Keystone LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

Accreditations:
Iowa DNR: 095
New Jersey DEP: IA001
Kansas DHE: E-10287

# ANALYTICAL REPORT

**October 27, 2003**

**Work Order: 13J0548**



**Report To**

Diane Krueger
Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order Information**

Date Received: 10/13/2003 8:25AM
Collector:
Phone: (248) 344-0205
PO Number:

Project : Jefferson Barracks ANG
Project Number: Jefferson Barracks ANG

| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **13J0548-01** Dup-1 | | | | Matrix:Water | | Collected: 10/10/03 08:00 | |
| *Determination of Volatile Organic Compounds* | | | | | | | |
| Chloromethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Vinyl Chloride | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Bromomethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Chloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 1,1-Dichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Acetone | <10.0 ug/l | 10.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Carbon Disulfide | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Methylene Chloride | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| trans-1,2-Dichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Methyl-t-butyl Ether (MTBE) | <2.0 ug/l | 2.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 1,1-Dichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| cis-1,2-Dichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 2-Butanone (MEK) | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Chloroform | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 1,1,1-Trichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Carbon Tetrachloride | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Benzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 1,2-Dichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 1,2-Dichloropropane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Bromodichloromethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| cis-1,3-Dichloropropene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 4-Methyl-2-pentanone (MIBK) | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Toluene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| trans-1,3-Dichloropropene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 1,1,2-Trichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Tetrachloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 2-Hexanone (MBK) | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Dibromochloromethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Chlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Ethylbenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **13J0548-01** Dup-1 | | | | Matrix: Water | | Collected: 10/10/03 08:00 | |
| *Determination of Volatile Organic Compounds* | | | | | | | |
| Xylenes, total | <2.0 ug/l | 2.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Bromoform | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 1,1,2,2-Tetrachloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 1,3-Dichlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 1,4-Dichlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| 1,2-Dichlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| Naphthalene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:06 | |
| *Surrogate: Dibromofluoromethane* | *99.7 %* | | | *78-124* | TVK | 10/14/03 20:06 | |
| *Surrogate: 1,2-Dichloroethane-d4* | *104 %* | | | *72-122* | TVK | 10/14/03 20:06 | |
| *Surrogate: Toluene-d8* | *100 %* | | | *84-120* | TVK | 10/14/03 20:06 | |
| *Surrogate: 4-Bromofluorobenzene* | *98.4 %* | | | *80-124* | TVK | 10/14/03 20:06 | |
| *Determination of Volatile Petroleum Hydrocarbons* | | | | | | | |
| TPH, as gasoline | <10 ug/l | 10 | 1J31712 | EPA 8015 | JRF | 10/16/03 19:08 | |
| *Surrogate: Chlorobenzene* | *116 %* | | | *65-120* | JRF | 10/16/03 19:08 | |
| *Determination of Extractable Petroleum Hydrocarbons* | | | | | | | |
| TEH, as gasoline | <0.1 mg/l | 0.1 | 1J31539 | EPA 8015 | SMG | 10/17/03 0:59 | |
| TEH, as #2 diesel fuel | <0.1 mg/l | 0.1 | 1J31539 | EPA 8015 | SMG | 10/17/03 0:59 | |
| TEH, as waste oil | <0.1 mg/l | 0.1 | 1J31539 | EPA 8015 | SMG | 10/17/03 0:59 | |
| Total Extractable Hydrocarbons | <0.1 mg/l | 0.1 | 1J31539 | EPA 8015 | SMG | 10/17/03 0:59 | |
| *Determination of Base/Neutral/Acid Extractable Compounds* | | | | | | | |
| N-Nitrosodimethylamine | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Phenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Aniline | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Bis(2-Chloroethyl) Ether | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2-Chlorophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 1,3-Dichlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 1,4-Dichlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Benzyl Alcohol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 1,2-Dichlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| n-Nitroso-di-n-propylamine | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2-Methylphenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Bis(2-Chloroisopropyl) Ether | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| (3 & 4)-Methylphenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Hexachloroethane | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Nitrobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Isophorone | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2-Nitrophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2,4-Dimethylphenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Bis(2-Chloroethoxy) Methane | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2,4-Dichlorophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 1,2,4-Trichlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **13J0548-01** Dup-1 | | | | Matrix:Water | | Collected: 10/10/03 08:00 | |
| *Determination of Base/Neutral/Acid Extractable Compounds* | | | | | | | |
| Naphthalene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 4-Chloroaniline | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Hexachlorobutadiene | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 4-Chloro-3-methylphenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2-Methylnaphthalene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Hexachlorocyclopentadiene | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2,4,6-Trichlorophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2,4,5-Trichlorophenol | <50 ug/l | 50 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2-Chloronaphthalene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2-Nitroaniline | <50 ug/l | 50 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Dimethylphthalate | <15 ug/l | 15 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Acenaphthylene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2,6-Dinitrotoluene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 3-Nitroaniline | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Acenaphthene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2,4-Dinitrophenol | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Dibenzofuran | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 2,4-Dinitrotoluene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 4-Nitrophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Diethyl Phthalate | <30 ug/l | 30 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Fluorene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 4-Chlorophenyl Phenyl Ether | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 4-Nitroaniline | 5 <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 4,6-Dinitro-2-methylphenol | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| N-Nitrosodiphenylamine | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Azobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 4-Bromophenyl Phenyl Ether | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Hexachlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Pentachlorophenol | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Phenanthrene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Anthracene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Di-n-butyl Phthalate | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Fluoranthene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Benzidine | <50 ug/l | 50 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Pyrene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Butyl Benzyl Phthalate | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| 3,3'-Dichlorobenzidine | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Benzo(a)anthracene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Chrysene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Bis(2-Ethylhexyl) Phthalate | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |

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41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **13J0548-01** Dup-1 | | | | Matrix:Water | | Collected: 10/10/03 08:00 | |
| *Determination of Base/Neutral/Acid Extractable Compounds* | | | | | | | |
| Di-n-octyl Phthalate | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Benzo(b)Fluoranthene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Benzo(k)Fluoranthene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Benzo(a)Pyrene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Indeno(1,2,3-cd)Pyrene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Dibenzo(a,h)anthracene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| Benzo(g,h,i)perylene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 15:54 | |
| *Surrogate: 2-Fluorophenol* | *69.4 %* | | | *45-110* | EPP | 10/20/03 15:54 | |
| *Surrogate: 2-Fluorobiphenyl* | *76.4 %* | | | *50-110* | EPP | 10/20/03 15:54 | |
| *Surrogate: 2,4,6-Tribromophenol* | *124 %* | | | *59-130* | EPP | 10/20/03 15:54 | |
| *Surrogate: Phenol-d6* | *75.4 %* | | | *44-115* | EPP | 10/20/03 15:54 | |
| *Surrogate: Terphenyl-dl4* | *90.0 %* | | | *40-110* | EPP | 10/20/03 15:54 | |
| *Surrogate: Nitrobenzene-d5* | *76.0 %* | | | *47-123* | EPP | 10/20/03 15:54 | |
| *Determination of Polychlorinated Biphenyls (PCB)* | | | | | | | |
| Arochlor 1016 | <0.10 ug/l | 0.10 | 1J31638 | EPA 8082 | EPP | 10/24/03 12:30 | |
| Arochlor 1221 | <0.20 ug/l | 0.20 | 1J31638 | EPA 8082 | EPP | 10/24/03 12:30 | |
| Arochlor 1232 | <0.20 ug/l | 0.20 | 1J31638 | EPA 8082 | EPP | 10/24/03 12:30 | |
| Arochlor 1242 | <0.20 ug/l | 0.20 | 1J31638 | EPA 8082 | EPP | 10/24/03 12:30 | |
| Arochlor 1248 | <0.20 ug/l | 0.20 | 1J31638 | EPA 8082 | EPP | 10/24/03 12:30 | |
| Arochlor 1254 | <0.10 ug/l | 0.10 | 1J31638 | EPA 8082 | EPP | 10/24/03 12:30 | |
| Arochlor 1260 | <0.10 ug/l | 0.10 | 1J31638 | EPA 8082 | EPP | 10/24/03 12:30 | |
| *Surrogate: Decachlorobiphenyl* | *54.1 %* | | | *55-130* | EPP | 10/24/03 12:30 | S-07 |
| *Determination of Total Metals* | | | | | | | |
| Arsenic, total | <0.005 mg/l | 0.005 | 1J31306 | EPA 7060A | LAR | 10/15/03 18:13 | |
| **Barium, total** | **0.046 mg/l** | **0.010** | 1J31401 | EPA 6010B | RVV | 10/14/03 14:51 | |
| Cadmium, total | <0.0010 mg/l | 0.0010 | 1J31306 | EPA 7131A | LAR | 10/15/03 18:09 | |
| Chromium, total | <0.005 mg/l | 0.005 | 1J31401 | EPA 6010B | RVV | 10/14/03 14:51 | |
| Lead, total | <0.005 mg/l | 0.005 | 1J31401 | EPA 6010B | RVV | 10/14/03 14:51 | |
| Mercury, total | <0.0005 mg/l | 0.00050 | 1J31416 | EPA 7470A | MAQ | 10/15/03 14:00 | |
| Selenium, total | <0.005 mg/l | 0.005 | 1J31306 | EPA 7740 | LKM | 10/14/03 16:15 | |
| Silver, total | <0.010 mg/l | 0.010 | 1J31401 | EPA 6010B | RVV | 10/14/03 14:51 | |
| **13J0548-02** MW-1 | | | | Matrix:Water | | Collected: 10/10/03 12:00 | |
| *Determination of Volatile Organic Compounds* | | | | | | | |
| Chloromethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Vinyl Chloride | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Bromomethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Chloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 1,1-Dichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Acetone | <10.0 ug/l | 10.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Carbon Disulfide | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **13J0548-02** MW-1 | | | | Matrix:Water | | Collected: 10/10/03 12:00 | |
| *Determination of Volatile Organic Compounds* | | | | | | | |
| Methylene Chloride | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| trans-1,2-Dichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Methyl-t-butyl Ether (MTBE) | <2.0 ug/l | 2.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 1,1-Dichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| cis-1,2-Dichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 2-Butanone (MEK) | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Chloroform | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 1,1,1-Trichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Carbon Tetrachloride | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Benzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 1,2-Dichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 1,2-Dichloropropane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Bromodichloromethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| cis-1,3-Dichloropropene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 4-Methyl-2-pentanone (MIBK) | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Toluene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| trans-1,3-Dichloropropene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 1,1,2-Trichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Tetrachloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 2-Hexanone (MBK) | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Dibromochloromethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Chlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Ethylbenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Xylenes, total | <2.0 ug/l | 2.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Bromoform | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 1,1,2,2-Tetrachloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 1,3-Dichlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 1,4-Dichlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| 1,2-Dichlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| Naphthalene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 20:44 | |
| *Surrogate: Dibromofluoromethane* | *100 %* | | | *78-124* | TVK | 10/14/03 20:44 | |
| *Surrogate: 1,2-Dichloroethane-d4* | *103 %* | | | *72-122* | TVK | 10/14/03 20:44 | |
| *Surrogate: Toluene-d8* | *102 %* | | | *84-120* | TVK | 10/14/03 20:44 | |
| *Surrogate: 4-Bromofluorobenzene* | *98.2 %* | | | *80-124* | TVK | 10/14/03 20:44 | |
| *Determination of Volatile Petroleum Hydrocarbons* | | | | | | | |
| TPH, as gasoline | <10 ug/l | 10 | 1J31712 | EPA 8015 | JRF | 10/16/03 19:49 | |
| *Surrogate: Chlorobenzene* | *117 %* | | | *65-120* | JRF | 10/16/03 19:49 | |
| *Determination of Extractable Petroleum Hydrocarbons* | | | | | | | |
| TEH, as gasoline | <0.1 mg/l | 0.1 | 1J31539 | EPA 8015 | SMG | 10/17/03 1:48 | |
| TEH, as #2 diesel fuel | <0.1 mg/l | 0.1 | 1J31539 | EPA 8015 | SMG | 10/17/03 1:48 | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **13J0548-02** MW-1 | | | | Matrix:Water | | Collected: 10/10/03 12:00 | |
| *Determination of Extractable Petroleum Hydrocarbons* | | | | | | | |
| TEH, as waste oil | <0.1 mg/l | 0.1 | 1J31539 | EPA 8015 | SMG | 10/17/03 1:48 | |
| Total Extractable Hydrocarbons | <0.1 mg/l | 0.1 | 1J31539 | EPA 8015 | SMG | 10/17/03 1:48 | |
| *Determination of Base/Neutral/Acid Extractable Compounds* | | | | | | | |
| N-Nitrosodimethylamine | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Phenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Aniline | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Bis(2-Chloroethyl) Ether | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2-Chlorophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 1,3-Dichlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 1,4-Dichlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Benzyl Alcohol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 1,2-Dichlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| n-Nitroso-di-n-propylamine | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2-Methylphenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Bis(2-Chloroisopropyl) Ether | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| (3 & 4)-Methylphenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Hexachloroethane | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Nitrobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Isophorone | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2-Nitrophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2,4-Dimethylphenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Bis(2-Chloroethoxy) Methane | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2,4-Dichlorophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 1,2,4-Trichlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Naphthalene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 4-Chloroaniline | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Hexachlorobutadiene | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 4-Chloro-3-methylphenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2-Methylnaphthalene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Hexachlorocyclopentadiene | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2,4,6-Trichlorophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2,4,5-Trichlorophenol | <50 ug/l | 50 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2-Chloronaphthalene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2-Nitroaniline | <50 ug/l | 50 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Dimethylphthalate | <15 ug/l | 15 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Acenaphthylene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2,6-Dinitrotoluene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 3-Nitroaniline | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Acenaphthene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2,4-Dinitrophenol | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |

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Keystone LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **13J0548-02** MW-1 | | | | Matrix:Water | | Collected: 10/10/03 12:00 | |
| *Determination of Base/Neutral/Acid Extractable Compounds* | | | | | | | |
| Dibenzofuran | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 2,4-Dinitrotoluene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 4-Nitrophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Diethyl Phthalate | <30 ug/l | 30 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Fluorene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 4-Chlorophenyl Phenyl Ether | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 4-Nitroaniline | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 4,6-Dinitro-2-methylphenol | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| N-Nitrosodiphenylamine | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Azobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 4-Bromophenyl Phenyl Ether | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Hexachlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Pentachlorophenol | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Phenanthrene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Anthracene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Di-n-butyl Phthalate | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Fluoranthene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Benzidine | <50 ug/l | 50 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Pyrene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Butyl Benzyl Phthalate | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| 3,3'-Dichlorobenzidine | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Benzo(a)anthracene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Chrysene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Bis(2-Ethylhexyl) Phthalate | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Di-n-octyl Phthalate | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Benzo(b)Fluoranthene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Benzo(k)Fluoranthene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Benzo(a)Pyrene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Indeno(1,2,3-cd)Pyrene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Dibenzo(a,h)anthracene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| Benzo(g,h,i)perylene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 16:29 | |
| *Surrogate: 2-Fluorophenol* | *60.0 %* | | | *45-110* | EPP | 10/20/03 16:29 | |
| *Surrogate: 2-Fluorobiphenyl* | *76.6 %* | | | *50-110* | EPP | 10/20/03 16:29 | |
| *Surrogate: 2,4,6-Tribromophenol* | *127 %* | | | *59-130* | EPP | 10/20/03 16:29 | |
| *Surrogate: Phenol-d6* | *70.0 %* | | | *44-115* | EPP | 10/20/03 16:29 | |
| *Surrogate: Terphenyl-dl4* | *112 %* | | | *40-110* | EPP | 10/20/03 16:29 | S-BN |
| *Surrogate: Nitrobenzene-d5* | *72.5 %* | | | *47-123* | EPP | 10/20/03 16:29 | |
| *Determination of Polychlorinated Biphenyls (PCB)* | | | | | | | |
| Arochlor 1016 | <0.10 ug/l | 0.10 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:00 | |
| Arochlor 1221 | <0.20 ug/l | 0.20 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:00 | |
| Arochlor 1232 | <0.20 ug/l | 0.20 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:00 | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **13J0548-02** MW-1 | | | | Matrix:Water | | Collected: 10/10/03 12:00 | |
| *Determination of Polychlorinated Biphenyls (PCB)* | | | | | | | |
| Arochlor 1242 | <0.20 ug/l | 0.20 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:00 | |
| Arochlor 1248 | <0.20 ug/l | 0.20 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:00 | |
| Arochlor 1254 | <0.10 ug/l | 0.10 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:00 | |
| Arochlor 1260 | <0.10 ug/l | 0.10 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:00 | |
| *Surrogate: Decachlorobiphenyl* | *66.6 %* | | | *55-130* | EPP | 10/24/03 13:00 | |
| *Determination of Total Metals* | | | | | | | |
| Arsenic, total | <0.005 mg/l | 0.005 | 1J31306 | EPA 7060A | LAR | 10/15/03 18:13 | |
| **Barium, total** | **0.046 mg/l** | **0.010** | 1J31401 | EPA 6010B | RVV | 10/14/03 14:55 | |
| Cadmium, total | <0.0010 mg/l | 0.0010 | 1J31306 | EPA 7131A | LAR | 10/15/03 18:09 | |
| Chromium, total | <0.005 mg/l | 0.005 | 1J31401 | EPA 6010B | RVV | 10/14/03 14:55 | |
| Lead, total | <0.005 mg/l | 0.005 | 1J31401 | EPA 6010B | RVV | 10/14/03 14:55 | |
| Mercury, total | <0.0005 mg/l | 0.00050 | 1J31416 | EPA 7470A | MAQ | 10/15/03 14:00 | |
| Selenium, total | <0.005 mg/l | 0.005 | 1J31306 | EPA 7740 | LKM | 10/14/03 16:15 | |
| Silver, total | <0.010 mg/l | 0.010 | 1J31401 | EPA 6010B | RVV | 10/14/03 14:55 | |
| **13J0548-03** MW-2 | | | | Matrix:Water | | Collected: 10/10/03 10:15 | |
| *Determination of Volatile Organic Compounds* | | | | | | | |
| Chloromethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Vinyl Chloride | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Bromomethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Chloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 1,1-Dichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Acetone | <10.0 ug/l | 10.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Carbon Disulfide | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Methylene Chloride | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| trans-1,2-Dichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Methyl-t-butyl Ether (MTBE) | <2.0 ug/l | 2.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 1,1-Dichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| cis-1,2-Dichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 2-Butanone (MEK) | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Chloroform | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 1,1,1-Trichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Carbon Tetrachloride | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Benzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 1,2-Dichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 1,2-Dichloropropane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Bromodichloromethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| cis-1,3-Dichloropropene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 4-Methyl-2-pentanone (MIBK) | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **13J0548-03** MW-2 | | | | Matrix:Water | | Collected: 10/10/03 10:15 | |
| *Determination of Volatile Organic Compounds* | | | | | | | |
| Toluene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| trans-1,3-Dichloropropene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 1,1,2-Trichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Tetrachloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 2-Hexanone (MBK) | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Dibromochloromethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Chlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Ethylbenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Xylenes, total | <2.0 ug/l | 2.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Bromoform | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 1,1,2,2-Tetrachloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 1,3-Dichlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 1,4-Dichlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| 1,2-Dichlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| Naphthalene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 21:23 | |
| *Surrogate: Dibromofluoromethane* | *101 %* | | | *78-124* | TVK | 10/14/03 21:23 | |
| *Surrogate: 1,2-Dichloroethane-d4* | *102 %* | | | *72-122* | TVK | 10/14/03 21:23 | |
| *Surrogate: Toluene-d8* | *102 %* | | | *84-120* | TVK | 10/14/03 21:23 | |
| *Surrogate: 4-Bromofluorobenzene* | *95.6 %* | | | *80-124* | TVK | 10/14/03 21:23 | |
| *Determination of Volatile Petroleum Hydrocarbons* | | | | | | | |
| TPH, as gasoline | <10 ug/l | 10 | 1J31712 | EPA 8015 | JRF | 10/16/03 20:31 | |
| *Surrogate: Chlorobenzene* | *116 %* | | | *65-120* | JRF | 10/16/03 20:31 | |
| *Determination of Extractable Petroleum Hydrocarbons* | | | | | | | |
| TEH, as gasoline | <0.1 mg/l | 0.1 | 1J31539 | EPA 8015 | SMG | 10/17/03 2:36 | |
| TEH, as #2 diesel fuel | <0.1 mg/l | 0.1 | 1J31539 | EPA 8015 | SMG | 10/17/03 2:36 | |
| TEH, as waste oil | <0.1 mg/l | 0.1 | 1J31539 | EPA 8015 | SMG | 10/17/03 2:36 | |
| Total Extractable Hydrocarbons | <0.1 mg/l | 0.1 | 1J31539 | EPA 8015 | SMG | 10/17/03 2:36 | |
| *Determination of Base/Neutral/Acid Extractable Compounds* | | | | | | | |
| N-Nitrosodimethylamine | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Phenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Aniline | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Bis(2-Chloroethyl) Ether | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2-Chlorophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 1,3-Dichlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 1,4-Dichlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Benzyl Alcohol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 1,2-Dichlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| n-Nitroso-di-n-propylamine | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2-Methylphenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Bis(2-Chloroisopropyl) Ether | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| (3 & 4)-Methylphenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |

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Keystone LABORATORIES, INC.

ACCREDITED IN ACCORDANCE WITH nelac

MEMBER ACIL

Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **13J0548-03** MW-2 | | | | Matrix:Water | | Collected: 10/10/03 10:15 | |
| *Determination of Base/Neutral/Acid Extractable Compounds* | | | | | | | |
| Hexachloroethane | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Nitrobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Isophorone | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2-Nitrophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2,4-Dimethylphenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Bis(2-Chloroethoxy) Methane | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2,4-Dichlorophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 1,2,4-Trichlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Naphthalene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 4-Chloroaniline | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Hexachlorobutadiene | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 4-Chloro-3-methylphenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2-Methylnaphthalene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Hexachlorocyclopentadiene | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2,4,6-Trichlorophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2,4,5-Trichlorophenol | <50 ug/l | 50 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2-Chloronaphthalene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2-Nitroaniline | <50 ug/l | 50 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Dimethylphthalate | <15 ug/l | 15 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Acenaphthylene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2,6-Dinitrotoluene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 3-Nitroaniline | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Acenaphthene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2,4-Dinitrophenol | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Dibenzofuran | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 2,4-Dinitrotoluene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 4-Nitrophenol | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Diethyl Phthalate | <30 ug/l | 30 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Fluorene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 4-Chlorophenyl Phenyl Ether | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 4-Nitroaniline | 5 <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 4,6-Dinitro-2-methylphenol | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| N-Nitrosodiphenylamine | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Azobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 4-Bromophenyl Phenyl Ether | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Hexachlorobenzene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Pentachlorophenol | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Phenanthrene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Anthracene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Di-n-butyl Phthalate | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **13J0548-03** MW-2 | | | | Matrix:Water | | Collected: 10/10/03 10:15 | |
| *Determination of Base/Neutral/Acid Extractable Compounds* | | | | | | | |
| Fluoranthene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Benzidine | <50 ug/l | 50 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Pyrene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Butyl Benzyl Phthalate | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| 3,3'-Dichlorobenzidine | <20 ug/l | 20 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Benzo(a)anthracene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Chrysene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Bis(2-Ethylhexyl) Phthalate | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Di-n-octyl Phthalate | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Benzo(b)Fluoranthene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Benzo(k)Fluoranthene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Benzo(a)Pyrene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Indeno(1,2,3-cd)Pyrene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Dibenzo(a,h)anthracene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| Benzo(g,h,i)perylene | <10 ug/l | 10 | 1J31537 | EPA 8270C | EPP | 10/20/03 17:04 | |
| *Surrogate: 2-Fluorophenol* | *63.4 %* | | | *45-110* | EPP | 10/20/03 17:04 | |
| *Surrogate: 2-Fluorobiphenyl* | *81.8 %* | | | *50-110* | EPP | 10/20/03 17:04 | |
| *Surrogate: 2,4,6-Tribromophenol* | *129 %* | | | *59-130* | EPP | 10/20/03 17:04 | |
| *Surrogate: Phenol-d6* | *69.6 %* | | | *44-115* | EPP | 10/20/03 17:04 | |
| *Surrogate: Terphenyl-d14* | *101 %* | | | *40-110* | EPP | 10/20/03 17:04 | |
| *Surrogate: Nitrobenzene-d5* | *77.0 %* | | | *47-123* | EPP | 10/20/03 17:04 | |
| *Determination of Polychlorinated Biphenyls (PCB)* | | | | | | | |
| Arochlor 1016 | <0.10 ug/l | 0.10 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:30 | |
| Arochlor 1221 | <0.20 ug/l | 0.20 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:30 | |
| Arochlor 1232 | <0.20 ug/l | 0.20 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:30 | |
| Arochlor 1242 | <0.20 ug/l | 0.20 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:30 | |
| Arochlor 1248 | <0.20 ug/l | 0.20 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:30 | |
| Arochlor 1254 | <0.10 ug/l | 0.10 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:30 | |
| Arochlor 1260 | <0.10 ug/l | 0.10 | 1J31638 | EPA 8082 | EPP | 10/24/03 13:30 | |
| *Surrogate: Decachlorobiphenyl* | *40.0 %* | | | *55-130* | EPP | 10/24/03 13:30 | S-07 |
| *Determination of Total Metals* | | | | | | | |
| Arsenic, total | <0.005 mg/l | 0.005 | 1J31306 | EPA 7060A | LAR | 10/15/03 18:13 | |
| **Barium, total** | **0.064 mg/l** | **0.010** | 1J31401 | EPA 6010B | RVV | 10/14/03 14:59 | |
| Cadmium, total | <0.0010 mg/l | 0.0010 | 1J31306 | EPA 7131A | LAR | 10/15/03 18:09 | |
| Chromium, total | <0.005 mg/l | 0.005 | 1J31401 | EPA 6010B | RVV | 10/14/03 14:59 | |
| **Lead, total** | **0.006 mg/l** | **0.005** | 1J31401 | EPA 6010B | RVV | 10/14/03 14:59 | |
| Mercury, total | <0.0005 mg/l | 0.00050 | 1J31416 | EPA 7470A | MAQ | 10/15/03 14:00 | |
| Selenium, total | <0.005 mg/l | 0.005 | 1J31306 | EPA 7740 | LKM | 10/14/03 16:15 | |
| Silver, total | <0.010 mg/l | 0.010 | 1J31401 | EPA 6010B | RVV | 10/14/03 14:59 | |

**13J0548-04** Trip Blank 10-30-03 JRF 10:45 Sealed — Matrix:Water — Collected: 10/10/03 00:00

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|---|---|---|---|---|---|---|---|
| **13J0548-04** Trip Blank 10-30-03 JRF 10:45 Sealed | | | | Matrix: Water | | Collected: 10/10/03 00:00 | |
| *Determination of Volatile Organic Compounds* | | | | | | | |
| Chloromethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Vinyl Chloride | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Bromomethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Chloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 1,1-Dichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Acetone | <10.0 ug/l | 10.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Carbon Disulfide | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Methylene Chloride | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| trans-1,2-Dichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Methyl-t-butyl Ether (MTBE) | <2.0 ug/l | 2.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 1,1-Dichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| cis-1,2-Dichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 2-Butanone (MEK) | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Chloroform | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 1,1,1-Trichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Carbon Tetrachloride | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Benzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 1,2-Dichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 1,2-Dichloropropane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Bromodichloromethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| cis-1,3-Dichloropropene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 4-Methyl-2-pentanone (MIBK) | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Toluene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| trans-1,3-Dichloropropene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 1,1,2-Trichloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Tetrachloroethylene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 2-Hexanone (MBK) | <5.0 ug/l | 5.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Dibromochloromethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Chlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Ethylbenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Xylenes, total | <2.0 ug/l | 2.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Bromoform | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 1,1,2,2-Tetrachloroethane | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 1,3-Dichlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 1,4-Dichlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| 1,2-Dichlorobenzene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| Naphthalene | <1.0 ug/l | 1.0 | 1J31526 | EPA 8260B | TVK | 10/14/03 19:27 | |
| *Surrogate: Dibromofluoromethane* | *102 %* | | | *78-124* | TVK | 10/14/03 19:27 | |
| *Surrogate: 1,2-Dichloroethane-d4* | *105 %* | | | *72-122* | TVK | 10/14/03 19:27 | |
| *Surrogate: Toluene-d8* | *102 %* | | | *84-120* | TVK | 10/14/03 19:27 | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



**13J0548-04** Trip Blank 10-30-03 JRF 10:45 Sealed Matrix: Water Collected: 10/10/03 00:00

*Determination of Volatile Organic Compounds*

| | | | | |
|---|---|---|---|---|
| *Surrogate: 4-Bromofluorobenzene* | *97.6 %* | *80-124* | TVK | 10/14/03 19:27 |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



## Determination of Volatile Organic Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31526 - EPA 5030B** | | | | | | | | | | |
| **Blank (1J31526-BLK1)** | | | | Prepared & Analyzed: 10/14/03 | | | | | | |
| Chloromethane | ND | 1.0 | ug/l | | | | | | | |
| Vinyl Chloride | ND | 1.0 | " | | | | | | | |
| Bromomethane | ND | 1.0 | " | | | | | | | |
| Chloroethane | ND | 1.0 | " | | | | | | | |
| 1,1-Dichloroethylene | ND | 1.0 | " | | | | | | | |
| Acetone | ND | 10.0 | " | | | | | | | |
| Carbon Disulfide | ND | 1.0 | " | | | | | | | |
| Methylene Chloride | ND | 5.0 | " | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 1.0 | " | | | | | | | |
| Methyl-t-butyl Ether (MTBE) | ND | 2.0 | " | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | " | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 1.0 | " | | | | | | | |
| 2-Butanone (MEK) | ND | 5.0 | " | | | | | | | |
| Chloroform | ND | 1.0 | " | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | " | | | | | | | |
| Carbon Tetrachloride | ND | 1.0 | " | | | | | | | |
| Benzene | ND | 1.0 | " | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | " | | | | | | | |
| Trichloroethylene | ND | 1.0 | " | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | " | | | | | | | |
| Bromodichloromethane | ND | 1.0 | " | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | " | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | " | | | | | | | |
| Toluene | ND | 1.0 | " | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | " | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | " | | | | | | | |
| Tetrachloroethylene | ND | 1.0 | " | | | | | | | |
| 2-Hexanone (MBK) | ND | 5.0 | " | | | | | | | |
| Dibromochloromethane | ND | 1.0 | " | | | | | | | |
| Chlorobenzene | ND | 1.0 | " | | | | | | | |
| Ethylbenzene | ND | 1.0 | " | | | | | | | |
| Xylenes, total | ND | 2.0 | " | | | | | | | |
| Bromoform | ND | 1.0 | " | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | " | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | " | | | | | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375



## Determination of Volatile Organic Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31526 - EPA 5030B** | | | | | | | | | | |
| **Blank (1J31526-BLK1)** | | | | Prepared & Analyzed: 10/14/03 | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/l | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | " | | | | | | | |
| Naphthalene | ND | 1.0 | " | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *50.12* | | " | *50.00* | | *100* | *78-124* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *51.68* | | " | *50.00* | | *103* | *72-122* | | | |
| *Surrogate: Toluene-d8* | *50.20* | | " | *50.00* | | *100* | *84-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *49.63* | | " | *50.00* | | *99.3* | *80-124* | | | |
| **LCS (1J31526-BS1)** | | | | Prepared & Analyzed: 10/14/03 | | | | | | |
| Chloromethane | 98.23 | 1.0 | ug/l | 100.0 | | 98.2 | 70-130 | | | |
| Vinyl Chloride | 103.0 | 1.0 | " | 100.0 | | 103 | 70-130 | | | |
| Bromomethane | 96.31 | 1.0 | " | 100.0 | | 96.3 | 70-130 | | | |
| Chloroethane | 100.6 | 1.0 | " | 100.0 | | 101 | 70-130 | | | |
| 1,1-Dichloroethylene | 49.82 | 1.0 | " | 50.00 | | 99.6 | 70-130 | | | |
| Acetone | 223.2 | 10.0 | " | 232.0 | | 96.2 | 70-130 | | | |
| Carbon Disulfide | 211.2 | 1.0 | " | 212.0 | | 99.6 | 70-130 | | | |
| Methylene Chloride | 48.26 | 5.0 | " | 50.00 | | 96.5 | 70-130 | | | |
| trans-1,2-Dichloroethylene | 47.85 | 1.0 | " | 50.00 | | 95.7 | 70-130 | | | |
| Methyl-t-butyl Ether (MTBE) | 190.1 | 2.0 | " | 190.0 | | 100 | 65-134 | | | |
| 1,1-Dichloroethane | 47.62 | 1.0 | " | 50.00 | | 95.2 | 70-130 | | | |
| cis-1,2-Dichloroethylene | 47.76 | 1.0 | " | 50.00 | | 95.5 | 70-130 | | | |
| 2-Butanone (MEK) | 230.5 | 5.0 | " | 234.0 | | 98.5 | 70-130 | | | |
| Chloroform | 47.91 | 1.0 | " | 50.00 | | 95.8 | 70-130 | | | |
| 1,1,1-Trichloroethane | 49.61 | 1.0 | " | 50.00 | | 99.2 | 70-130 | | | |
| Carbon Tetrachloride | 50.94 | 1.0 | " | 50.00 | | 102 | 70-130 | | | |
| Benzene | 48.29 | 1.0 | " | 50.00 | | 96.6 | 69-140 | | | |
| 1,2-Dichloroethane | 48.86 | 1.0 | " | 50.00 | | 97.7 | 70-130 | | | |
| Trichloroethylene | 47.41 | 1.0 | " | 50.00 | | 94.8 | 80-124 | | | |
| 1,2-Dichloropropane | 48.49 | 1.0 | " | 50.00 | | 97.0 | 70-130 | | | |
| Bromodichloromethane | 49.05 | 1.0 | " | 50.00 | | 98.1 | 70-130 | | | |
| cis-1,3-Dichloropropene | 49.05 | 1.0 | " | 50.00 | | 98.1 | 70-130 | | | |
| 4-Methyl-2-pentanone (MIBK) | 227.6 | 5.0 | " | 218.0 | | 104 | 70-130 | | | |
| Toluene | 48.06 | 1.0 | " | 50.00 | | 96.1 | 69-137 | | | |
| trans-1,3-Dichloropropene | 48.68 | 1.0 | " | 50.00 | | 97.4 | 70-130 | | | |
| 1,1,2-Trichloroethane | 48.93 | 1.0 | " | 50.00 | | 97.9 | 70-130 | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**



## Determination of Volatile Organic Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31526 - EPA 5030B** | | | | | | | | | | |
| **LCS (1J31526-BS1)** | | | | Prepared & Analyzed: 10/14/03 | | | | | | |
| Tetrachloroethylene | 48.38 | 1.0 | ug/l | 50.00 | | 96.8 | 81-120 | | | |
| 2-Hexanone (MBK) | 229.7 | 5.0 | " | 226.0 | | 102 | 70-130 | | | |
| Dibromochloromethane | 48.51 | 1.0 | " | 50.00 | | 97.0 | 70-130 | | | |
| Chlorobenzene | 47.60 | 1.0 | " | 50.00 | | 95.2 | 78-128 | | | |
| Ethylbenzene | 48.05 | 1.0 | " | 50.00 | | 96.1 | 73-137 | | | |
| Xylenes, total | 145.6 | 2.0 | " | 150.0 | | 97.1 | 75-137 | | | |
| Bromoform | 50.44 | 1.0 | " | 50.00 | | 101 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 49.99 | 1.0 | " | 50.00 | | 100 | 70-130 | | | |
| 1,3-Dichlorobenzene | 46.77 | 1.0 | " | 50.00 | | 93.5 | 70-130 | | | |
| 1,4-Dichlorobenzene | 47.88 | 1.0 | " | 50.00 | | 95.8 | 70-130 | | | |
| 1,2-Dichlorobenzene | 47.17 | 1.0 | " | 50.00 | | 94.3 | 70-130 | | | |
| Naphthalene | 48.96 | 1.0 | " | 50.00 | | 97.9 | 61-125 | | | |
| *Surrogate: Dibromofluoromethane* | *49.67* | | " | *50.00* | | *99.3* | *78-124* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *49.84* | | " | *50.00* | | *99.7* | *72-122* | | | |
| *Surrogate: Toluene-d8* | *50.86* | | " | *50.00* | | *102* | *84-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *50.50* | | " | *50.00* | | *101* | *80-124* | | | |
| **Calibration Check (1J31526-CCV1)** | | | | Prepared & Analyzed: 10/14/03 | | | | | | |
| Chloromethane | 94.45 | 1.0 | ug/l | 100.0 | | 94.4 | 70-130 | | | |
| Vinyl Chloride | 104.6 | 1.0 | " | 100.0 | | 105 | 70-130 | | | |
| Bromomethane | 97.81 | 1.0 | " | 100.0 | | 97.8 | 70-130 | | | |
| Chloroethane | 103.0 | 1.0 | " | 100.0 | | 103 | 70-130 | | | |
| 1,1-Dichloroethylene | 51.47 | 1.0 | " | 50.00 | | 103 | 70-130 | | | |
| Acetone | 207.4 | 10.0 | " | 232.0 | | 89.4 | 70-130 | | | |
| Carbon Disulfide | 212.3 | 1.0 | " | 212.0 | | 100 | 70-130 | | | |
| Methylene Chloride | 48.74 | 5.0 | " | 50.00 | | 97.5 | 70-130 | | | |
| trans-1,2-Dichloroethylene | 49.70 | 1.0 | " | 50.00 | | 99.4 | 70-130 | | | |
| Methyl-t-butyl Ether (MTBE) | 188.3 | 2.0 | " | 190.0 | | 99.1 | 70-130 | | | |
| 1,1-Dichloroethane | 49.59 | 1.0 | " | 50.00 | | 99.2 | 70-130 | | | |
| cis-1,2-Dichloroethylene | 48.81 | 1.0 | " | 50.00 | | 97.6 | 70-130 | | | |
| 2-Butanone (MEK) | 226.2 | 5.0 | " | 234.0 | | 96.7 | 70-130 | | | |
| Chloroform | 48.88 | 1.0 | " | 50.00 | | 97.8 | 70-130 | | | |
| 1,1,1-Trichloroethane | 50.48 | 1.0 | " | 50.00 | | 101 | 70-130 | | | |
| Carbon Tetrachloride | 51.61 | 1.0 | " | 50.00 | | 103 | 70-130 | | | |
| Benzene | 48.43 | 1.0 | " | 50.00 | | 96.9 | 70-130 | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**

**October 27, 2003**


## Determination of Volatile Organic Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31526 - EPA 5030B** | | | | | | | | | | |
| **Calibration Check (1J31526-CCV1)** | | | | Prepared & Analyzed: 10/14/03 | | | | | | |
| 1,2-Dichloroethane | 49.99 | 1.0 | ug/l | 50.00 | | 100 | 70-130 | | | |
| Trichloroethylene | 48.33 | 1.0 | " | 50.00 | | 96.7 | 70-130 | | | |
| 1,2-Dichloropropane | 48.81 | 1.0 | " | 50.00 | | 97.6 | 70-130 | | | |
| Bromodichloromethane | 49.15 | 1.0 | " | 50.00 | | 98.3 | 70-130 | | | |
| cis-1,3-Dichloropropene | 49.38 | 1.0 | " | 50.00 | | 98.8 | 70-130 | | | |
| 4-Methyl-2-pentanone (MIBK) | 216.8 | 5.0 | " | 218.0 | | 99.4 | 70-130 | | | |
| Toluene | 49.49 | 1.0 | " | 50.00 | | 99.0 | 70-130 | | | |
| trans-1,3-Dichloropropene | 47.65 | 1.0 | " | 50.00 | | 95.3 | 70-130 | | | |
| 1,1,2-Trichloroethane | 48.38 | 1.0 | " | 50.00 | | 96.8 | 70-130 | | | |
| Tetrachloroethylene | 49.90 | 1.0 | " | 50.00 | | 99.8 | 70-130 | | | |
| 2-Hexanone (MBK) | 220.6 | 5.0 | " | 226.0 | | 97.6 | 70-130 | | | |
| Dibromochloromethane | 48.75 | 1.0 | " | 50.00 | | 97.5 | 70-130 | | | |
| Chlorobenzene | 48.84 | 1.0 | " | 50.00 | | 97.7 | 70-130 | | | |
| Ethylbenzene | 49.73 | 1.0 | " | 50.00 | | 99.5 | 70-130 | | | |
| Xylenes, total | 149.7 | 2.0 | " | 150.0 | | 99.8 | 70-130 | | | |
| Bromoform | 50.53 | 1.0 | " | 50.00 | | 101 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 49.24 | 1.0 | " | 50.00 | | 98.5 | 70-130 | | | |
| 1,3-Dichlorobenzene | 48.23 | 1.0 | " | 50.00 | | 96.5 | 70-130 | | | |
| 1,4-Dichlorobenzene | 46.70 | 1.0 | " | 50.00 | | 93.4 | 70-130 | | | |
| 1,2-Dichlorobenzene | 48.04 | 1.0 | " | 50.00 | | 96.1 | 70-130 | | | |
| Naphthalene | 45.93 | 1.0 | " | 50.00 | | 91.9 | 70-130 | | | |
| *Surrogate: Dibromofluoromethane* | *49.03* | | " | *50.00* | | *98.1* | *78-124* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *50.05* | | " | *50.00* | | *100* | *72-122* | | | |
| *Surrogate: Toluene-d8* | *49.65* | | " | *50.00* | | *99.3* | *84-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *50.25* | | " | *50.00* | | *100* | *80-124* | | | |
| **Matrix Spike (1J31526-MS1)** | | **Source: 13J0379-03** | | Prepared: 10/14/03 | | Analyzed: 10/15/03 | | | | |
| 1,1-Dichloroethylene | 290.6 | 5.0 | ug/l | 277.5 | ND | 105 | 81-144 | | | |
| Benzene | 355.6 | 5.0 | " | 337.5 | 92.3 | 78.0 | 69-137 | | | |
| Trichloroethylene | 286.9 | 5.0 | " | 302.5 | ND | 94.8 | 88-123 | | | |
| Toluene | 279.0 | 5.0 | " | 296.0 | ND | 94.3 | 69-136 | | | |
| Chlorobenzene | 309.8 | 5.0 | " | 336.0 | ND | 92.2 | 86-119 | | | |
| *Surrogate: Dibromofluoromethane* | *48.62* | | " | *50.00* | | *97.2* | *78-124* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *49.04* | | " | *50.00* | | *98.1* | *72-122* | | | |
| *Surrogate: Toluene-d8* | *49.00* | | " | *50.00* | | *98.0* | *84-120* | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



## Determination of Volatile Organic Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31526 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike (1J31526-MS1)** | | **Source: 13J0379-03** | | Prepared: 10/14/03 | | Analyzed: 10/15/03 | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *47.02* | | *ug/l* | *50.00* | | *94.0* | *80-124* | | | |
| **Matrix Spike Dup (1J31526-MSD1)** | | **Source: 13J0379-03** | | Prepared: 10/14/03 | | Analyzed: 10/15/03 | | | | |
| 1,1-Dichloroethylene | 289.7 | 5.0 | ug/l | 277.5 | ND | 104 | 81-144 | 0.310 | 19 | |
| Benzene | 357.7 | 5.0 | " | 337.5 | 92.3 | 78.6 | 69-137 | 0.589 | 17 | |
| Trichloroethylene | 290.5 | 5.0 | " | 302.5 | ND | 96.0 | 88-123 | 1.25 | 11 | |
| Toluene | 278.3 | 5.0 | " | 296.0 | ND | 94.0 | 69-136 | 0.251 | 15 | |
| Chlorobenzene | 312.5 | 5.0 | " | 336.0 | ND | 93.0 | 86-119 | 0.868 | 11 | |
| *Surrogate: Dibromofluoromethane* | *49.12* | | " | *50.00* | | *98.2* | *78-124* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *49.54* | | " | *50.00* | | *99.1* | *72-122* | | | |
| *Surrogate: Toluene-d8* | *49.37* | | " | *50.00* | | *98.7* | *84-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *47.89* | | " | *50.00* | | *95.8* | *80-124* | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**

**October 27, 2003**


## Determination of Volatile Petroleum Hydrocarbons - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31712 - EPA 5030B** | | | | | | | | | | |
| **Blank (1J31712-BLK1)** | | | | Prepared & Analyzed: 10/16/03 | | | | | | |
| TPH, as gasoline | ND | 10 | ug/l | | | | | | | |
| *Surrogate: Chlorobenzene* | *113.2* | | " | *102.5* | | *110* | *65-120* | | | |
| **Calibration Check (1J31712-CCV1)** | | | | Prepared & Analyzed: 10/16/03 | | | | | | |
| *Surrogate: Chlorobenzene* | *108.9* | | *ug/l* | *102.5* | | *106* | *65-120* | | | |
| **Calibration Check (1J31712-CCV2)** | | | | Prepared & Analyzed: 10/16/03 | | | | | | |
| TPH, as gasoline | 1120 | 10 | ug/l | 1068 | | 105 | 0-200 | | | |
| *Surrogate: Chlorobenzene* | *105.7* | | " | *102.5* | | *103* | *65-120* | | | |
| **Calibration Check (1J31712-CCV3)** | | | | Prepared: 10/16/03 Analyzed: 10/17/03 | | | | | | |
| *Surrogate: Chlorobenzene* | *119.7* | | *ug/l* | *102.5* | | *117* | *65-120* | | | |
| **Calibration Check (1J31712-CCV4)** | | | | Prepared: 10/16/03 Analyzed: 10/17/03 | | | | | | |
| TPH, as gasoline | 1175 | 10 | ug/l | 1068 | | 110 | 0-200 | | | |
| *Surrogate: Chlorobenzene* | *118.1* | | " | *102.5* | | *115* | *65-120* | | | |
| **Matrix Spike (1J31712-MS1)** | | **Source: 13J0548-02** | | Prepared & Analyzed: 10/16/03 | | | | | | |
| *Surrogate: Chlorobenzene* | *119.8* | | *ug/l* | *102.5* | | *117* | *65-120* | | | |
| **Matrix Spike Dup (1J31712-MSD1)** | | **Source: 13J0548-02** | | Prepared: 10/16/03 Analyzed: 10/17/03 | | | | | | |
| *Surrogate: Chlorobenzene* | *121.9* | | *ug/l* | *102.5* | | *119* | *65-120* | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**

**October 27, 2003**


## Determination of Extractable Petroleum Hydrocarbons - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31539 - 3510C OA-2 Sep Fnl** | | | | | | | | | | |
| **Blank (1J31539-BLK1)** | | | | Prepared & Analyzed: 10/15/03 | | | | | | |
| TEH, as gasoline | ND | 0.1 | mg/l | | | | | | | |
| TEH, as #2 diesel fuel | ND | 0.1 | " | | | | | | | |
| TEH, as waste oil | ND | 0.1 | " | | | | | | | |
| Total Extractable Hydrocarbons | ND | 0.1 | " | | | | | | | |
| **LCS (1J31539-BS1)** | | | | Prepared & Analyzed: 10/15/03 | | | | | | |
| TEH, as #2 diesel fuel | 7.71 | 0.1 | mg/l | 10.25 | | 75.2 | 70-730 | | | |
| **LCS Dup (1J31539-BSD1)** | | | | Prepared & Analyzed: 10/15/03 | | | | | | |
| TEH, as #2 diesel fuel | 8.00 | 0.1 | mg/l | 10.25 | | 78.0 | 70-730 | 3.69 | 20 | |
| **Calibration Check (1J31539-CCV1)** | | | | Prepared & Analyzed: 10/15/03 | | | | | | |
| TEH, as gasoline | 2154 | | mg/l | 2140 | | 101 | 85-115 | | | |
| TEH, as #2 diesel fuel | 1985 | | " | 2070 | | 95.9 | 85-115 | | | |
| TEH, as waste oil | 1983 | | " | 2040 | | 97.2 | 85-115 | | | |
| **Calibration Check (1J31539-CCV2)** | | | | Prepared: 10/15/03 Analyzed: 10/16/03 | | | | | | |
| TEH, as gasoline | 2402 | | mg/l | 2140 | | 112 | 85-115 | | | |
| TEH, as #2 diesel fuel | 2061 | | " | 2070 | | 99.6 | 85-115 | | | |
| TEH, as waste oil | 2016 | | " | 2040 | | 98.8 | 85-115 | | | |
| **Calibration Check (1J31539-CCV3)** | | | | Prepared: 10/15/03 Analyzed: 10/17/03 | | | | | | |
| TEH, as gasoline | 2226 | | mg/l | 2140 | | 104 | 85-115 | | | |
| TEH, as #2 diesel fuel | 2021 | | " | 2070 | | 97.6 | 85-115 | | | |
| TEH, as waste oil | 1999 | | " | 2040 | | 98.0 | 85-115 | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**

**October 27, 2003**


## Determination of Base/Neutral/Acid Extractable Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31537 - 3520C BNA Cont Liq** | | | | | | | | | | |
| **Blank (1J31537-BLK1)** | | | | Prepared: 10/15/03 Analyzed: 10/20/03 | | | | | | |
| N-Nitrosodimethylamine | ND | 10 | ug/l | | | | | | | |
| Phenol | ND | 10 | " | | | | | | | |
| Aniline | ND | 10 | " | | | | | | | |
| Bis(2-Chloroethyl) Ether | ND | 10 | " | | | | | | | |
| 2-Chlorophenol | ND | 10 | " | | | | | | | |
| 1,3-Dichlorobenzene | ND | 10 | " | | | | | | | |
| 1,4-Dichlorobenzene | ND | 10 | " | | | | | | | |
| Benzyl Alcohol | ND | 10 | " | | | | | | | |
| 1,2-Dichlorobenzene | ND | 10 | " | | | | | | | |
| n-Nitroso-di-n-propylamine | ND | 10 | " | | | | | | | |
| 2-Methylphenol | ND | 10 | " | | | | | | | |
| Bis(2-Chloroisopropyl) Ether | ND | 10 | " | | | | | | | |
| (3 & 4)-Methylphenol | ND | 10 | " | | | | | | | |
| Hexachloroethane | ND | 10 | " | | | | | | | |
| Nitrobenzene | ND | 10 | " | | | | | | | |
| Isophorone | ND | 10 | " | | | | | | | |
| 2-Nitrophenol | ND | 10 | " | | | | | | | |
| 2,4-Dimethylphenol | ND | 10 | " | | | | | | | |
| Bis(2-Chloroethoxy) Methane | ND | 10 | " | | | | | | | |
| 2,4-Dichlorophenol | ND | 10 | " | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 10 | " | | | | | | | |
| Naphthalene | ND | 10 | " | | | | | | | |
| 4-Chloroaniline | ND | 10 | " | | | | | | | |
| Hexachlorobutadiene | ND | 20 | " | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 10 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 10 | " | | | | | | | |
| Hexachlorocyclopentadiene | ND | 20 | " | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 10 | " | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 50 | " | | | | | | | |
| 2-Chloronaphthalene | ND | 10 | " | | | | | | | |
| 2-Nitroaniline | ND | 50 | " | | | | | | | |
| Dimethylphthalate | ND | 15 | " | | | | | | | |
| Acenaphthylene | ND | 10 | " | | | | | | | |
| 2,6-Dinitrotoluene | ND | 10 | " | | | | | | | |
| 3-Nitroaniline | ND | 10 | " | | | | | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**

**October 27, 2003**


## Determination of Base/Neutral/Acid Extractable Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31537 - 3520C BNA Cont Liq** | | | | | | | | | | |
| **Blank (1J31537-BLK1)** | | | | Prepared: 10/15/03 Analyzed: 10/20/03 | | | | | | |
| Acenaphthene | ND | 10 | ug/l | | | | | | | |
| 2,4-Dinitrophenol | ND | 20 | " | | | | | | | |
| Dibenzofuran | ND | 10 | " | | | | | | | |
| 2,4-Dinitrotoluene | ND | 10 | " | | | | | | | |
| 4-Nitrophenol | ND | 10 | " | | | | | | | |
| Diethyl Phthalate | ND | 30 | " | | | | | | | |
| Fluorene | ND | 10 | " | | | | | | | |
| 4-Chlorophenyl Phenyl Ether | ND | 10 | " | | | | | | | |
| 4-Nitroaniline | ND | 20 | " | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 20 | " | | | | | | | |
| N-Nitrosodiphenylamine | ND | 10 | " | | | | | | | |
| Azobenzene | ND | 10 | " | | | | | | | |
| 4-Bromophenyl Phenyl Ether | ND | 10 | " | | | | | | | |
| Hexachlorobenzene | ND | 10 | " | | | | | | | |
| Pentachlorophenol | ND | 20 | " | | | | | | | |
| Phenanthrene | ND | 10 | " | | | | | | | |
| Anthracene | ND | 10 | " | | | | | | | |
| Di-n-butyl Phthalate | ND | 10 | " | | | | | | | |
| Fluoranthene | ND | 10 | " | | | | | | | |
| Benzidine | ND | 50 | " | | | | | | | |
| Pyrene | ND | 10 | " | | | | | | | |
| Butyl Benzyl Phthalate | ND | 10 | " | | | | | | | |
| 3,3'-Dichlorobenzidine | ND | 20 | " | | | | | | | |
| Benzo(a)anthracene | ND | 10 | " | | | | | | | |
| Chrysene | ND | 10 | " | | | | | | | |
| Bis(2-Ethylhexyl) Phthalate | ND | 10 | " | | | | | | | |
| Di-n-octyl Phthalate | ND | 10 | " | | | | | | | |
| Benzo(b)Fluoranthene | ND | 10 | " | | | | | | | |
| Benzo(k)Fluoranthene | ND | 10 | " | | | | | | | |
| Benzo(a)Pyrene | ND | 10 | " | | | | | | | |
| Indeno(1,2,3-cd)Pyrene | ND | 10 | " | | | | | | | |
| Dibenzo(a,h)anthracene | ND | 10 | " | | | | | | | |
| Benzo(g,h,i)perylene | ND | 10 | " | | | | | | | |
| *Surrogate: 2-Fluorophenol* | *37.5* | | " | *48.8* | | *76.8* | *45-110* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *43.0* | | " | *45.1* | | *95.3* | *50-110* | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375



## Determination of Base/Neutral/Acid Extractable Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31537 - 3520C BNA Cont Liq** | | | | | | | | | | |
| **Blank (1J31537-BLK1)** | | | | Prepared: 10/15/03 | | Analyzed: 10/20/03 | | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *61.0* | | *ug/l* | *45.9* | | *133* | *59-130* | | | *S-A* |
| *Surrogate: Phenol-d6* | *37.1* | | *"* | *45.4* | | *81.7* | *44-115* | | | |
| *Surrogate: Terphenyl-dl4* | *43.5* | | *"* | *45.1* | | *96.5* | *40-110* | | | |
| *Surrogate: Nitrobenzene-d5* | *41.8* | | *"* | *46.2* | | *90.5* | *47-123* | | | |
| **LCS (1J31537-BS1)** | | | | Prepared: 10/15/03 | | Analyzed: 10/20/03 | | | | |
| Phenol | 49.5 | 10 | ug/l | 51.4 | | 96.3 | 55-116 | | | |
| 2-Chlorophenol | 46.0 | 10 | " | 50.0 | | 92.0 | 46-121 | | | |
| 1,4-Dichlorobenzene | 46.2 | 10 | " | 50.4 | | 91.7 | 47-110 | | | |
| n-Nitroso-di-n-propylamine | 39.1 | 10 | " | 50.0 | | 78.2 | 46-110 | | | |
| (3 & 4)-Methylphenol | 48.8 | 10 | " | 49.8 | | 98.0 | 70-130 | | | |
| Nitrobenzene | 43.4 | 10 | " | 54.4 | | 79.8 | 70-130 | | | |
| 2-Nitrophenol | 50.2 | 10 | " | 52.0 | | 96.5 | 70-130 | | | |
| 4-Chloro-3-methylphenol | 49.2 | 10 | " | 50.8 | | 96.9 | 59-123 | | | |
| 2,6-Dinitrotoluene | 46.3 | 10 | " | 52.6 | | 88.0 | 57-132 | | | |
| 4,6-Dinitro-2-methylphenol | 53.1 | 20 | " | 52.6 | | 101 | 70-130 | | | |
| Pentachlorophenol | 95.0 | 20 | " | 52.2 | | 182 | 51-138 | | | QS-02 |
| Phenanthrene | 43.4 | 10 | " | 50.0 | | 86.8 | 70-130 | | | |
| Anthracene | 37.2 | 10 | " | 50.6 | | 73.5 | 70-130 | | | |
| Di-n-butyl Phthalate | 49.2 | 10 | " | 53.2 | | 92.5 | 70-130 | | | |
| Fluoranthene | 41.5 | 10 | " | 50.8 | | 81.7 | 70-130 | | | |
| Pyrene | 53.6 | 10 | " | 52.2 | | 103 | 48-119 | | | |
| *Surrogate: 2-Fluorophenol* | *39.1* | | *"* | *48.8* | | *80.1* | *45-110* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *39.2* | | *"* | *45.1* | | *86.9* | *50-110* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *58.6* | | *"* | *45.9* | | *128* | *59-130* | | | |
| *Surrogate: Phenol-d6* | *43.0* | | *"* | *45.4* | | *94.7* | *44-115* | | | |
| *Surrogate: Terphenyl-dl4* | *45.7* | | *"* | *45.1* | | *101* | *40-110* | | | |
| *Surrogate: Nitrobenzene-d5* | *37.8* | | *"* | *46.2* | | *81.8* | *47-123* | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**

**October 27, 2003**


## Determination of Base/Neutral/Acid Extractable Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31537 - 3520C BNA Cont Liq** | | | | | | | | | | |
| **Calibration Check (1J31537-CCV1)** | | | | Prepared: 10/15/03 | | Analyzed: 10/20/03 | | | | |
| N-Nitrosodimethylamine | 48.3 | | ug/l | 42.0 | | 115 | 80-120 | | | |
| Phenol | 44.5 | | " | 42.0 | | 106 | 80-120 | | | |
| Aniline | 47.7 | | " | 42.0 | | 114 | 80-120 | | | |
| Bis(2-Chloroethyl) Ether | 42.4 | | " | 42.0 | | 101 | 80-120 | | | |
| 2-Chlorophenol | 44.6 | | " | 42.0 | | 106 | 80-120 | | | |
| 1,3-Dichlorobenzene | 43.5 | | " | 42.0 | | 104 | 80-120 | | | |
| 1,4-Dichlorobenzene | 44.3 | | " | 42.0 | | 105 | 80-120 | | | |
| Benzyl Alcohol | 47.3 | | " | 42.0 | | 113 | 80-120 | | | |
| 1,2-Dichlorobenzene | 44.1 | | " | 42.4 | | 104 | 80-120 | | | |
| n-Nitroso-di-n-propylamine | 43.2 | | " | 42.0 | | 103 | 80-120 | | | |
| 2-Methylphenol | 44.4 | | " | 42.0 | | 106 | 80-120 | | | |
| Bis(2-Chloroisopropyl) Ether | 43.5 | | " | 42.0 | | 104 | 80-120 | | | |
| (3 & 4)-Methylphenol | 44.3 | | " | 42.0 | | 105 | 80-120 | | | |
| Hexachloroethane | 45.6 | | " | 42.0 | | 109 | 80-120 | | | |
| Nitrobenzene | 43.6 | | " | 42.0 | | 104 | 80-120 | | | |
| Isophorone | 44.0 | | " | 42.0 | | 105 | 80-120 | | | |
| 2-Nitrophenol | 41.3 | | " | 42.2 | | 97.9 | 80-120 | | | |
| 2,4-Dimethylphenol | 44.7 | | " | 42.0 | | 106 | 80-120 | | | |
| Bis(2-Chloroethoxy) Methane | 43.2 | | " | 42.0 | | 103 | 80-120 | | | |
| 2,4-Dichlorophenol | 43.8 | | " | 42.0 | | 104 | 80-120 | | | |
| 1,2,4-Trichlorobenzene | 40.7 | | " | 42.0 | | 96.9 | 80-120 | | | |
| Naphthalene | 42.1 | | " | 42.0 | | 100 | 80-120 | | | |
| 4-Chloroaniline | 46.6 | | " | 42.0 | | 111 | 80-120 | | | |
| Hexachlorobutadiene | 47.8 | | " | 42.0 | | 114 | 80-120 | | | |
| 4-Chloro-3-methylphenol | 45.9 | | " | 42.0 | | 109 | 80-120 | | | |
| 2-Methylnaphthalene | 43.1 | | " | 42.0 | | 103 | 80-120 | | | |
| Hexachlorocyclopentadiene | 38.2 | | " | 42.4 | | 90.1 | 80-120 | | | |
| 2,4,6-Trichlorophenol | 41.8 | | " | 42.0 | | 99.5 | 80-120 | | | |
| 2,4,5-Trichlorophenol | 42.1 | | " | 42.2 | | 99.8 | 80-120 | | | |
| 2-Chloronaphthalene | 42.0 | | " | 42.0 | | 100 | 80-120 | | | |
| 2-Nitroaniline | 41.2 | | " | 42.1 | | 97.9 | 80-120 | | | |
| Dimethylphthalate | 42.0 | | " | 42.0 | | 100 | 80-120 | | | |
| Acenaphthylene | 39.3 | | " | 42.0 | | 93.6 | 80-120 | | | |
| 2,6-Dinitrotoluene | 39.5 | | " | 42.0 | | 94.0 | 80-120 | | | |
| 3-Nitroaniline | 43.2 | | " | 42.0 | | 103 | 80-120 | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**



## Determination of Base/Neutral/Acid Extractable Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31537 - 3520C BNA Cont Liq** | | | | | | | | | | |
| **Calibration Check (1J31537-CCV1)** | | | | Prepared: 10/15/03 | | Analyzed: 10/20/03 | | | | |
| Acenaphthene | 42.6 | | ug/l | 42.0 | | 101 | 80-120 | | | |
| 2,4-Dinitrophenol | 49.6 | | " | 42.0 | | 118 | 80-120 | | | |
| Dibenzofuran | 40.4 | | " | 42.0 | | 96.2 | 80-120 | | | |
| 2,4-Dinitrotoluene | 41.8 | | " | 42.0 | | 99.5 | 80-120 | | | |
| 4-Nitrophenol | 45.1 | | " | 42.2 | | 107 | 80-120 | | | |
| Diethyl Phthalate | 43.4 | | " | 42.0 | | 103 | 80-120 | | | |
| Fluorene | 41.0 | | " | 42.0 | | 97.6 | 80-120 | | | |
| 4-Chlorophenyl Phenyl Ether | 41.6 | | " | 42.0 | | 99.0 | 80-120 | | | |
| 4-Nitroaniline | 32.9 | | " | 42.0 | | 78.3 | 80-120 | | | QR-06 |
| 4,6-Dinitro-2-methylphenol | 48.6 | | " | 42.2 | | 115 | 80-120 | | | |
| N-Nitrosodiphenylamine | 41.3 | | " | 42.1 | | 98.1 | 80-120 | | | |
| Azobenzene | 41.9 | | " | 42.0 | | 99.8 | 80-120 | | | |
| 4-Bromophenyl Phenyl Ether | 42.0 | | " | 42.0 | | 100 | 80-120 | | | |
| Hexachlorobenzene | 43.8 | | " | 42.0 | | 104 | 80-120 | | | |
| Pentachlorophenol | 88.5 | | " | 42.2 | | 210 | 80-120 | | | QS-02 |
| Phenanthrene | 46.6 | | " | 42.0 | | 111 | 80-120 | | | |
| Anthracene | 43.9 | | " | 42.0 | | 105 | 80-120 | | | |
| Di-n-butyl Phthalate | 42.9 | | " | 42.0 | | 102 | 80-120 | | | |
| Fluoranthene | 41.0 | | " | 42.0 | | 97.6 | 80-120 | | | |
| Pyrene | 46.4 | | " | 42.0 | | 110 | 80-120 | | | |
| Butyl Benzyl Phthalate | 44.1 | | " | 42.0 | | 105 | 80-120 | | | |
| Benzo(a)anthracene | 41.5 | | " | 42.0 | | 98.8 | 80-120 | | | |
| Chrysene | 42.9 | | " | 42.0 | | 102 | 80-120 | | | |
| Bis(2-Ethylhexyl) Phthalate | 46.5 | | " | 42.0 | | 111 | 80-120 | | | |
| Di-n-octyl Phthalate | 45.2 | | " | 42.1 | | 107 | 80-120 | | | |
| Benzo(b)Fluoranthene | 40.0 | | " | 42.0 | | 95.2 | 80-120 | | | |
| Benzo(k)Fluoranthene | 45.4 | | " | 42.0 | | 108 | 80-120 | | | |
| Benzo(a)Pyrene | 38.9 | | " | 42.0 | | 92.6 | 80-120 | | | |
| Indeno(1,2,3-cd)Pyrene | 37.3 | | " | 42.0 | | 88.8 | 80-120 | | | |
| Dibenzo(a,h)anthracene | 41.6 | | " | 42.0 | | 99.0 | 80-120 | | | |
| Benzo(g,h,i)perylene | 41.6 | | " | 42.0 | | 99.0 | 80-120 | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**



## Determination of Base/Neutral/Acid Extractable Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31537 - 3520C BNA Cont Liq** | | | | | | | | | | |
| **Matrix Spike (1J31537-MS1)** | | **Source: 13J0548-02** | | Prepared: 10/15/03 | | Analyzed: 10/20/03 | | | | |
| Phenol | 41.9 | 10 | ug/l | 56.7 | ND | 73.9 | 55-116 | | | |
| 2-Chlorophenol | 40.1 | 10 | " | 55.2 | ND | 72.6 | 46-121 | | | |
| 1,4-Dichlorobenzene | 41.6 | 10 | " | 55.6 | ND | 74.8 | 47-110 | | | |
| n-Nitroso-di-n-propylamine | 34.9 | 10 | " | 55.2 | ND | 63.2 | 45-120 | | | |
| (3 & 4)-Methylphenol | 46.0 | 10 | " | 55.0 | ND | 83.6 | 70-130 | | | |
| Nitrobenzene | 42.4 | 10 | " | 60.0 | ND | 70.7 | 70-130 | | | |
| 2-Nitrophenol | 42.5 | 10 | " | 57.3 | ND | 74.2 | 70-130 | | | |
| 4-Chloro-3-methylphenol | 52.9 | 10 | " | 56.1 | ND | 94.3 | 59-123 | | | |
| 2,6-Dinitrotoluene | 54.1 | 10 | " | 58.1 | ND | 93.1 | 57-132 | | | |
| 4,6-Dinitro-2-methylphenol | 60.4 | 20 | " | 58.1 | ND | 104 | 70-130 | | | |
| Pentachlorophenol | 101.0 | 20 | " | 57.6 | ND | 175 | 51-138 | | | QS-02 |
| Phenanthrene | 49.1 | 10 | " | 55.2 | ND | 88.9 | 70-130 | | | |
| Anthracene | 40.9 | 10 | " | 55.8 | ND | 73.3 | 70-130 | | | |
| Di-n-butyl Phthalate | 47.3 | 10 | " | 58.7 | ND | 80.6 | 70-130 | | | |
| Fluoranthene | 41.9 | 10 | " | 56.1 | ND | 74.7 | 70-130 | | | |
| Pyrene | 51.2 | 10 | " | 57.6 | ND | 88.9 | 48-119 | | | |
| *Surrogate: 2-Fluorophenol* | *36.3* | | *"* | *53.9* | | *67.3* | *45-110* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *38.9* | | *"* | *49.8* | | *78.1* | *50-110* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *64.8* | | *"* | *50.7* | | *128* | *59-130* | | | |
| *Surrogate: Phenol-d6* | *38.0* | | *"* | *50.1* | | *75.8* | *44-115* | | | |
| *Surrogate: Terphenyl-d14* | *44.8* | | *"* | *49.8* | | *90.0* | *40-110* | | | |
| *Surrogate: Nitrobenzene-d5* | *35.8* | | *"* | *50.9* | | *70.3* | *47-123* | | | |
| **Matrix Spike Dup (1J31537-MSD1)** | | **Source: 13J0548-02** | | Prepared: 10/15/03 | | Analyzed: 10/20/03 | | | | |
| Phenol | 41.1 | 10 | ug/l | 54.6 | ND | 75.3 | 55-116 | 1.93 | 35 | |
| 2-Chlorophenol | 41.1 | 10 | " | 53.1 | ND | 77.4 | 46-121 | 2.46 | 36 | |
| 1,4-Dichlorobenzene | 42.0 | 10 | " | 53.6 | ND | 78.4 | 47-110 | 0.957 | 44 | |
| n-Nitroso-di-n-propylamine | 36.9 | 10 | " | 53.1 | ND | 69.5 | 45-120 | 5.57 | 23 | |
| (3 & 4)-Methylphenol | 48.3 | 10 | " | 52.9 | ND | 91.3 | 70-130 | 4.88 | 20 | |
| Nitrobenzene | 41.5 | 10 | " | 57.8 | ND | 71.8 | 70-130 | 2.15 | 20 | |
| 2-Nitrophenol | 42.1 | 10 | " | 55.2 | ND | 76.3 | 70-130 | 0.946 | 20 | |
| 4-Chloro-3-methylphenol | 49.0 | 10 | " | 54.0 | ND | 90.7 | 59-123 | 7.65 | 28 | |
| 2,6-Dinitrotoluene | 52.0 | 10 | " | 55.9 | ND | 93.0 | 57-132 | 3.96 | 11 | |
| 4,6-Dinitro-2-methylphenol | 61.0 | 20 | " | 55.9 | ND | 109 | 70-130 | 0.988 | 20 | |
| Pentachlorophenol | 101.1 | 20 | " | 55.5 | ND | 182 | 51-138 | 0.0990 | 27 | QS-02 |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**



## Determination of Base/Neutral/Acid Extractable Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31537 - 3520C BNA Cont Liq** | | | | | | | | | | |
| **Matrix Spike Dup (1J31537-MSD1)** | | **Source: 13J0548-02** | | Prepared: 10/15/03 | | Analyzed: 10/20/03 | | | | |
| Phenanthrene | 48.9 | 10 | ug/l | 53.1 | ND | 92.1 | 70-130 | 0.408 | 20 | |
| Anthracene | 38.8 | 10 | " | 53.8 | ND | 72.1 | 70-130 | 5.27 | 20 | |
| Di-n-butyl Phthalate | 43.7 | 10 | " | 56.5 | ND | 77.3 | 70-130 | 7.91 | 20 | |
| Fluoranthene | 44.2 | 10 | " | 54.0 | ND | 81.9 | 70-130 | 5.34 | 20 | |
| Pyrene | 48.8 | 10 | " | 55.5 | ND | 87.9 | 48-119 | 4.80 | 29 | |
| *Surrogate: 2-Fluorophenol* | *39.5* | | *"* | *51.9* | | *76.1* | *45-110* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *39.6* | | *"* | *47.9* | | *82.7* | *50-110* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *66.4* | | *"* | *48.8* | | *136* | *59-130* | | | *S-A* |
| *Surrogate: Phenol-d6* | *37.8* | | *"* | *48.2* | | *78.4* | *44-115* | | | |
| *Surrogate: Terphenyl-d14* | *46.0* | | *"* | *47.9* | | *96.0* | *40-110* | | | |
| *Surrogate: Nitrobenzene-d5* | *35.3* | | *"* | *49.0* | | *72.0* | *47-123* | | | |
| **Reference (1J31537-SRM1)** | | | | Prepared: 10/15/03 | | Analyzed: 10/20/03 | | | | |
| Phenol | 50.0 | 10 | ug/l | 51.5 | | 97.1 | 70-130 | | | |
| 2-Chlorophenol | 53.5 | 10 | " | 50.0 | | 107 | 70-130 | | | |
| 1,4-Dichlorobenzene | 50.1 | 10 | " | 50.5 | | 99.2 | 70-130 | | | |
| n-Nitroso-di-n-propylamine | 52.0 | 10 | " | 50.0 | | 104 | 70-130 | | | |
| (3 & 4)-Methylphenol | 56.3 | 10 | " | 49.8 | | 113 | 70-130 | | | |
| Nitrobenzene | 53.7 | 10 | " | 54.5 | | 98.5 | 70-130 | | | |
| 2-Nitrophenol | 50.1 | 10 | " | 52.0 | | 96.3 | 70-130 | | | |
| 4-Chloro-3-methylphenol | 50.4 | 10 | " | 51.0 | | 98.8 | 70-130 | | | |
| Dimethylphthalate | 54.4 | 15 | " | 53.5 | | 102 | 70-130 | | | |
| 2,6-Dinitrotoluene | 47.9 | 10 | " | 52.5 | | 91.2 | 70-130 | | | |
| Diethyl Phthalate | 48.8 | 30 | " | 53.5 | | 91.2 | 70-130 | | | |
| 4,6-Dinitro-2-methylphenol | 54.8 | 20 | " | 52.5 | | 104 | 70-130 | | | |
| Pentachlorophenol | 100.8 | 20 | " | 52.0 | | 194 | 70-130 | | | QS-02 |
| Phenanthrene | 50.4 | 10 | " | 50.0 | | 101 | 70-130 | | | |
| Anthracene | 48.3 | 10 | " | 50.5 | | 95.6 | 70-130 | | | |
| Di-n-butyl Phthalate | 61.2 | 10 | " | 53.0 | | 115 | 70-130 | | | |
| Fluoranthene | 49.7 | 10 | " | 51.0 | | 97.5 | 70-130 | | | |
| Pyrene | 42.5 | 10 | " | 52.0 | | 81.7 | 70-130 | | | |
| *Surrogate: 2-Fluorophenol* | *61.8* | | *"* | *48.8* | | *127* | *70-130* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *46.0* | | *"* | *45.1* | | *102* | *70-130* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *62.2* | | *"* | *45.9* | | *136* | *70-130* | | | *S-A* |
| *Surrogate: Phenol-d6* | *51.4* | | *"* | *45.4* | | *113* | *70-130* | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



## Determination of Base/Neutral/Acid Extractable Compounds - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31537 - 3520C BNA Cont Liq** | | | | | | | | | | |
| **Reference (1J31537-SRM1)** | | | | Prepared: 10/15/03 | | Analyzed: 10/20/03 | | | | |
| *Surrogate: Terphenyl-dl4* | *38.0* | | *ug/l* | *45.1* | | *84.3* | *70-130* | | | |
| *Surrogate: Nitrobenzene-d5* | *42.3* | | *"* | *46.2* | | *91.6* | *70-130* | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**



## Determination of Polychlorinated Biphenyls (PCB) - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31638 - 3510C NP/OC Sep Fnl** | | | | | | | | | | |
| **Blank (1J31638-BLK1)** | | | | Prepared: 10/16/03 | | Analyzed: 10/24/03 | | | | |
| Arochlor 1016 | ND | 0.10 | ug/l | | | | | | | |
| Arochlor 1221 | ND | 0.20 | " | | | | | | | |
| Arochlor 1232 | ND | 0.20 | " | | | | | | | |
| Arochlor 1242 | ND | 0.20 | " | | | | | | | |
| Arochlor 1248 | ND | 0.20 | " | | | | | | | |
| Arochlor 1254 | ND | 0.10 | " | | | | | | | |
| Arochlor 1260 | ND | 0.10 | " | | | | | | | |
| *Surrogate: Decachlorobiphenyl* | *0.335* | | " | *0.962* | | *34.8* | *55-130* | | | *S-* |
| **LCS (1J31638-BS1)** | | | | Prepared: 10/16/03 | | Analyzed: 10/24/03 | | | | |
| Arochlor 1016 | 3.035 | 0.10 | ug/l | 2.800 | | 108 | 60-140 | | | |
| Arochlor 1260 | 2.900 | 0.10 | " | 2.800 | | 104 | 71-140 | | | |
| *Surrogate: Decachlorobiphenyl* | *0.215* | | " | *0.962* | | *22.3* | *55-130* | | | *S-* |
| **Calibration Check (1J31638-CCV1)** | | | | Prepared: 10/16/03 | | Analyzed: 10/24/03 | | | | |
| Arochlor 1016 | 1.134 | | ug/l | 1.120 | | 101 | 75-125 | | | |
| Arochlor 1260 | 1.138 | | " | 1.120 | | 102 | 75-125 | | | |
| **Matrix Spike (1J31638-MS1)** | | **Source: 13J0548-02** | | Prepared: 10/16/03 | | Analyzed: 10/24/03 | | | | |
| Arochlor 1016 | 3.056 | 0.10 | ug/l | 3.008 | ND | 102 | 60-140 | | | |
| Arochlor 1260 | 3.072 | 0.10 | " | 3.008 | ND | 102 | 60-140 | | | |
| *Surrogate: Decachlorobiphenyl* | *0.602* | | " | *1.033* | | *58.3* | *55-130* | | | |
| **Matrix Spike Dup (1J31638-MSD1)** | | **Source: 13J0548-02** | | Prepared: 10/16/03 | | Analyzed: 10/24/03 | | | | |
| Arochlor 1016 | 3.059 | 0.10 | ug/l | 3.053 | ND | 100 | 60-140 | 0.0981 | 30 | |
| Arochlor 1260 | 2.988 | 0.10 | " | 3.053 | ND | 97.9 | 60-140 | 2.77 | 30 | |
| *Surrogate: Decachlorobiphenyl* | *0.583* | | " | *1.049* | | *55.6* | *55-130* | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**October 27, 2003**

**Work Order: 13J0548**



## Determination of Polychlorinated Biphenyls (PCB) - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31638 - 3510C NP/OC Sep Fnl** | | | | | | | | | | |
| **Reference (1J31638-SRM1)** | | | | Prepared: 10/16/03 | | Analyzed: 10/24/03 | | | | |
| Arochlor 1016 | 2.925 | 0.10 | ug/l | 2.800 | | 104 | 70-130 | | | |
| Arochlor 1260 | 2.900 | 0.10 | " | 2.800 | | 104 | 70-130 | | | |
| *Surrogate: Decachlorobiphenyl* | *0.915* | | *"* | *0.962* | | *95.1* | *70-130* | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**

**October 27, 2003**


## Determination of Total Metals - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31306 - EPA 3020A Total GFAA** | | | | | | | | | | |
| **Blank (1J31306-BLK1)** | | | | Prepared: 10/13/03 | | Analyzed: 10/15/03 | | | | |
| Arsenic, total | ND | 0.005 | mg/l | | | | | | | |
| Cadmium, total | ND | 0.0010 | " | | | | | | | |
| Selenium, total | ND | 0.005 | " | | | | | | | |
| **LCS (1J31306-BS1)** | | | | Prepared: 10/13/03 | | Analyzed: 10/15/03 | | | | |
| Arsenic, total | 0.0256 | 0.005 | mg/l | 0.0250 | | 102 | 84-132 | | | |
| Cadmium, total | 0.00092 | 0.0010 | " | 0.00100 | | 92.0 | 78-121 | | | |
| Selenium, total | 0.0246 | 0.005 | " | 0.0250 | | 98.4 | 84-127 | | | |
| **Calibration Check (1J31306-CCV1)** | | | | Prepared: 10/13/03 | | Analyzed: 10/15/03 | | | | |
| Arsenic, total | 0.0247 | | mg/l | 0.0250 | | 98.8 | 90-110 | | | |
| Selenium, total | 0.0234 | | " | 0.0250 | | 93.6 | 90-110 | | | |
| **Calibration Check (1J31306-CCV2)** | | | | Prepared: 10/13/03 | | Analyzed: 10/15/03 | | | | |
| Arsenic, total | 0.0252 | | mg/l | 0.0250 | | 101 | 85-115 | | | |
| Selenium, total | 0.0221 | | " | 0.0250 | | 88.4 | 85-115 | | | |
| **Calibration Check (1J31306-CCV3)** | | | | Prepared: 10/13/03 | | Analyzed: 10/15/03 | | | | |
| Cadmium, total | 0.00103 | | mg/l | 0.00100 | | 103 | 90-110 | | | |
| **Calibration Check (1J31306-CCV4)** | | | | Prepared: 10/13/03 | | Analyzed: 10/15/03 | | | | |
| Cadmium, total | 0.00097 | | mg/l | 0.00100 | | 97.0 | 85-115 | | | |
| **Matrix Spike (1J31306-MS1)** | | **Source: 13J0530-02** | | Prepared: 10/13/03 | | Analyzed: 10/15/03 | | | | |
| Arsenic, total | 0.0212 | 0.005 | mg/l | 0.0250 | ND | 84.8 | 62-130 | | | |
| Cadmium, total | 0.00068 | 0.0010 | " | 0.00100 | ND | 68.0 | 54-111 | | | |
| Selenium, total | 0.0228 | 0.005 | " | 0.0250 | 0.0009 | 87.6 | 68-110 | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**

**October 27, 2003**


## Determination of Total Metals - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31306 - EPA 3020A Total GFAA** | | | | | | | | | | |
| **Matrix Spike Dup (1J31306-MSD1)** | | **Source: 13J0530-02** | | Prepared: 10/13/03 | | Analyzed: 10/15/03 | | | | |
| Arsenic, total | 0.0206 | 0.005 | mg/l | 0.0250 | ND | 82.4 | 62-130 | 2.87 | 13 | |
| Cadmium, total | 0.00065 | 0.0010 | " | 0.00100 | ND | 65.0 | 54-111 | 4.51 | 21 | |
| Selenium, total | 0.0225 | 0.005 | " | 0.0250 | 0.0009 | 86.4 | 68-110 | 1.32 | 10 | |
| **Post Spike (1J31306-PS1)** | | **Source: 13J0530-02** | | Prepared: 10/13/03 | | Analyzed: 10/15/03 | | | | |
| Arsenic, total | 0.0117 | | mg/l | 0.0125 | | 93.6 | 63-139 | | | |
| Selenium, total | 0.0125 | | " | 0.0125 | 0.000900 | 92.8 | 68-117 | | | |
| **Post Spike (1J31306-PS2)** | | **Source: 13J0530-02** | | Prepared: 10/13/03 | | Analyzed: 10/15/03 | | | | |
| Cadmium, total | 0.00035 | | mg/l | 0.000500 | | 70.0 | 53-117 | | | |
| **Reference (1J31306-SRM1)** | | | | Prepared: 10/13/03 | | Analyzed: 10/15/03 | | | | |
| Arsenic, total | 0.0098 | 0.005 | mg/l | 0.0100 | | 98.0 | 80-120 | | | |
| Selenium, total | 0.0112 | 0.005 | " | 0.0100 | | 112 | 80-120 | | | |
| **Reference (1J31306-SRM2)** | | | | Prepared: 10/13/03 | | Analyzed: 10/15/03 | | | | |
| Cadmium, total | 0.00078 | 0.0010 | mg/l | 0.000750 | | 104 | 80-120 | | | |
| **Batch 1J31401 - EPA 3010A Total ICP** | | | | | | | | | | |
| **Blank (1J31401-BLK1)** | | | | Prepared & Analyzed: 10/14/03 | | | | | | |
| Barium, total | ND | 0.010 | mg/l | | | | | | | |
| Chromium, total | ND | 0.005 | " | | | | | | | |
| Lead, total | ND | 0.005 | " | | | | | | | |
| Silver, total | ND | 0.010 | " | | | | | | | |
| **LCS (1J31401-BS1)** | | | | Prepared & Analyzed: 10/14/03 | | | | | | |
| Barium, total | 0.216 | 0.010 | mg/l | 0.200 | | 108 | 90-116 | | | |
| Chromium, total | 0.207 | 0.005 | " | 0.200 | | 104 | 90-110 | | | |
| Lead, total | 0.209 | 0.005 | " | 0.200 | | 104 | 90-112 | | | |
| Silver, total | 0.199 | 0.010 | " | 0.200 | | 99.5 | 87-112 | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**

**October 27, 2003**


## Determination of Total Metals - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31401 - EPA 3010A Total ICP** | | | | | | | | | | |
| **Calibration Check (1J31401-CCV1)** | | | | Prepared & Analyzed: 10/14/03 | | | | | | |
| Barium, total | 1.08 | | mg/l | 1.00 | | 108 | 85-115 | | | |
| Chromium, total | 1.03 | | " | 1.00 | | 103 | 85-115 | | | |
| Lead, total | 1.06 | | " | 1.00 | | 106 | 85-115 | | | |
| Silver, total | 1.00 | | " | 1.00 | | 100 | 85-115 | | | |
| **Calibration Check (1J31401-CCV2)** | | | | Prepared & Analyzed: 10/14/03 | | | | | | |
| Barium, total | 1.08 | | mg/l | 1.00 | | 108 | 85-115 | | | |
| Chromium, total | 1.06 | | " | 1.00 | | 106 | 85-115 | | | |
| Lead, total | 1.08 | | " | 1.00 | | 108 | 85-115 | | | |
| Silver, total | 1.01 | | " | 1.00 | | 101 | 85-115 | | | |
| **Matrix Spike (1J31401-MS1)** | | **Source: 13J0547-03** | | Prepared & Analyzed: 10/14/03 | | | | | | |
| Barium, total | 0.278 | 0.010 | mg/l | 0.200 | 0.065 | 106 | 79-119 | | | |
| Chromium, total | 0.239 | 0.005 | " | 0.200 | 0.034 | 102 | 84-114 | | | |
| Lead, total | 0.215 | 0.005 | " | 0.200 | 0.004 | 106 | 89-117 | | | |
| Silver, total | 0.196 | 0.010 | " | 0.200 | ND | 98.0 | 81-122 | | | |
| **Matrix Spike Dup (1J31401-MSD1)** | | **Source: 13J0547-03** | | Prepared & Analyzed: 10/14/03 | | | | | | |
| Barium, total | 0.278 | 0.010 | mg/l | 0.200 | 0.065 | 106 | 79-119 | 0.00 | 12 | |
| Chromium, total | 0.236 | 0.005 | " | 0.200 | 0.034 | 101 | 84-114 | 1.26 | 8 | |
| Lead, total | 0.213 | 0.005 | " | 0.200 | 0.004 | 104 | 89-117 | 0.935 | 10 | |
| Silver, total | 0.194 | 0.010 | " | 0.200 | ND | 97.0 | 81-122 | 1.03 | 12 | |
| **Post Spike (1J31401-PS1)** | | **Source: 13J0547-03** | | Prepared & Analyzed: 10/14/03 | | | | | | |
| Barium, total | 0.270 | 0.010 | mg/l | 0.200 | 0.065 | 102 | 78-108 | | | |
| Chromium, total | 0.229 | 0.005 | " | 0.200 | 0.034 | 97.5 | 74-111 | | | |
| Lead, total | 0.206 | 0.005 | " | 0.200 | 0.004 | 101 | 76-114 | | | |
| Silver, total | 0.188 | 0.010 | " | 0.200 | ND | 94.0 | 69-110 | | | |

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**

**October 27, 2003**


## Determination of Total Metals - Quality Control
## Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1J31401 - EPA 3010A Total ICP** | | | | | | | | | | |
| **Reference (1J31401-SRM1)** | | | | Prepared & Analyzed: 10/14/03 | | | | | | |
| Barium, total | 0.545 | | mg/l | 0.500 | | 109 | 85-115 | | | |
| Chromium, total | 0.531 | | " | 0.500 | | 106 | 85-115 | | | |
| Lead, total | 0.552 | | " | 0.500 | | 110 | 85-115 | | | |
| Silver, total | 0.521 | | " | 0.500 | | 104 | 85-115 | | | |
| **Batch 1J31416 - EPA 245.1 Hg Dig** | | | | | | | | | | |
| **Blank (1J31416-BLK1)** | | | | Prepared: 10/14/03 Analyzed: 10/15/03 | | | | | | |
| Mercury, total | ND | 0.00050 | mg/l | | | | | | | |
| **LCS (1J31416-BS1)** | | | | Prepared: 10/14/03 Analyzed: 10/15/03 | | | | | | |
| Mercury, total | 0.00224 | 0.00050 | mg/l | 0.00200 | | 112 | 77-111 | | | QS-02 |
| **LCS (1J31416-BS2)** | | | | Prepared: 10/14/03 Analyzed: 10/15/03 | | | | | | |
| Mercury, total | 0.00219 | 0.00050 | mg/l | 0.00200 | | 110 | 77-111 | | | |
| **Matrix Spike (1J31416-MS1)** | | **Source: 13J0547-05** | | Prepared: 10/14/03 Analyzed: 10/15/03 | | | | | | |
| Mercury, total | 0.00201 | 0.00050 | mg/l | 0.00200 | 0.00005 | 98.0 | 70-110 | | | |
| **Matrix Spike Dup (1J31416-MSD1)** | | **Source: 13J0547-05** | | Prepared: 10/14/03 Analyzed: 10/15/03 | | | | | | |
| Mercury, total | 0.00234 | 0.00050 | mg/l | 0.00200 | 0.00005 | 114 | 70-110 | 15.2 | 15 | QM-19 |

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

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Montgomery Watson Harza-MI
41551 Eleven Mile Road
Novi, MI 48375

**Work Order: 13J0548**

**October 27, 2003**



## Notes and Definitions

| | |
|---|---|
| QM-19 | The MS or MSD recovery was outside acceptance limits.This resulted in an unacceptable RPD. All other QC was acceptable. |
| QR-06 | The reference standard was outside of established control limits. |
| QS-02 | The spike recovery for this QC sample exceeded established acceptance limits. However, all samples were below the reporting and/or regulatory limit so the data is acceptable. |
| S-07 | The surrogate recovery for this sample is outside of established control limits. |
| S-07 | The surrogate recovery for this sample is outside of established control limits. |
| S-AC | Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates. |
| S-BN | Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates. |

End of Report

Jeffrey King

Keystone Laboratories, Inc.
Jeffrey King, Ph.D.
Laboratory Director

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Cooler # Silver 2

# Keystone Laboratories, Inc. Cooler/ Sample Receipt Form

**Client:** Montgomery Watson Harza-MT **Work Order:** 1310548 **Date Received:** 10-11-03 **Initials:** YMLM

**Delivered By:** UPS/FedX/AirBrn Pry Exp/ Mail/ Walk-in/ Courier / Other:_____ **Air Bill Number:** 841763039430

**Type of packing material:** Bubble/ Foam/ Paper/ Peanuts/ Vermiculite/ NA/ Other_____

**Custody Seal:** ❑ Present ☒ Absent ❑ Broken Seal No. _____ **COC signed and dated:** Yes / No

**Samples cooled by:** Ice/Ice Packs/ NA/ Other_____ **Cooler Temperature (includes correction factor):** 2.9

**Sample Receipt Discrepancies:** ☒ No ❑ Yes (if Yes, see detail below)

| | |
|---|---|
| ❑ Chain of Custody not present<br>❑ Information obtained from PO/ letter received with samples | ❑ Broken or leaking containers: _____ |
| ❑ Container Problems:<br>❑ Label Absent<br>❑ Incorrect Containers for tests indicated<br>❑ Insufficient amount of sample for tests indicated | ❑ Sample listed on COC not received: |
| ❑ COC incomplete<br>❑ COC missing time sampled, time obtained from sample container.<br>❑ COC missing date sampled, date obtained from sample container<br>❑ Sample excluded from COC: _____ | ❑ Air bubbles in VOA vials: _____<br>❑ Sample description on container label different from COC: _____ |

Detailed Description/comments: _____

Client contacted regarding cooler/sample receipt conditions: Yes / No Contacted by_____ Date/Time:_____

Who was contacted:_____ Remarks:_____

Cooler # Blue

# Keystone Laboratories, Inc. Cooler/ Sample Receipt Form

**Client:** Mon-Wat-Haz. **Work Order:** 13)0548 **Date Received:** 10-11-03 **Initials:** [illegible]

**Delivered By:** UPS/ FedX/ AirBrn Pry Exp/ Mail/ Walk-in/ Courier / Other:_____ **Air Bill Number:** 841763039430

**Type of packing material:** Bubble/ Foam/ Paper/ Peanuts/ Vermiculite/ NA/ Other_____

**Custody Seal:** ❑ Present ☒ Absent ❑ Broken Seal No. _____ **COC signed and dated:** Yes / No

**Samples cooled by:** Ice/ Ice Packs/ NA/ Other_____ **Cooler Temperature (includes correction factor):** 4.3

**Sample Receipt Discrepancies:** ☒ No ❑ Yes (if Yes, see detail below)

| | |
|---|---|
| ❑ Chain of Custody not present<br>❑ Information obtained from PO/ letter received with samples | ❑ Broken or leaking containers: _____ |
| ❑ Container Problems:<br>❑ Label Absent<br>❑ Incorrect Containers for tests indicated<br>❑ Insufficient amount of sample for tests indicated | ❑ Sample listed on COC not received: |
| ❑ COC incomplete<br>❑ COC missing time sampled, time obtained from sample container.<br>❑ COC missing date sampled, date obtained from sample container<br>❑ Sample excluded from COC: _____ | ❑ Air bubbles in VOA vials: _____<br>❑ Sample description on container label different from COC: _____ |

Detailed Description/comments: _____

Client contacted regarding cooler/sample receipt conditions: Yes / No Contacted by_____ Date/Time:_____

Who was contacted:_____ Remarks:_____