-09	SVOCs (\$BNAMS)	Soil	4/26/2011	12:50	1	4 oz. jar	None	N
	D30184	SS-09	VOCs (\$VOAHS)	Soil	4/26/2011	12:50	1	40 mL VOA	MeOH	N
	D30185	SS-10	OLLID	Soil	4/26/2011	13:43	1	4 oz. jar	None	N

SAMPLES TRANSFERRED FROM	CHAIN OF CUSTODY #

Lab: OEME

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	D30185	SS-10	Pest/PCB (\$PESMS)	Soil	4/26/2011	13:43	1	8 oz. jar	None	N
	D30185	SS-10	SVOCs (\$BNAMS)	Soil	4/26/2011	13:43	1	4 oz. jar	None	N
	D30186	SS-11	OLID	Soil	4/26/2011	14:02	1	4 oz. jar	None	N
	D30186	SS-11	SVOCs (\$BNAMS)	Soil	4/26/2011	14:02	1	4 oz. jar	None	N
	D30187	SS-12	OLID	Soil	4/26/2011	14:15	1	4 oz. jar	None	N
	D30187	SS-12	SVOCs (\$BNAMS)	Soil	4/26/2011	14:15	1	4 oz. jar	None	N
	D30188	SS-13	OLID	Soil	4/26/2011	14:20	1	4 oz. jar	None	N
	D30188	SS-13	SVOCs (\$BNAMS)	Soil	4/26/2011	14:20	1	4 oz. jar	None	N
	D30189	SS-14	Metals by ICP	Soil	4/26/2011	14:40	1	4 oz. jar	None	N
	D30189	SS-14	OLID	Soil	4/26/2011	14:40	1	4 oz. jar	None	N
	D30189	SS-14	SVOCs (\$BNAMS)	Soil	4/26/2011	14:40	1	4 oz. jar	None	N
	D30190	SS-15	OLID	Soil	4/26/2011	14:43	1	4 oz. jar	None	N
	D30190	SS-15	Pest/PCB (\$PESMS)	Soil	4/26/2011	14:43	1	8 oz. jar	None	N
	D30190	SS-15	SVOCs (\$BNAMS)	Soil	4/26/2011	14:43	1	4 oz. jar	None	N
	D30191	SS-16	OLID	Soil	4/26/2011	13:40	1	4 oz. jar	None	N
	D30191	SS-16	SVOCs (\$BNAMS)	Soil	4/26/2011	13:40	1	4 oz. jar	None	N
	D30192	SS-17	OLID	Soil	4/26/2011	13:50	1	4 oz. jar	None	N
	D30192	SS-17	SVOCs (\$BNAMS)	Soil	4/26/2011	13:50	1	4 oz. jar	None	N
	D30193	SS-18	OLID	Soil	4/26/2011	14:00	1	4 oz. jar	None	N

CHAIN OF CUSTODY #

A & J Floral
Ted Bazenas
617-918-4710

Site #: R01-110426TB
Lab: OEME

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	D30193	SS-18	Pest/PCB (\$PESMS)	Soil	4/26/2011	14:00	1	8 oz. jar	None	N
	D30193	SS-18	SVOCs (\$BNAMS)	Soil	4/26/2011	14:00	1	4 oz. jar	None	N
	D30194	SS-19	OLID	Soil	4/26/2011	14:15	1	4 oz. jar	None	N
	D30194	SS-19	SVOCs (\$BNAMS)	Soil	4/26/2011	14:15	1	4 oz. jar	None	N
	D30195	SS-20	OLID	Soil	4/26/2011	14:25	1	4 oz. jar	None	N
	D30195	SS-20	Pest/PCB (\$PESMS)	Soil	4/26/2011	14:25	1	8 oz. jar	None	N
	D30195	SS-20	SVOCs (\$BNAMS)	Soil	4/26/2011	14:25	1	4 oz. jar	None	N
	D30196	SS-21	Metals by ICP	Soil	4/26/2011	15:17	1	4 oz. jar	None	N
	D30196	SS-21	OLID	Soil	4/26/2011	15:17	1	8 oz. jar	None	Y
	D30196	SS-21	Percent Solids	Soil	4/26/2011	15:17	1	40 mL VOA	None	Y
	D30196	SS-21	Pest/PCB (\$PESMS)	Soil	4/26/2011	15:17	2	8 oz. jar	None	Y
	D30196	SS-21	SVOCs (\$BNAMS)	Soil	4/26/2011	15:17	1	8 oz. jar	None	Y
	D30196	SS-21	VOCs (\$VOAHS)	Soil	4/26/2011	15:17	1	40 mL VOA	MeOH	Y
	D30196	SS-21	VOCs (\$VOAHS)	Soil	4/26/2011	15:17	1	40 mL VOA	MeOH	Y
	D30197	SS-22	OLID	Soil	4/26/2011	15:30	1	4 oz. jar	None	N
	D30197	SS-22	Percent Solids	Soil	4/26/2011	15:30	1	40 mL VOA	None	N
	D30197	SS-22	Pest/PCB (\$PESMS)	Soil	4/26/2011	15:30	1	8 oz. jar	None	N
	D30197	SS-22	SVOCs (\$BNAMS)	Soil	4/26/2011	15:30	1	4 oz. jar	None	N
	D30197	SS-22	VOCs (\$VOAHS)	Soil	4/26/2011	15:30	1	40 mL VOA	MeOH	N

Special Instructions:

SAMPLES TRANSFERRED FROM	CHAIN OF CUSTODY #

[illegible]

A & J Floral
Ted Bazenas
617-918-4710

Site #: R01-110426TB
Lab: OEME

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	D30198	SS-23	OILID	Soil	4/26/2011	15:52	1	4 oz. jar	None	N
	D30198	SS-23	Percent Solids	Soil	4/26/2011	15:52	1	40 mL VOA	None	N
	D30198	SS-23	Pest/PCB (\$PESMS)	Soil	4/26/2011	15:52	1	8 oz. jar	None	N
	D30198	SS-23	SVOCs (\$BNAMS)	Soil	4/26/2011	15:52	1	4 oz. jar	None	N
	D30198	SS-23	VOCs (\$VOAHS)	Soil	4/26/2011	15:52	1	40 mL VOA	MeOH	N
	D30199	SS-24	OILID	Soil	4/26/2011	16:08	1	4 oz. jar	None	N
	D30199	SS-24	Percent Solids	Soil	4/26/2011	16:08	1	40 mL VOA	None	N
	D30199	SS-24	Pest/PCB (\$PESMS)	Soil	4/26/2011	16:08	1	8 oz. jar	None	N
	D30199	SS-24	SVOCs (\$BNAMS)	Soil	4/26/2011	16:08	1	4 oz. jar	None	N
	D30199	SS-24	VOCs (\$VOAHS)	Soil	4/26/2011	16:08	1	40 mL VOA	MeOH	N
	D30200	SS-25	OILID	Soil	4/26/2011	15:20	1	4 oz. jar	None	N
	D30200	SS-25	Percent Solids	Soil	4/26/2011	15:20	1	40 mL VOA	None	N
	D30200	SS-25	Pest/PCB (\$PESMS)	Soil	4/26/2011	15:20	1	8 oz. jar	None	N
	D30200	SS-25	SVOCs (\$BNAMS)	Soil	4/26/2011	15:20	1	4 oz. jar	None	N
	D30200	SS-25	VOCs (\$VOAHS)	Soil	4/26/2011	15:20	1	40 mL VOA	MeOH	N
	D30201	SS-26	OILID	Soil	4/26/2011	15:45	1	4 oz. jar	None	N
	D30201	SS-26	Percent Solids	Soil	4/26/2011	15:45	1	40 mL VOA	None	N
	D30201	SS-26	Pest/PCB (\$PESMS)	Soil	4/26/2011	15:45	1	8 oz. jar	None	N
	D30201	SS-26	SVOCs (\$BNAMS)	Soil	4/26/2011	15:45	1	4 oz. jar	None	N

SAMPLES TRANSFERRED FROM	CHAIN OF CUSTODY #

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	D30201	SS-26	VOCs (\$VOAHS)	Soil	4/26/2011	15:45	1	40 mL VOA	MeOH	N
	D30202	SS-27	Oil/LD	Soil	4/26/2011	16:00	1	4 oz. jar	None	N
	D30202	SS-27	Percent Solids	Soil	4/26/2011	16:00	1	40 mL VOA	None	N
	D30202	SS-27	Pest/PCB (\$PESMS)	Soil	4/26/2011	16:00	1	8 oz. jar	None	N
	D30202	SS-27	SVOCs (\$BNAMS)	Soil	4/26/2011	16:00	1	4 oz. jar	None	N
	D30202	SS-27	VOCs (\$VOAHS)	Soil	4/26/2011	16:00	1	40 mL VOA	MeOH	N
	D30203	SS-28	Oil/LD	Soil	4/26/2011	16:15	1	4 oz. jar	None	N
	D30203	SS-28	Percent Solids	Soil	4/26/2011	16:15	1	40 mL VOA	None	N
	D30203	SS-28	Pest/PCB (\$PESMS)	Soil	4/26/2011	16:15	1	8 oz. jar	None	N
	D30203	SS-28	SVOCs (\$BNAMS)	Soil	4/26/2011	16:15	1	4 oz. jar	None	N
	D30203	SS-28	VOCs (\$VOAHS)	Soil	4/26/2011	16:15	1	40 mL VOA	MeOH	N
	D30204	SS-29	Oil/LD	Soil	4/26/2011	16:40	1	4 oz. jar	None	N
	D30204	SS-29	Percent Solids	Soil	4/26/2011	16:40	1	40 mL VOA	None	N
	D30204	SS-29	Pest/PCB (\$PESMS)	Soil	4/26/2011	16:40	1	8 oz. jar	None	N
	D30204	SS-29	SVOCs (\$BNAMS)	Soil	4/26/2011	16:40	1	4 oz. jar	None	N
	D30204	SS-29	VOCs (\$VOAHS)	Soil	4/26/2011	16:40	1	40 mL VOA	MeOH	N
	D30205	SS-30	Oil/LD	Soil	4/26/2011	12:45	1	4 oz. jar	None	N
	D30205	SS-30	Percent Solids	Soil	4/26/2011	12:45	1	40 mL VOA	None	N
	D30205	SS-30	Pest/PCB (\$PESMS)	Soil	4/26/2011	12:45	1	8 oz. jar	None	N

[illegible]

