

REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water

465 Columbus Ave.

Valhalla, NY 10595

Attention: Steve Schindler

Received EP

Bottle c611,p572,586,584,q665,677,492

Collected By: NEWMAN

Comment:

Sample NYC DEP

19 WESTLAKE DRIVE

VALHALLA, N.Y.

Sample CATLEFF

ID of Source:

Collection 11/11/2001 AT 8:44:00

Submitted 11/13/2001 AT 2:31:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27767

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
<u>Inorganics</u>						
EPA94	Beryllium	< MDL	ug/L	2	12/10/2001	PAD
EPA94	Calcium	6300	ug/L	1000.0	12/10/2001	PAD
EPA94	Cobalt	< MDL	ug/L	20.0	12/10/2001	PAD
EPA94	Iron	24	ug/L	20.0	12/10/2001	PAD
SM18	Potassium	520	ug/L	100.0	12/19/2001	PAD
EPA94	Magnesium	1300	ug/L	1000.0	12/10/2001	PAD
EPA94	Manganese	29	ug/L	20.0	12/10/2001	PAD
EPA94	Molybdenum	< MDL	ug/L	50.0	12/10/2001	PAD
EPA94	Sodium	4100	ug/L	1000.0	12/10/2001	PAD
EPA'79	Potable Metals Digestion	Completed			11/26/2001	PAD
EPA94	Antimony	0.12	ug/L	0.1	12/14/2001	PAD
SM18	Tin	< MDL	ug/L	100	12/21/2001	PAD
SM18	Titanium	< MDL	ug/L	100	1/18/2002	PAD

Approved Pam Dilsizian

QA Officer

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NYS ELAP # 10108

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Method	Test Description	Results	Units	MDL	Analyzed on	Validator
EPA94	Thallium	< MDL	ug/L	1.0	12/14/2001	PAD
EPA94	Vanadium	< MDL	ug/L	20.0	12/10/2001	PAD
Organics						
<u>Chlorine Pesticides - 508</u>						
	4,4-DDE	< MDL	ug/L	0.080	11/16/2001	DLV
	Aldrin	< MDL	ug/L	0.010	11/16/2001	DLV
	Chlordane	< MDL	ug/L	0.40	11/16/2001	DLV
	Dieldrin	< MDL	ug/L	0.016	11/16/2001	DLV
	Endrin	< MDL	ug/L	0.020	11/16/2001	DLV
	Heptachlor	< MDL	ug/L	0.020	11/16/2001	DLV
	Heptachlor Epoxide	< MDL	ug/L	0.030	11/16/2001	DLV
	Lindane	< MDL	ug/L	0.030	11/16/2001	DLV
	Methoxychlor	< MDL	ug/L	0.039	11/16/2001	DLV
	PCB's	< MDL	ug/L	0.20	11/16/2001	DLV
	Propachlor	< MDL	ug/L	0.040	11/16/2001	DLV
	Toxaphene	< MDL	ug/L	0.40	11/16/2001	DLV

The recoveries for 4 of the 11 compounds in the LCS Standard were below their acceptance ranges.

Volatile Organic Compounds

524.2	*THM-Bromodichloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	*THM-Bromoform	< MDL	ug/L	2.0	11/15/2001	SV
524.2	*THM-Chloroform	< MDL	ug/L	0.5	11/15/2001	SV

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Sample chilled on arrival? : yes

Report

Sample No. AD27767

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	*THM-Dibromochloromethane	< MDL	ug/L	2.0	11/15/2001	SV
524.2	1,1,1,2-tetrachloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,1- trichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,2,2-tetrachloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,2-trichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-dichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-Dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,3-trichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,3-trichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,4-trichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,4-trimethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3,5-trimethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,4-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	2,2-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	2-butanone (MEK)	< MDL	ug/L	2.0	11/15/2001	SV
524.2	2-chlorotoluene	< MDL	ug/L	0.5	11/15/2001	SV

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Comment:

Sample CATLEFF

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PWS No.:

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Report

Sample No. AD27767

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	4-chlorotoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Benzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromochloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromomethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Carbon tetrachloride	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	cis-1,2-dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	cis-1,3-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Dibromomethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Dichlorodifluoromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Ethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Hexachlorobutadiene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Isopropylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Methyl iso-butyl ketone (MIBK)	< MDL	ug/L	1.0	11/15/2001	SV
524.2	Methyl tert-butyl ether (MTBE)	< MDL	ug/L	1.0	11/15/2001	SV
524.2	Methylene Chloride	< MDL	ug/L	0.5	11/15/2001	SV
524.2	N-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	N-propylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Naphthalene	< MDL	ug/L	0.5	11/15/2001	SV

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Collected By: NEWMAN

Comment:

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Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	O-xylene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	P & M-xylene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	P-isopropyltoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	SEC-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Styrene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	TERT-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Tetrachloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Toluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	trans-1,2-dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	trans-1,3-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Trichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Trichlorofluoromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Vinyl chloride	< MDL	ug/L	0.5	11/15/2001	SV
<u>Organic Chemicals - 525.2</u>						
	2,4-Dinitrotoluene	< MDL	ug/L	2.0	11/24/2001	DLV
	2,6-Dinitrotoluene	< MDL	ug/L	2.0	11/24/2001	DLV
	4,4-DDE	< MDL	ug/L	0.80	11/24/2001	DLV
	Acetochlor	< MDL	ug/L	2.0	11/24/2001	DLV
	Alachlor	< MDL	ug/L	0.20	11/24/2001	DLV
	Atrazine	< MDL	ug/L	0.20	11/24/2001	DLV
	Benzo(a)pyrene	< MDL	ug/L	0.20	11/24/2001	DLV
	bis(2-Ethylhexyl)adipate	< MDL	ug/L	0.60	11/24/2001	DLV

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Method	Test Description	Results	Units	MDL	Analyzed on	Validator
	bis(2-Ethylhexyl)phthalate	< MDL	ug/L	0.60	11/24/2001	DLV
	Butachlor	< MDL	ug/L	0.40	11/24/2001	DLV
	EPTC	< MDL	ug/L	1.0	11/24/2001	DLV
	Hexachlorobenzene	< MDL	ug/L	0.10	11/24/2001	DLV
	Hexachlorocyclopentadiene	< MDL	ug/L	0.10	11/24/2001	DLV
	Metolachlor	< MDL	ug/L	0.75	11/24/2001	DLV
	Metribuzin	< MDL	ug/L	0.15	11/24/2001	DLV
	Molinate	< MDL	ug/L	0.90	11/24/2001	DLV
	Simazine	< MDL	ug/L	0.40	11/24/2001	DLV
	Terbacil	< MDL	ug/L	2.0	11/24/2001	DLV

The recoveries for 2 of the 18 compounds in the LCS Standard were below their acceptance ranges. The recoveries for 3 of the 18 compounds in the Spiked Sample were outside of their acceptance ranges. The breakdown for Endrin in the Breakdown Standard was 68%. The injection port is kept at 280 degrees Celcius which may be contributing to high Endrin Breakdown. An investigation into modifying injection port parameters will be made.

GCMS Scan For Unknowns

Other unknown compounds	ug/L	1/3/2002	DLV
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A scan of the extract prepared for the 508 analysis, from 35-550 amu using a mass spectrometer, does not reveal the presence of non-target compounds.

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Sample NYC DEP
19 WESTLAKE DRIVE
VALHALLA, N.Y.

Attention: Steve Schindler

Received EP

Bottle c615,p847,826,825,q686,690,688

Collected By: NEWMAN

Comment: Titanium spike did not recover

Sample DEL18

ID of Source:

Collection 11/11/2001 AT 8:26:00

Submitted 11/13/2001 AT 2:31:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27768

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
<u>Inorganics</u>						
EPA94	Beryllium	< MDL	ug/L	2	12/10/2001	PAD
EPA94	Calcium	6300	ug/L	1000.0	12/10/2001	PAD
EPA94	Cobalt	< MDL	ug/L	20.0	12/10/2001	PAD
EPA94	Iron	25	ug/L	20.0	12/10/2001	PAD
SM18	Potassium	520	ug/L	100.0	12/19/2001	PAD
EPA94	Magnesium	1300	ug/L	1000.0	12/10/2001	PAD
EPA94	Manganese	26	ug/L	20.0	12/10/2001	PAD
EPA94	Molybdenum	< MDL	ug/L	50.0	12/10/2001	PAD
EPA94	Sodium	4100	ug/L	1000.0	12/10/2001	PAD
EPA79	Potable Metals Digestion	Completed			11/26/2001	PAD
EPA94	Antimony	< MDL	ug/L	0.1	12/14/2001	PAD
SM18	Tin	< MDL	ug/L	100	12/21/2001	PAD
SM18	Titanium	< MDL	ug/L	100	2/1/2002	PAD

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Collected By: NEWMAN

Comment: Titanium spike did not recover

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EPA94	Thallium	< MDL	ug/L	1.0	12/14/2001	PAD
EPA94	Vanadium	< MDL	ug/L	20.0	12/10/2001	PAD
Organics						
<u>Chlorine Pesticides - 508</u>						
	4,4-DDE	< MDL	ug/L	0.080	11/16/2001	DLV
	Aldrin	< MDL	ug/L	0.010	11/16/2001	DLV
	Chlordane	< MDL	ug/L	0.40	11/16/2001	DLV
	Dieldrin	< MDL	ug/L	0.016	11/16/2001	DLV
	Endrin	< MDL	ug/L	0.020	11/16/2001	DLV
	Heptachlor	< MDL	ug/L	0.020	11/16/2001	DLV
	Heptachlor Epoxide	< MDL	ug/L	0.030	11/16/2001	DLV
	Lindane	< MDL	ug/L	0.030	11/16/2001	DLV
	Methoxychlor	< MDL	ug/L	0.039	11/16/2001	DLV
	PCB's	< MDL	ug/L	0.20	11/16/2001	DLV
	Propachlor	< MDL	ug/L	0.040	11/16/2001	DLV
	Toxaphene	< MDL	ug/L	0.40	11/16/2001	DLV

The recoveries for 4 of the 11 compounds in the LCS Standard were below their acceptance ranges. The recovery for the Surrogate Standard in this sample was below its acceptance range.

Volatile Organic Compounds

524.2	*THM-Bromodichloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	*THM-Bromoform	< MDL	ug/L	2.0	11/15/2001	SV
524.2	*THM-Chloroform	< MDL	ug/L	0.5	11/15/2001	SV

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Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	*THM-Dibromochloromethane	< MDL	ug/L	2.0	11/15/2001	SV
524.2	1,1,1,2-tetrachloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,1- trichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,2,2-tetrachloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,2-trichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-dichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-Dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,3-trichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,3-trichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,4-trichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,4-trimethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3,5-trimethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,4-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	2,2-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	2-butanone (MEK)	< MDL	ug/L	2.0	11/15/2001	SV
524.2	2-chlorotoluene	< MDL	ug/L	0.5	11/15/2001	SV

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Collected By: NEWMAN

Comment: Titanium spike did not recover

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Submitted 11/13/2001 AT 2:31:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27768

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	4-chlorotoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Benzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromochloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromomethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Carbon tetrachloride	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	cis-1,2-dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	cis-1,3-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Dibromomethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Dichlorodifluoromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Ethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Hexachlorobutadiene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Isopropylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Methyl iso-butyl ketone (MIBK)	< MDL	ug/L	1.0	11/15/2001	SV
524.2	Methyl tert-butyl ether (MTBE)	< MDL	ug/L	1.0	11/15/2001	SV
524.2	Methylene Chloride	< MDL	ug/L	0.5	11/15/2001	SV
524.2	N-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	N-propylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Naphthalene	< MDL	ug/L	0.5	11/15/2001	SV

Approved Pam Dilsizian

QA Officer

Date Approved: 2/1/2002

Environmental Laboratories

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NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Attention: Steve Schindler

Received EP

Bottle c615,p847,826,825,q686,690,688

Collected By: NEWMAN

Comment: Titanium spike did not recover

Sample NYC DEP
19 WESTLAKE DRIVE
VALHALLA, N.Y.

Sample DEL18

ID of Source:

Collection 11/11/2001 AT 8:26:00

Submitted 11/13/2001 AT 2:31:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27768

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	O-xylene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	P & M-xylene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	P-isopropyltoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	SEC-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Styrene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	TERT-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Tetrachloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Toluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	trans-1,2-dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	trans-1,3-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Trichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Trichlorofluoromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Vinyl chloride	< MDL	ug/L	0.5	11/15/2001	SV
<u>Organic Chemicals - 525.2</u>						
	2,4-Dinitrotoluene	< MDL	ug/L	2.0	11/24/2001	DLV
	2,6-Dinitrotoluene	< MDL	ug/L	2.0	11/24/2001	DLV
	4,4-DDE	< MDL	ug/L	0.80	11/24/2001	DLV
	Acetochlor	< MDL	ug/L	2.0	11/24/2001	DLV
	Alachlor	< MDL	ug/L	0.20	11/24/2001	DLV
	Atrazine	< MDL	ug/L	0.20	11/24/2001	DLV
	Benzo(a)pyrene	< MDL	ug/L	0.20	11/24/2001	DLV
	bis(2-Ethylhexyl)adipate	< MDL	ug/L	0.60	11/24/2001	DLV

Approved Pam Dilsizian

QA Officer

Date Approved: 2/1/2002

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NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Sample NYC DEP
19 WESTLAKE DRIVE
VALHALLA, N.Y.

Attention: Steve Schindler

Received EP

Bottle c615,p847,826,825,q686,690,688

Collected By: NEWMAN

Comment: Titanium spike did not recover

Sample DEL18

ID of Source:

Collection 11/11/2001 AT 8:26:00

Submitted 11/13/2001 AT 2:31:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27768

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
	bis(2-Ethylhexyl)phthalate	< MDL	ug/L	0.60	11/24/2001	DLV
	Butachlor	< MDL	ug/L	0.40	11/24/2001	DLV
	EPTC	< MDL	ug/L	1.0	11/24/2001	DLV
	Hexachlorobenzene	< MDL	ug/L	0.10	11/24/2001	DLV
	Hexachlorocyclopentadiene	< MDL	ug/L	0.10	11/24/2001	DLV
	Metolachlor	< MDL	ug/L	0.75	11/24/2001	DLV
	Metribuzin	< MDL	ug/L	0.15	11/24/2001	DLV
	Molinate	< MDL	ug/L	0.90	11/24/2001	DLV
	Simazine	< MDL	ug/L	0.40	11/24/2001	DLV
	Terbacil	< MDL	ug/L	2.0	11/24/2001	DLV

The recoveries for 2 of the 18 compounds in the LCS Standard were below their acceptance ranges. The recoveries for 3 of the 18 compounds in the Spiked Sample were outside of their acceptance ranges. The breakdown for Endrin in the Breakdown Standard was 68%. The injection port is kept at 280 degrees Celcius which may be contributing to high Endrin Breakdown. An investigation into modifying injection port parameters will be made.

GCMS Scan For Unknowns

Other unknown compounds	ug/L	1/3/2002	DLV
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A scan of the extract prepared for the 508 analysis, from 35-550 amu using a mass spectrometer, does not reveal the presence of non-target compounds.

Approved Pam Dilsizian

QA Officer

Date Approved: 2/1/2002

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NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Sample NYC DEP
19 WESTLAKE DRIVE
VALHALLA, N.Y.

Attention: Steve Schindler
Received EP

Bottle c619,p831,814,817,q726,697,703

Collected By: NEWMAN

Comment:

Sample CROGH

ID of Source:

Collection 11/11/2001 AT 7:40:00

Submitted 11/13/2001 AT 2:31:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27769

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
<u>Inorganics</u>						
EPA94	Beryllium	< MDL	ug/L	2	12/10/2001	PAD
EPA94	Calcium	26000	ug/L	1000.0	12/10/2001	PAD
EPA94	Cobalt	< MDL	ug/L	20.0	12/10/2001	PAD
EPA94	Iron	72	ug/L	20.0	12/10/2001	PAD
SM18	Potassium	2500	ug/L	100.0	12/19/2001	PAD
EPA94	Magnesium	8400	ug/L	1000.0	12/10/2001	PAD
EPA94	Manganese	70	ug/L	20.0	12/10/2001	PAD
EPA94	Molybdenum	< MDL	ug/L	50.0	12/10/2001	PAD
EPA94	Sodium	27000	ug/L	1000.0	12/10/2001	PAD
EPA'79	Potable Metals Digestion	Completed			11/26/2001	PAD
EPA94	Antimony	< MDL	ug/L	0.1	12/14/2001	PAD
SM18	Tin	< MDL	ug/L	100	12/21/2001	PAD
SM18	Titanium	< MDL	ug/L	100	2/1/2002	PAD

Approved Pam Dilsizian

QA Officer

Date Approved: 2/1/2002

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NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water

465 Columbus Ave.

Valhalla, NY 10595

Attention: Steve Schindler

Received EP

Bottle c619,p831,814,817,q726,697,703

Collected By: NEWMAN

Comment:

Sample NYC DEP

19 WESTLAKE DRIVE

VALHALLA, N.Y.

Sample CROGH

ID of Source:

Collection 11/11/2001 AT 7:40:00

Submitted 11/13/2001 AT 2:31:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27769

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
EPA94	Thallium	< MDL	ug/L	1.0	12/14/2001	PAD
EPA94	Vanadium	< MDL	ug/L	20.0	12/10/2001	PAD
Organics						
<u>Chlorine Pesticides - 508</u>						
	4,4-DDE	< MDL	ug/L	0.080	11/16/2001	DLV
	Aldrin	< MDL	ug/L	0.010	11/16/2001	DLV
	Chlordane	< MDL	ug/L	0.40	11/16/2001	DLV
	Dieldrin	< MDL	ug/L	0.016	11/16/2001	DLV
	Endrin	< MDL	ug/L	0.020	11/16/2001	DLV
	Heptachlor	< MDL	ug/L	0.020	11/16/2001	DLV
	Heptachlor Epoxide	< MDL	ug/L	0.030	11/16/2001	DLV
	Lindane	< MDL	ug/L	0.030	11/16/2001	DLV
	Methoxychlor	< MDL	ug/L	0.039	11/16/2001	DLV
	PCB's	< MDL	ug/L	0.20	11/16/2001	DLV
	Propachlor	< MDL	ug/L	0.040	11/16/2001	DLV
	Toxaphene	< MDL	ug/L	0.40	11/16/2001	DLV

The recoveries for 4 of the 11 compounds in the LCS Standard were below their acceptance ranges.

Volatile Organic Compounds

524.2	*THM-Bromodichloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	*THM-Bromoform	< MDL	ug/L	2.0	11/15/2001	SV
524.2	*THM-Chloroform	< MDL	ug/L	0.5	11/15/2001	SV

Approved Pam Dilsizian

QA Officer

Date Approved: 2/1/2002

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NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Sample NYC DEP
19 WESTLAKE DRIVE
VALHALLA, N.Y.

Attention: Steve Schindler

Received EP

Bottle c619,p831,814,817,q726,697,703

Collected By: NEWMAN

Comment:

Sample CROGH

ID of Source:

Collection 11/11/2001 AT 7:40:00

Submitted 11/13/2001 AT 2:31:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27769

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	*THM-Dibromochloromethane	< MDL	ug/L	2.0	11/15/2001	SV
524.2	1,1,1,2-tetrachloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,1- trichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,2,2-tetrachloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1,2-trichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-dichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-Dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,1-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,3-trichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,3-trichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,4-trichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2,4-trimethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,2-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3,5-trimethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,3-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	1,4-dichlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	2,2-dichloropropane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	2-butanone (MEK)	< MDL	ug/L	2.0	11/15/2001	SV
524.2	2-chlorotoluene	< MDL	ug/L	0.5	11/15/2001	SV

Approved Pam Dilsizian

QA Officer

Date Approved: 2/1/2002

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NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water

465 Columbus Ave.

Valhalla, NY 10595

Attention: Steve Schindler

Received EP

Bottle c619,p831,814,817,q726,697,703

Collected By: NEWMAN

Comment:

Sample NYC DEP

19 WESTLAKE DRIVE

VALHALLA, N.Y.

Sample CROGH

ID of Source:

Collection 11/11/2001 AT 7:40:00

Submitted 11/13/2001 AT 2:31:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27769

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	4-chlorotoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Benzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromochloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Bromomethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Carbon tetrachloride	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chlorobenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chloroethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Chloromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	cis-1,2-dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	cis-1,3-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Dibromomethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Dichlorodifluoromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Ethylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Hexachlorobutadiene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Isopropylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Methyl iso-butyl ketone (MIBK)	< MDL	ug/L	1.0	11/15/2001	SV
524.2	Methyl tert-butyl ether (MTBE)	< MDL	ug/L	1.0	11/15/2001	SV
524.2	Methylene Chloride	< MDL	ug/L	0.5	11/15/2001	SV
524.2	N-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	N-propylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Naphthalene	< MDL	ug/L	0.5	11/15/2001	SV

Approved Pam Dilsizian

QA Officer

Date Approved: 2/1/2002

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NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Attention: Steve Schindler

Received EP

Bottle c619,p831,814,817,q726,697,703

Collected By: NEWMAN

Comment:

Sample NYC DEP

19 WESTLAKE DRIVE
VALHALLA, N.Y.

Sample CROGH

ID of Source:

Collection 11/11/2001 AT 7:40:00

Submitted 11/13/2001 AT 2:31:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27769

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
524.2	O-xylene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	P & M-xylene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	P-isopropyltoluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	SEC-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Styrene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	TERT-butylbenzene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Tetrachloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Toluene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	trans-1,2-dichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	trans-1,3-dichloropropene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Trichloroethene	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Trichlorofluoromethane	< MDL	ug/L	0.5	11/15/2001	SV
524.2	Vinyl chloride	< MDL	ug/L	0.5	11/15/2001	SV
<u>Organic Chemicals - 525.2</u>						
	2,4-Dinitrotoluene	< MDL	ug/L	2.0	11/24/2001	DLV
	2,6-Dinitrotoluene	< MDL	ug/L	2.0	11/24/2001	DLV
	4,4-DDE	< MDL	ug/L	0.80	11/24/2001	DLV
	Acetochlor	< MDL	ug/L	2.0	11/24/2001	DLV
	Alachlor	< MDL	ug/L	0.20	11/24/2001	DLV
	Atrazine	< MDL	ug/L	0.20	11/24/2001	DLV
	Benzo(a)pyrene	< MDL	ug/L	0.20	11/24/2001	DLV
	bis(2-Ethylhexyl)adipate	< MDL	ug/L	0.60	11/24/2001	DLV

Approved Pam Dilsizian

QA Officer

Date Approved: 2/1/2002

Environmental Laboratories

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Original 2/1/2002

NYS ELAP # 10108

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REPORT OF ANALYSIS

Westchester County Department of Labs and Research 2 Dana Road Valhalla, New York

Agency: NYCDEP Bureau Water
465 Columbus Ave.
Valhalla, NY 10595

Sample NYC DEP
19 WESTLAKE DRIVE
VALHALLA, N.Y.

Attention: Steve Schindler

Received EP

Bottle c619,p831,814,817,q726,697,703

Collected By: NEWMAN

Comment:

Sample CROGH

ID of Source:

Collection 11/11/2001 AT 7:40:00

Submitted 11/13/2001 AT 2:31:00

Sample Type: POT_DW

PWS No.:

Source Code: 000

Type Descriptor:

Sample chilled on arrival? : yes

Report

Sample No. AD27769

Method	Test Description	Results	Units	MDL	Analyzed on	Validator
	bis(2-Ethylhexyl)phthalate	< MDL	ug/L	0.60	11/24/2001	DLV
	Butachlor	< MDL	ug/L	0.40	11/24/2001	DLV
	EPTC	< MDL	ug/L	1.0	11/24/2001	DLV
	Hexachlorobenzene	< MDL	ug/L	0.10	11/24/2001	DLV
	Hexachlorocyclopentadiene	< MDL	ug/L	0.10	11/24/2001	DLV
	Metolachlor	< MDL	ug/L	0.75	11/24/2001	DLV
	Metribuzin	< MDL	ug/L	0.15	11/24/2001	DLV
	Molinate	< MDL	ug/L	0.90	11/24/2001	DLV
	Simazine	< MDL	ug/L	0.40	11/24/2001	DLV
	Terbacil	< MDL	ug/L	2.0	11/24/2001	DLV

The recoveries for 2 of the 18 compounds in the LCS Standard were below their acceptance ranges. The recoveries for 3 of the 18 compounds in the Spiked Sample were outside of their acceptance ranges. The breakdown for Endrin in the Breakdown Standard was 68%. The injection port is kept at 280 degrees Celcius which may be contributing to high Endrin Breakdown. An investigation into modifying injection port parameters will be made.

GCMS Scan For Unknowns

Other unknown compounds	.	ug/L	1/3/2002	DLV
-------------------------	---	------	----------	-----

A scan of the extract prepared for the 508 analysis, from 35-550 amu using a mass spectrometer, does not reveal the presence of non-target compounds.

Approved Pam Dilsizian

QA Officer

Date Approved: 2/1/2002

Environmental Laboratories

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Original 2/1/2002

NYS ELAP # 10108

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