

# REPORT OF ANALYSIS

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

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

Attention: Steve Schindler

**Received** KM

**Bottle** C1632,P2895,2920,Q2741,2739,

**Collected By:** WAGNER

**Comment:**

**Report**

**Sample** NYC DEP  
19 WEST LAKE DRIVE  
VALHALLA, N.Y.

**Sample** CATLEFF

**ID of Source:**

**Collection** 02/09/02 AT 8:15:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

## Sample No. AE03380

| Method                           | Test Description | Results | Units | MDL  | Analyzed on | Validator |
|----------------------------------|------------------|---------|-------|------|-------------|-----------|
| <b>Inorganics</b>                |                  |         |       |      |             |           |
| <u>ICPMS Metals for NEWE New</u> |                  |         |       |      |             |           |
| EPA94                            | Antimony         | < MDL   | ug/L  | 0.1  | 03/18/02    | PAD       |
| EPA94                            | Arsenic          | < MDL   | ug/L  | 2.0  | 03/18/02    | PAD       |
| EPA94                            | Barium           | 14.0    | ug/L  | 0.1  | 03/18/02    | PAD       |
| EPA94                            | Beryllium        | < MDL   | ug/L  | 2.0  | 03/18/02    | PAD       |
| EPA94                            | Cadmium          | < MDL   | ug/L  | 0.2  | 03/18/02    | PAD       |
| EPA94                            | Chromium         | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Copper           | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Lead             | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Manganese        | 20.1    | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Nickel           | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Selenium         | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Silver           | < MDL   | ug/L  | 2.0  | 03/18/02    | PAD       |
| EPA94                            | Thallium         | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Zinc             | < MDL   | ug/L  | 2.0  | 03/18/02    | PAD       |
| EPA94200.                        | Aluminum         | < MDL   | ug/L  | 50.0 | 03/26/02    | PAD       |
| EPA94                            | Cobalt           | < MDL   | ug/L  | 20.0 | 03/26/02    | PAD       |
| EPA94                            | Iron             | 29      | ug/L  | 20.0 | 03/26/02    | PAD       |
| EPA79                            | Mercury          | < MDL   | ug/L  | 0.40 | 02/13/02    | PAD       |

**Approved** Pam Dilsizian

QA Officer

**Date Approved:** 04/24/02

**Environmental Laboratories**

emailed

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465 Columbus Ave.  
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**Received** KM

**Bottle** C1632,P2895,2920,Q2741,2739,

**Collected By:** WAGNER

**Comment:**

## Report

**Sample** NYC DEP  
19 WEST LAKE DRIVE  
VALHALLA, N.Y.

**Sample** CATLEFF

**ID of Source:**

**Collection** 02/09/02 AT 8:15:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

## Sample No. AE03380

| Method | Test Description         | Results   | Units | MDL  | Analyzed on | Validator |
|--------|--------------------------|-----------|-------|------|-------------|-----------|
| EPA94  | Molybdenum               | < MDL     | ug/L  | 50.0 | 03/26/02    | PAD       |
| EPA79  | Potable Metals Digestion | Completed |       |      | 02/14/02    | PAD       |
| SM18   | Tin                      | < MDL     | ug/L  | 100  | 02/25/02    | PAD       |

## Organics

### Volatile Organic Compounds

|       |                           |       |      |     |          |    |
|-------|---------------------------|-------|------|-----|----------|----|
| 524.2 | *THM-Bromodichloromethane | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | *THM-Bromoform            | < MDL | ug/L | 2.0 | 02/15/02 | SV |
| 524.2 | *THM-Chloroform           | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | *THM-Dibromochloromethane | < MDL | ug/L | 2.0 | 02/15/02 | SV |
| 524.2 | 1,1,1,2-tetrachloroethane | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1,1- trichloroethane    | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1,2,2-tetrachloroethane | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1,2-trichloroethane     | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1-dichloroethane        | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1-Dichloroethene        | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1-dichloropropene       | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,2,3-trichlorobenzene    | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,2,3-trichloropropane    | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,2,4-trichlorobenzene    | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,2,4-trimethylbenzene    | < MDL | ug/L | 0.5 | 02/15/02 | SV |

**Approved** Pam Dilsizian

QA Officer

**Date Approved:** 04/24/02

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**Collected By:** WAGNER

**Comment:**

**Report**

**Sample** NYC DEP  
19 WEST LAKE DRIVE  
VALHALLA, N.Y.

**Sample** CATLEFF

**ID of Source:**

**Collection** 02/09/02 AT 8:15:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

## Sample No. AE03380

| Method | Test Description        | Results    | Units | MDL | Analyzed on | Validator |
|--------|-------------------------|------------|-------|-----|-------------|-----------|
| 524.2  | 1,2-dichlorobenzene     | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,2-dichloroethane      | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,2-dichloropropane     | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,3,5-trimethylbenzene  | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,3-dichlorobenzene     | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,3-dichloropropane     | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,4-dichlorobenzene     | 0.12-below | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 2,2-dichloropropane     | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 2-butanone (MEK)        | < MDL      | ug/L  | 2.0 | 02/15/02    | SV        |
| 524.2  | 2-chlorotoluene         | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 4-chlorotoluene         | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Benzene                 | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Bromobenzene            | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Bromochloromethane      | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Bromomethane            | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Carbon tetrachloride    | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Chlorobenzene           | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Chloroethane            | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Chloromethane           | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | cis-1,2-dichloroethene  | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | cis-1,3-dichloropropene | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Dibromomethane          | < MDL      | ug/L  | 0.5 | 02/15/02    | SV        |

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QA Officer

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19 WEST LAKE DRIVE  
VALHALLA, N.Y.

Attention: Steve Schindler

**Received** KM

**Bottle** C1632,P2895,2920,Q2741,2739,

**Collected By:** WAGNER

**Comment:**

**Sample** CATLEFF

**ID of Source:**

**Collection** 02/09/02 AT 8:15:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

## Report

### Sample No. AE03380

| Method | Test Description               | Results | Units | MDL | Analyzed on | Validator |
|--------|--------------------------------|---------|-------|-----|-------------|-----------|
| 524.2  | Dichlorodifluoromethane        | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Ethylbenzene                   | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Hexachlorobutadiene            | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Isopropylbenzene               | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Methyl iso-butyl ketone (MIBK) | < MDL   | ug/L  | 1.0 | 02/15/02    | SV        |
| 524.2  | Methyl tert-butyl ether (MTBE) | < MDL   | ug/L  | 1.0 | 02/15/02    | SV        |
| 524.2  | Methylene Chloride             | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | N-butylbenzene                 | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | N-propylbenzene                | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Naphthalene                    | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | O-xylene                       | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | P & M-xylene                   | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | P-isopropyltoluene             | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | SEC-butylbenzene               | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Styrene                        | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | TERT-butylbenzene              | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Tetrachloroethene              | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Toluene                        | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | trans-1,2-dichloroethene       | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | trans-1,3-dichloropropene      | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Trichloroethene                | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Trichlorofluoromethane         | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |

**Approved** Pam Dilsizian

QA Officer

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**Collected By:** WAGNER

**Comment:**

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19 WEST LAKE DRIVE  
VALHALLA, N.Y.

**Sample** CATLEFF

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**Collection** 02/09/02 AT 8:15:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

**Sample No. AE03380**

| Method                                                 | Test Description        | Results | Units | MDL | Analyzed on | Validator |
|--------------------------------------------------------|-------------------------|---------|-------|-----|-------------|-----------|
| 524.2                                                  | Vinyl chloride          | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| The recovery of 2,2-dichloropropane in the CCV is 68%. |                         |         |       |     |             |           |
| The recovery of naphthalene in the CCV is 62%.         |                         |         |       |     |             |           |
| <u>GCMS Scan For Unknowns</u>                          |                         |         |       |     |             |           |
|                                                        | Other unknown compounds | .       | ug/L  |     | 03/29/02    | DLV       |

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds. The recoveries for the compounds in the LCS Standard were high. New limits will be calculated.

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

Attention: Steve Schindler

**Received** KM

**Bottle** C1463,P2795,2796,Q2655,2658,

**Collected By:** WAGNER

**Comment:**

**Report**

**Sample** NYC DEP  
19 WEST LAKE DRIVE  
VALHALLA, N.Y.

**Sample** DEL18

**ID of Source:**

**Collection** 02/09/02 AT 8:40:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

## Sample No. AE03381

| Method                           | Test Description | Results | Units | MDL  | Analyzed on | Validator |
|----------------------------------|------------------|---------|-------|------|-------------|-----------|
| <b>Inorganics</b>                |                  |         |       |      |             |           |
| <u>ICPMS Metals for NEWE New</u> |                  |         |       |      |             |           |
| EPA94                            | Antimony         | < MDL   | ug/L  | 0.1  | 03/18/02    | PAD       |
| EPA94                            | Arsenic          | < MDL   | ug/L  | 2.0  | 03/18/02    | PAD       |
| EPA94                            | Barium           | 13.9    | ug/L  | 0.1  | 03/18/02    | PAD       |
| EPA94                            | Beryllium        | < MDL   | ug/L  | 2.0  | 03/18/02    | PAD       |
| EPA94                            | Cadmium          | < MDL   | ug/L  | 0.2  | 03/18/02    | PAD       |
| EPA94                            | Chromium         | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Copper           | 1.3     | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Lead             | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Manganese        | 19.6    | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Nickel           | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Selenium         | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Silver           | < MDL   | ug/L  | 2.0  | 03/18/02    | PAD       |
| EPA94                            | Thallium         | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Zinc             | < MDL   | ug/L  | 2.0  | 03/18/02    | PAD       |
| EPA94200.                        | Aluminum         | < MDL   | ug/L  | 50.0 | 03/26/02    | PAD       |
| EPA94                            | Cobalt           | < MDL   | ug/L  | 20.0 | 03/26/02    | PAD       |
| EPA94                            | Iron             | 27      | ug/L  | 20.0 | 03/26/02    | PAD       |
| EPA79                            | Mercury          | < MDL   | ug/L  | 0.40 | 02/13/02    | PAD       |

**Approved** Pam Dilsizian

QA Officer

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19 WEST LAKE DRIVE  
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**Received** KM

**Bottle** C1463,P2795,2796,Q2655,2658,

**Collected By:** WAGNER

**Comment:**

**Sample** DEL18

**ID of Source:**

**Collection** 02/09/02 AT 8:40:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

## Report

### Sample No. AE03381

| Method | Test Description         | Results   | Units | MDL  | Analyzed on | Validator |
|--------|--------------------------|-----------|-------|------|-------------|-----------|
| EPA94  | Molybdenum               | < MDL     | ug/L  | 50.0 | 03/26/02    | PAD       |
| EPA79  | Potable Metals Digestion | Completed |       |      | 02/14/02    | PAD       |
| SM18   | Tin                      | < MDL     | ug/L  | 100  | 02/25/02    | PAD       |

### Organics

#### Volatile Organic Compounds

|       |                           |       |      |     |          |    |
|-------|---------------------------|-------|------|-----|----------|----|
| 524.2 | *THM-Bromodichloromethane | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | *THM-Bromoform            | < MDL | ug/L | 2.0 | 02/15/02 | SV |
| 524.2 | *THM-Chloroform           | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | *THM-Dibromochloromethane | < MDL | ug/L | 2.0 | 02/15/02 | SV |
| 524.2 | 1,1,1,2-tetrachloroethane | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1,1- trichloroethane    | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1,2,2-tetrachloroethane | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1,2-trichloroethane     | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1-dichloroethane        | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1-Dichloroethene        | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1-dichloropropene       | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,2,3-trichlorobenzene    | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,2,3-trichloropropane    | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,2,4-trichlorobenzene    | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,2,4-trimethylbenzene    | < MDL | ug/L | 0.5 | 02/15/02 | SV |

**Approved** Pam Dilsizian

QA Officer

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19 WEST LAKE DRIVE  
VALHALLA, N.Y.

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**Type Descriptor:**

## Sample No. AE03381

| Method | Test Description        | Results | Units | MDL | Analyzed on | Validator |
|--------|-------------------------|---------|-------|-----|-------------|-----------|
| 524.2  | 1,2-dichlorobenzene     | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,2-dichloroethane      | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,2-dichloropropane     | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,3,5-trimethylbenzene  | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,3-dichlorobenzene     | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,3-dichloropropane     | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,4-dichlorobenzene     | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 2,2-dichloropropane     | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 2-butanone (MEK)        | < MDL   | ug/L  | 2.0 | 02/15/02    | SV        |
| 524.2  | 2-chlorotoluene         | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 4-chlorotoluene         | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Benzene                 | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Bromobenzene            | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Bromochloromethane      | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Bromomethane            | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Carbon tetrachloride    | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Chlorobenzene           | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Chloroethane            | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Chloromethane           | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | cis-1,2-dichloroethene  | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | cis-1,3-dichloropropene | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Dibromomethane          | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |

**Approved** Pam Dilsizian

QA Officer

**Date Approved:** 04/24/02

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# REPORT OF ANALYSIS

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

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

Attention: Steve Schindler

**Received** KM

**Bottle** C1463,P2795,2796,Q2655,2658,

**Collected By:** WAGNER

**Comment:**

**Report**

**Sample** NYC DEP  
19 WEST LAKE DRIVE  
VALHALLA, N.Y.

**Sample** DEL18

**ID of Source:**

**Collection** 02/09/02 AT 8:40:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

## Sample No. AE03381

| Method | Test Description               | Results | Units | MDL | Analyzed on | Validator |
|--------|--------------------------------|---------|-------|-----|-------------|-----------|
| 524.2  | Dichlorodifluoromethane        | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Ethylbenzene                   | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Hexachlorobutadiene            | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Isopropylbenzene               | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Methyl iso-butyl ketone (MIBK) | < MDL   | ug/L  | 1.0 | 02/15/02    | SV        |
| 524.2  | Methyl tert-butyl ether (MTBE) | < MDL   | ug/L  | 1.0 | 02/15/02    | SV        |
| 524.2  | Methylene Chloride             | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | N-butylbenzene                 | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | N-propylbenzene                | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Naphthalene                    | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | O-xylene                       | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | P & M-xylene                   | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | P-isopropyltoluene             | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | SEC-butylbenzene               | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Styrene                        | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | TERT-butylbenzene              | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Tetrachloroethene              | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Toluene                        | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | trans-1,2-dichloroethene       | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | trans-1,3-dichloropropene      | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Trichloroethene                | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Trichlorofluoromethane         | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |

**Approved** Pam Dilsizian

QA Officer

**Date Approved:** 04/24/02

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# REPORT OF ANALYSIS

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

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

Attention: Steve Schindler

**Received** KM

**Bottle** C1463,P2795,2796,Q2655,2658,

**Collected By:** WAGNER

**Comment:**

**Report**

**Sample** NYC DEP  
19 WEST LAKE DRIVE  
VALHALLA, N.Y.

**Sample** DEL18

**ID of Source:**

**Collection** 02/09/02 AT 8:40:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

---

## Sample No. AE03381

| Method | Test Description | Results | Units | MDL | Analyzed on | Validator |
|--------|------------------|---------|-------|-----|-------------|-----------|
| 524.2  | Vinyl chloride   | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |

The recovery of 2,2-dichloropropane in the CCV is 68%.  
The recovery of naphthalene in the CCV is 62%.

GCMS Scan For Unknowns

|                         |   |      |          |     |
|-------------------------|---|------|----------|-----|
| Other unknown compounds | . | ug/L | 03/29/02 | DLV |
|-------------------------|---|------|----------|-----|

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds. The recoveries for the compounds in the LCS Standard were high. New limits will be calculated.

---

**Approved** Pam Dilsizian

QA Officer

---

**Environmental Laboratories**

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**Date Approved:** 04/24/02

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# REPORT OF ANALYSIS

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

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

Attention: Steve Schindler

**Received** KM

**Bottle** C1601,P2910,2922,Q2749,2745,

**Collected By:** WAGNER

**Comment:**

**Report**

**Sample** NYC DEP  
19 WEST LAKE DRIVE  
VALHALLA, N.Y.

**Sample** CROGH

**ID of Source:**

**Collection** 02/09/02 AT 1:05:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

## Sample No. AE03382

| Method                           | Test Description | Results | Units | MDL  | Analyzed on | Validator |
|----------------------------------|------------------|---------|-------|------|-------------|-----------|
| <b>Inorganics</b>                |                  |         |       |      |             |           |
| <u>ICPMS Metals for NEWE New</u> |                  |         |       |      |             |           |
| EPA94                            | Antimony         | < MDL   | ug/L  | 0.1  | 03/18/02    | PAD       |
| EPA94                            | Arsenic          | < MDL   | ug/L  | 2.0  | 03/18/02    | PAD       |
| EPA94                            | Barium           | 30.2    | ug/L  | 0.1  | 03/18/02    | PAD       |
| EPA94                            | Beryllium        | < MDL   | ug/L  | 2.0  | 03/18/02    | PAD       |
| EPA94                            | Cadmium          | < MDL   | ug/L  | 0.2  | 03/18/02    | PAD       |
| EPA94                            | Chromium         | 1.7     | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Copper           | 1.1     | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Lead             | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Manganese        | 69.3    | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Nickel           | 1.1     | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Selenium         | 1.3     | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Silver           | < MDL   | ug/L  | 2.0  | 03/18/02    | PAD       |
| EPA94                            | Thallium         | < MDL   | ug/L  | 1.0  | 03/18/02    | PAD       |
| EPA94                            | Zinc             | < MDL   | ug/L  | 2.0  | 03/18/02    | PAD       |
| EPA94200.                        | Aluminum         | < MDL   | ug/L  | 50.0 | 03/26/02    | PAD       |
| EPA94                            | Cobalt           | < MDL   | ug/L  | 20.0 | 03/26/02    | PAD       |
| EPA94                            | Iron             | 52      | ug/L  | 20.0 | 03/26/02    | PAD       |
| EPA79                            | Mercury          | < MDL   | ug/L  | 0.40 | 02/13/02    | PAD       |

**Approved** Pam Dilsizian

QA Officer

**Date Approved:** 04/24/02

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# REPORT OF ANALYSIS

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

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

Attention: Steve Schindler

**Received** KM

**Bottle** C1601,P2910,2922,Q2749,2745,

**Collected By:** WAGNER

**Comment:**

## Report

**Sample** NYC DEP  
19 WEST LAKE DRIVE  
VALHALLA, N.Y.

**Sample** CROGH

**ID of Source:**

**Collection** 02/09/02 AT 1:05:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

## Sample No. AE03382

| Method | Test Description         | Results   | Units | MDL  | Analyzed on | Validator |
|--------|--------------------------|-----------|-------|------|-------------|-----------|
| EPA94  | Molybdenum               | < MDL     | ug/L  | 50.0 | 03/26/02    | PAD       |
| EPA79  | Potable Metals Digestion | Completed |       |      | 02/14/02    | PAD       |
| SM18   | Tin                      | < MDL     | ug/L  | 100  | 02/25/02    | PAD       |

### Organics

#### Volatile Organic Compounds

|       |                           |       |      |     |          |    |
|-------|---------------------------|-------|------|-----|----------|----|
| 524.2 | *THM-Bromodichloromethane | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | *THM-Bromoform            | < MDL | ug/L | 2.0 | 02/15/02 | SV |
| 524.2 | *THM-Chloroform           | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | *THM-Dibromochloromethane | < MDL | ug/L | 2.0 | 02/15/02 | SV |
| 524.2 | 1,1,1,2-tetrachloroethane | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1,1- trichloroethane    | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1,2,2-tetrachloroethane | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1,2-trichloroethane     | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1-dichloroethane        | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1-Dichloroethene        | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,1-dichloropropene       | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,2,3-trichlorobenzene    | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,2,3-trichloropropane    | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,2,4-trichlorobenzene    | < MDL | ug/L | 0.5 | 02/15/02 | SV |
| 524.2 | 1,2,4-trimethylbenzene    | < MDL | ug/L | 0.5 | 02/15/02 | SV |

**Approved** Pam Dilsizian

QA Officer

**Date Approved:** 04/24/02

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# REPORT OF ANALYSIS

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

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

Attention: Steve Schindler

**Received** KM

**Bottle** C1601,P2910,2922,Q2749,2745,

**Collected By:** WAGNER

**Comment:**

**Report**

**Sample** NYC DEP  
19 WEST LAKE DRIVE  
VALHALLA, N.Y.

**Sample** CROGH

**ID of Source:**

**Collection** 02/09/02 AT 1:05:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

## Sample No. AE03382

| Method | Test Description        | Results | Units | MDL | Analyzed on | Validator |
|--------|-------------------------|---------|-------|-----|-------------|-----------|
| 524.2  | 1,2-dichlorobenzene     | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,2-dichloroethane      | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,2-dichloropropane     | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,3,5-trimethylbenzene  | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,3-dichlorobenzene     | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,3-dichloropropane     | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 1,4-dichlorobenzene     | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 2,2-dichloropropane     | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 2-butanone (MEK)        | < MDL   | ug/L  | 2.0 | 02/15/02    | SV        |
| 524.2  | 2-chlorotoluene         | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | 4-chlorotoluene         | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Benzene                 | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Bromobenzene            | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Bromochloromethane      | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Bromomethane            | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Carbon tetrachloride    | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Chlorobenzene           | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Chloroethane            | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Chloromethane           | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | cis-1,2-dichloroethene  | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | cis-1,3-dichloropropene | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Dibromomethane          | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |

**Approved** Pam Dilsizian

QA Officer

**Date Approved:** 04/24/02

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# REPORT OF ANALYSIS

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

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

Attention: Steve Schindler

**Received** KM

**Bottle** C1601,P2910,2922,Q2749,2745,

**Collected By:** WAGNER

**Comment:**

## Report

**Sample** NYC DEP  
19 WEST LAKE DRIVE  
VALHALLA, N.Y.

**Sample** CROGH

**ID of Source:**

**Collection** 02/09/02 AT 1:05:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

## Sample No. AE03382

| Method | Test Description               | Results | Units | MDL | Analyzed on | Validator |
|--------|--------------------------------|---------|-------|-----|-------------|-----------|
| 524.2  | Dichlorodifluoromethane        | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Ethylbenzene                   | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Hexachlorobutadiene            | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Isopropylbenzene               | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Methyl iso-butyl ketone (MIBK) | < MDL   | ug/L  | 1.0 | 02/15/02    | SV        |
| 524.2  | Methyl tert-butyl ether (MTBE) | < MDL   | ug/L  | 1.0 | 02/15/02    | SV        |
| 524.2  | Methylene Chloride             | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | N-butylbenzene                 | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | N-propylbenzene                | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Naphthalene                    | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | O-xylene                       | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | P & M-xylene                   | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | P-isopropyltoluene             | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | SEC-butylbenzene               | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Styrene                        | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | TERT-butylbenzene              | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Tetrachloroethene              | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Toluene                        | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | trans-1,2-dichloroethene       | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | trans-1,3-dichloropropene      | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Trichloroethene                | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| 524.2  | Trichlorofluoromethane         | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |

**Approved** Pam Dilsizian

QA Officer

**Date Approved:** 04/24/02

**Environmental Laboratories**

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# REPORT OF ANALYSIS

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

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

Attention: Steve Schindler

**Received** KM

**Bottle** C1601,P2910,2922,Q2749,2745,

**Collected By:** WAGNER

**Comment:**

**Report**

**Sample** NYC DEP  
19 WEST LAKE DRIVE  
VALHALLA, N.Y.

**Sample** CROGH

**ID of Source:**

**Collection** 02/09/02 AT 1:05:00

**Submitted** 02/11/02 AT 2:43:00

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:** 000

**Type Descriptor:**

---

## Sample No. AE03382

| Method                                                                                                                                                                               | Test Description        | Results | Units | MDL | Analyzed on | Validator |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|-------|-----|-------------|-----------|
| 524.2                                                                                                                                                                                | Vinyl chloride          | < MDL   | ug/L  | 0.5 | 02/15/02    | SV        |
| The recovery of 2,2-dichloropropane in the CCV is 68%.                                                                                                                               |                         |         |       |     |             |           |
| The recovery of naphthalene in the CCV is 62%.                                                                                                                                       |                         |         |       |     |             |           |
| <u>GCMS Scan For Unknowns</u>                                                                                                                                                        |                         |         |       |     |             |           |
|                                                                                                                                                                                      | Other unknown compounds | .       | ug/L  |     | 03/29/02    | DLV       |
| The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds. The recoveries for the compounds in the LCS Standard were high. New limits will be calculated. |                         |         |       |     |             |           |

---

**Approved** Pam Dilsizian

QA Officer

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**Environmental Laboratories**

**NYS ELAP # 10108**

**Date Approved:** 04/24/02

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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** FBW

Attention: Steve Schindler  
**Received** KM  
**Bottle** P258,Q2382  
**Collected By:** LAB  
**Comment:**

**Sample** FBW  
**ID of Source:**  
**Collection** 2/9/2002 AT 12:00:00  
**Submitted** 2/11/2002 AT 2:43:00  
**Sample Type:** POT\_DW  
**PWS No.:** **Source Code:** 000

**Type Descriptor:**  
**Sample chilled on arrival? :** YES

**Report**

**Sample No. AE03383**

| Method                        | Test Description        | Results | Units | MDL | Analyzed on | Validator |
|-------------------------------|-------------------------|---------|-------|-----|-------------|-----------|
| <b>Organics</b>               |                         |         |       |     |             |           |
| <b>GCMS Scan For Unknowns</b> |                         |         |       |     |             |           |
|                               | Other unknown compounds | .       | ug/L  |     | 3/29/2002   | DLV       |

The GCMS scan, from 35 to 550 amu, does not reveal the presence of unusual compounds. The recoveries for the compounds in the LCS Standard were high. New limits will be calculated. This sample will be reextracted and reanalyzed. This sample is the Field Blank.

**Approved** Pam Dilsizian **QA Officer**

**Environmental Laboratories**

**NYS ELAP # 10108**

**Date Approved:** 3/29/2002

emailed Original 3/29/2002