



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

Laboratory Results

July 14, 2011

Tom Hatzopoulos - Mail Code OSRR02-2
US EPA New England R1

Project Number: 11060033

Project: Former Bendix Property - Greenfield, MA

Analysis: Oil Identification

Analyst: Paul Carroll

Handwritten signature
7.14.11

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: 06/17/2011

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,

Handwritten signature of Dan Boudreau 7/14/11
Dan Boudreau
Chemistry Team Leader

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Former Bendix Property - Greenfield, MA

Oil Identification

Matrix: SW

Field ID	Lab ID	Collected	Extracted	Analysis	Product	Hydrocarbon Range	Qualifier
0710-0001	AB18817	06/16/2011	06/30/2011	07/05/2011	ND		

Comments: The sample was ND for petroleum products. The method reporting limit is 13 mg/L.

0710-0002	AB18818	06/16/2011	06/30/2011	07/05/2011	Motor Oil	C26 - C30	CM
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Comments: CM = Close Match
Estimated Concentration = 4.5 mg/L (this result is below the method reporting limit which is 13mg/L)

0710-0003	AB18819	06/16/2011	06/30/2011	07/05/2011	Motor Oil	C18 - C33	CM
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Comments: CM = Close Match
Estimated Concentration = 44 mg/L

0710-0004	AB18820	06/16/2011	06/30/2011	07/05/2011	Motor Oil	C20 - C32	CM
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Comments: CM = Close Match
Estimated Concentration = 170 mg/L

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No: 1-061611-124356-0008

Contact Name: Tom Hatzopoulos

Lab: OEME

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	0710-0001	SW-01	SVOCs	Surface Water	6/16/2011	10:00	2	1 liter amber	4 C	Y
	0710-0001	SW-01	Pesticides/PCBs	Surface Water	6/16/2011	10:00	2	1 liter amber	4 C	Y
	0710-0001	SW-01	Oil ID	Surface Water	6/16/2011	10:00	2	1 liter amber	4 C	Y
	0710-0001	SW-01	pH	Surface Water	6/16/2011	10:00	2	40 ml VOA	4 C	Y
	0710-0001	SW-01	Metals	Surface Water	6/16/2011	10:00	2	500ml poly	HNO3 pH<2	Y
	0710-0001	SW-01	Cyanide	Surface Water	6/16/2011	10:00	2	500 ml poly	NaOH	Y
	0710-0001	SW-01	VOCs	Surface Water	6/16/2011	10:00	8	40 ml VOA	HCl	Y
	0710-0002	SW-02	SVOCs	Surface Water	6/16/2011	10:30	1	1 liter amber	4 C	N
	0710-0002	SW-02	Pesticides/PCBs	Surface Water	6/16/2011	10:30	1	1 liter amber	4 C	N
	0710-0002	SW-02	Oil ID	Surface Water	6/16/2011	10:30	1	1 liter amber	4 C	N
	0710-0002	SW-02	pH	Surface Water	6/16/2011	10:30	1	40 ml VOA	4 C	N
	0710-0002	SW-02	Metals	Surface Water	6/16/2011	10:30	1	500ml poly	HNO3 pH<2	N
	0710-0002	SW-02	Cyanide	Surface Water	6/16/2011	10:30	1	500 ml poly	NaOH	N
	0710-0002	SW-02	VOCs	Surface Water	6/16/2011	10:30	4	40 ml VOA	HCl	N
	0710-0003	SW-03	SVOCs	Surface Water	6/16/2011	11:00	1	1 liter amber	4 C	N
	0710-0003	SW-03	Pesticides/PCBs	Surface Water	6/16/2011	11:00	1	1 liter amber	4 C	N
	0710-0003	SW-03	Oil ID	Surface Water	6/16/2011	11:00	1	1 liter amber	4 C	N
	0710-0003	SW-03	pH	Surface Water	6/16/2011	11:00	1	40 ml VOA	4 C	N
	0710-0003	SW-03	Metals	Surface Water	6/16/2011	11:00	1	500ml poly	HNO3 pH<2	N
	0710-0003	SW-03	Cyanide	Surface Water	6/16/2011	11:00	1	500 ml poly	NaOH	N

Special Initiatives

SAMPLES TRANSFERRED FROM	CHAIN OF CUSTODY #

[illegible]

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Former Bendix Property- Greenfield, MA
Contact Name: Tom Hatzopoulos
Contact Phone: 617-312-4712

Lab: OEMME

[illegible]

SAMPLES TRANSFERRED FROM	CHAIN OF CUSTODY #

[illegible]

