



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Results

July 7, 2011

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

Project Number: 11060033

Project: Former Bendix Property - Greenfield, MA

Analysis: Total Cyanide in Water

Analyst: Inna Germansderfer *It 7/12/11*

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, EIASOP-INGCN12.

The Cyanide SOP is Based on Lachat Method 10-2004-00-1-A.

Analytical support was provided by ESAT contractors.

Date Samples Received by the Laboratory: 06/17/2011

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,

Daniel N. Boudreau 7/13/11
Daniel N. Boudreau
Chemistry Team Leader

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Former Bendix Property - Greenfield, MA

Total Cyanide in Water

Matrix: SW

Sample Number	Lab ID	Collected	Extracted	Analysis	Concentration ug/L	RL ug/L	Qualifier
0710-0001	AB18817	06/16/2011	06/28/2011	06/29/2011	ND	5.0	
Comments:							
0710-0002	AB18818	06/16/2011	06/28/2011	06/29/2011	ND	5.0	
Comments:							
0710-0003	AB18819	06/16/2011	06/28/2011	06/29/2011	ND	5.0	
Comments:							
0710-0004	AB18820	06/16/2011	06/28/2011	06/29/2011	ND	5.0	
Comments:							
Blank			06/28/2011	06/29/2011	ND	5.0	
Comments:							

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MATRIX SPIKE (MS) RESULTS

Former Bendix Property - Greenfield, MA

SAMPLE ID	PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
AB18818	Total Cyanide in Water	200	ND	166	83.0	78 - 117

Comments:

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Laboratory Duplicate Results

Former Bendix Property - Greenfield, MA

SAMPLE ID	PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS (%RPD)
AB18817	Total Cyanide in Water	ND	ND	NC	20

Comments: NC = Not calculated since analyte concentration is ND.

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Low/High Laboratory Fortified Blank (LFB) Results

Former Bendix Property - Greenfield, MA

High Level

	LFB AMOUNT SPIKED	LFB RESULT	LFB RECOVERY	QC LIMITS
PARAMETER	ug/L	ug/L	%	%
Total Cyanide in Water	400	426	106	90 - 110

Comments:

Low Level

	LFB AMOUNT SPIKED	LFB RESULT	LFB RECOVERY	QC LIMITS
PARAMETER	ug/L	ug/L	%	%
Total Cyanide in Water	40.0	38.0	95.0	90 - 110

Comments:

11/11/11

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

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

[illegible]

011

Former Bendix Property- Greenfield, MA

No: 1-061611-124356-0008

Lab: OEME

[illegible]

SAMPLES TRANSFERRED FROM

[illegible]