# APPENDIX B

# APCL ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

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# APCL Analytical Report

Submitted to:
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Service ID #: 801-021509 Received: 02/06/02
Collected by: Scott Elkind/Joe Strack Extracted: 02/08/02
Collected on: 02/05/02 Tested: 02/06-14/02
Revised: 04/01/02

Sample Description: Soil
Project Description: 831471 Hamilton AFB

## Analysis of Soil Samples

| Component Analyzed | Method | Unit | PQL | MDL | Analysis Result HBSFL622-SO-171 02-01509-1 | Waste P1-172 02-01509-2 | Waste P1-173 02-01509-3 |
|---|---|---|---|---|---|---|---|
| **MOISTURE** | ASTM-D2216 | %Moisture | 0.5 | 0.19 | 29.6 | 29.9 | 28.7 |
| **PH** | 9045C | pH unit | 0.01 | 0.010 | 6.02 | - | - |
| **VOLATILE ORGANICS** | | | | | | | |
| Dilution Factor | | | | | 1 | 1.03 | 1 |
| ACETONE | SW8260B | µg/kg | 50 | 2.8 | - | < 73 | < 70 |
| BENZENE | SW8260B | µg/kg | 5 | 0.14 | - | < 7.3 | < 7.0 |
| BROMOBENZENE | SW8260B | µg/kg | 5 | 0.32 | - | < 7.3 | < 7.0 |
| BROMOCHLOROMETHANE | SW8260B | µg/kg | 5 | 0.46 | - | < 7.3 | < 7.0 |
| BROMODICHLOROMETHANE | SW8260B | µg/kg | 5 | 0.18 | - | < 7.3 | < 7.0 |
| BROMOFORM | SW8260B | µg/kg | 5 | 0.28 | - | < 7.3 | < 7.0 |
| BROMOMETHANE | SW8260B | µg/kg | 5 | 0.51 | - | < 7.3 | < 7.0 |
| 2-BUTANONE | SW8260B | µg/kg | 50 | 1.8 | - | < 73 | < 70 |
| N-BUTYLBENZENE | SW8260B | µg/kg | 5 | 0.40 | - | < 7.3 | < 7.0 |
| SEC-BUTYLBENZENE | SW8260B | µg/kg | 5 | 0.44 | - | < 7.3 | < 7.0 |
| T-BUTYLBENZENE | SW8260B | µg/kg | 5 | 0.64 | - | < 7.3 | < 7.0 |
| CARBON DISULFIDE | SW8260B | µg/kg | 10 | 0.12 | - | < 15 | < 14 |
| CARBON TETRACHLORIDE | SW8260B | µg/kg | 5 | 0.15 | - | < 7.3 | < 7.0 |
| CHLOROBENZENE | SW8260B | µg/kg | 5 | 0.17 | - | < 7.3 | < 7.0 |
| DIBROMOCHLOROMETHANE | SW8260B | µg/kg | 5 | 0.081 | - | < 7.3 | < 7.0 |
| CHLOROETHANE | SW8260B | µg/kg | 5 | 0.22 | - | < 7.3 | < 7.0 |
| 2-CHLOROETHYL VINTL ETHER | SW8260B | µg/kg | 20 | 1.4 | - | < 29 | < 28 |
| CHLOROFORM | SW8260B | µg/kg | 5 | 0.12 | - | 1J | 0.8J |
| CHLOROMETHANE | SW8260B | µg/kg | 5 | 0.22 | - | < 7.3 | < 7.0 |
| 2-CHLOROTOLUENE | SW8260B | µg/kg | 5 | 0.21 | - | < 7.3 | < 7.0 |
| 4-CHLOROTOLUENE | SW8260B | µg/kg | 5 | 0.39 | - | < 7.3 | < 7.0 |
| 1,2-DIBROMO-3-CHLOROPROPANE | SW8260B | µg/kg | 10 | 0.87 | - | < 15 | < 14 |
| 1,2-DIBROMOETHANE | SW8260B | µg/kg | 5 | 0.19 | - | < 7.3 | < 7.0 |
| DIBROMOMETHANE | SW8260B | µg/kg | 5 | 0.21 | - | < 7.3 | < 7.0 |
| 1,2-DICHLOROBENZENE | SW8260B | µg/kg | 5 | 0.19 | - | < 7.3 | < 7.0 |
| 1,3-DICHLOROBENZENE | SW8260B | µg/kg | 5 | 0.22 | - | < 7.3 | < 7.0 |
| 1,4-DICHLOROBENZENE | SW8260B | µg/kg | 5 | 0.18 | - | < 7.3 | < 7.0 |
| DICHLORODIFLUOROMETHANE | SW8260B | µg/kg | 5 | 0.27 | - | < 7.3 | < 7.0 |
| 1,1-DICHLOROETHANE | SW8260B | µg/kg | 5 | 0.12 | - | < 7.3 | < 7.0 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result HBSFL622-SO-171 02-01509-1 | Waste P1-172 02-01509-2 | Waste P1-173 02-01509-3 |
|---|---|---|---|---|---|---|
| 1,2-DICHLOROETHANE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,1-DICHLOROETHENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| CIS-1,2-DICHLOROETHENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| TRANS-1,2-DICHLOROETHENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,2-DICHLOROPROPANE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,3-DICHLOROPROPANE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 2,2-DICHLOROPROPANE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,1-DICHLOROPROPENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| CIS-1,3-DICHLOROPROPENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| TRANS-1,3-DICHLOROPROPENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| ETHYLBENZENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| HEXACHLOROBUTADIENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 2-HEXANONE | SW8260B | μg/kg | 10 | - | 2J | <14 |
| ISOPROPYLBENZENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| P-ISOPROPYLTOLUENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| METHYLENE CHLORIDE | SW8260B | μg/kg | 10 | - | 1J | 0.8J |
| 4-METHYL-2-PENTANONE | SW8260B | μg/kg | 10 | - | <15 | <14 |
| METHYL TERT-BUTYL ETHER | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| N-PROPYLBENZENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| STYRENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,1,1,2-TETRACHLOROETHANE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,1,2,2-TETRACHLOROETHANE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| TETRACHLOROETHYLENE(PCE) | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| TOLUENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,2,3-TRICHLOROBENZENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,2,4-TRICHLOROBENZENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,1,1-TRICHLOROETHANE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,1,2-TRICHLOROETHANE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| TRICHLOROETHYLENE (TCE) | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| TRICHLOROFLUOROMETHANE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,2,3-TRICHLOROPROPANE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,2,4-TRIMETHYLBENZENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,3,5-TRIMETHYLBENZENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| VINYL ACETATE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| VINYL CHLORIDE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| O-XYLENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |
| M,P-XYLENE | SW8260B | μg/kg | 5 | - | <7.3 | <7.0 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result HBSFL622-SO-171 02-01509-1 | Waste P1-172 02-01509-2 | Waste P1-173 02-01509-3 |
|---|---|---|---|---|---|---|
| SEMI-VOC, 64 COMPOUNDS | | | | | | |
| Dilution Factor | | | | 1 | 1 | 1 |
| ACENAPHTHENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| ACENAPHTHYLENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| ANTHRACENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| BENZO(A)ANTHRACENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| BENZO(A)PYRENE | SW8270C | μg/kg | 150 | - | < 210 | < 210 |
| BENZO(B)FLUORANTHENE | SW8270C | μg/kg | 150 | - | < 210 | < 210 |
| BENZO(G,H,I)PERYLENE | SW8270C | μg/kg | 150 | - | < 210 | < 210 |
| BENZO(K)FLUORANTHENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| BENZOIC ACID | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| BENZYL ALCOHOL | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| BIS(2-CHLOROETHOXY) METHANE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| BIS(2-CHLOROETHYL) ETHER | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| BIS(2-CHLOROISOPROPYL) ETHER | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| BIS(2-ETHYLHEXYL) PHTHALATE | SW8270C | μg/kg | 330 | - | < 470 | 990 |
| 4-BROMOPHENYL PHENYL ETHER | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| BENZYL BUTYL PHTHALATE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| CARBAZOLE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| 4-CHLORO-3-METHYLPHENOL | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| 4-CHLOROANILINE | SW8270C | μg/kg | 740 [a] | - | < 1100 | < 1000 |
| 2-CHLORONAPHTHALENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| 2-CHLOROPHENOL | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| 4-CHLOROPHENYL PHENYL ETHER | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| CHRYSENE | SW8270C | μg/kg | 150 | - | < 210 | < 210 |
| DI-N-BUTYL PHTHALATE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| DI-N-OCTYLPHTHALATE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| DIBENZ(A,H)ANTHRACENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| DIBENZOFURAN | SW8270C | μg/kg | 100 [b] | < 140 | < 140 | < 140 |
| 1,2-DICHLOROBENZENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| 1,3-DICHLOROBENZENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| 1,4-DICHLOROBENZENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| 3,3'-DICHLOROBENZIDINE | SW8270C | μg/kg | 450 [a] | - | < 640 | < 630 |
| 2,4-DICHLOROPHENOL | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| DIETHYL PHTHALATE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| DIMETHYL PHTHALATE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| 2,4-DIMETHYLPHENOL | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| 2,6-DIMETHYLPHENOL | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| 3,4-DIMETHYLPHENOL | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| 4,6-DINITRO-2-METHYLPHENOL | SW8270C | μg/kg | 1700 | - | < 2400 | < 2300 |
| 2,4-DINITROPHENOL | SW8270C | μg/kg | 1700 | - | < 2400 | < 2300 |
| 2,4-DINITROTOLUENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| 2,6-DINITROTOLUENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| FLUORANTHENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| FLUORENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| HEXACHLOROBENZENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| HEXACHLOROBUTADIENE | SW8270C | μg/kg | 330 | - | < 470 | < 460 |
| HEXACHLOROCYCLOPENTADIENE | SW8270C | μg/kg | 1700 | - | < 2400 | < 2300 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result HBSFL622-SO-171 02-01509-1 | Waste P1-172 02-01509-2 | Waste P1-173 02-01509-3 |
|---|---|---|---|---|---|---|
| HEXACHLOROETHANE | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| INDENO(1,2,3-C,D)PYRENE | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| ISOPHORONE | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| 2-METHYLNAPHTHALENE | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| 2-METHYLPHENOL (O-CRESOL) | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| 3-METHYLPHENOL | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| 4-METHYLPHENOL | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| NAPHTHALENE | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| 2-NITROANILINE | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| 3-NITROANILINE | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| 4-NITROANILINE | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| NITROBENZENE | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| 2-NITROPHENOL | SW8270C | µg/kg | 660 | - | < 940 | < 930 |
| 4-NITROPHENOL | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| PENTACHLOROPHENOL | SW8270C | µg/kg | 1700 | - | < 2400 | < 2300 |
| PHENANTHRENE | SW8270C | µg/kg | 150 | - | < 210 | < 210 |
| PHENOL | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| PYRENE | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| PENTACHLOROBENZENE | SW8270C | µg/kg | 1700 | - | < 2400 | < 2300 |
| PENTACHLORONITROBENZENE | SW8270C | µg/kg | 1700 | - | < 2400 | < 2300 |
| PYRIDINE | SW8270C | µg/kg | 660 | - | < 940 | < 930 |
| 1,2,4,5-TETRACHLOROBENZENE | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| 2,3,4,6-TETRACHLOROPHENOL | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| 1,2,4-TRICHLOROBENZENE | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| 2,4,5-TRICHLOROPHENOL | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| 2,4,6-TRICHLOROPHENOL | SW8270C | µg/kg | 330 | - | < 470 | < 460 |
| **ORGANOCHLORINE PESTICIDES** | | | | | | |
| Dilution Factor | | | | 1 | 5 | 5 |
| ALDRIN | SW8081A | µg/kg | 2 | - | < 14 | < 14 |
| BETA BHC | SW8081A | µg/kg | 2 | - | < 14 | < 14 |
| ALPHA BHC | SW8081A | µg/kg | 2 | - | < 14 | < 14 |
| DELTA BHC | SW8081A | µg/kg | 2 | - | < 14 | < 14 |
| GAMMA BHC (LINDANE) | SW8081A | µg/kg | 2 | - | < 14 | < 14 |
| ALPHA-CHLORDANE | SW8081A | µg/kg | 2 | - | < 14 | 3J |
| GAMMA-CHLORDANE | SW8081A | µg/kg | 2 | - | < 14 | 4J |
| 4,4'-DDD | SW8081A | µg/kg | 4 | 0.6J | 40 | 58 |
| 4,4'-DDE | SW8081A | µg/kg | 4 | 1J | 40 | 60 |
| 4,4'-DDT | SW8081A | µg/kg | 4 | 2J | 100 | 120 |
| DIELDRIN | SW8081A | µg/kg | 4 | - | < 29 | < 28 |
| ALPHA ENDOSULFAN | SW8081A | µg/kg | 2 | - | < 14 | < 14 |
| BETA ENDOSULFAN | SW8081A | µg/kg | 4 | - | < 29 | < 28 |
| ENDOSULFAN SULFATE | SW8081A | µg/kg | 4 | - | < 29 | < 28 |
| ENDRIN | SW8081A | µg/kg | 4 | - | < 29 | < 28 |
| ENDRIN ALDEHYDE | SW8081A | µg/kg | 4 | - | < 29 | < 28 |
| ENDRIN KETONE | SW8081A | µg/kg | 4 | - | < 29 | < 28 |
| HEPTACHLOR | SW8081A | µg/kg | 2 | - | < 14 | < 14 |
| HEPTACHLOR EPOXIDE | SW8081A | µg/kg | 2 | - | < 14 | < 14 |
| METHOXYCHLOR | SW8081A | µg/kg | 20 | - | < 140 | < 140 |
| TOXAPHENE | SW8081A | µg/kg | 23 [a] | - | < 160 | < 160 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P1-174 02-01509-4 | Waste P2-175 02-01509-5 | Waste P2-176 02-01509-6 |
|---|---|---|---|---|---|---|
| **MOISTURE** | ASTM-D2216 | %Moisture | 0.5 | 35.4 | 42.2 | 26.9 |
| **VOLATILE ORGANICS** | | | | | | |
| Dilution Factor | | | | 1.18 | 1.25 | 1.87 |
| ACETONE | SW8260B | μg/kg | 50 | <91 | <110 | <130 |
| BENZENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| BROMOBENZENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| BROMOCHLOROMETHANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| BROMODICHLOROMETHANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| BROMOFORM | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| BROMOMETHANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 2-BUTANONE | SW8260B | μg/kg | 50 | <91 | <110 | <130 |
| N-BUTYLBENZENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| SEC-BUTYLBENZENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| T-BUTYLBENZENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| CARBON DISULFIDE | SW8260B | μg/kg | 10 | <18 | 6J | <26 |
| CARBON TETRACHLORIDE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| CHLOROBENZENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| DIBROMOCHLOROMETHANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| CHLOROETHANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 2-CHLOROETHYL VINTL ETHER | SW8260B | μg/kg | 20 | <37 | <43 | <51 |
| CHLOROFORM | SW8260B | μg/kg | 5 | <9.1 | 2J | 1J |
| CHLOROMETHANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 2-CHLOROTOLUENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 4-CHLOROTOLUENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 1,2-DIBROMO-3-CHLOROPROPANE | SW8260B | μg/kg | 10 | <18 | <22 | <26 |
| 1,2-DIBROMOETHANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| DIBROMOMETHANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 1,2-DICHLOROBENZENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 1,3-DICHLOROBENZENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 1,4-DICHLOROBENZENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| DICHLORODIFLUOROMETHANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 1,1-DICHLOROETHANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 1,2-DICHLOROETHANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 1,1-DICHLOROETHENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| CIS-1,2-DICHLOROETHENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| TRANS-1,2-DICHLOROETHENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 1,2-DICHLOROPROPANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 1,3-DICHLOROPROPANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 2,2-DICHLOROPROPANE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| 1,1-DICHLOROPROPENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |
| CIS-1,3-DICHLOROPROPENE | SW8260B | μg/kg | 5 | <9.1 | <11 | <13 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P1-174 02-01509-4 | Waste P2-175 02-01509-5 | Waste P2-176 02-01509-6 |
|---|---|---|---|---|---|---|
| TRANS-1,3-DICHLOROPROPENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| ETHYLBENZENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| HEXACHLOROBUTADIENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| 2-HEXANONE | SW8260B | µg/kg | 10 | <18 | <22 | <26 |
| ISOPROPYLBENZENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| P-ISOPROPYLTOLUENE | SW8260B | µg/kg | 5 | <9.1 | <11 | 3J |
| METHYLENE CHLORIDE | SW8260B | µg/kg | 10 | 1J | 2J | 2J |
| 4-METHYL-2-PENTANONE | SW8260B | µg/kg | 10 | <18 | <22 | <26 |
| METHYL TERT-BUTYL ETHER | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| N-PROPYLBENZENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| STYRENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| 1,1,1,2-TETRACHLOROETHANE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| 1,1,2,2-TETRACHLOROETHANE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| TETRACHLOROETHYLENE(PCE) | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| TOLUENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| 1,2,3-TRICHLOROBENZENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| 1,2,4-TRICHLOROBENZENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| 1,1,1-TRICHLOROETHANE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| 1,1,2-TRICHLOROETHANE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| TRICHLOROETHYLENE (TCE) | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| TRICHLOROFLUOROMETHANE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| 1,2,3-TRICHLOROPROPANE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| 1,2,4-TRIMETHYLBENZENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| 1,3,5-TRIMETHYLBENZENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| VINYL ACETATE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| VINYL CHLORIDE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| O-XYLENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| M,P-XYLENE | SW8260B | µg/kg | 5 | <9.1 | <11 | <13 |
| **SEMI-VOC, 64 COMPOUNDS** | | | | | | |
| Dilution Factor | | | | 1 | 1 | 1 |
| ACENAPHTHENE | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| ACENAPHTHYLENE | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| ANTHRACENE | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| BENZO(A)ANTHRACENE | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| BENZO(A)PYRENE | SW8270C | µg/kg | 150 | <230 | <260 | <210 |
| BENZO(B)FLUORANTHENE | SW8270C | µg/kg | 150 | <230 | <260 | <210 |
| BENZO(G,H,I)PERYLENE | SW8270C | µg/kg | 150 | <230 | <260 | <210 |
| BENZO(K)FLUORANTHENE | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| BENZOIC ACID | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| BENZYL ALCOHOL | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| BIS(2-CHLOROETHOXY) METHANE | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| BIS(2-CHLOROETHYL) ETHER (2-CH | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| BIS(2-CHLOROISOPROPYL) ETHER | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| BIS(2-ETHYLHEXYL) PHTHALATE | SW8270C | µg/kg | 330 | <510 | 1,900 | <450 |
| 4-BROMOPHENYL PHENYL ETHER | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| BENZYL BUTYL PHTHALATE | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| CARBAZOLE | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| 4-CHLORO-3-METHYLPHENOL | SW8270C | µg/kg | 330 | <510 | <570 | <450 |
| 4-CHLOROANILINE | SW8270C | µg/kg | 740 [a] | <1100 | <1300 | <1000 |
| 2-CHLORONAPHTHALENE | SW8270C | µg/kg | 330 | <510 | <570 | <450 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P1-174 02-01509-4 | Waste P2-175 02-01509-5 | Waste P2-176 02-01509-6 |
|---|---|---|---|---|---|---|
| 2-CHLOROPHENOL | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 4-CHLOROPHENYL PHENYL ETHER | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| CHRYSENE | SW8270C | μg/kg | 150 | < 230 | < 260 | < 210 |
| DI-N-BUTYL PHTHALATE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| DI-N-OCTYLPHTHALATE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| DIBENZ(A,H)ANTHRACENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| DIBENZOFURAN | SW8270C | μg/kg | 100 | < 150 | < 170 | < 140 |
| 1,2-DICHLOROBENZENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 1,3-DICHLOROBENZENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 1,4-DICHLOROBENZENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 3,3'-DICHLOROBENZIDINE | SW8270C | μg/kg | 450 [a] | < 700 | < 780 | < 620 |
| 2,4-DICHLOROPHENOL | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| DIETHYL PHTHALATE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| DIMETHYL PHTHALATE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 2,4-DIMETHYLPHENOL | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 2,6-DIMETHYLPHENOL | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 3,4-DIMETHYLPHENOL | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 4,6-DINITRO-2-METHYLPHENOL | SW8270C | μg/kg | 1700 | < 2600 | < 2900 | < 2300 |
| 2,4-DINITROPHENOL | SW8270C | μg/kg | 1700 | < 2600 | < 2900 | < 2300 |
| 2,4-DINITROTOLUENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 2,6-DINITROTOLUENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| FLUORANTHENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| FLUORENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| HEXACHLOROBENZENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| HEXACHLOROBUTADIENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| HEXACHLOROCYCLOPENTADIENE | SW8270C | μg/kg | 1700 | < 2600 | < 2900 | < 2300 |
| HEXACHLOROETHANE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| INDENO(1,2,3-C,D)PYRENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| ISOPHORONE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 2-METHYLNAPHTHALENE | SW8270C | μg/kg | 330 | 170J | 744 | < 450 |
| 2-METHYLPHENOL (O-CRESOL) | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 3-METHYLPHENOL | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 4-METHYLPHENOL | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| NAPHTHALENE | SW8270C | μg/kg | 330 | < 510 | 98J | < 450 |
| 2-NITROANILINE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 3-NITROANILINE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 4-NITROANILINE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| NITROBENZENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 2-NITROPHENOL | SW8270C | μg/kg | 660 | < 1000 | < 1100 | < 900 |
| 4-NITROPHENOL | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| PENTACHLOROPHENOL | SW8270C | μg/kg | 1700 | < 2600 | < 2900 | < 2300 |
| PHENANTHRENE | SW8270C | μg/kg | 150 | 110J | 150J | < 210 |
| PHENOL | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| PYRENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| PENTACHLOROBENZENE | SW8270C | μg/kg | 1700 | < 2600 | < 2900 | < 2300 |
| PENTACHLORONITROBENZENE | SW8270C | μg/kg | 1700 | < 2600 | < 2900 | < 2300 |
| PYRIDINE | SW8270C | μg/kg | 660 | < 1000 | < 1100 | < 900 |
| 1,2,4,5-TETRACHLOROBENZENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 2,3,4,6-TETRACHLOROPHENOL | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 1,2,4-TRICHLOROBENZENE | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 2,4,5-TRICHLOROPHENOL | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |
| 2,4,6-TRICHLOROPHENOL | SW8270C | μg/kg | 330 | < 510 | < 570 | < 450 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P1-174 02-01509-4 | Waste P2-175 02-01509-5 | Waste P2-176 02-01509-6 |
|---|---|---|---|---|---|---|
| **ORGANOCHLORINE PESTICIDES** | | | | | | |
| Dilution Factor | | | | 1 | 1 | 1 |
| ALDRIN | SW8081A | µg/kg | 2 | <3.1 | <3.5 | <2.7 |
| BETA BHC | SW8081A | µg/kg | 2 | <3.1 | <3.5 | <2.7 |
| ALPHA BHC | SW8081A | µg/kg | 2 | <3.1 | <3.5 | <2.7 |
| DELTA BHC | SW8081A | µg/kg | 2 | <3.1 | <3.5 | <2.7 |
| GAMMA BHC (LINDANE) | SW8081A | µg/kg | 2 | <3.1 | <3.5 | <2.7 |
| ALPHA-CHLORDANE | SW8081A | µg/kg | 2 | 3J | <3.5 | 2J |
| GAMMA-CHLORDANE | SW8081A | µg/kg | 2 | 2J | <3.5 | 2J |
| 4,4'-DDD | SW8081A | µg/kg | 4 | 72 | 1,860 [c] | 98 |
| 4,4'-DDE | SW8081A | µg/kg | 4 | 6 | 14 | 10 |
| 4,4'-DDT | SW8081A | µg/kg | 4 | 18 | 33 | 19 |
| DIELDRIN | SW8081A | µg/kg | 4 | <6.2 | <6.9 | <5.5 |
| ALPHA ENDOSULFAN | SW8081A | µg/kg | 2 | <3.1 | <3.5 | <2.7 |
| BETA ENDOSULFAN | SW8081A | µg/kg | 4 | <6.2 | <6.9 | <5.5 |
| ENDOSULFAN SULFATE | SW8081A | µg/kg | 4 | <6.2 | <6.9 | <5.5 |
| ENDRIN | SW8081A | µg/kg | 4 | <6.2 | <6.9 | <5.5 |
| ENDRIN ALDEHYDE | SW8081A | µg/kg | 4 | <6.2 | <6.9 | <5.5 |
| ENDRIN KETONE | SW8081A | µg/kg | 4 | <6.2 | <6.9 | <5.5 |
| HEPTACHLOR | SW8081A | µg/kg | 2 | <3.1 | <3.5 | <2.7 |
| HEPTACHLOR EPOXIDE | SW8081A | µg/kg | 2 | <3.1 | <3.5 | <2.7 |
| METHOXYCHLOR | SW8081A | µg/kg | 20 | <31 | <35 | <27 |
| TOXAPHENE | SW8081A | µg/kg | 23 [a] | <36 | <40 | <31 |

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P3-177 02-01509-7 | Waste PD1-178 02-01509-8 | Waste PD2-179 02-01509-9 |
|---|---|---|---|---|---|---|
| **MOISTURE** | ASTM-D2216 | %Moisture | 0.5 | 23.7 | 30.8 | 28.3 |
| **VOLATILE ORGANICS** | | | | | | |
| Dilution Factor | | | | 1.01 | 1.15 | 0.99 |
| ACETONE | SW8260B | µg/kg | 50 | <66 | <83 | <69 |
| BENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| BROMOBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| BROMOCHLOROMETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| BROMODICHLOROMETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| BROMOFORM | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| BROMOMETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 2-BUTANONE | SW8260B | µg/kg | 50 | <66 | <83 | <69 |
| N-BUTYLBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| SEC-BUTYLBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| T-BUTYLBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| CARBON DISULFIDE | SW8260B | µg/kg | 10 | <13 | <17 | <14 |
| CARBON TETRACHLORIDE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| CHLOROBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| DIBROMOCHLOROMETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| CHLOROETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 2-CHLOROETHYL VINTL ETHER | SW8260B | µg/kg | 20 | <26 | <33 | <28 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P3-177 02-01509-7 | Waste PD1-178 02-01509-8 | Waste PD2-179 02-01509-9 |
|---|---|---|---|---|---|---|
| CHLOROFORM | SW8260B | µg/kg | 5 | 0.9J | 1J | 1J |
| CHLOROMETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 2-CHLOROTOLUENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 4-CHLOROTOLUENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,2-DIBROMO-3-CHLOROPROPANE | SW8260B | µg/kg | 10 | <13 | <17 | <14 |
| 1,2-DIBROMOETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| DIBROMOMETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,2-DICHLOROBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,3-DICHLOROBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,4-DICHLOROBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| DICHLORODIFLUOROMETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,1-DICHLOROETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,2-DICHLOROETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,1-DICHLOROETHENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| CIS-1,2-DICHLOROETHENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| TRANS-1,2-DICHLOROETHENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,2-DICHLOROPROPANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,3-DICHLOROPROPANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 2,2-DICHLOROPROPANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,1-DICHLOROPROPENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| CIS-1,3-DICHLOROPROPENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| TRANS-1,3-DICHLOROPROPENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| ETHYLBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| HEXACHLOROBUTADIENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 2-HEXANONE | SW8260B | µg/kg | 10 | <13 | <17 | <14 |
| ISOPROPYLBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| P-ISOPROPYLTOLUENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| METHYLENE CHLORIDE | SW8260B | µg/kg | 10 | 0.9J | 1J | 0.8J |
| 4-METHYL-2-PENTANONE | SW8260B | µg/kg | 10 | <13 | <17 | <14 |
| METHYL TERT-BUTYL ETHER | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| N-PROPYLBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| STYRENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,1,1,2-TETRACHLOROETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,1,2,2-TETRACHLOROETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| TETRACHLOROETHYLENE(PCE) | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| TOLUENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,2,3-TRICHLOROBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,2,4-TRICHLOROBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,1,1-TRICHLOROETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,1,2-TRICHLOROETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| TRICHLOROETHYLENE (TCE) | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| TRICHLOROFLUOROMETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,2,3-TRICHLOROPROPANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,2,4-TRIMETHYLBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,3,5-TRIMETHYLBENZENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| VINYL ACETATE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| VINYL CHLORIDE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| O-XYLENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |
| M,P-XYLENE | SW8260B | µg/kg | 5 | <6.6 | <8.3 | <6.9 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P3-177 02-01509-7 | Waste PD1-178 02-01509-8 | Waste PD2-179 02-01509-9 |
|---|---|---|---|---|---|---|
| SEMI-VOC, 64 COMPOUNDS | | | | | | |
| Dilution Factor | | | | 1 | 1 | 1 |
| ACENAPHTHENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| ACENAPHTHYLENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| ANTHRACENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| BENZO(A)ANTHRACENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| BENZO(A)PYRENE | SW8270C | µg/kg | 150 | < 200 | - | - |
| BENZO(B)FLUORANTHENE | SW8270C | µg/kg | 150 | < 200 | - | - |
| BENZO(G,H,I)PERYLENE | SW8270C | µg/kg | 150 | < 200 | - | - |
| BENZO(K)FLUORANTHENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| BENZOIC ACID | SW8270C | µg/kg | 330 | < 430 | - | - |
| BENZYL ALCOHOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| BIS(2-CHLOROETHOXY) METHANE | SW8270C | µg/kg | 330 | < 430 | - | - |
| BIS(2-CHLOROETHYL) ETHER | SW8270C | µg/kg | 330 | < 430 | - | - |
| BIS(2-CHLOROISOPROPYL) ETHER | SW8270C | µg/kg | 330 | < 430 | - | - |
| BIS(2-ETHYLHEXYL) PHTHALATE | SW8270C | µg/kg | 330 | 980 | - | - |
| 4-BROMOPHENYL PHENYL ETHER | SW8270C | µg/kg | 330 | < 430 | - | - |
| BENZYL BUTYL PHTHALATE | SW8270C | µg/kg | 330 | < 430 | - | - |
| CARBAZOLE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 4-CHLORO-3-METHYLPHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| 4-CHLOROANILINE | SW8270C | µg/kg | 740 [a] | < 970 | - | - |
| 2-CHLORONAPHTHALENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 2-CHLOROPHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| 4-CHLOROPHENYL PHENYL ETHER | SW8270C | µg/kg | 330 | < 430 | - | - |
| CHRYSENE | SW8270C | µg/kg | 150 | < 200 | - | - |
| DI-N-BUTYL PHTHALATE | SW8270C | µg/kg | 330 | < 430 | - | - |
| DI-N-OCTYLPHTHALATE | SW8270C | µg/kg | 330 | < 430 | - | - |
| DIBENZ(A,H)ANTHRACENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| DIBENZOFURAN | SW8270C | µg/kg | 100 | < 130 | - | - |
| 1,2-DICHLOROBENZENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 1,3-DICHLOROBENZENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 1,4-DICHLOROBENZENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 3,3'-DICHLOROBENZIDINE | SW8270C | µg/kg | 450 [a] | < 590 | - | - |
| 2,4-DICHLOROPHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| DIETHYL PHTHALATE | SW8270C | µg/kg | 330 | < 430 | - | - |
| DIMETHYL PHTHALATE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 2,4-DIMETHYLPHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| 2,6-DIMETHYLPHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| 3,4-DIMETHYLPHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| 4,6-DINITRO-2-METHYLPHENOL | SW8270C | µg/kg | 1700 | < 2200 | - | - |
| 2,4-DINITROPHENOL | SW8270C | µg/kg | 1700 | < 2200 | - | - |
| 2,4-DINITROTOLUENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 2,6-DINITROTOLUENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| FLUORANTHENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| FLUORENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| HEXACHLOROBENZENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| HEXACHLOROBUTADIENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| HEXACHLOROCYCLOPENTADIENE | SW8270C | µg/kg | 1700 | < 2200 | - | - |

Applied P & Ch Laboratory
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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P3-177 02-01509-7 | Waste PD1-178 02-01509-8 | Waste PD2-179 02-01509-9 |
|---|---|---|---|---|---|---|
| HEXACHLOROETHANE | SW8270C | µg/kg | 330 | < 430 | - | - |
| INDENO(1,2,3-C,D)PYRENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| ISOPHORONE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 2-METHYLNAPHTHALENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 2-METHYLPHENOL (O-CRESOL) | SW8270C | µg/kg | 330 | < 430 | - | - |
| 3-METHYLPHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| 4-METHYLPHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| NAPHTHALENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 2-NITROANILINE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 3-NITROANILINE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 4-NITROANILINE | SW8270C | µg/kg | 330 | < 430 | - | - |
| NITROBENZENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 2-NITROPHENOL | SW8270C | µg/kg | 660 | < 870 | - | - |
| 4-NITROPHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| PENTACHLOROPHENOL | SW8270C | µg/kg | 1700 | < 2200 | - | - |
| PHENANTHRENE | SW8270C | µg/kg | 150 | < 200 | - | - |
| PHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| PYRENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| PENTACHLOROBENZENE | SW8270C | µg/kg | 1700 | < 2200 | - | - |
| PENTACHLORONITROBENZENE | SW8270C | µg/kg | 1700 | < 2200 | - | - |
| PYRIDINE | SW8270C | µg/kg | 660 | < 870 | - | - |
| 1,2,4,5-TETRACHLOROBENZENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 2,3,4,6-TETRACHLOROPHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| 1,2,4-TRICHLOROBENZENE | SW8270C | µg/kg | 330 | < 430 | - | - |
| 2,4,5-TRICHLOROPHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| 2,4,6-TRICHLOROPHENOL | SW8270C | µg/kg | 330 | < 430 | - | - |
| **ORGANOCHLORINE PESTICIDES** | | | | | | |
| Dilution Factor | | | | 5 | 1 | 1 |
| ALDRIN | SW8081A | µg/kg | 2 | < 13 | - | - |
| BETA BHC | SW8081A | µg/kg | 2 | < 13 | - | - |
| ALPHA BHC | SW8081A | µg/kg | 2 | < 13 | - | - |
| DELTA BHC | SW8081A | µg/kg | 2 | < 13 | - | - |
| GAMMA BHC (LINDANE) | SW8081A | µg/kg | 2 | < 13 | - | - |
| ALPHA-CHLORDANE | SW8081A | µg/kg | 2 | 1J | - | - |
| GAMMA-CHLORDANE | SW8081A | µg/kg | 2 | < 13 | - | - |
| 4,4'-DDD | SW8081A | µg/kg | 4 | 91 | - | - |
| 4,4'-DDE | SW8081A | µg/kg | 4 | 16J | - | - |
| 4,4'-DDT | SW8081A | µg/kg | 4 | 40 | - | - |
| DIELDRIN | SW8081A | µg/kg | 4 | < 26 | - | - |
| ALPHA ENDOSULFAN | SW8081A | µg/kg | 2 | < 13 | - | - |
| BETA ENDOSULFAN | SW8081A | µg/kg | 4 | < 26 | - | - |
| ENDOSULFAN SULFATE | SW8081A | µg/kg | 4 | < 26 | - | - |
| ENDRIN | SW8081A | µg/kg | 4 | < 26 | - | - |
| ENDRIN ALDEHYDE | SW8081A | µg/kg | 4 | < 26 | - | - |
| ENDRIN KETONE | SW8081A | µg/kg | 4 | < 26 | - | - |
| HEPTACHLOR | SW8081A | µg/kg | 2 | < 13 | - | - |
| HEPTACHLOR EPOXIDE | SW8081A | µg/kg | 2 | < 13 | - | - |
| METHOXYCHLOR | SW8081A | µg/kg | 20 | < 130 | - | - |
| TOXAPHENE | SW8081A | µg/kg | 23 [a] | < 150 | - | - |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P1-172 02-01509-2 | Waste P1-173 02-01509-3 | Waste P1-174 02-01509-4 |
|---|---|---|---|---|---|---|
| **CORROSIVITY (PH)** | 9045C | pH unit | 0.01 | 6.43 | 6.52 | 7.22 |
| **IGNITABILITY (FLASHPOINT)** | 1010 | °C | 0.5 [d] | >100 | >100 | >100 |
| **REACTIVITY: CYANIDE** | SW§7.3.3 | mg/kg | 250 | <250 | <250 | <250 |
| **REACTIVITY: SULFIDE** | SW§7.3.4 | mg/kg | 500 | <500 | <500 | <500 |
| METALS | | | | | | |
| Dilution Factor | | | | 4 | 4 | 4 |
| ALUMINUM | SW6010B | mg/kg | 5 | 28,800 | 30,600 | 29,000 |
| ANTIMONY | SW6010B | mg/kg | 5 | 3.5J | 3.7J | 3.0J |
| ARSENIC | SW6010B | mg/kg | 0.25 | 10.8 | 11.0 | 9.3 |
| BARIUM | SW6010B | mg/kg | 1 | 54.5 | 61.9 | 59.4 |
| BERYLLIUM | SW6010B | mg/kg | 0.5 | 0.32J | 0.31J | 0.19J |
| CADMIUM | SW6010B | mg/kg | 0.3 | 0.21J | 0.39J | 0.26J |
| CALCIUM | SW6010B | mg/kg | 20 | 3,180 | 4,580 | 5,230 |
| CHROMIUM | SW6010B | mg/kg | 1 | 97.9 | 99.0 | 92.6 |
| COBALT | SW6010B | mg/kg | 1 | 25.5 | 21.6 | 19.0 |
| COPPER | SW6010B | mg/kg | 1 | 42.0 | 42.8 | 37.2 |
| IRON | SW6010B | mg/kg | 5 | 44,100 | 45,300 | 42,000 |
| LEAD | SW6010B | mg/kg | 1 | 19.5 | 24.7 | 17.0 |
| MAGNESIUM | SW6010B | mg/kg | 20 | 11,800 | 11,700 | 12,100 |
| MANGANESE | SW6010B | mg/kg | 1 | 764 | 609 | 523 |
| Dilution Factor | | | | 1 | 1 | 1 |
| MERCURY | SW7471A | mg/kg | 0.1 | 0.18 | 0.17 | 0.11J |
| Dilution Factor | | | | 4 | 4 | 4 |
| MOLYBDENUM | SW6010B | mg/kg | 0.2 | <1.1 | <1.1 | <1.2 |
| NICKEL | SW6010B | mg/kg | 2 | 90.4 | 95.5 | 88.9 |
| POTASSIUM | SW6010B | mg/kg | 20 | 3,240 | 3,740 | 3,470 |
| SELENIUM | SW6010B | mg/kg | 1 | <5.7 | <5.6 | <6.2 |
| SILVER | SW6010B | mg/kg | 1 | <5.7 | <5.6 | <6.2 |
| SODIUM | SW6010B | mg/kg | 100 | 1,130 | 305J | 2,980 |
| THALLIUM | SW6010B | mg/kg | 1 | <5.7 | <5.6 | <6.2 |
| TITANIUM | SW6010B | mg/kg | 1 | 378 | 464 | 476 |
| VANADIUM | SW6010B | mg/kg | 1 | 81.5 | 84.0 | 77.4 |
| ZINC | SW6010B | mg/kg | 1 | 92.0 | 103 | 92.5 |
| Dilution Factor | | | | 1.06 | 1.07 | 1.08 |
| **PHC AS GASOLINE** | SW8015B | mg/kg | 1 | <1.5 | <1.5 | 0.05J |
| Dilution Factor | | | | 1 | 1 | 1 |
| **PHC AS DIESEL FUEL** | SW8015B | mg/kg | 2.3 [a] | 17 | 16 | 136 |
| Dilution Factor | | | | 1 | 1 | 1 |
| **MOTOR OILS** | SW8015B | mg/kg | 2.7 [a] | 111 [e] | 55 [e] | 77 |
| PCBS | | | | | | |
| Dilution Factor | | | | 1 | 1 | 1 |
| PCB-1016 (AROCLOR 1016) | SW8082 | μg/kg | 100 | <140 | <140 | <150 |
| PCB-1221 (AROCLOR 1221) | SW8082 | μg/kg | 100 | <140 | <140 | <150 |
| PCB-1232 (AROCLOR 1232) | SW8082 | μg/kg | 100 | <140 | <140 | <150 |
| PCB-1242 (AROCLOR 1242) | SW8082 | μg/kg | 100 | <140 | <140 | <150 |
| PCB-1248 (AROCLOR 1248) | SW8082 | μg/kg | 100 | <140 | <140 | <150 |
| PCB-1254 (AROCLOR 1254) | SW8082 | μg/kg | 50 | <71 | <70 | <77 |
| PCB-1260 (AROCLOR 1260) | SW8082 | μg/kg | 50 | 38J | 92 | <77 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P2-175 02-01509-5 | Waste P2-176 02-01509-6 | Waste P3-177 02-01509-7 |
|---|---|---|---|---|---|---|
| **CORROSIVITY (PH)** | 9045C | pH unit | 0.01 | 7.01 | 6.31 | 6.44 |
| **IGNITABILITY (FLASHPOINT)** | 1010 | °C | 0.5 [d] | >100 | >100 | >100 |
| **REACTIVITY: CYANIDE** | SW§7.3.3 | mg/kg | 250 | <250 | <250 | <250 |
| **REACTIVITY: SULFIDE** | SW§7.3.4 | mg/kg | 500 | <500 | <500 | <500 |
| **METALS** | | | | | | |
| Dilution Factor | | | | 4 | 4 | 4 |
| ALUMINUM | SW6010B | mg/kg | 5 | 28,900 | 24,300 | 26,800 |
| ANTIMONY | SW6010B | mg/kg | 5 | 3.2J | 3.2J | 3.2J |
| ARSENIC | SW6010B | mg/kg | 0.25 | 8.5 | 8.6 | 10.1 |
| BARIUM | SW6010B | mg/kg | 1 | 57.9 | 60.7 | 60.7 |
| BERYLLIUM | SW6010B | mg/kg | 0.5 | 0.10J | 0.078J | 0.19J |
| CADMIUM | SW6010B | mg/kg | 0.3 | 0.25J | 0.24J | 0.26J |
| CALCIUM | SW6010B | mg/kg | 20 | 5,540 | 4,550 | 3,640 |
| CHROMIUM | SW6010B | mg/kg | 1 | 98.6 | 79.8 | 87.6 |
| COBALT | SW6010B | mg/kg | 1 | 20.7 | 17.0 | 17.5 |
| COPPER | SW6010B | mg/kg | 1 | 40.7 | 30.3 | 37.8 |
| IRON | SW6010B | mg/kg | 5 | 43,600 | 36,900 | 39,100 |
| LEAD | SW6010B | mg/kg | 1 | 32.3 | 23.8 | 18.4 |
| MAGNESIUM | SW6010B | mg/kg | 20 | 13,700 | 10,700 | 10,300 |
| MANGANESE | SW6010B | mg/kg | 1 | 509 | 488 | 441 |
| Dilution Factor | | | | 1 | 1 | 1 |
| MERCURY | SW7471A | mg/kg | 0.1 | 0.057J | 0.091J | 0.13J |
| Dilution Factor | | | | 4 | 4 | 4 |
| MOLYBDENUM | SW6010B | mg/kg | 0.2 | <1.4 | <1.1 | <1.0 |
| NICKEL | SW6010B | mg/kg | 2 | 94.0 | 75.5 | 77.2 |
| POTASSIUM | SW6010B | mg/kg | 20 | 3,720 | 3,010 | 3,020 |
| SELENIUM | SW6010B | mg/kg | 1 | <6.9 | <5.5 | <5.2 |
| SILVER | SW6010B | mg/kg | 1 | <6.9 | <5.5 | <5.2 |
| SODIUM | SW6010B | mg/kg | 100 | 4,100 | 2,900 | 2,040 |
| THALLIUM | SW6010B | mg/kg | 1 | <6.9 | <5.5 | <5.2 |
| TITANIUM | SW6010B | mg/kg | 1 | 575 | 475 | 439 |
| VANADIUM | SW6010B | mg/kg | 1 | 82.0 | 66.6 | 76.0 |
| ZINC | SW6010B | mg/kg | 1 | 94.1 | 76.6 | 91.3 |
| Dilution Factor | | | | 1.31 | 1.34 | 1 |
| **PHC AS GASOLINE** | SW8015B | mg/kg | 1 | 0.08J | <1.8 | <1.3 |
| Dilution Factor | | | | 1 | 1 | 1 |
| **PHC AS DIESEL FUEL** | SW8015B | mg/kg | 2.3 [a] | 221 | 88 | 82 |
| Dilution Factor | | | | 1 | 1 | 1 |
| **MOTOR OILS** | SW8015B | mg/kg | 2.7 [a] | 198 | 154 | 98 |
| **PCBS** | | | | | | |
| Dilution Factor | | | | 1 | 1 | 1 |
| PCB-1016 (AROCLOR 1016) | SW8082 | μg/kg | 100 | <170 | <140 | <130 |
| PCB-1221 (AROCLOR 1221) | SW8082 | μg/kg | 100 | <170 | <140 | <130 |
| PCB-1232 (AROCLOR 1232) | SW8082 | μg/kg | 100 | <170 | <140 | <130 |
| PCB-1242 (AROCLOR 1242) | SW8082 | μg/kg | 100 | <170 | <140 | <130 |
| PCB-1248 (AROCLOR 1248) | SW8082 | μg/kg | 100 | <170 | <140 | <130 |
| PCB-1254 (AROCLOR 1254) | SW8082 | μg/kg | 50 | <86 | <68 | <66 |
| PCB-1260 (AROCLOR 1260) | SW8082 | μg/kg | 50 | <86 | 30J | 11J |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | MDL | Analysis Result HBSFL622-SO-171 02-01509-1 |
|---|---|---|---|---|---|
| Dilution Factor | | | | | 4 |
| **ARSENIC** | SW6010B | mg/kg | 0.25 | 0.13 | 9.1 |
| **BERYLLIUM** | SW6010B | mg/kg | 0.5 | 0.005 | 0.46J |
| **CADMIUM** | SW6010B | mg/kg | 0.3 | 0.009 | 0.18J |
| **COBALT** | SW6010B | mg/kg | 1 | 0.022 | 17.7 |
| **LEAD** | SW6010B | mg/kg | 1 | 0.060 | 12.4 |
| **MANGANESE** | SW6010B | mg/kg | 1 | 0.023 | 343 |
| **NICKEL** | SW6010B | mg/kg | 2 | 0.053 | 108 |
| **ZINC** | SW6010B | mg/kg | 1 | 0.33 | 105 |
| **PAH (NOAA)** | | | | | |
| Dilution Factor | | | | | 1 |
| ACENAPHTHENE | PAH-SIM | μg/kg | 17 | 12.9 | < 24 |
| ACENAPHTHYLENE | PAH-SIM | μg/kg | 17 | 13.4 | < 24 |
| ANTHRACENE | PAH-SIM | μg/kg | 17 | 13.1 | < 24 |
| BENZO(A)ANTHRACENE | PAH-SIM | μg/kg | 17 | 15 | < 24 |
| BENZO(A)PYRENE | PAH-SIM | μg/kg | 17 | 11.8 | < 24 |
| BENZO(B)FLUORANTHENE | PAH-SIM | μg/kg | 17 | 12.9 | 47 |
| BENZO(G,H,I)PERYLENE | PAH-SIM | μg/kg | 17 | 8.1 | < 24 |
| BENZO(K)FLUORANTHENE | PAH-SIM | μg/kg | 17 | 15.6 | < 24 |
| CHRYSENE | PAH-SIM | μg/kg | 17 | 12.8 | 33 |
| DIBENZ(A,H)ANTHRACENE | PAH-SIM | μg/kg | 17 | 8.5 | < 24 |
| FLUORANTHENE | PAH-SIM | μg/kg | 17 | 14.5 | < 24 |
| FLUORENE | PAH-SIM | μg/kg | 17 | 8.9 | < 24 |
| INDENO(1,2,3-C,D)PYRENE | PAH-SIM | μg/kg | 17 | 8.5 | 13J |
| 2-METHYLNAPHTHALENE | PAH-SIM | μg/kg | 17 | 11.1 | < 24 |
| NAPHTHALENE | PAH-SIM | μg/kg | 17 | 13 | < 24 |
| PHENANTHRENE | PAH-SIM | μg/kg | 17 | 12.0 | < 24 |
| PYRENE | PAH-SIM | μg/kg | 17 | 11.4 | < 24 |

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0
(a) MDL reported.
(b) Analyzed on an instrument with MDL=38 μg/kg for this compound.
(c) Analyzed wit a dilution factor of 20.
(d) Corresponds to the minimum reading of the thermometer used.
(e) Mixture in Motor Oil range.

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

the group

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 560145
Page 1 of 2

Project Name/No. 1 83M71-HAAF
Sample Team Members 2 Scott Elkind/Joe Struck
Profit Center No. 3
Project Manager 4 Nora Okuso
Purchase Order No. 6
Required Report Date 11

Samples Shipment Date 7 2/5/02
Lab Destination 8 APCL
Lab Contact 9 Hsin-Yi Lee
Project Contact/Phone 12 Vicky Taylor (925) 288-2350
Carrier/Waybill No. 13 8291 9579 1036 FEDEX

Bill to: 5 IT Corporation Concord, CA
Report to: 10 Vicky Taylor

ONE CONTAINER PER LINE

| Sample Number 14 | Sample Description/Type 15 | Date/Time Collected 16 | Container Type 17 | Sample Volume 18 | Pre-servative 19 | Requested Testing Program 20 | Condition on Receipt 21 | Disposal Record No. 22 |
|---|---|---|---|---|---|---|---|---|
| Waste P1-172 | Soil | 2/5/02 1035 | 2x Glass 4x Encore | 2x 9oz 4x Encore | Ice | VOCs, TPH-g, TPH-d, mo SVOCs, metals, Pest, PCBs, RCI | | |
| Waste P1-173 | Soil | 2/5/02 1050 | 4x Glass 8x Encore | 4x 9oz 8x Encore | | | | |
| Waste P1-174 | Soil | 2/5/02 1110 | 2x Glass 4x Encore | 2x 9oz 4x Encore | | | Good Condition | |
| Waste P2-175 | Soil | 2/5/02 1200 | | | | | Temp 3.6°C | |
| Waste P2-176 | Soil | 2/5/02 1205 | | | | | | |
| Waste ~~P1~~ P3-177 | | 2/5/02 12 | | | | | | |
| Waste P2-178 | | 2/5/02 1300 | 3x Encore | 3x Encore | Ice | VOCs | | |
| Waste P2-179 | | 2/5/02 1305 | 3x Encore | 3x Encore | Ice | VOCs | | |

FOR LAB USE ONLY

FOR LAB USE ONLY

1509
1697

QC 2/21/02

Special Instructions: 23 * For sample 171, see attached sheet for specific analytes

Possible Hazard Identification: 24
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: 25
Return to Client ☐ Disposal by Lab ☐ Archive _____ (mos.)

Turnaround Time Required: 26
Normal ☐ Rush ☒ 5 day TAT

QC Level: 27
I. ☐ II. ☐ III. ☐ Project Specific (specify):

| | | | |
|---|---|---|---|
| 1. Relinquished by 28 (Signature/Affiliation) [signature] IT | Date: 2/5/02 Time: 1400 | 1. Received by 28 (Signature/Affiliation) [signature] | Date: 2/6/2 Time: 1130 |
| 2. Relinquished by (Signature/Affiliation) | Date: Time: | 2. Received by (Signature/Affiliation) | Date: Time: |
| 3. Relinquished by (Signature/Affiliation) | Date: Time: | 3. Received by (Signature/Affiliation) | Date: Time: |

Comments: 29

White: To accompany samples Yellow: Field copy

*See back of form for special instructions.

MCA 5/15/01

Applied P & Ch Laboratory
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# APCL Analytical Report

Submitted to:
The IT Group
Attention: Vicky Taylor
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)827-5927

Service ID #: 801-021999 Received: 03/14/02
Collected by: Scott Elkind/Joe Strack Extracted: 03/14/02
Collected on: 03/12/02 Tested: 03/14-15/02
Reported: 03/21/02

Sample Description: Soil
Project Description: 831471 Hamilton AFB

## Analysis of Soil Samples

| Component Analyzed | Method | Unit | PQL | Analysis Result WasteP2-1-206 02-01999-1 | WasteP2-2-207 02-01999-2 | WasteP2-3-208 02-01999-3 | WasteP2-4-209 02-01999-4 |
|---|---|---|---|---|---|---|---|
| **MOISTURE** | ASTM-D2216 | %Moisture | 0.5 | 26.8 | 30.3 | 35.1 | 37.3 |
| **ORGANOCHLORINE PESTICIDES** | | | | | | | |
| Dilution Factor | | | | 1 | 1 | 1 | 1 |
| 4,4'-DDD | SW8081A | $\mu$g/kg | 4 | 223 [a] | 9 | 22 | 9 |
| 4,4'-DDE | SW8081A | $\mu$g/kg | 4 | 5J | 1J | 3J | 2J |
| 4,4'-DDT | SW8081A | $\mu$g/kg | 4 | 2J | 6 | 6J | 2J |

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0
[a] Analyzed with a dilution factor of 5.

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

the Igroup

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 560152
Page 1 of 1

Project Name/No. 1 HAAF/831471
Sample Team Members 2 Scott Elkind / Joe Strack
Profit Center No. 3
Project Manager 4 Nora Okusu
Purchase Order No. 6
Required Report Date 11

Samples Shipment Date 7 3/13/02
Lab Destination 8 APCL
Lab Contact 9 Hsin-Yi Lee
Project Contact/Phone 12 Vicky Taylor (925) 288-2550
Carrier/Waybill No. 13 2567760565 Airborne

Bill to: 5 IT Corporation Concord, CA
Report to: 10 Vicky Taylor

**ONE CONTAINER PER LINE**

| Sample Number 14 | Sample Description/Type 15 | Date/Time Collected 16 | Container Type 17 | Sample Volume 18 | Preservative 19 | Requested Testing Program 20 | Condition on Receipt 21 | Disposal Record No. 22 |
|---|---|---|---|---|---|---|---|---|
| Waste P2-1-206 | Soil SE | 3/12/02 1025 | 9 oz Glass | 1x 9oz | Ice | DDD, DDE, DDT (8081A) | | |
| Waste P2-2-207 | NE | 3/12/02 1030 | | | | | Good condition | |
| Waste P2-3-208 | SW | 3/12/02 1035 | | | | | | |
| Waste P2-4-209 | NW | 3/12/02 1040 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | 3/13/02 | | | | | | |
| | | | | | | | | |

FOR LAB USE ONLY

1999

FOR LAB USE ONLY

Special Instructions: 23

Possible Hazard Identification: 24
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: 25
Return to Client ☐ Disposal by Lab ☐ Archive _____ (mos.)

Turnaround Time Required: 26
Normal ☒ Rush ☐

QC Level: 27
I. ☐ II. ☐ III. ☐ Project Specific (specify): _____

| | | | |
|---|---|---|---|
| 1. Relinquished by 28 (Signature/Affiliation) IT | Date: 3/13/02 Time: 1200 | 1. Received by 28 (Signature/Affiliation) | Date: 3/14/2 Time: 1030 |
| 2. Relinquished by (Signature/Affiliation) | Date: Time: | 2. Received by (Signature/Affiliation) | Date: Time: |
| 3. Relinquished by (Signature/Affiliation) | Date: Time: | 3. Received by (Signature/Affiliation) | Date: Time: |

Comments: 29

White: To accompany samples
Yellow: Field copy
*See back of form for special instructions.

MCA 3/15/91

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

# APCL Analytical Report

Submitted to:
Shaw E & I
Attention: Vicki Taylor
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)827-5927

Service ID #: 801-024760
Collected by: J. Strack/M. Reed
Collected on: 09/05/02

Received: 09/07/02
Extracted: 09/06-11/02
Tested: 09/09-12/02
Reported: 09/12/02

Sample Description: Soil
Project Description: 831471 Hamilton

## Analysis of Soil Samples

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P1SUPP-216 02-04760-1 | Waste P1SUPP-217 02-04760-2 | Waste P3SUPP-218 02-04760-3 |
|---|---|---|---|---|---|---|
| **MOISTURE** | ASTM-D2216 | %Moisture | 0.5 | - | - | 4.9 |

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P3SUPP-219 02-04760-4 | Waste P4SUPP-220 02-04760-5 |
|---|---|---|---|---|---|
| **MOISTURE** | ASTM-D2216 | %Moisture | 0.5 | 9.3 | 20.5 |

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P4SUPP-221 02-04760-6 | Waste P5SUPP-222 02-04760-7 |
|---|---|---|---|---|---|
| **MOISTURE** | ASTM-D2216 | %Moisture | 0.5 | 20.4 | 8.2 |

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P3SUPP-218 02-04760-3 | Waste P3SUPP-219 02-04760-4 |
|---|---|---|---|---|---|
| **PH** | 9040B | pH unit | 0.01 | 6.49 | 6.89 |
| **METALS, TOTAL** | | | | | |
| Dilution Factor | | | | 4 | 4 |
| ALUMINUM | SW6010B | mg/kg | 5 | 14,900 | 17,800 |
| ANTIMONY | SW6010B | mg/kg | 5 | 1.3J | <22 |
| ARSENIC | SW6010B | mg/kg | 0.25 | 10.2 | 7.8 |
| BARIUM | SW6010B | mg/kg | 1 | 88.9 | 93.1 |
| BERYLLIUM | SW6010B | mg/kg | 0.5 | 0.33J | 0.12J |
| CADMIUM | SW6010B | mg/kg | 0.3 | <1.3 | <1.3 |
| CALCIUM | SW6010B | mg/kg | 20 | 1,760 | 2,250 |
| CHROMIUM | SW6010B | mg/kg | 1 | 43.1 | 40.9 |
| COBALT | SW6010B | mg/kg | 1 | 14.4 | 10.8 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P3SUPP-218 02-04760-3 | Waste P3SUPP-219 02-04760-4 |
|---|---|---|---|---|---|
| COPPER | SW6010B | mg/kg | 1 | 37.2 | 33.9 |
| IRON | SW6010B | mg/kg | 5 | 28,500 | 29,900 |
| LEAD | SW6010B | mg/kg | 1 | 11.2 | 12.4 |
| MAGNESIUM | SW6010B | mg/kg | 20 | 6,910 | 6,260 |
| MANGANESE | SW6010B | mg/kg | 1 | 335 | 300 |
| Dilution Factor | | | | 10 | 1 |
| MERCURY | SW7471A | mg/kg | 0.1 | 4.2 | 1.9 |
| Dilution Factor | | | | 4 | 4 |
| MOLYBDENUM | SW6010B | mg/kg | 1 | <4.2 | <4.4 |
| NICKEL | SW6010B | mg/kg | 2 | 32.6 | 32.4 |
| POTASSIUM | SW6010B | mg/kg | 20 | 722 | 971 |
| SELENIUM | SW6010B | mg/kg | 1 | <4.2 | <4.4 |
| SILVER | SW6010B | mg/kg | 1 | <4.2 | <4.4 |
| SODIUM | SW6010B | mg/kg | 100 | 322J | <440 |
| THALLIUM | SW6010B | mg/kg | 1 | <4.2 | <4.4 |
| Dilution Factor | | | | 1 | 1 |
| TITANIUM | SW6010B | mg/kg | 1 | 195 | 273 |
| Dilution Factor | | | | 4 | 4 |
| VANADIUM | SW6010B | mg/kg | 1 | 75.0 | 66.3 |
| ZINC | SW6010B | mg/kg | 1 | 58.4 | 51.2 |
| Dilution Factor | | | | 1 | 1 |
| **PHC AS DIESEL FUEL** | SW8015B | mg/kg | 1 | 28 | 17 |
| Dilution Factor | | | | 1 | 1 |
| **MOTOR OILS** | SW8015B | mg/kg | 2.4 [a] | 27 | 77 |
| **VOLATILE ORGANICS** | | | | | |
| Dilution Factor | | | | 1.02 | 1.05 |
| ACETONE | SW8260B | µg/kg | 50 | <54 | <58 |
| BENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| BROMOBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| BROMOCHLOROMETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| BROMODICHLOROMETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| BROMOFORM | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| BROMOMETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 2-BUTANONE | SW8260B | µg/kg | 50 | <54 | <58 |
| N-BUTYLBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| SEC-BUTYLBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| T-BUTYLBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| CARBON DISULFIDE | SW8260B | µg/kg | 10 | <11 | <12 |
| CARBON TETRACHLORIDE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| CHLOROBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| DIBROMOCHLOROMETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| CHLOROETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 2-CHLOROETHYL VINTL ETHER | SW8260B | µg/kg | 20 | <21 | <23 |
| CHLOROFORM | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| CHLOROMETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 2-CHLOROTOLUENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P3SUPP-218 02-04760-3 | Analysis Result Waste P3SUPP-219 02-04760-4 |
|---|---|---|---|---|---|
| 4-CHLOROTOLUENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,2-DIBROMO-3-CHLOROPROPANE | SW8260B | µg/kg | 10 | <11 | <12 |
| 1,2-DIBROMOETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| DIBROMOMETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,2-DICHLOROBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,3-DICHLOROBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,4-DICHLOROBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| DICHLORODIFLUOROMETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,1-DICHLOROETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,2-DICHLOROETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,1-DICHLOROETHENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| CIS-1,2-DICHLOROETHENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| TRANS-1,2-DICHLOROETHENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,2-DICHLOROPROPANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,3-DICHLOROPROPANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 2,2-DICHLOROPROPANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,1-DICHLOROPROPENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| CIS-1,3-DICHLOROPROPENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| TRANS-1,3-DICHLOROPROPENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| ETHYLBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| HEXACHLOROBUTADIENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 2-HEXANONE | SW8260B | µg/kg | 10 | <11 | <12 |
| ISOPROPYLBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| P-ISOPROPYLTOLUENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| METHYLENE CHLORIDE | SW8260B | µg/kg | 10 | 3J | 3J |
| 4-METHYL-2-PENTANONE | SW8260B | µg/kg | 10 | <11 | <12 |
| METHYL TERT-BUTYL ETHER | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| N-PROPYLBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| STYRENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,1,1,2-TETRACHLOROETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,1,2,2-TETRACHLOROETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| TETRACHLOROETHENE(PCE) | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| TOLUENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,2,3-TRICHLOROBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,2,4-TRICHLOROBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,1,1-TRICHLOROETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,1,2-TRICHLOROETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| TRICHLOROETHENE (TCE) | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| TRICHLOROFLUOROMETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,2,3-TRICHLOROPROPANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,2,4-TRIMETHYLBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,3,5-TRIMETHYLBENZENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| VINYL ACETATE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| VINYL CHLORIDE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| O-XYLENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |
| M,P-XYLENE | SW8260B | µg/kg | 5 | <5.4 | <5.8 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P3SUPP-218 02-04760-3 | Analysis Result Waste P3SUPP-219 02-04760-4 |
|---|---|---|---|---|---|
| SEMI-VOC, 64 COMPOUNDS | | | | | |
| Dilution Factor | | | | 1 | 1 |
| ACENAPHTHENE | SW8270C | µg/kg | 330 | <350 | <360 |
| ACENAPHTHYLENE | SW8270C | µg/kg | 330 | <350 | <360 |
| ANTHRACENE | SW8270C | µg/kg | 330 | <350 | <360 |
| BENZO(A)ANTHRACENE | SW8270C | µg/kg | 330 | <350 | <360 |
| BENZO(A)PYRENE | SW8270C | µg/kg | 150 | <160 | <170 |
| BENZO(B)FLUORANTHENE | SW8270C | µg/kg | 150 | <160 | <170 |
| BENZO(G,H,I)PERYLENE | SW8270C | µg/kg | 150 | <160 | <170 |
| BENZO(K)FLUORANTHENE | SW8270C | µg/kg | 330 | <350 | <360 |
| BENZOIC ACID | SW8270C | µg/kg | 390 [a] | <410 | <430 |
| BENZYL ALCOHOL | SW8270C | µg/kg | 330 | <350 | <360 |
| BIS(2-CHLOROETHOXY) METHANE | SW8270C | µg/kg | 330 | <350 | <360 |
| BIS(2-CHLOROETHYL) ETHER | SW8270C | µg/kg | 330 | <350 | <360 |
| BIS(2-CHLOROISOPROPYL) ETHER | SW8270C | µg/kg | 330 | <350 | <360 |
| BIS(2-ETHYLHEXYL) PHTHALATE | SW8270C | µg/kg | 330 | 48J | <360 |
| 4-BROMOPHENYL PHENYL ETHER | SW8270C | µg/kg | 330 | <350 | <360 |
| BENZYL BUTYL PHTHALATE | SW8270C | µg/kg | 330 | <350 | <360 |
| CARBAZOLE | SW8270C | µg/kg | 330 | <350 | <360 |
| 4-CHLORO-3-METHYLPHENOL | SW8270C | µg/kg | 330 | <350 | <360 |
| 4-CHLOROANILINE | SW8270C | µg/kg | 330 | <350 | <360 |
| 2-CHLORONAPHTHALENE | SW8270C | µg/kg | 330 | <350 | <360 |
| 2-CHLOROPHENOL | SW8270C | µg/kg | 330 | <350 | <360 |
| 4-CHLOROPHENYL PHENYL ETHER | SW8270C | µg/kg | 330 | <350 | <360 |
| CHRYSENE | SW8270C | µg/kg | 150 | <160 | <170 |
| DI-N-BUTYL PHTHALATE | SW8270C | µg/kg | 330 | <350 | <360 |
| DI-N-OCTYLPHTHALATE | SW8270C | µg/kg | 330 | <350 | <360 |
| DIBENZ(A,H)ANTHRACENE | SW8270C | µg/kg | 330 | <350 | <360 |
| DIBENZOFURAN | SW8270C | µg/kg | 100 | <110 | <110 |
| 1,2-DICHLOROBENZENE | SW8270C | µg/kg | 330 | <350 | <360 |
| 1,3-DICHLOROBENZENE | SW8270C | µg/kg | 330 | <350 | <360 |
| 1,4-DICHLOROBENZENE | SW8270C | µg/kg | 330 | <350 | <360 |
| 3,3'-DICHLOROBENZIDINE | SW8270C | µg/kg | 330 | <350 | <360 |
| 2,4-DICHLOROPHENOL | SW8270C | µg/kg | 330 | <350 | <360 |
| DIETHYL PHTHALATE | SW8270C | µg/kg | 330 | <350 | <360 |
| DIMETHYL PHTHALATE | SW8270C | µg/kg | 330 | <350 | <360 |
| 2,4-DIMETHYLPHENOL | SW8270C | µg/kg | 330 | <350 | <360 |
| 3,4-DIMETHYLPHENOL | SW8270C | µg/kg | 330 | <350 | <360 |
| 4,6-DINITRO-2-METHYLPHENOL | SW8270C | µg/kg | 1700 | <1700 | <1800 |
| 2,4-DINITROPHENOL | SW8270C | µg/kg | 2500 [a] | <2600 | <2800 |
| 2,4-DINITROTOLUENE | SW8270C | µg/kg | 330 | <350 | <360 |
| 2,6-DINITROTOLUENE | SW8270C | µg/kg | 330 | <350 | <360 |
| FLUORANTHENE | SW8270C | µg/kg | 330 | <350 | <360 |
| FLUORENE | SW8270C | µg/kg | 330 | <350 | <360 |
| HEXACHLOROBENZENE | SW8270C | µg/kg | 330 | <350 | <360 |
| HEXACHLOROBUTADIENE | SW8270C | µg/kg | 330 | <350 | <360 |
| HEXACHLOROCYCLOPENTADIENE | SW8270C | µg/kg | 1700 | <1700 | <1800 |
| HEXACHLOROETHANE | SW8270C | µg/kg | 330 | <350 | <360 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P3SUPP-218 02-04760-3 | Waste P3SUPP-219 02-04760-4 |
|---|---|---|---|---|---|
| INDENO(1,2,3-C,D)PYRENE | SW8270C | µg/kg | 330 | <350 | <360 |
| ISOPHORONE | SW8270C | µg/kg | 330 | <350 | <360 |
| 2-METHYLNAPHTHALENE | SW8270C | µg/kg | 330 | <350 | <360 |
| 2-METHYLPHENOL (O-CRESOL) | SW8270C | µg/kg | 330 | <350 | <360 |
| 3-METHYLPHENOL | SW8270C | µg/kg | 330 | <350 | <360 |
| 4-METHYLPHENOL | SW8270C | µg/kg | 330 | <350 | <360 |
| NAPHTHALENE | SW8270C | µg/kg | 330 | <350 | <360 |
| 2-NITROANILINE | SW8270C | µg/kg | 330 | <350 | <360 |
| 3-NITROANILINE | SW8270C | µg/kg | 330 | <350 | <360 |
| 4-NITROANILINE | SW8270C | µg/kg | 330 | <350 | <360 |
| NITROBENZENE | SW8270C | µg/kg | 330 | <350 | <360 |
| 2-NITROPHENOL | SW8270C | µg/kg | 660 | <690 | <730 |
| 4-NITROPHENOL | SW8270C | µg/kg | 590 [a] | <620 | <640 |
| PENTACHLOROPHENOL | SW8270C | µg/kg | 1700 | <1700 | <1800 |
| PHENANTHRENE | SW8270C | µg/kg | 150 | <160 | <170 |
| PHENOL | SW8270C | µg/kg | 330 | <350 | <360 |
| PYRENE | SW8270C | µg/kg | 330 | <350 | <360 |
| PENTACHLOROBENZENE | SW8270C | µg/kg | 1700 | <1700 | <1800 |
| PENTACHLORONITROBENZENE | SW8270C | µg/kg | 1700 | <1700 | <1800 |
| PYRIDINE | SW8270C | µg/kg | 660 | <690 | <730 |
| 1,2,4,5-TETRACHLOROBENZENE | SW8270C | µg/kg | 330 | <350 | <360 |
| 2,3,4,6-TETRACHLOROPHENOL | SW8270C | µg/kg | 330 | <350 | <360 |
| 1,2,4-TRICHLOROBENZENE | SW8270C | µg/kg | 330 | <350 | <360 |
| 2,4,5-TRICHLOROPHENOL | SW8270C | µg/kg | 330 | <350 | <360 |
| 2,4,6-TRICHLOROPHENOL | SW8270C | µg/kg | 330 | <350 | <360 |
| **ORGANOCHLORINE PESTICIDES** | | | | | |
| Dilution Factor | | | | 1 | 1 |
| ALDRIN | SW8081A | µg/kg | 2 | <2.1 | <2.2 |
| BETA BHC | SW8081A | µg/kg | 2 | <2.1 | <2.2 |
| ALPHA BHC | SW8081A | µg/kg | 2 | <2.1 | <2.2 |
| DELTA BHC | SW8081A | µg/kg | 2 | <2.1 | <2.2 |
| GAMMA BHC (LINDANE) | SW8081A | µg/kg | 2 | <2.1 | <2.2 |
| ALPHA-CHLORDANE | SW8081A | µg/kg | 2 | <2.1 | <2.2 |
| GAMMA-CHLORDANE | SW8081A | µg/kg | 2 | <2.1 | <2.2 |
| 4,4'-DDD | SW8081A | µg/kg | 4 | 3J | 9 |
| 4,4'-DDE | SW8081A | µg/kg | 4 | 0.9J | 7 |
| 4,4'-DDT | SW8081A | µg/kg | 4 | 0.5J | 6 |
| DIELDRIN | SW8081A | µg/kg | 4 | <4.2 | <4.4 |
| ALPHA ENDOSULFAN | SW8081A | µg/kg | 2 | <2.1 | <2.2 |
| BETA ENDOSULFAN | SW8081A | µg/kg | 4 | <4.2 | <4.4 |
| ENDOSULFAN SULFATE | SW8081A | µg/kg | 4 | <4.2 | <4.4 |
| ENDRIN | SW8081A | µg/kg | 4 | <4.2 | <4.4 |
| ENDRIN ALDEHYDE | SW8081A | µg/kg | 4 | <4.2 | <4.4 |
| ENDRIN KETONE | SW8081A | µg/kg | 4 | <4.2 | <4.4 |
| HEPTACHLOR | SW8081A | µg/kg | 2 | <2.1 | <2.2 |
| HEPTACHLOR EPOXIDE | SW8081A | µg/kg | 2 | <2.1 | <2.2 |
| METHOXYCHLOR | SW8081A | µg/kg | 20 | <21 | <22 |
| TOXAPHENE | SW8081A | µg/kg | 5 | <5.3 | <5.5 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P3SUPP-218 02-04760-3 | Waste P3SUPP-219 02-04760-4 |
|---|---|---|---|---|---|
| PCBS | | | | | |
| Dilution Factor | | | | 1 | 1 |
| PCB-1016 (AROCLOR 1016) | SW8082 | µg/kg | 100 | <110 | <110 |
| PCB-1221 (AROCLOR 1221) | SW8082 | µg/kg | 100 | <110 | <110 |
| PCB-1232 (AROCLOR 1232) | SW8082 | µg/kg | 100 | <110 | <110 |
| PCB-1242 (AROCLOR 1242) | SW8082 | µg/kg | 100 | <110 | <110 |
| PCB-1248 (AROCLOR 1248) | SW8082 | µg/kg | 100 | <110 | <110 |
| PCB-1254 (AROCLOR 1254) | SW8082 | µg/kg | 50 | <53 | <55 |
| PCB-1260 (AROCLOR 1260) | SW8082 | µg/kg | 50 | <53 | 7J |

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P4SUPP-220 02-04760-5 | Waste P4SUPP-221 02-04760-6 | Waste P5SUPP-222 02-04760-7 |
|---|---|---|---|---|---|---|
| PH | 9040B | pH unit | 0.01 | 5.62 | 5.79 | 5.69 |
| METALS, TOTAL | | | | | | |
| Dilution Factor | | | | 4 | 4 | 4 |
| ALUMINUM | SW6010B | mg/kg | 5 | 18,900 | 24,400 | 17,800 |
| ANTIMONY | SW6010B | mg/kg | 5 | <25 | 0.74J | 0.86J |
| ARSENIC | SW6010B | mg/kg | 0.25 | 9.1 | 10.8 | 8.6 |
| BARIUM | SW6010B | mg/kg | 1 | 58.8 | 64.0 | 79.9 |
| BERYLLIUM | SW6010B | mg/kg | 0.5 | <2.5 | <2.5 | 0.17J |
| CADMIUM | SW6010B | mg/kg | 0.3 | <1.5 | <1.5 | <1.3 |
| CALCIUM | SW6010B | mg/kg | 20 | 4,180 | 3,620 | 2,440 |
| CHROMIUM | SW6010B | mg/kg | 1 | 66.1 | 78.7 | 46.1 |
| COBALT | SW6010B | mg/kg | 1 | 13.9 | 14.1 | 14.4 |
| COPPER | SW6010B | mg/kg | 1 | 31.4 | 38.3 | 40.1 |
| IRON | SW6010B | mg/kg | 5 | 33,000 | 37,100 | 32,100 |
| LEAD | SW6010B | mg/kg | 1 | 9.2 | 11.9 | 12.9 |
| MAGNESIUM | SW6010B | mg/kg | 20 | 8,670 | 9,080 | 7,060 |
| MANGANESE | SW6010B | mg/kg | 1 | 372 | 366 | 389 |
| Dilution Factor | | | | 1 | 1 | 1 |
| MERCURY | SW7471A | mg/kg | 0.1 | 0.54 | 0.24 | 0.14 |
| Dilution Factor | | | | 4 | 4 | 4 |
| MOLYBDENUM | SW6010B | mg/kg | 1 | <5.0 | <5.0 | <4.4 |
| NICKEL | SW6010B | mg/kg | 2 | 61.3 | 68.1 | 34.8 |
| POTASSIUM | SW6010B | mg/kg | 20 | 2,150 | 2,420 | 930 |
| SELENIUM | SW6010B | mg/kg | 1 | 0.94J | <5.0 | <4.4 |
| SILVER | SW6010B | mg/kg | 1 | <5.0 | <5.0 | <4.4 |
| SODIUM | SW6010B | mg/kg | 100 | 931 | 659 | <440 |
| THALLIUM | SW6010B | mg/kg | 1 | <5.0 | <5.0 | <4.4 |
| Dilution Factor | | | | 1 | 1 | 1 |
| TITANIUM | SW6010B | mg/kg | 1 | 371 | 399 | 258 |
| Dilution Factor | | | | 4 | 4 | 4 |
| VANADIUM | SW6010B | mg/kg | 1 | 55.7 | 68.2 | 74.4 |
| ZINC | SW6010B | mg/kg | 1 | 66.2 | 71.3 | 63.2 |
| Dilution Factor | | | | 1 | 1 | 1 |
| PHC AS DIESEL FUEL | SW8015B | mg/kg | 1 | 59 | 32 | 2 |
| Dilution Factor | | | | 1 | 1 | 1 |
| MOTOR OILS | SW8015B | mg/kg | 2.4 [a] | 31 | 32 | 9.1 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P4SUPP-220 02-04760-5 | Waste P4SUPP-221 02-04760-6 | Waste P5SUPP-222 02-04760-7 |
|---|---|---|---|---|---|---|
| VOLATILE ORGANICS | | | | | | |
| Dilution Factor | | | | 1.01 | 0.96 | 1.04 |
| ACETONE | SW8260B | µg/kg | 50 | <63 | <60 | <57 |
| BENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| BROMOBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| BROMOCHLOROMETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| BROMODICHLOROMETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| BROMOFORM | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| BROMOMETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 2-BUTANONE | SW8260B | µg/kg | 50 | <63 | <60 | <57 |
| N-BUTYLBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| SEC-BUTYLBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| T-BUTYLBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| CARBON DISULFIDE | SW8260B | µg/kg | 10 | <13 | <12 | <11 |
| CARBON TETRACHLORIDE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| CHLOROBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| DIBROMOCHLOROMETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| CHLOROETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 2-CHLOROETHYL VINTL ETHER | SW8260B | µg/kg | 20 | <25 | <24 | <23 |
| CHLOROFORM | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| CHLOROMETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 2-CHLOROTOLUENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 4-CHLOROTOLUENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,2-DIBROMO-3-CHLOROPROPANE | SW8260B | µg/kg | 10 | <13 | <12 | <11 |
| 1,2-DIBROMOETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| DIBROMOMETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,2-DICHLOROBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,3-DICHLOROBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,4-DICHLOROBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| DICHLORODIFLUOROMETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,1-DICHLOROETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,2-DICHLOROETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,1-DICHLOROETHENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| CIS-1,2-DICHLOROETHENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| TRANS-1,2-DICHLOROETHENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,2-DICHLOROPROPANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,3-DICHLOROPROPANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 2,2-DICHLOROPROPANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,1-DICHLOROPROPENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| CIS-1,3-DICHLOROPROPENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| TRANS-1,3-DICHLOROPROPENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P4SUPP-220 02-04760-5 | Waste P4SUPP-221 02-04760-6 | Waste P5SUPP-222 02-04760-7 |
|---|---|---|---|---|---|---|
| ETHYLBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| HEXACHLOROBUTADIENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 2-HEXANONE | SW8260B | µg/kg | 10 | <13 | <12 | <11 |
| ISOPROPYLBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| P-ISOPROPYLTOLUENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| METHYLENE CHLORIDE | SW8260B | µg/kg | 10 | 4J | 4J | 2J |
| 4-METHYL-2-PENTANONE | SW8260B | µg/kg | 10 | <13 | <12 | <11 |
| METHYL TERT-BUTYL ETHER | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| N-PROPYLBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| STYRENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,1,1,2-TETRACHLOROETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,1,2,2-TETRACHLOROETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| TETRACHLOROETHENE(PCE) | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| TOLUENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,2,3-TRICHLOROBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,2,4-TRICHLOROBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,1,1-TRICHLOROETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,1,2-TRICHLOROETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| TRICHLOROETHENE (TCE) | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| TRICHLOROFLUOROMETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,2,3-TRICHLOROPROPANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,2,4-TRIMETHYLBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,3,5-TRIMETHYLBENZENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| VINYL ACETATE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| VINYL CHLORIDE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| O-XYLENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| M,P-XYLENE | SW8260B | µg/kg | 5 | <6.3 | <6.0 | <5.7 |
| **SEMI-VOC, 64 COMPOUNDS** | | | | | | |
| Dilution Factor | | | | 1 | 1 | 1 |
| ACENAPHTHENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| ACENAPHTHYLENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| ANTHRACENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| BENZO(A)ANTHRACENE | SW8270C | µg/kg | 330 | <410 | <410 | 96J |
| BENZO(A)PYRENE | SW8270C | µg/kg | 150 | <190 | <190 | 91J |
| BENZO(B)FLUORANTHENE | SW8270C | µg/kg | 150 | <190 | <190 | 76J |
| BENZO(G,H,I)PERYLENE | SW8270C | µg/kg | 150 | <190 | <190 | 41J |
| BENZO(K)FLUORANTHENE | SW8270C | µg/kg | 330 | <410 | <410 | 100J |
| BENZOIC ACID | SW8270C | µg/kg | 390 [a] | <490 | <490 | <430 |
| BENZYL ALCOHOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| BIS(2-CHLOROETHOXY) METHANE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| BIS(2-CHLOROETHYL) ETHER | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| BIS(2-CHLOROISOPROPYL) ETHER | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| BIS(2-ETHYLHEXYL) PHTHALATE | SW8270C | µg/kg | 330 | 54J | <410 | <360 |
| 4-BROMOPHENYL PHENYL ETHER | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| BENZYL BUTYL PHTHALATE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| CARBAZOLE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 4-CHLORO-3-METHYLPHENOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 4-CHLOROANILINE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2-CHLORONAPHTHALENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2-CHLOROPHENOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P4SUPP-220 02-04760-5 | Waste P4SUPP-221 02-04760-6 | Waste P5SUPP-222 02-04760-7 |
|---|---|---|---|---|---|---|
| 4-CHLOROPHENYL PHENYL ETHER | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| CHRYSENE | SW8270C | µg/kg | 150 | <190 | <190 | 120J |
| DI-N-BUTYL PHTHALATE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| DI-N-OCTYLPHTHALATE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| DIBENZ(A,H)ANTHRACENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| DIBENZOFURAN | SW8270C | µg/kg | 100 | <130 | <130 | <110 |
| 1,2-DICHLOROBENZENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 1,3-DICHLOROBENZENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 1,4-DICHLOROBENZENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 3,3'-DICHLOROBENZIDINE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2,4-DICHLOROPHENOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| DIETHYL PHTHALATE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| DIMETHYL PHTHALATE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2,4-DIMETHYLPHENOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2,6-DIMETHYLPHENOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 3,4-DIMETHYLPHENOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 4,6-DINITRO-2-METHYLPHENOL | SW8270C | µg/kg | 1700 | <2100 | <2100 | <1800 |
| 2,4-DINITROPHENOL | SW8270C | µg/kg | 2500 [a] | <3100 | <3100 | <2700 |
| 2,4-DINITROTOLUENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2,6-DINITROTOLUENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| FLUORANTHENE | SW8270C | µg/kg | 330 | <410 | <410 | 190J |
| FLUORENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| HEXACHLOROBENZENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| HEXACHLOROBUTADIENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| HEXACHLOROCYCLOPENTADIENE | SW8270C | µg/kg | 1700 | <2100 | <2100 | <1800 |
| HEXACHLOROETHANE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| INDENO(1,2,3-C,D)PYRENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| ISOPHORONE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2-METHYLNAPHTHALENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2-METHYLPHENOL (O-CRESOL) | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 3-METHYLPHENOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 4-METHYLPHENOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| NAPHTHALENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2-NITROANILINE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 3-NITROANILINE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 4-NITROANILINE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| NITROBENZENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2-NITROPHENOL | SW8270C | µg/kg | 660 | <830 | <830 | <720 |
| 4-NITROPHENOL | SW8270C | µg/kg | 590 [a] | <740 | <730 | <640 |
| PENTACHLOROPHENOL | SW8270C | µg/kg | 1700 | <2100 | <2100 | <1800 |
| PHENANTHRENE | SW8270C | µg/kg | 150 | <190 | <190 | 161 |
| PHENOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| PYRENE | SW8270C | µg/kg | 330 | <410 | <410 | 160J |
| PENTACHLOROBENZENE | SW8270C | µg/kg | 1700 | <2100 | <2100 | <1800 |
| PENTACHLORONITROBENZENE | SW8270C | µg/kg | 1700 | <2100 | <2100 | <1800 |
| PYRIDINE | SW8270C | µg/kg | 660 | <830 | <830 | <720 |
| 1,2,4,5-TETRACHLOROBENZENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2,3,4,6-TETRACHLOROPHENOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 1,2,4-TRICHLOROBENZENE | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2,4,5-TRICHLOROPHENOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |
| 2,4,6-TRICHLOROPHENOL | SW8270C | µg/kg | 330 | <410 | <410 | <360 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P4SUPP-220 02-04760-5 | Waste P4SUPP-221 02-04760-6 | Waste P5SUPP-222 02-04760-7 |
|---|---|---|---|---|---|---|
| **ORGANOCHLORINE PESTICIDES** | | | | | | |
| Dilution Factor | | | | 1 | 1 | 1 |
| ALDRIN | SW8081A | µg/kg | 2 | < 2.5 | < 2.5 | < 2.2 |
| BETA BHC | SW8081A | µg/kg | 2 | < 2.5 | < 2.5 | < 2.2 |
| ALPHA BHC | SW8081A | µg/kg | 2 | < 2.5 | < 2.5 | < 2.2 |
| DELTA BHC | SW8081A | µg/kg | 2 | < 2.5 | < 2.5 | < 2.2 |
| GAMMA BHC (LINDANE) | SW8081A | µg/kg | 2 | < 2.5 | < 2.5 | < 2.2 |
| ALPHA-CHLORDANE | SW8081A | µg/kg | 2 | < 2.5 | < 2.5 | < 2.2 |
| GAMMA-CHLORDANE | SW8081A | µg/kg | 2 | < 2.5 | < 2.5 | < 2.2 |
| 4,4'-DDD | SW8081A | µg/kg | 4 | 5J | 4J | 3J |
| 4,4'-DDE | SW8081A | µg/kg | 4 | 2J | 1J | 0.6J |
| 4,4'-DDT | SW8081A | µg/kg | 4 | 0.2J | < 5.0 | 2J |
| DIELDRIN | SW8081A | µg/kg | 4 | < 5.0 | < 5.0 | < 4.4 |
| ALPHA ENDOSULFAN | SW8081A | µg/kg | 2 | < 2.5 | < 2.5 | < 2.2 |
| BETA ENDOSULFAN | SW8081A | µg/kg | 4 | < 5.0 | < 5.0 | < 4.4 |
| ENDOSULFAN SULFATE | SW8081A | µg/kg | 4 | < 5.0 | < 5.0 | < 4.4 |
| ENDRIN | SW8081A | µg/kg | 4 | < 5.0 | < 5.0 | < 4.4 |
| ENDRIN ALDEHYDE | SW8081A | µg/kg | 4 | < 5.0 | < 5.0 | < 4.4 |
| ENDRIN KETONE | SW8081A | µg/kg | 4 | < 5.0 | < 5.0 | < 4.4 |
| HEPTACHLOR | SW8081A | µg/kg | 2 | < 2.5 | < 2.5 | < 2.2 |
| HEPTACHLOR EPOXIDE | SW8081A | µg/kg | 2 | < 2.5 | < 2.5 | < 2.2 |
| METHOXYCHLOR | SW8081A | µg/kg | 20 | < 25 | < 25 | < 22 |
| TOXAPHENE | SW8081A | µg/kg | 5 | < 6.3 | < 6.3 | < 5.4 |
| **PCBS** | | | | | | |
| Dilution Factor | | | | 1 | 1 | 1 |
| PCB-1016 (AROCLOR 1016) | SW8082 | µg/kg | 100 | < 130 | < 130 | < 110 |
| PCB-1221 (AROCLOR 1221) | SW8082 | µg/kg | 100 | < 130 | < 130 | < 110 |
| PCB-1232 (AROCLOR 1232) | SW8082 | µg/kg | 100 | < 130 | < 130 | < 110 |
| PCB-1242 (AROCLOR 1242) | SW8082 | µg/kg | 100 | < 130 | < 130 | < 110 |
| PCB-1248 (AROCLOR 1248) | SW8082 | µg/kg | 100 | < 130 | < 130 | < 110 |
| PCB-1254 (AROCLOR 1254) | SW8082 | µg/kg | 50 | < 63 | < 63 | < 54 |
| PCB-1260 (AROCLOR 1260) | SW8082 | µg/kg | 50 | < 63 | < 63 | < 54 |

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# APCL Analytical Report

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P1SUPP-216 02-04760-1 | Analysis Result Waste P1SUPP-217 02-04760-2 |
|---|---|---|---|---|---|
| Dilution Factor | | | | 5 | 5 |
| STLC CADMIUM | SW6010B | μg/L | 5 | 20.1J | 16.7J |
| STLC COPPER | SW6010B | μg/L | 10 | 747 | 641 |
| STLC LEAD, STLC | SW6010B | μg/L | 10 | 721 | 618 |
| Dilution Factor | | | | 1 | 1 |
| STLC MERCURY | SW7470A | μg/L | 0.5 | 1.7 | 0.45J |
| Dilution Factor | | | | 5 | 5 |
| STLC NICKEL | SW6010B | μg/L | 20 | 1,860 | 1,430 |

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) MDL reported.

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

the igroup

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 562901
Page 1 of 1

Project Name/No. [1] HAMILTON /831471
Sample Team Members [2] J. STRACK, M. REED
Profit Center No. [3]
Project Manager [4] JOHN WARREN
Purchase Order No. [6] 186217
Required Report Date [11]

Samples Shipment Date [7] 9-5-02
Lab Destination [8] APCL
Lab Contact [9] HSIN-YI LEE
Project Contact/Phone [12] (909) 590-1828
Carrier/Waybill No. [13] FEDEX ~~0556823855590~~ MK 1421-2769-5

Bill to: [5] VIKKI TAYLOR
c/o SHAW E&I
4005 PORT CHICAGO HWY
CONCORD, CA 94520

Report to: [10] VICTORIA TAYLOR
SHAW E&I
4005 PORT CHICAGO HWY
CONCORD, CA 94520-1120

White: To accompany samples
Yellow: Field copy

**ONE CONTAINER PER LINE**

| Sample Number [14] | Sample Description/Type [15] | Date/Time Collected [16] | Container Type [17] | Sample Volume [18] | Preservative [19] | Requested Testing Program [20] | Condition on Receipt [21] | Disposal Record No. [22] |
|---|---|---|---|---|---|---|---|---|
| WASTE P1 SUMP-216 | SOIL | 9-5-02/ 942 | 8 oz JAR | 2 EA | ICE | STLC METALS - CADMIUM, COPPER, LEAD, MERCURY, AND NICKEL | | |
| WASTE P1 SUMP-217 | SOIL | 9-9-02/ 955 | 8 oz JAR | 2 EA. | ICE | " | | |
| WASTE P3 SUMP-218 | SOIL | 9-9-02/ 1030 | ENCORE AND 8 oz JAR | 3 EA AND 3 EA | ICE | VOCs; SVOCs; TPH-ext; OCP; PCBs; TOTAL METALS INCL. MERC. | | |
| WASTE P3 SUMP-219 | SOIL | 9-9-02/ 1055 | ENCORE AND 8 oz JAR | 3 EA & 3 EA | ICE | " | | |
| WASTE P4 SUMP-220 | SOIL | 9-5-02/ 1145 ~~1120~~ MK | ENCORE & 8 oz JAR | 3 EA & 3 EA | ICE | " | | |
| WASTE P4 SUMP-221 | SOIL | 9-5-02/ 1120 | ENCORE & 8 oz JAR | 3 EA & 3 EA | ICE | " | | |
| WASTE P5 SUMP-222 | SOIL | 9-5-02/ 1210 | ENCORE & 8 oz JAR | 3 EA & 3 EA | ICE | " | | |
| | | | | | | MK | | |

FOR LAB USE ONLY 4760 9/25/02

FOR LAB USE ONLY 5074

Special Instructions: [23] ~~3 DAY TURN AROUND~~ MK

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☐ Archive ____ (mos.)

Turnaround Time Required: [26]
Normal ☐ Rush ☐

QC Level: [27]
I. ☐ II. ☐ III. ☐ Project Specific (specify): ____

| | | | |
|---|---|---|---|
| 1. Relinquished by [28] (Signature/Affiliation) IT/SHAW E&I | Date: 9-5-02 Time: 1230 PM | 1. Received by [28] (Signature/Affiliation) APCL | Date: 9/7/02 Time: 1130A |
| 2. Relinquished by (Signature/Affiliation) | Date: Time: | 2. Received by (Signature/Affiliation) | Date: Time: |
| 3. Relinquished by (Signature/Affiliation) | Date: Time: | 3. Received by (Signature/Affiliation) | Date: Time: |

Comments: [29]

*See back of form for special instructions.

MCA 3/15/91

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

# APCL Analytical Report

Submitted to:
Shaw E & I
Attention: Vicky Taylor
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)827-5927

Service ID #: 801-025106
Collected by: J.Strack
Collected on: 09/25/02

Received: 09/26/02
Extracted: 09/26-28/02
Tested: 09/30/02
Reported: 10/01/02

Sample Description: Soil
Project Description: 831471 Hamilton

## Analysis of Soil Samples

| Component Analyzed | Method | Unit | PQL | Analysis Result Waste P3SUPP-223 02-05106-1 |
|---|---|---|---|---|
| Dilution Factor | | | | 1 |
| DI WET ALUMINUM | SW6010B | µg/L | 100 | 34,700 |
| Dilution Factor | | | | 5 |
| STLC ARSENIC | SW6010B | µg/L | 10 | 249 |
| STLC LEAD | SW6010B | µg/L | 10 | 203 |
| Dilution Factor | | | | 1 |
| STLC MERCURY | SW7470A | µg/L | 0.5 | 0.30J |
| Dilution Factor | | | | 5 |
| STLC NICKEL | SW6010B | µg/L | 20 | 634 |
| STLC VANADIUM | SW6010B | µg/L | 10 | 972 |

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

the igroup

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 560158
Page 1 of 1

Project Name/No. [1] HAMILTON/831471
Sample Team Members [2] J. STRACK
Profit Center No. [3]
Project Manager [4] JOHN WARREN
Purchase Order No. [6] 186217
Required Report Date [11]

Samples Shipment Date [7] 9-25-02
Lab Destination [8] APCL
Lab Contact [9] HSIN-YI LEE
Project Contact/Phone [12] 909-590-1828
Carrier/Waybill No. [13] FED EX 835682385548

Bill to: [5] VIKKI TAYLOR
c/o SHAW E&I
4005 PORT CHICAGO HWY
CONCORD CA 94520

Report to: [10] VIKKI TAYLOR
SHAW E&I
4005 PORT CHICAGO HWY
CONCORD CA 94520-1120

White: To accompany samples
Yellow: Field copy

**ONE CONTAINER PER LINE**

| Sample Number [14] | Sample Description/Type [15] | Date/Time Collected [16] | Container Type [17] | Sample Volume [18] | Pre-servative [19] | Requested Testing Program [20] | Condition on Receipt [21] | Disposal Record No. [22] |
|---|---|---|---|---|---|---|---|---|
| WASTE P3SUPP-223 | SOIL | 9-25-02/ 1220 | 8 OZ. JAR | 2 EA | ICE | .STLC METALS (ARS, LEAD, MERC, NICK & VANADIUM) .DI WET (ALUMINUM) | | |
| | | | | | | | FOR LAB USE ONLY | |
| | | | | 5106 | | | Good Condition | |
| | | | | | | | Temp 4.7°C | |
| | | | | | | | FOR LAB USE ONLY | |

Special Instructions: [23]

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☐ Archive _____ (mos.)

Turnaround Time Required: [26]
Normal ☐ Rush ☐

QC Level: [27]
I. ☐ II. ☐ III. ☐ Project Specific (specify): _____

| | |
|---|---|
| 1. Relinquished by [28] (Signature/Affiliation) Joe Strack SHAW ENV. INC Date: 9-25-02 Time: 1400 | 1. Received by [28] (Signature/Affiliation) Date: 9/25/2 Time: 0930 |
| 2. Relinquished by (Signature/Affiliation) Date: Time: | 2. Received by (Signature/Affiliation) Date: Time: |
| 3. Relinquished by (Signature/Affiliation) Date: Time: | 3. Received by (Signature/Affiliation) Date: Time: |

Comments: [29]

*See back of form for special instructions.

MCA 3/15/91