

# REPORT OF ANALYSIS

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

**Agency:** New York City DEP DWQC

Distribution Laboratory

96-05 Horace Harding Ex.

Corona N.Y. 11368

Dr. Ian Hurley

**Received** LK

**Bottle** c0376,q9796,24,9447,p9410,943

**Collected By:** TIGLAO

**Comment:**

**Sample** HILLVIEW BX

**Sample** 58

**ID of Source:**

**Collection** 10/22/2001 AT 9:25:00

**Submitted** 10/22/2001 AT

**Sample Type:** POT\_DW

**PWS No.:**

**Source Code:**

**Type Descriptor:**

**Sample chilled on arrival? :** YES

## Report

### Sample No. AD25874

| Method                   | Test Description | Results | Units | MDL    | Analyzed on | Validator |
|--------------------------|------------------|---------|-------|--------|-------------|-----------|
| <b><u>Inorganics</u></b> |                  |         |       |        |             |           |
| EPA94                    | Silver           | < MDL   | ug/L  | 20.0   | 11/9/2001   | PAD       |
| EPA94200.                | Aluminum         | < MDL   | ug/L  | 50.0   | 11/9/2001   | PAD       |
| SM18                     | Arsenic          | < MDL   | ug/L  | 20     | 10/29/2001  | PAD       |
| EPA94                    | Barium           | < MDL   | ug/L  | 200.0  | 11/9/2001   | PAD       |
| EPA94                    | Beryllium        | < MDL   | ug/L  | 2      | 11/9/2001   | PAD       |
| EPA94                    | Calcium          | 5800    | ug/L  | 1000.0 | 11/9/2001   | PAD       |
| EPA94                    | Cadmium          | < MDL   | ug/L  | 2.0    | 11/9/2001   | PAD       |
| EPA94                    | Cobalt           | < MDL   | ug/L  | 20.0   | 11/9/2001   | PAD       |
| EPA94                    | Chromium         | < MDL   | ug/L  | 10.0   | 11/9/2001   | PAD       |
| EPA94                    | Copper           | < MDL   | ug/L  | 20.0   | 11/9/2001   | PAD       |
| EPA94                    | Iron             | 27      | ug/L  | 20.0   | 11/9/2001   | PAD       |
| EPA79                    | Mercury          | < MDL   | ug/L  | 0.40   | 10/24/2001  | PAD       |
| SM18                     | Potassium        | 520     | ug/L  | 100.0  | 10/31/2001  | PAD       |

**Approved** Pam Dilsizian

QA Officer

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|--------|--------------------------|-----------|-------|--------|-------------|-----------|
| EPA94  | Magnesium                | 1200      | ug/L  | 1000.0 | 11/9/2001   | PAD       |
| EPA94  | Manganese                | 24        | ug/L  | 20.0   | 11/9/2001   | PAD       |
| EPA94  | Molybdenum               | < MDL     | ug/L  | 50.0   | 11/9/2001   | PAD       |
| EPA94  | Sodium                   | 7100      | ug/L  | 1000.0 | 11/9/2001   | PAD       |
| EPA94  | Nickel                   | < MDL     | ug/L  | 20.0   | 11/9/2001   | PAD       |
| SM18   | Lead                     | < MDL     | ug/L  | 1.0    | 11/5/2001   | PAD       |
| EPA'79 | Potable Metals Digestion | Completed |       |        | 10/26/2001  | PAD       |
| SM18   | Antimony                 | < MDL     | ug/L  | 6      | 11/9/2001   | PAD       |
| SM18   | Selenium                 | < MDL     | ug/L  | 2      | 11/8/2001   | PAD       |
| SM18   | Tin                      | < MDL     | ug/L  | 100    | 10/30/2001  | PAD       |
| SM18   | Titanium                 | < MDL     | ug/L  | 100    | 11/1/2001   | PAD       |
| EPA94  | Thallium                 | < MDL     | ug/L  | 2      | 10/30/2001  | PAD       |
| EPA94  | Vanadium                 | < MDL     | ug/L  | 20.0   | 11/9/2001   | PAD       |
| EPA94  | Zinc                     | < MDL     | ug/L  | 20.0   | 11/9/2001   | PAD       |

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| Method                           | Test Description   | Results      | Units | MDL   | Analyzed on | Validator |
|----------------------------------|--------------------|--------------|-------|-------|-------------|-----------|
| <b>Organics</b>                  |                    |              |       |       |             |           |
| <u>Chlorine Pesticides - 508</u> |                    |              |       |       |             |           |
|                                  | 4,4-DDE            | < MDL        | ug/L  | 0.080 | 10/31/2001  | DLV       |
|                                  | Aldrin             | < MDL        | ug/L  | 0.010 | 10/31/2001  | DLV       |
|                                  | Chlordane          | < MDL        | ug/L  | 0.40  | 10/31/2001  | DLV       |
|                                  | Dieldrin           | < MDL        | ug/L  | 0.016 | 10/31/2001  | DLV       |
|                                  | Endrin             | < MDL        | ug/L  | 0.020 | 10/31/2001  | DLV       |
|                                  | Heptachlor         | < MDL        | ug/L  | 0.020 | 10/31/2001  | DLV       |
|                                  | Heptachlor Epoxide | < MDL        | ug/L  | 0.030 | 10/31/2001  | DLV       |
|                                  | Lindane            | < MDL        | ug/L  | 0.030 | 10/31/2001  | DLV       |
|                                  | Methoxychlor       | Not analyzed | ug/L  | 0.039 | 10/31/2001  | DLV       |
|                                  | PCB's              | < MDL        | ug/L  | 0.20  | 10/31/2001  | DLV       |
|                                  | Propachlor         | < MDL        | ug/L  | 0.040 | 10/31/2001  | DLV       |
|                                  | Toxaphene          | < MDL        | ug/L  | 0.40  | 10/31/2001  | DLV       |

The breakdown for Endrin in the Breakdown Standard was 25%. Methoxychlor could not be included in the analysis because of technical problems.

#### Volatile Organic Compounds

|       |                           |       |      |     |            |    |
|-------|---------------------------|-------|------|-----|------------|----|
| 524.2 | *THM-Bromodichloromethane | 3.3   | ug/L | .5  | 10/23/2001 | SV |
| 524.2 | *THM-Bromoform            | < MDL | ug/L | 2.0 | 10/23/2001 | SV |
| 524.2 | *THM-Chloroform           | 20    | ug/L | .5  | 10/23/2001 | SV |
| 524.2 | *THM-Dibromochloromethane | < MDL | ug/L | 2.0 | 10/23/2001 | SV |
| 524.2 | 1,1,1,2-tetrachloroethane | < MDL | ug/L | .5  | 10/23/2001 | SV |

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| Method | Test Description          | Results | Units | MDL | Analyzed on | Validator |
|--------|---------------------------|---------|-------|-----|-------------|-----------|
| 524.2  | 1,1,1- trichloroethane    | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,1,2,2-tetrachloroethane | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,1,2-trichloroethane     | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,1-dichloroethane        | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,1-Dichloroethene        | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,1-dichloropropene       | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,2,3-trichlorobenzene    | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,2,3-trichloropropane    | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,2,4-trichlorobenzene    | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,2,4-trimethylbenzene    | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,2-dichlorobenzene       | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,2-dichloroethane        | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,2-dichloropropane       | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,3,5-trimethylbenzene    | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,3-dichlorobenzene       | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,3-dichloropropane       | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 1,4-dichlorobenzene       | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 2,2-dichloropropane       | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 2-butanone (MEK)          | < MDL   | ug/L  | 2.0 | 10/23/2001  | SV        |
| 524.2  | 2-chlorotoluene           | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | 4-chlorotoluene           | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Benzene                   | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |

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|--------|--------------------------------|---------|-------|-----|-------------|-----------|
| 524.2  | Bromobenzene                   | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Bromochloromethane             | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Bromomethane                   | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Carbon tetrachloride           | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Chlorobenzene                  | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Chloroethane                   | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Chloromethane                  | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | cis-1,2-dichloroethene         | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | cis-1,3-dichloropropene        | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Dibromomethane                 | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Dichlorodifluoromethane        | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Ethylbenzene                   | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Hexachlorobutadiene            | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Isopropylbenzene               | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Methyl iso-butyl ketone (MIBK) | < MDL   | ug/L  | 1.0 | 10/23/2001  | SV        |
| 524.2  | Methyl tert-butyl ether (MTBE) | < MDL   | ug/L  | 1.0 | 10/23/2001  | SV        |
| 524.2  | Methylene Chloride             | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | N-butylbenzene                 | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | N-propylbenzene                | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Naphthalene                    | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | O-xylene                       | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | P & M-xylene                   | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |

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|--------|---------------------------|---------|-------|-----|-------------|-----------|
| 524.2  | P-isopropyltoluene        | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | SEC-butylbenzene          | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Styrene                   | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | TERT-butylbenzene         | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Tetrachloroethene         | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Toluene                   | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | trans-1,2-dichloroethene  | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | trans-1,3-dichloropropene | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Trichloroethene           | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Trichlorofluoromethane    | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |
| 524.2  | Vinyl chloride            | < MDL   | ug/L  | .5  | 10/23/2001  | SV        |

DICHLOROACETONITRILE FOUND AS A TENTATIVELY IDENTIFIED COMPOUND BY METHOD 524.2. THE APPROXIMATE CONCENTRATION IS 0.07 ug/L.

#### Organic Chemicals - 525.2

|                          |       |      |      |           |     |
|--------------------------|-------|------|------|-----------|-----|
| 2,4-Dinitrotoluene       | < MDL | ug/L | 2.0  | 11/1/2001 | DLV |
| 2,6-Dinitrotoluene       | < MDL | ug/L | 2.0  | 11/1/2001 | DLV |
| 4,4-DDE                  | < MDL | ug/L | 0.80 | 11/1/2001 | DLV |
| Acetochlor               | < MDL | ug/L | 2.0  | 11/1/2001 | DLV |
| Alachlor                 | < MDL | ug/L | 0.20 | 11/1/2001 | DLV |
| Atrazine                 | < MDL | ug/L | 0.20 | 11/1/2001 | DLV |
| Benzo(a)pyrene           | < MDL | ug/L | 0.20 | 11/1/2001 | DLV |
| bis(2-Ethylhexyl)adipate | < MDL | ug/L | 0.60 | 11/1/2001 | DLV |

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| Method     | Test Description           | Results | Units | MDL  | Analyzed on | Validator |
|            | bis(2-Ethylhexyl)phthalate | 2.1     | ug/L  | 0.60 | 11/1/2001   | DLV       |
|            | Butachlor                  | < MDL   | ug/L  | 0.40 | 11/1/2001   | DLV       |
|            | EPTC                       | < MDL   | ug/L  | 1.0  | 11/1/2001   | DLV       |
|            | Hexachlorobenzene          | < MDL   | ug/L  | 0.10 | 11/1/2001   | DLV       |
|            | Hexachlorocyclopentadiene  | < MDL   | ug/L  | 0.10 | 11/1/2001   | DLV       |
|            | Metolachlor                | < MDL   | ug/L  | 0.75 | 11/1/2001   | DLV       |
|            | Metribuzin                 | < MDL   | ug/L  | 0.15 | 11/1/2001   | DLV       |
|            | Molinate                   | < MDL   | ug/L  | 0.90 | 11/1/2001   | DLV       |
|            | Simazine                   | < MDL   | ug/L  | 0.40 | 11/1/2001   | DLV       |
|            | Terbacil                   | < MDL   | ug/L  | 2.0  | 11/1/2001   | DLV       |

Recoveries for 2 of the 18 compounds in the MDL Standard were above thier acceptance ranges. Recoveries for 3 of the 18 compounds in the LCS Standard were outside of their acceptance ranges. Recoveries for 4 of the 18 compounds in the Spiked Sample were outside of their acceptance ranges. The recovery for 1 of the 3 Surrogate Standards in this sample was below its acceptance range.

| GCMS Scan For Unknowns  |      |            |     |
|-------------------------|------|------------|-----|
| Other unknown compounds | ug/L | 12/12/2001 | DLV |

A scan of the extract prepared for the 508 analysis, from 35 to 550 amu using a mass spectrometer, does not reveal the presence of non-target compounds, except for 1,1,2,2-Tetrachloroethane at an estimated level of 0.48 ug/L and a fit of 95 out of 100. The Field Blank for this sample will be analyzed.

|                            |            |                             |
|----------------------------|------------|-----------------------------|
| Approved Pam Dilsizian     | QA Officer | Date Approved: 12/13/2001   |
| Environmental Laboratories |            | emailed Original 12/13/2001 |
| NYS ELAP # 10108           |            | Page 7 of 7                 |