



STATE OF WASHINGTON

## DEPARTMENT OF ECOLOGY

7272 Cleanwater Lane, 1U-11 • Olympia, Washington 98504 • (206) 753-2353

M E M O R A N D U M  
July 23, 1984

To: Frank Monahan  
 From: Art Johnson *aj*  
 Subject: Results of Priority Pollutant Analysis on Water and Sediment  
 Samples at the Occidental and Pennwalt facilities, Hylebos  
 Waterway, April 1984

Data on the following samples collected by Dale Norton and me are attached:

| <u>Sample Number</u> | <u>Media</u>        | <u>Collection Site (see Figure 1)</u> | <u>Collection Date</u> |
|----------------------|---------------------|---------------------------------------|------------------------|
| J3476                | Water               | Bank seepage #1, Occidental           | April 18, 1984         |
| J3465                | Intertidal Sediment | " " " "                               | April 19, 1984         |
| J3477                | Water               | Bank seepage #2, Occidental           | April 18, 1984         |
| J3482                | " (duplicate)       | " " " "                               | " " "                  |
| J3466                | Intertidal Sediment | " " " "                               | April 19, 1984         |
| J3478                | Water               | Bank seepage #3, Occidental           | April 18, 1984         |
| J3467                | Intertidal sediment | " " " "                               | April 19, 1984         |
| J3479                | Water               | E. property line ditch, Pennwalt      | April 18, 1984         |
| J4511                | "                   | " " " "                               | May 17, 1984           |
| J3480                | "                   | Bank seepage, Pennwalt                | April 19, 1984         |

The water samples were one-gallon grabs. The sediment samples are composites of several samples of the top 2 cm surface layer of intertidal sediment near the indicated discharges. Analysis was by Cal Analytical Labs, Inc., Sacramento, California.

Seep #1 at Occidental (see photo in Figure 2) had 400 ug/L tetrachloroethane and lesser amounts of several other chlorinated hydrocarbons. Traces of aldrin, DDT, DDD, and b-endosulfan were also detected. Neither tetrachloroethane nor pesticide was detected in the intertidal sediment at this site, but hexachloroethane and tetrachloroethene concentrations were extremely high; 640 mg/Kg and 350 mg/Kg, respectively. Low concentrations of volatiles were found in the other two Occidental seeps sampled. A trace of aldrin was also detected in seep #3.

Memo to Frank Monahan

Results of Priority Pollutant Analysis on Water and Sediment Samples at the  
Occidental and Pennwalt Facilities, Hylebos Waterway, April 1984

July 23, 1984

Page Two

The following chlorinated butadiene concentrations were measured in the Occidental sediment samples:

|                             |   |           |
|-----------------------------|---|-----------|
| Seep #1 Sediment<br>(J3465) | hexachlorobutadiene                       | 20 mg/Kg  |
|                             | tetrachlorobutadiene (unspecified isomer) | 0.6 mg/Kg |
|                             | pentachlorobutadiene (unspecified isomer) | 0.6 mg/Kg |
|                             | pentachlorobutadiene (unspecified isomer) | 1.3 mg/Kg |
| Seep #2 Sediment<br>(J3466) | none detected                             |           |
| Seep #3 Sediment<br>(J3467) | hexachlorobutadiene                       | 2.6 mg/Kg |
|                             | tetrachlorobutadiene (unspecified isomer) | 1.0 mg/Kg |
|                             | tetrachlorobutadiene (unspecified isomer) | 0.3 mg/Kg |
|                             | pentachlorobutadiene (unspecified isomer) | 1.2 mg/Kg |
|                             | pentachlorobutadiene (unspecified isomer) | 0.3 mg/Kg |

The 20 mg/Kg of hexachlorobutadiene found in the sediment below seep #1 is the highest concentration so far reported for Commencement Bay sediment. 2 ug/L trichlorobutadiene and 3 ug/L tetrachlorobutadiene were detected in seep #1. The raw data for the lower chlorinated butadienes are not in the attached tables, but were reported to us separately in a cover letter.

Bank seepage at Pennwalt (about 200 feet west of the east property line) had 5.6 ug/L hexachlorobutadiene, 110 ug/L hexachloroethane, 120 ug/L chloroform, and 340 ug/L tetrachloroethene. Little was found in the two Pennwalt east property line ditch samples. No sediment was collected here.

AJ:cp

Attachments

cc: Dale Norton  
Bill Yake  
Jim Krull

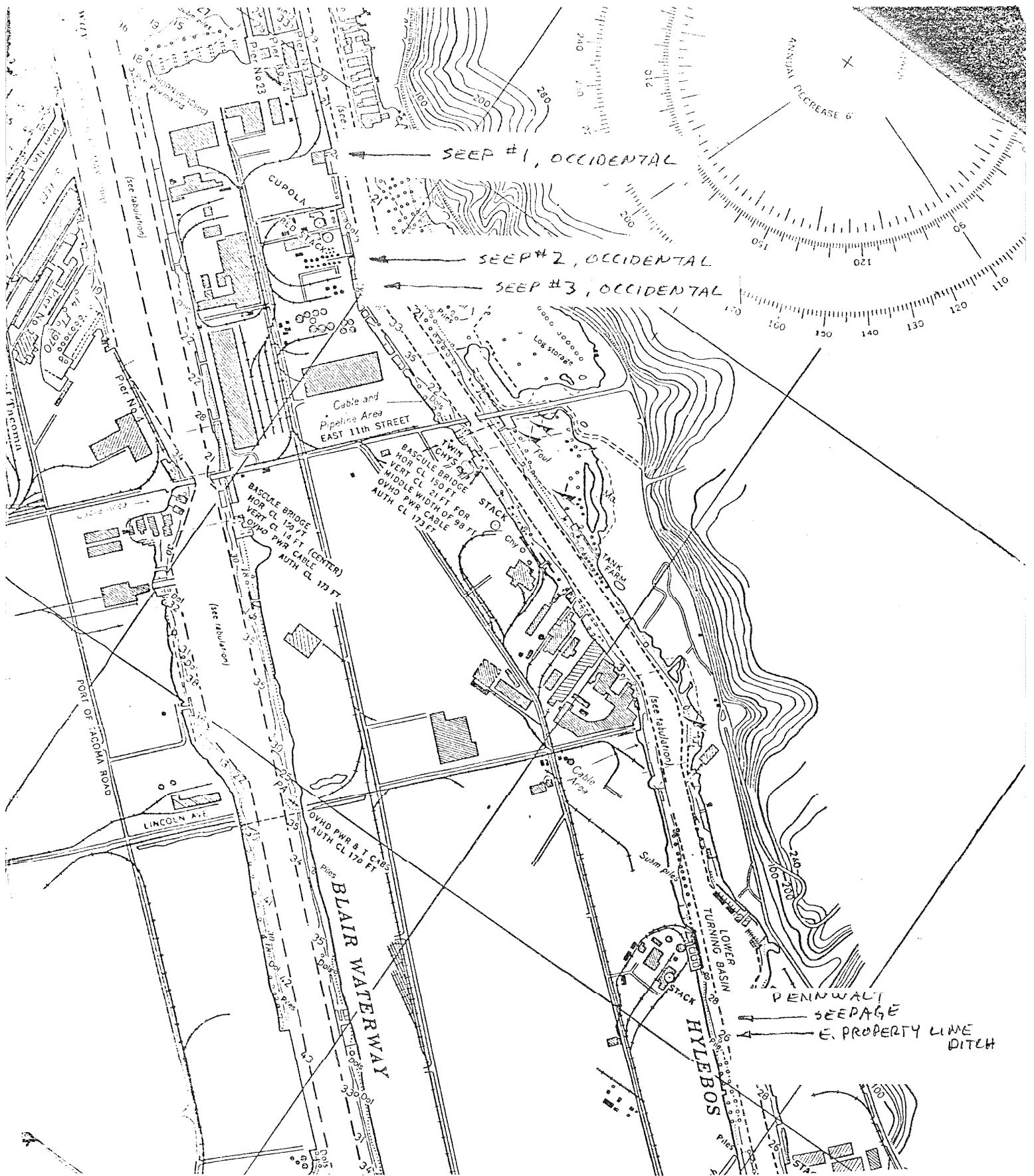


Figure 1. Locations of water and sediment samples collected by WDOE at Occidental and Pennwalt seeps, April 18-19, 1984.



Figure 2. Seep #1 at Occidental sampled by WDOE April 18, 1984.

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office  
P.O. BOX 618, Alexandria, Virginia 22313 - 703/557-2493

DATA PREP/RELEASE BY: Kry MM

SAMPLE NO: J 3476 SEEP #1

OCCIDENTAL  
APRIL 18, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.  
LAB SAMPLE NO: S4292

CASE NO: 2622/730J  
QC REPORT NO: RED 730J-5  
CONTRACT NO: 68-U1-6763

DATE SAMPLE REC'D: 4/19/84  
SAMPLE MATRIX: WATER  
PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one)

DATE EXTRACTED/PREPARED: 4/20/84

DATE ANALYZED: 5/24/84

CONC. FACTOR: 1L/2mL

| PP# | CAS #      | ug/L                               | PP#  | CAS #    | ug/L                             |
|-----|------------|------------------------------------|------|----------|----------------------------------|
| 21A | 88-06-2    | 2,4,6-trichlorophenol 1.0 U        | 52B  | 87-68-3  | hexachlorobutadiene 1.0 U        |
| 22A | 59-50-7    | p-chloro-m-cresol 1.0 U            | 53B  | 77-47-4  | hexachlorocyclopentadiene 1.0 U  |
| 24A | 95-57-8    | 2-chlorophenol 1.0 U               | 54B  | 78-59-1  | isophorone 1.0 U                 |
| 31A | 120-83-2   | 2,4-dichlorophenol 1.0 U           | 55B  | 91-28-5  | naphthalene 1.0 U                |
| 34A | 105-67-9   | 2,4-dimethylphenol 1.0 U           | 56B  | 98-95-3  | nitrobenzene 1.0 U               |
| 57A | 88-75-5    | 2-nitrophenol 1.0 U                | 61B  | 62-75-9  | N-nitrosodimethylamine 1.0 U     |
| 58A | 100-02-7   | 4-nitrophenol 1.0 U                | 62B  | 86-30-6  | N-nitrosodiphenylamine 1.0 U     |
| 59A | 51-28-5    | 2,4-dinitrophenol 1.0 U            | 63B  | 621-64-7 | N-nitrosodipropylamine 1.0 U     |
| 60A | 534-52-1   | 4,6-dinitro-o-cresol 1.0 U         | 65B  | 117-81-7 | bis(2-ethylhexyl)phthalate 1.0 U |
| 64A | 87 85-5    | pentachlorophenol 1.0 U            | 67B  | 85-68-7  | benzyl butyl phthalate 1.0 U     |
| 65A | 108-95-2   | phenol 1.0 U                       | 68B  | 84-74-2  | di-n-butyl phthalate 1.0 U       |
| CL1 | 65-85-0    | benzoic acid 1.0 U                 | 69B  | 117-84-0 | di-n-octyl phthalate 1.0 U       |
| CL2 | 95-48-7    | 2-methylphenol 1.0 U               | 70B  | 84-66-2  | diethyl phthalate 1.0 U          |
| CL3 | 108-39-4   | 4-methylphenol 1.0 U               | 71B  | 131-11-3 | dimethyl phthalate 1.0 U         |
| CL4 | 95-95-4    | 2,4,5-trichlorophenol 1.0 U        | 72B  | 56-55-3  | benzo(a)anthracene 0.1 U         |
| 1B  | 83-32-9    | acenaphthene 0.1 U                 | 73B  | 50-32-8  | benzo(a)pyrene 0.1 U             |
| 5B  | 92-87-5    | benzidine 1.0 U                    | 74B  | 205-99-2 | benzo(b)fluoranthene 0.1 U       |
| 6B  | 120-82-1   | 1,2,4-trichlorobenzene 1.0 U       | 75B  | 207-08-9 | benzo(k)fluoranthene 0.1 U       |
| 9B  | 118-74-1   | hexachlorobenzene 1.0 U            | 76B  | 218-01-9 | chrysene 0.1 U                   |
| 12B | 67-72-1    | hexachloroethane 3.6 U             | 77B  | 208-96-8 | acenaphthylene 0.1 U             |
| 18B | 111-44-4   | bis(2-chloroethyl)ether 1.0 U      | 78B  | 120-12-7 | anthracene 0.1 U                 |
| 20B | 91-58-7    | 2-chloronaphthalene 1.0 U          | 79B  | 191-24-2 | benzo(ghi)perylene 0.1 U         |
| 25B | 95-50-1    | 1,2-dichlorobenzene 1.0 U          | 80B  | 86-73-7  | fluorene 0.1 U                   |
| 26B | 541-73-1   | 1,3-dichlorobenzene 1.0 U          | 81B  | 85-01-8  | phenanthrene 0.1 U               |
| 27B | 105-46-7   | 1,4-dichlorobenzene 1.0 U          | 82B  | 53-70-3  | dibenzo(a,h)anthracene 0.1 U     |
| 28B | 91-94-1    | 3,3'-dichlorobenzidine 1.0 U       | 83B  | 193-39-5 | indeno(1,2,3-cd)pyrene 0.1 U     |
| 35B | 121-14-2   | 2,4-dinitrotoluene 1.0 U           | 84B  | 129-00-0 | pyrene 0.1 U                     |
| 36B | 605-20-2   | 2,6-dinitrotoluene 1.0 U           | CL5  | 62-53-3  | aniline 1.0 U                    |
| 37B | 122-66-7   | 1,2-diphenylhydrazine 1.0 U        | CL6  | 100-51-6 | benzyl alcohol 1.0 U             |
| 39B | 205-44-0   | fluoranthene 0.1 U                 | CL7  | 106-47-8 | 4-chloroaniline 1.0 U            |
| 40B | 7005-72-3  | 4-chlorophenyl phenyl ether 1.0 U  | CL8  | 132-64-9 | dibenzofuran 0.1 U               |
| 41B | 101-55-3   | 4-bromophenyl phenyl ether 1.0 U   | CL9  | 91-57-6  | 2-methylnaphthalene 1.0 U        |
| 42B | 39638-32-9 | bis(2-chloroisopropyl) ether 1.0 U | CL10 | 88-74-4  | 2-nitroaniline 1.0 U             |
| 43B | 111-91-1   | bis(2-chloroethoxy) methane 1.0 U  | CL11 | 99-09-2  | 3-nitroaniline 1.0 U             |
|     |            |                                    | CL12 | 100-01-6 | 4-nitroaniline 1.0 U             |

ABN COMPOUNDS - FS

FOR DATA REPORTING QUALIFIERS SEE COVER LETTER

7/2/84

01

A PREP/RELEASE BY: Kj ac 1 MM

SAMPLE NO: J 3476 SEEP #1  
OCCIDENTAL  
APRIL 18, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: California Analytical Labs, Inc. CASE NO: 2622/730J DATE SAMPLE REC'D: 4/19/84  
 LAB SAMPLE NO: S4292 QC REPORT NO: RED 730J-5 SAMPLE MATRIX: WATER  
 CONTRACT NO: 68-01-8763 PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

VOLATILES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE ANALYZED: 4/24/84

PESTICIDES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 4/19/84  
 DATE ANALYZED: 5/09/84  
 CONC FACTOR: 1000ml/5ml

| PP#  | CAS #      | ug/L                      | PP#         | CAS #           | ug/L   |
|------|------------|---------------------------|-------------|-----------------|--|
| 2V   | 107-02-8   | acrolein                  | 10 U        | 89P 309-00-2    | aldrin <u>0.05M</u> <del>0.05 K **</del>       |
| 3V   | 107-13-1   | acrylonitrile             | 10 U        | 90P 60-57-1     | dieldrin 0.05 U                                |
| 4V   | 71-43-2    | benzene                   | 1 U         | 91P 57-74-9     | chlordane 0.50 U                               |
| 6V   | 56-23-5    | carbon tetrachloride      | 1 U         | 92P 50-29-3     | 4,4'-DDT <u>0.10M</u> <del>0.10 K **</del>     |
| 7V   | 108-90-7   | chlorobenzene             | 1 U         | 93P 72-55-9     | 4,4'-DDE 0.05 U                                |
| 10V  | 107-06-2   | 1,2-dichloroethane        | 1 U         | 94P 72-54-8     | 4,4'-DDD <u>0.10M</u> <del>0.10 K **</del>     |
| 11V  | 71-55-6    | 1,1,1-trichloroethane     | 1 U         | 95P 115-29-7    | a-endosulfan 0.05 U                            |
| 13V  | 75-34-3    | 1,1-dichloroethane        | 1 U         | 96P 115-29-7    | b-endosulfan <u>0.05M</u> <del>0.05 K **</del> |
| 14V  | 79-00-5    | 1,1,2-trichloroethane     | 1 U         | 97P 1031-07-8   | endosulfan sulfate 0.10 U                      |
| 15V  | 79-34-5    | 1,1,2,2-tetrachloroethane | <u>400</u>  | 98P 72-20-8     | endrin 0.05 U                                  |
| 16V  | 75-00-3    | chloroethane              | 1 U         | 99P 7421-93-4   | endrin aldehyde 0.10 U                         |
| 19V  | 110-75-8   | 2-chloroethylvinyl ether  | 10 U        | 100P 76-44-8    | heptachlor 0.05 U                              |
| 23V  | 67-66-3    | chloroform                | <u>1.7M</u> | 101P 1024-57-3  | heptachlor epoxide 0.05 U                      |
| 29V  | 75-35-4    | 1,1-dichloroethene        | 1 U         | 102P 319-84-6   | a-BHC 0.05 U                                   |
| 30V  | 156-60-5   | trans-1,2-dichloroethene  | <u>58</u>   | 103P 319-85-7   | b-BHC 0.05 U                                   |
| 32V  | 78-87-5    | 1,2-dichloropropane       | 1 U         | 104P 319-86-8   | d-BHC 0.05 U                                   |
| 33V  | 10061-02-6 | trans-1,3-dichloropropene | 1 U         | 105P 58-89-9    | g-BHC (lindane) 0.05 U                         |
|      | 10061-01-5 | cis-1,3-dichloropropene   | 1 U         | 106P 53469-21-9 | PCB-1242 0.50 U                                |
| 38V  | 100-41-4   | ethylbenzene              | 1 U         | 107P 11097-69-1 | PCB-1254 1.0 U                                 |
| 44V  | 75-09-2    | methylene chloride        | 1 U         | 108P 11104-28-2 | PCB-1221 1.0 U                                 |
| 45V  | 74-87-3    | chloromethane             | 1 U         | 109P 11141-16-5 | PCB-1232 1.0 U                                 |
| 46V  | 74-83-9    | bromomethane              | 1 U         | 110P 12672-29-6 | PCB-1248 1.0 U                                 |
| 47V  | 75-25-2    | bromoform                 | 1 U         | 111P 11096-82-5 | PCB-1260 2.0 U                                 |
| 48V  | 75-27-4    | bromodichloromethane      | 1 U         | 112P 12674-11-2 | PCB-1016 0.50 U                                |
| 49V  | 75-69-4    | fluorotrichloromethane    | 1 U         | 113P 8001-35-2  | toxaphene 10 U                                 |
| 50V  | 75-71-8    | dichlorodifluoromethane   | 1 U         |                 |  |
| 51V  | 124-48-1   | chlorodibromomethane      | 1 U         |                 |  |
| 85V  | 127-18-4   | tetrachloroethene         | <u>44</u>   |                 |  |
| 85V  | 108-88-3   | toluene                   | 1 U         |                 |  |
| 87V  | 79-01-6    | trichloroethene           | <u>39</u>   |                 |  |
| 88V  | 75-01-4    | vinyl chloride            | <u>10</u>   |                 |  |
| CL13 | 67-64-1    | acetone                   | 5 U         |                 |  |
| CL14 | 78-93-3    | 2-butanone                | 5 U         |                 |  |
| CL15 | 75-15-0    | carbonylsulfide           | 1 U         |                 |  |
| CL16 | 519-78-6   | 2-hexanone                | 5 U         |                 |  |
| CL17 | 108-10-1   | 4-methyl-2-pentanone      | 5 U         |                 |  |
| CL18 | 100-42-5   | styrene                   | 1 U         |                 |  |
| CL19 | 108-05-4   | vinyl acetate             | 5 U         |                 |  |
| CL20 | 95-47-6    | total xylenes             | 1 U         |                 |  |

7/2/84

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office  
P.O. BOX 818, Alexandria, Virginia 22313 - 703/557-2450

DATA PREP/RELEASE BY: [Signature]

SAMPLE NO: J 3455 INTERTIDAL SEDIMENT  
NEAR SEEP #1  
OCCIDENTAL  
APRIL 19, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.  
LAB SAMPLE NO: 54325-4324  
14

CASE NO: 2022/730J  
QC REPORT NO: RED 730J-5  
CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 4/20/84  
SAMPLE MATRIX: SOIL  
PERCENT MOISTURE: 25%

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SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
DATE EXTRACTED/PREPARED: 4/24/84  
DATE ANALYZED: 5/25/84  
CONC. FACTOR: 22.5g/3ml

| PP# | CAS #      | ug/g                         | PP#  | CAS #    | ug/g                          |                            |
|-----|------------|------------------------------|------|----------|-------------------------------|----------------------------|
| 21A | 88-06-2    | 2,4,6-trichlorophenol        | 52B  | 87-68-3  | hexachlorobutadiene <u>20</u> |                            |
| 22A | 59-50-7    | p-chloro-m-cresol            | 53B  | 77-47-4  | hexachlorocyclopentadiene     | 0.1 U                      |
| 24A | 95-57-8    | 2-chlorophenol               | 54B  | 78-59-1  | isophorone                    | 0.1 U                      |
| 31A | 120-83-2   | 2,4-dichlorophenol           | 55B  | 91-28-5  | naphthalene                   | 0.1 U                      |
| 34A | 105-67-9   | 2,4-dimethylphenol           | 56B  | 98-95-3  | nitrobenzene                  | 0.1 U                      |
| 57A | 88-75-5    | 2-nitrophenol                | 61B  | 62-75-9  | N-nitrosodimethylamine        | 0.2 U                      |
| 58A | 100-02-7   | 4-nitrophenol                | 62B  | 86-30-6  | N-nitrosodiphenylamine        | 0.1 U                      |
| 59A | 51-28-5    | 2,4-dinitrophenol            | 63B  | 621-64-7 | N-nitrosodipropylamine        | 0.1 U                      |
| 60A | 534-52-1   | 4,6-dinitro-o-cresol         | 66B  | 117-81-7 | bis(2-ethylhexyl)phthalate    | <del>0.01 M</del> → 0.81   |
| 64A | 87-86-5    | pentachlorophenol            | 67B  | 85-68-7  | benzyl butyl phthalate        | 0.1 U                      |
| 65A | 108-95-2   | phenol                       | 68B  | 84-74-2  | di-n-butyl phthalate          | 0.1 U                      |
| CL1 | 65-85-0    | benzoic acid                 | 69B  | 117-84-0 | di-n-octyl phthalate          | 0.1 U                      |
| CL2 | 95-48-7    | 2-methylphenol               | 70B  | 84-66-2  | diethyl phthalate             | 0.1 U                      |
| CL3 | 108-39-4   | 4-methylphenol               | 71B  | 131-11-3 | dimethyl phthalate            | 0.1 U                      |
| CL4 | 95-95-4    | 2,4,5-trichlorophenol        | 72B  | 56-55-3  | benzo(a)anthracene            | <u>0.21 M</u>              |
| 1B  | 83-32-9    | acenaphthene                 | 73B  | 50-32-8  | benzo(a)pyrene                | <u>0.20 M</u>              |
| 5B  | 92-87-5    | benzidine                    | 74B  | 205-99-2 | benzo(b)fluoranthene          | 0.1 U                      |
| 6B  | 120-82-1   | 1,2,4-trichlorobenzene       | 75B  | 207-08-9 | benzo(k)fluoranthene          | 0.1 U                      |
| 9B  | 118-74-1   | hexachlorobenzene            | 76B  | 218-01-9 | chrysene                      | <u>0.27 M</u>              |
| 12B | 67-72-1    | hexachloroethane             | 77B  | 208-96-8 | acenaphthylene                | 0.1 U                      |
| 16B | 111-44-4   | bis(2-chloroethyl)ether      | 78B  | 120-12-7 | anthracene                    | 0.1 U                      |
| 20B | 91-58-7    | 2-chloronaphthalene          | 79B  | 191-24-2 | benzo(ghi)perylene            | <u>0.12 M</u>              |
| 25B | 95-50-1    | 1,2-dichlorobenzene          | 80B  | 86-73-7  | fluorene                      | 0.1 U                      |
| 26B | 541-73-1   | 1,3-dichlorobenzene          | 81B  | 85-01-8  | phenanthrene                  | <u>0.19 M</u>              |
| 27B | 106-46-7   | 1,4-dichlorobenzene          | 82B  | 53-70-3  | dibenzo(a,h)anthracene        | 0.25U                      |
| 28B | 91-94-1    | 3,3'-dichlorobenzidine       | 83B  | 193-39-5 | indeno(1,2,3-cd)pyrene        | <del>0.25 M</del> (0.25 M) |
| 35B | 121-14-2   | 2,4-dinitrotoluene           | 84B  | 129-00-0 | pyrene                        | <u>0.25 M</u>              |
| 36B | 606-20-2   | 2,6-dinitrotoluene           | CL5  | 62-53-3  | aniline                       | 0.1 U                      |
| 37B | 122-66-7   | 1,2-diphenylhydrazine        | CL6  | 100-51-6 | benzyl alcohol                | 0.1 U                      |
| 39B | 206-44-0   | fluoranthene                 | CL7  | 106-47-8 | 4-chloroaniline               | 0.5 U                      |
| 40B | 7005-72-3  | 4-chlorophenyl phenyl ether  | CL8  | 132-64-9 | dibenzofuran                  | 0.05U                      |
| 41B | 101-55-3   | 4-bromophenyl phenyl ether   | CL9  | 91-57-6  | 2-methylnaphthalene           | 0.1 U                      |
| 42B | 39638-32-9 | bis(2-chloroisopropyl) ether | CL10 | 88-74-4  | 2-nitroaniline                | 0.9 U                      |
| 43B | 111-91-1   | bis(2-chloroethoxy) methane  | CL11 | 99-09-2  | 3-nitroaniline                | 0.7 U                      |
|     |            |                              | CL12 | 100-01-6 | 4-nitroaniline                | 1.0 U                      |



ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office  
 J. Box 818, Alexandria, Virginia 22313 - 703/557-2496

DATA PREP/RELEASE BY: 1 MDA

SAMPLE NO: J 3465 INTERTIDAL SEDIMENT  
 NEAR SEEP #1  
 OCCIDENTAL  
 APRIL 19, 1984

LABORATORY NAME: California Analytical Labs, Inc.  
 LAB SAMPLE NO: S4324

CASE NO: 2622/730J  
 QC REPORT NO: RED 730J-5  
 CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 4/20/84  
 SAMPLE MATRIX: SOIL  
 PERCENT MOISTURE: 25%

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

MITTLES

PESTICIDES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE ANALYZED: 5/4/84

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 4/24/84  
 DATE ANALYZED: 5/23/84  
 CONC FACTOR: 7.5g/ml

| PP# | CAS #      | ug/g                                     |
|-----|------------|--|
| 2V  | 107-02-8   | acrolein 5.0 U                           |
| 3V  | 107-13-1   | acrylonitrile 5.0 U                      |
| 4V  | 71-43-2    | benzene 0.10 U                           |
| 6V  | 56-23-5    | carbon tetrachloride 0.10 U              |
| 7V  | 108-90-7   | chlorobenzene 0.10 U                     |
| 10V | 107-06-2   | 1,2-dichloroethane 0.10 U                |
| 11V | 71-55-6    | 1,1,1-trichloroethane 0.10 U             |
| 13V | 75-34-3    | 1,1-dichloroethane 0.10 U                |
| 14V | 79-00-5    | 1,1,2-trichloroethane 0.10 U             |
| 15V | 79-34-5    | 1,1,2,2-tetrachloroethane 0.10 U         |
| 16V | 75-00-3    | chloroethane 0.10 U                      |
| 19V | 110-75-8   | 2-chloroethylvinyl ether 5.0 U           |
| 23V | 67-66-3    | chloroform 0.11 <del>0.10</del> U        |
| 29V | 75-35-4    | 1,1 dichloroethane 0.10 U                |
| 30V | 156-60-5   | trans-1,2-dichloroethene 0.10 U          |
| 32V | 78-87-5    | 1,2-dichloropropane 0.10 U               |
| 33V | 10061-02-6 | trans-1,3-dichloropropene 0.10 U         |
|     | 10061-01-5 | cis-1,3-dichloropropene 0.10 U           |
| 38V | 100-41-4   | ethylbenzene 0.10 U                      |
| 44V | 75-09-2    | methylene chloride 7.97 <del>8.0</del> U |
| 45V | 74-87-3    | chloromethane 0.10 U                     |
| 46V | 74-83-9    | bromomethane 0.10 U                      |
| 47V | 75-25-2    | bromoform 0.10 U                         |
| 48V | 75-27-4    | bromodichloromethane 0.10 U              |
| 49V | 75-69-4    | fluorotrichloromethane 0.10 U            |
| 50V | 75-71-8    | dichlorodifluoromethane 0.10 U           |
| 51V | 124-40-1   | chlorodibromomethane 0.10 U              |
| 85V | 127-18-4   | tetrachloroethene 350 U                  |
| 85V | 108-88-3   | toluene 0.10 U                           |
| 87V | 79-01-6    | trichloroethene 0.10 U                   |
| 88V | 75-01-4    | vinyl chloride 0.10 U                    |
| L13 | 67-64-1    | acetone 1.0 U                            |
| L14 | 78-93-3    | 2-butanone 1.0 U                         |
| L15 | 75-15-0    | carbonyl sulfide 0.10 U                  |
| L16 | 519-78-6   | 2-hexanone 1.0 U                         |
| L17 | 108-10-1   | 4-methyl-2-pentanone 1.0 U               |
| L18 | 100-42-5   | styrene 0.10 U                           |
| L19 | 108-05-4   | vinyl acetate 2.0 U                      |
| L20 | 95-47-6    | total xylenes 0.10 U                     |

| PP#  | CAS #      | ug/g                       |
|------|------------|----------------------------|
| 89P  | 309-00-2   | aldrin 0.025 U             |
| 90P  | 60-57-1    | dieldrin 0.050 U           |
| 91P  | 57-74-9    | chlordane 0.25 U           |
| 92P  | 50-29-3    | 4,4' DDT 0.010 U           |
| 93P  | 72-55-9    | 4,4'-DDE 0.050 U           |
| 94P  | 72-54-8    | 4,4'-DDD 0.10 U            |
| 95P  | 115-29-7   | a-endosulfan 0.050 U       |
| 96P  | 115-29-7   | b-endosulfan 0.050 U       |
| 97P  | 1031-07-8  | endosulfan sulfate 0.010 U |
| 98P  | 72-20-8    | endrin 0.050 U             |
| 99P  | 7421-93-4  | endrin aldehyde 0.010 U    |
| 100P | 76-44-8    | heptachlor 0.025 U         |
| 101P | 1024-57-3  | heptachlor epoxide 0.025 U |
| 102P | 319-84-6   | a-BHC 0.025 U              |
| 103P | 319-85-7   | b-BHC 0.025 U              |
| 104P | 319-86-8   | d-BHC 0.025 U              |
| 105P | 58-89-9    | g-BHC (lindane) 0.025 U    |
| 106P | 53469-21-9 | PCB-1242 1.0 U             |
| 107P | 11097-69-1 | PCB-1254 1.0 U             |
| 108P | 11104-28-2 | PCB-1221 1.0 U             |
| 109P | 11141-16-5 | PCB-1232 1.0 U             |
| 110P | 12672-29-6 | PCB-1248 1.0 U             |
| 111P | 11096-82-5 | PCB-1260 1.0 U             |
| 112P | 12674-11-2 | PCB-1016 1.0 U             |
| 113P | 8001-35-2  | toxaphene 2.5 U            |

7/9/84  
 DIOXINS  
 CONC FACTOR: 7.5g/0.5ml  
 DATE EXTRACTED/PREPARED: 4/24/84  
 DATE ANALYZED: 3/31/84

| PP#  | CAS #     | ug/g   |
|------|-----------|--|
| 1298 | 1746-01-b | 2,3,7,8-tetrachloro-dibenzo-p-dioxin 0.025 U |
|      |           | 8.002 U                                      |

DIOXINS-FS  
 RESULTS REPORTED IN DRY WEIGHT

*lym*



U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office  
P.O. BOX 818, Alexandria, Virginia 22313 - 703/557-2490

DATA PREP/RELEASE BY: Kry / MON

SAMPLE NO: J-3477

SEEP #2  
OCCIDENTAL  
APRIL 18, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.  
LAB SAMPLE NO: S4293

CASE NO: 2622/730J  
QC REPORT NO: RED 730J-5  
CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 4/19/84  
SAMPLE MATRIX: WATER  
PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
DATE EXTRACTED/PREPARED: 4/20/84  
DATE ANALYZED: 5/24/84  
CONC. FACTOR: 1L/2ml

| PP# | CAS #      | ug/L                               | PP#  | CAS #    | ug/L                             |
|-----|------------|------------------------------------|------|----------|----------------------------------|
| 1A  | 88-05-2    | 2,4,6-trichlorophenol 1.0 U        | 52B  | 87-68-3  | hexachlorobutadiene 1.0 U        |
| 2A  | 59-50-7    | p-chloro-m-cresol 1.0 U            | 53B  | 77-47-4  | hexachlorocyclopentadiene 1.0 U  |
| 3A  | 95-57-8    | 2-chlorophenol 1.0 U               | 54B  | 78-59-1  | isophorone 1.0 U                 |
| 4A  | 120-83-2   | 2,4-dichlorophenol 1.0 U           | 55B  | 91-28-5  | naphthalene 1.0 U                |
| 5A  | 105-67-9   | 2,4-dimethylphenol 1.0 U           | 56B  | 98-95-3  | nitrobenzene 1.0 U               |
| 6A  | 89-75-5    | 2-nitrophenol 1.0 U                | 57B  | 62-75-9  | N-nitrosodimethylamine 1.0 U     |
| 7A  | 100-02-7   | 4-nitrophenol 1.0 U                | 62B  | 86-30-6  | N-nitrosodiphenylamine 1.0 U     |
| 8A  | 51-28-5    | 2,4-dinitrophenol 1.0 U            | 63B  | 621-64-7 | N-nitrosodipropylamine 1.0 U     |
| 9A  | 534-52-1   | 4,6-dinitro-o-cresol 1.0 U         | 66B  | 117-01-7 | bis(2-ethylhexyl)phthalate 1.0 U |
| 10A | 87-85-5    | pentachlorophenol 1.0 U            | 67B  | 85-68-7  | benzyl butyl phthalate 1.0 U     |
| 11A | 108-95-2   | phenol 1.0 U                       | 68B  | 84-74-2  | di-n-butyl phthalate 1.0 U       |
| 12  | 65-85-0    | benzoic acid 1.0 U                 | 69B  | 117-84-0 | di-n-octyl phthalate 1.0 U       |
| 13  | 95-48-7    | 2-methylphenol 1.0 U               | 70B  | 84-65-2  | diethyl phthalate 1.0 U          |
| 14  | 108-39-4   | 4-methylphenol 1.0 U               | 71B  | 131-11-3 | dimethyl phthalate 1.0 U         |
| 15  | 95-95-4    | 2,4,5-trichlorophenol 1.0 U        | 72B  | 56-55-3  | benzo(a)anthracene 0.1 U         |
| 16  | 83-32-9    | acenaphthene 0.1 U                 | 73B  | 50-32-8  | benzo(a)pyrene 0.1 U             |
| 17  | 92-87-5    | benzidine 1.0 U                    | 74B  | 205-99-2 | benzo(b)fluoranthene 0.1 U       |
| 18  | 120-82-1   | 1,2,4-trichlorobenzene 1.0 U       | 75B  | 207-08-9 | benzo(k)fluoranthene 0.1 U       |
| 19  | 118-74-1   | hexachlorobenzene 1.0 U            | 76B  | 218-01-9 | chrysene 0.1 U                   |
| 20  | 67-72-1    | hexachloroethane 1.0 U             | 77B  | 208-96-8 | acenaphthylene 0.1 U             |
| 21  | 111-44-4   | bis(2-chloroethyl)ether 1.0 U      | 78B  | 120-12-7 | anthracene 0.1 U                 |
| 22  | 91-58-7    | 2-chloronaphthalene 1.0 U          | 79B  | 191-24-2 | benzo(ghi)perylene 0.1 U         |
| 23  | 95-50-1    | 1,2-dichlorobenzene 1.0 U          | 80B  | 86-73-7  | fluorene 0.1 U                   |
| 24  | 541-73-1   | 1,3-dichlorobenzene 1.0 U          | 81B  | 85-01-8  | phenanthrene 0.1 U               |
| 25  | 106-46-7   | 1,4-dichlorobenzene 1.0 U          | 82B  | 53-70-3  | dibenzo(a,h)anthracene 0.1 U     |
| 26  | 91-94-1    | 3,3'-dichlorobenzidine 1.0 U       | 83B  | 193-39-5 | indeno(1,2,3-cd)pyrene 0.1 U     |
| 27  | 121-14-2   | 2,4-dinitrotoluene 1.0 U           | 84B  | 129-00-0 | pyrene 0.1 U                     |
| 28  | 606-20-2   | 2,6-dinitrotoluene 1.0 U           | CL5  | 62-53-3  | aniline 1.0 U                    |
| 29  | 122-65-7   | 1,2-diphenylhydrazine 1.0 U        | CL5  | 100-51-6 | benzyl alcohol 1.0 U             |
| 30  | 206-44-0   | fluoranthene 0.1 U                 | CL7  | 106-47-8 | 4-chloroaniline 1.0 U            |
| 31  | 7005-72-3  | 4-chlorophenyl phenyl ether 1.0 U  | CL8  | 132-64-9 | dibenzofuran 0.1 U               |
| 32  | 101-55-3   | 4-bromophenyl phenyl ether 1.0 U   | CL9  | 91-57-6  | 2-methylnaphthalene 1.0 U        |
| 33  | 39638-32-9 | bis(2-chloroisopropyl) ether 1.0 U | CL10 | 88-74-4  | 2-nitroaniline 1.0 U             |
| 34  | 111-91-1   | bis(2-chloroethoxy) methane 1.0 U  | CL11 | 99-09-2  | 3-nitroaniline 1.0 U             |
|     |            |                                    | CL12 | 100-01-6 | 4-nitroaniline 1.0 U             |

35 COMPOUNDS - FS

36 DATA REPORTING QUANTITIES SEE COVER LETTER

DATA PREP/RELEASE BY: Ky cl WJ

SAMPLE NO: J 3477 SEEP #2  
OCCIDENTAL  
APRIL 18, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: California Analytical Labs, Inc. CASE NO: 2622/730J DATE SAMPLE REC'D: 4/19/84  
 LAB SAMPLE NO: S4293 QC REPORT NO: RED 730J-5 SAMPLE MATRIX: WATER  
 CONTRACT NO: 68-01-6763 PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

VOLATILES

PESTICIDES

CONCENTRATION: LOW MEDIUM HIGH (circle one)

CONCENTRATION: LOW MEDIUM HIGH (circle one)

DATE ANALYZED: 4/25/84

DATE EXTRACTED/PREPARED: 4/19/84

DATE ANALYZED: 5/09/84

CONC FACTOR: 1000ml/5ml

| PP# | CAS #      | ug/L                      | PP#  | CAS #      | ug/L               |             |        |
|-----|------------|---------------------------|------|------------|--------------------|-------------|--------|
| 2V  | 107-02-8   | acrolein                  | 89P  | 309-00-2   | aldrin             | 10 U        | 0.05 U |
| 3V  | 107-13-1   | acrylonitrile             | 90P  | 60-57-1    | dieldrin           | 10 U        | 0.05 U |
| 4V  | 71-43-2    | benzene                   | 91P  | 57-74-9    | chlordane          | 1 U         | 0.50 U |
| 6V  | 56-23-5    | carbon tetrachloride      | 92P  | 50-29-3    | 4,4'-DDT           | 1 U         | 0.10 U |
| 7V  | 108-90-7   | chlorobenzene             | 93P  | 72-55-9    | 4,4'-DDE           | 1 U         | 0.05 U |
| 10V | 107-06-2   | 1,2-dichloroethane        | 94P  | 72-54-8    | 4,4'-DDD           | 1 U         | 0.10 U |
| 11V | 71-55-6    | 1,1,1-trichloroethane     | 95P  | 115-29-7   | a-endosulfan       | 1 U         | 0.05 U |
| 13V | 75-34-3    | 1,1-dichloroethane        | 96P  | 115-29-7   | b-endosulfan       | 1 U         | 0.05 U |
| 14V | 79-00-5    | 1,1,2-trichloroethane     | 97P  | 1031-07-8  | endosulfan sulfate | 1 U         | 0.10 U |
| 15V | 79-34-5    | 1,1,2,2-tetrachloroethane | 98P  | 72-20-8    | endrin             | 1 U         | 0.05 U |
| 16V | 75-00-3    | chloroethane              | 99P  | 7421-93-4  | endrin aldehyde    | 1 U         | 0.10 U |
| 19V | 110-75-8   | 2-chloroethylvinyl ether  | 100P | 76-44-8    | heptachlor         | 10 U        | 0.05 U |
| 23V | 67-66-3    | chloroform                | 101P | 1024-57-3  | heptachlor epoxide | 11          | 0.05 U |
| 29V | 75-35-4    | 1,1-dichloroethene        | 102P | 319-84-6   | a-BHC              | 1 U         | 0.05 U |
| 30V | 156-60-5   | trans-1,2-dichloroethene  | 103P | 319-85-7   | b-BHC              | 1.6 $\mu$ l | 0.05 U |
| 32V | 78-87-5    | 1,2-dichloropropane       | 104P | 319-86-8   | d-BHC              | 1 U         | 0.05 U |
| 33V | 10061-02-6 | trans-1,3-dichloropropene | 105P | 58-89-9    | g-BHC (lindane)    | 1 U         | 0.05 U |
|     | 10061-01-5 | cis-1,3-dichloropropene   | 106p | 53469-21-9 | PCB-1242           | 1 U         | 0.50 U |
| 33V | 100-41-4   | ethylbenzene              | 107p | 11097-69-1 | PCB-1254           | 1 U         | 1.0 U  |
| 44V | 75-09-2    | methylene chloride        | 108p | 11104-28-2 | PCB-1221           | 1 U         | 1.0 U  |
| 45V | 74-87-3    | chloromethane             | 109p | 11141-16-5 | PCB-1232           | 1 U         | 1.0 U  |
| 46V | 74-83-9    | bromomethane              | 110p | 12672-29-6 | PCB-1248           | 1 U         | 1.0 U  |
| 47V | 75-25-2    | bromoform                 | 111p | 11096-82-5 | PCB-1260           | 1 U         | 2.0 U  |
| 48V | 75-27-4    | bromodichloromethane      | 112p | 12674-11-2 | PCB-1016           | 1 U         | 0.50 U |
| 49V | 75-69-4    | fluorotrichloromethane    | 113p | 8001-35-2  | toxaphene          | 1 U         | 10 U   |
| 50V | 75-71-8    | dichlorodifluoromethane   |      |            |                    | 1 U         |        |
| 51V | 124-48-1   | chlorodibromomethane      |      |            |                    | 1 U         |        |
| 55V | 127-10-4   | tetrachloroethene         |      |            |                    | 1 U         |        |
| 56V | 108-88-3   | toluene                   |      |            |                    | 1 U         |        |
| 57V | 79-01-6    | trichloroethene           |      |            |                    | 1 U         |        |
| 58V | 75-01-4    | vinyl chloride            |      |            |                    | 3.2 $\mu$ l |        |
| L13 | 67-64-1    | acetone                   |      |            |                    | 5 U         |        |
| L14 | 78-93-3    | 2-butanone                |      |            |                    | 5 U         |        |
| L15 | 75-15-0    | carbendisulfide           |      |            |                    | 1 U         |        |
| L16 | 519-78-6   | 2-hexanone                |      |            |                    | 5 U         |        |
| L17 | 108-10-1   | 4-methyl-2-pentanone      |      |            |                    | 5 U         |        |
| L18 | 100-42-5   | styrene                   |      |            |                    | 1 U         |        |
| L19 | 108-05-4   | vinyl acetate             |      |            |                    | 5 U         |        |
| L20 | 95-47-6    | total xylenes             |      |            |                    | 1 U         |        |

7/2/84

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office  
 P.O. BOX 818, Alexandria, Virginia 22313 - 703/557-2490

DATA PREP/RELEASE BY: Key / MM

SAMPLE NO: J 3482 SEEP #2 (duplicate)  
 OCCIDENTAL  
 APRIL 18, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.  
 LAB SAMPLE NO: 54297

CASE NO: 2622/730J  
 QC REPORT NO: RED 730J-5  
 CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 4/19/84  
 SAMPLE MATRIX: WATER  
 PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 4/20/84  
 DATE ANALYZED: 5/24/84  
 CONC. FACTOR: 1L/2ml

| PP# | CAS #      | ug/L                               | PP#  | CAS #    | ug/L                             |
|-----|------------|------------------------------------|------|----------|----------------------------------|
| 21A | 88-05-2    | 2,4,6-trichlorophenol 1.0 U        | 528  | 87-68-3  | hexachlorobutadiene 1.0 U        |
| 22A | 59-50-7    | p-chloro-m-cresol 1.0 U            | 538  | 77-47-4  | hexachlorocyclopentadiene 1.0 U  |
| 24A | 95-57-8    | 2-chlorophenol 1.0 U               | 548  | 78-59-1  | isophorone 1.0 U                 |
| 31A | 120-83-2   | 2,4-dichlorophenol 1.0 U           | 558  | 91-28-5  | naphthalene 1.0 U                |
| 34A | 105-67-9   | 2,4-dimethylphenol 1.0 U           | 568  | 98-95-3  | nitrobenzene 1.0 U               |
| 57A | 88-75-5    | 2-nitrophenol 1.0 U                | 618  | 62-75-9  | N-nitrosodimethylamine 1.0 U     |
| 58A | 100-02-7   | 4-nitrophenol 1.0 U                | 628  | 86-30-6  | N-nitrosodiphenylamine 1.0 U     |
| 59A | 51-28-5    | 2,4-dinitrophenol 1.0 U            | 638  | 621-64-7 | N-nitrosodipropylamine 1.0 U     |
| 60A | 534-52-1   | 4,6-dinitro-o-cresol 1.0 U         | 668  | 117-81-7 | bis(2-ethylhexyl)phthalate 1.0 U |
| 64A | 87-85-5    | pentachlorophenol 1.0 U            | 678  | 85-68-7  | benzyl butyl phthalate 1.0 U     |
| 65A | 108-95-2   | phenol 1.0 U                       | 698  | 84-74-2  | di-n-butyl phthalate 1.0 U       |
| CL1 | 65-85-0    | benzoic acid 1.0 U                 | 698  | 117-84-0 | di-n-octyl phthalate 1.0 U       |
| CL2 | 95-48-7    | 2-methylphenol 1.0 U               | 708  | 84-66-2  | diethyl phthalate 1.0 U          |
| CL3 | 108-39-4   | 4-methylphenol 1.0 U               | 718  | 131-11-3 | dimethyl phthalate 1.0 U         |
| CL4 | 95-95-4    | 2,4,5-trichlorophenol 1.0 U        | 728  | 56-55-3  | benzo(a)anthracene 0.1 U         |
| 1B  | 83-32-9    | acenaphthene 0.1 U                 | 738  | 50-32-8  | benzo(a)pyrene 0.1 U             |
| 5B  | 92-87-5    | benzidine 1.0 U                    | 748  | 205-99-2 | benzo(b)fluoranthene 0.1 U       |
| 8B  | 120-82-1   | 1,2,4-trichlorobenzene 1.0 U       | 758  | 207-08-9 | benzo(k)fluoranthene 0.1 U       |
| 9B  | 118-74-1   | hexachlorobenzene 1.0 U            | 768  | 218-01-9 | chrysene 0.1 U                   |
| 12B | 67-72-1    | hexachloroethane 1.0 U             | 778  | 208-96-8 | acenaphthylene 0.1 U             |
| 18B | 111-44-4   | bis(2-chloroethyl)ether 1.0 U      | 788  | 120-12-7 | anthracene 0.1 U                 |
| 20B | 91-58-7    | 2-chloronaphthalene 1.0 U          | 798  | 191-24-2 | benzo(ghi)perylene 0.1 U         |
| 25B | 95-50-1    | 1,2-dichlorobenzene 1.0 U          | 808  | 86-73-7  | fluorene 0.1 U                   |
| 26B | 541-73-1   | 1,3-dichlorobenzene 1.0 U          | 818  | 85-01-8  | phenanthrene 0.1 U               |
| 27B | 106-46-7   | 1,4-dichlorobenzene 1.0 U          | 828  | 53-70-3  | dibenzo(a,h)anthracene 0.1 U     |
| 28B | 91-94-1    | 3,3'-dichlorobenzidine 1.0 U       | 838  | 193-39-5 | indeno(1,2,3-cd)pyrene 0.1 U     |
| 35B | 121-14-2   | 2,4-dinitrotoluene 1.0 U           | 848  | 129-00-0 | pyrene 0.1 U                     |
| 36B | 606-20-2   | 2,6-dinitrotoluene 1.0 U           | CL5  | 62-53-3  | aniline 1.0 U                    |
| 37B | 122-65-7   | 1,2-diphenylhydrazine 1.0 U        | CL6  | 100-51-6 | benzyl alcohol 1.0 U             |
| 39B | 206-44-0   | fluoranthene 0.1 U                 | CL7  | 106-47-8 | 4-chloroaniline 1.0 U            |
| 40B | 7005-72-3  | 4-chlorophenyl phenyl ether 1.0 U  | CL8  | 132-64-9 | dibenzofuran 0.1 U               |
| 41B | 101-55-3   | 4-oxomophenyl phenyl ether 1.0 U   | CL9  | 91-57-6  | 2-methylnaphthalene 1.0 U        |
| 42B | 39538-32-9 | bis(2-chloroisopropyl) ether 1.0 U | CL10 | 88-74-4  | 2-nitroaniline 1.0 U             |
| 43B | 111-91-1   | bis(2-chloroethoxy) methane 1.0 U  | CL11 | 99-09-2  | 3-nitroaniline 1.0 U             |
|     |            |                                    | CL12 | 100-01-6 | 4-nitroaniline 1.0 U             |

ABN COMPOUNDS - FS

FOR DATA REPORTING QUALITERS SEE COVER LETTER

ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office  
Alexandria, Virginia 22313 - 703/557-2490

LAB/RELEASE BY: Key 1 cc MM

SAMPLE NO: J 3432 SEEP #2 (duplicate)  
OCCIDENTAL  
APRIL 12, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: California Analytical Labs, Inc.  
LAB SAMPLE NO: S4297

CASE NO: 2622/730J

DATE SAMPLE REC'D: 4/19/84

QC REPORT NO: RED 730J-5

SAMPLE MATRIX: WATER

CONTRACT NO: 68-01-3763

PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

VOLATILES

PESTICIDES

CONCENTRATION: LOW MEDIUM HIGH (circle one)

DATE ANALYZED: 4/26/84

CONCENTRATION: LOW MEDIUM HIGH (circle one)

DATE EXTRACTED/PREPARED: 4/19/84

DATE ANALYZED: 5/10/84

CONC FACTOR: 1000ml/5ml

| PP#  | CAS #      | u <sub>g</sub> /L | PP#  | CAS #      | u <sub>g</sub> /L |
|------|------------|-------------------|------|------------|-------------------|
| 2V   | 107-02-8   | 10 U              | 89P  | 309-00-2   | 0.05 U            |
| 3V   | 107-13-1   | 10 U              | 90P  | 60-57-1    | 0.05 U            |
| 4V   | 71-43-2    | 1 U               | 91P  | 57-74-9    | 0.50 U            |
| 6V   | 56-23-5    | 1 U               | 92P  | 50-29-3    | 0.10 U            |
| 7V   | 108-90-7   | 1 U               | 93P  | 72-55-9    | 0.05 U            |
| 10V  | 107-06-2   | 1 U               | 94P  | 72-54-8    | 0.10 U            |
| 11V  | 71-55-6    | 1 U               | 95P  | 115-29-7   | 0.05 U            |
| 13V  | 75-34-3    | 1 U               | 95P  | 115-29-7   | 0.05 U            |
| 14V  | 79-00-5    | 1 U               | 97P  | 1031-07-8  | 0.10 U            |
| 15V  | 79-34-5    | 1 U               | 98P  | 72-20-8    | 0.05 U            |
| 16V  | 75-00-3    | 1 U               | 99P  | 7421-93-4  | 0.10 U            |
| 19V  | 110-75-8   | 10 U              | 100P | 76-44-8    | 0.05 U            |
| 23V  | 67-66-3    | 11                | 101P | 1024-57-3  | 0.05 U            |
| 29V  | 75-35-4    | 1 U               | 102P | 319-84-6   | 0.05 U            |
| 30V  | 156-60-5   | 1.3M              | 103P | 319-85-7   | 0.05 U            |
| 32V  | 78-87-5    | 1 U               | 104P | 319-86-8   | 0.05 U            |
| 33V  | 10061-02-6 | 1 U               | 105P | 58-89-9    | 0.05 U            |
|      | 10061-01-5 | 1 U               | 106P | 53469-21-9 | 0.50 U            |
| 38V  | 100-41-4   | 1 U               | 107P | 11097-69-1 | 1.0 U             |
| 44V  | 75-09-2    | 1 U               | 103P | 11104-28-2 | 1.0 U             |
| 45V  | 74-87-3    | 1 U               | 109P | 11141-16-5 | 1.0 U             |
| 46V  | 74-83-9    | 1 U               | 110P | 12672-29-6 | 1.0 U             |
| 47V  | 75-25-2    | 1 U               | 111P | 11096-82-5 | 2.0 U             |
| 48V  | 75-27-4    | 1 U               | 112P | 12674-11-2 | 0.50 U            |
| 49V  | 75-69-4    | 1 U               | 113P | 8001-35-2  | 10 U              |
| 50V  | 75-71-8    | 1 U               |      |            |                   |
| 51V  | 124-48-1   | 1 U               |      |            |                   |
| 85V  | 127-18-4   | 1 U               |      |            |                   |
| 86V  | 108-88-3   | 1 U               |      |            |                   |
| 87V  | 79-01-6    | 3.0M              |      |            |                   |
| 89V  | 75-01-4    | 1 U               |      |            |                   |
| CL13 | 67-64-1    | (24) 31           |      |            |                   |
| CL14 | 78-93-3    | 5 U               |      |            |                   |
| CL15 | 75-15-0    | 1 U               |      |            |                   |
| CL16 | 519-78-6   | 5 U               |      |            |                   |
| CL17 | 108-10-1   | 5 U               |      |            |                   |
| CL18 | 100-42-5   | 1 U               |      |            |                   |
| CL19 | 108-05-4   | 5 U               |      |            |                   |
| CL20 | 95-47-6    | 1 U               |      |            |                   |

(88) 7/2/84

A PREP/RELEASE BY: Log, MDM

SAMPLE NO: J 3466 INTERTIDAL SEDIMENT  
 NEAR SEEP #2  
 OCCIDENTAL  
 APRIL 19, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.  
 LAB SAMPLE NO: S4325

CASE NO: 2622/730J  
 QC REPORT NO: RED 730J-5  
 CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 4/20/84  
 SAMPLE MATRIX: SOIL  
 PERCENT MOISTURE: 18%

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 4/24/84  
 DATE ANALYZED: 5/15/84  
 CONC. FACTOR: 24.6g/3ml

| PP# | CAS #      | ug/g                         | PP#   | CAS # | ug/g                                |        |
|-----|------------|------------------------------|-------|-------|-------------------------------------|--------|
| 21A | 88-06-2    | 2,4,6-trichlorophenol        | 0.1 U | 528   | 87-68-3 hexachlorobutadiene         | 0.1 U  |
| 22A | 59-50-7    | p-chloro-m-cresol            | 0.2 U | 538   | 77-47-4 hexachlorocyclopentadiene   | 0.1 U  |
| 24A | 95-57-8    | 2-chlorophenol               | 0.1 U | 548   | 78-59-1 isophorone                  | 0.1 U  |
| 31A | 120-83-2   | 2,4-dichlorophenol           | 0.1 U | 558   | 91-28-5 naphthalene                 | 0.1 U  |
| 34A | 105-67-9   | 2,4-dimethylphenol           | 0.1 U | 568   | 98-95-3 nitrobenzene                | 0.1 U  |
| 57A | 88-75-5    | 2-nitrophenol                | 0.1 U | 618   | 62-75-9 N-nitrosodimethylamine      | 0.2 U  |
| 58A | 100-02-7   | 4-nitrophenol                | 0.9 U | 628   | 86-30-6 N-nitrosodiphenylamine      | 0.1 U  |
| 59A | 51-28-5    | 2,4-dinitrophenol            | 0.4 U | 638   | 621-64-7 N-nitrosodipropylamine     | 0.1 U  |
| 60A | 534-52-1   | 4,6-dinitro-o-cresol         | 0.2 U | 668   | 117-81-7 bis(2-ethylhexyl)phthalate | 0.13 U |
| 64A | 87-86-5    | pentachlorophenol            | 0.25U | 678   | 85-68-7 benzyl butyl phthalate      | 0.1 U  |
| 65A | 108-95-2   | phenol                       | 0.1 U | 688   | 84-74-2 di-n-butyl phthalate        | 0.1 U  |
| CL1 | 65-85-0    | benzoic acid                 | 0.9 U | 698   | 117-84-0 di-n-octyl phthalate       | 0.1 U  |
| CL2 | 95-48-7    | 2-methylphenol               | 0.1 U | 708   | 84-66-2 diethyl phthalate           | 0.1 U  |
| CL3 | 108-39-4   | 4-methylphenol               | 0.1 U | 718   | 131-11-3 dimethyl phthalate         | 0.1 U  |
| CL4 | 95-95-4    | 2,4,5-trichlorophenol        | 1.0 U | 728   | 56-55-3 benzo(a)anthracene          | 0.88   |
| 1B  | 83-32-9    | acenaphthene                 | 0.1 U | 738   | 50-32-8 benzo(a)pyrene              | 1.1    |
| 5B  | 92-87-5    | benzidine                    | 0.25U | 748   | 205-99-2 benzo(b)fluoranthene       | 0.59   |
| 8B  | 120-82-1   | 1,2,4-trichlorobenzene       | 0.1 U | 758   | 207-08-0 benzo(k)fluoranthene       | 0.59   |
| 9B  | 118-74-1   | hexachlorobenzene            | 0.1 U | 768   | 218-01-9 chrysene                   | 1.1    |
| 12B | 67-72-1    | hexachloroethane             | 1.1   | 778   | 208-96-8 acenaphthylene             | 0.1 U  |
| 18B | 111-44-4   | bis(2-chloroethyl)ether      | 0.1 U | 788   | 120-12-7 anthracene                 | 0.21 U |
| 21A | 91-58-7    | 2-chloronaphthalene          | 0.1 U | 79A   | 191-74-2 benzo(ghi)perylene         | 0.50 U |
| 25B | 95-50-1    | 1,2-dichlorobenzene          | 0.1 U | 80B   | 86-73-7 fluorene                    | 0.1 U  |
| 26B | 541-73-1   | 1,3-dichlorobenzene          | 0.1 U | 81B   | 85-01-8 phenanthrene                | 0.70 U |
| 27B | 106-46-7   | 1,4-dichlorobenzene          | 0.1 U | 82B   | 53-70-3 dibenzo(a,h)anthracene      | 0.25 U |
| 28B | 91-94-1    | 3,3'-dichlorobenzidine       | 0.1 U | 83B   | 193-39-5 indeno(1,2,3-cd)pyrene     | 0.56   |
| 35B | 121-14-2   | 2,4-dinitrotoluene           | 0.1 U | 84B   | 129-00-0 pyrene                     | 1.3    |
| 36B | 606-20-2   | 2,6-dinitrotoluene           | 0.1 U | CL5   | 62-53-3 aniline                     | 0.1 U  |
| 37B | 122-66-7   | 1,2-diphenylhydrazine        | 0.1 U | CL6   | 100-51-6 benzyl alcohol             | 0.1 U  |
| 39B | 206-44-0   | fluoranthene                 | 1.1   | CL7   | 106-47-8 4-chloroaniline            | 0.5 U  |
| 40B | 7005-72-3  | 4-chlorophenyl phenyl ether  | 0.1 U | CL8   | 132-64-9 dibenzofuran               | 0.05U  |
| 41B | 101-55-3   | 4-bromophenyl phenyl ether   | 0.1 U | CL9   | 91-57-6 2-methylnaphthalene         | 0.1 U  |
| 42B | 39638-32-9 | bis(2-chloroisopropyl) ether | 0.1 U | CL10  | 88-74-4 2-nitroaniline              | 0.9 U  |
| 43B | 111-91-1   | bis(2-chloroethoxy) methane  | 0.1 U | CL11  | 99-09-2 3-nitroaniline              | 0.7 U  |
|     |            |                              |       | CL12  | 100-01-1 4-nitroaniline             | 1.0 U  |

ABN COMPOUNDS - FS

RESULTS REPORTED IN DRY WEIGHT

7/9/84

11

DATA PREP/RELEASE BY: lij / MM

SAMPLE NO: J 3466 INTERTIDAL SEDIMENT  
 NEAR SEEP #2  
 OCCIDENTAL  
 APRIL 19, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: California Analytical Labs, Inc.  
 LAB SAMPLE NO: 54325

CASE NO: 2622/730J  
 QC REPORT NO: RED 730J-5  
 CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 4/20/84  
 SAMPLE MATRIX: SOIL  
 PERCENT MOISTURE: 18%

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

VOLATILES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE ANALYZED: 5/4/84

PESTICIDES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 4/24/84  
 DATE ANALYZED: 5/24/84  
 CONC FACTOR: 8.2g/ml

| PP#  | CAS #      | ug/g                              |
|------|------------|-----------------------------------|
| 2V   | 107-02-8   | acrolein 0.050 U                  |
| 3V   | 107-13-1   | acrylonitrile 0.050 U             |
| 4V   | 71-43-2    | benzene 0.001 U                   |
| 6V   | 56-23-5    | carbon tetrachloride 0.001 U      |
| 7V   | 108-90-7   | chlorobenzene 0.001 U             |
| 10V  | 107-06-2   | 1,2-dichloroethane 0.001 U        |
| 11V  | 71-55-6    | 1,1,1-trichloroethane 0.001 U     |
| 13V  | 75-34-3    | 1,1-dichloroethane 0.001 U        |
| 14V  | 79-00-5    | 1,1,2-trichloroethane 0.001 U     |
| 15V  | 79-34-5    | 1,1,2,2-tetrachloroethane 0.001 U |
| 16V  | 75-00-3    | chloroethane 0.001 U              |
| 19V  | 110-75-8   | 2-chloroethylvinyl ether 0.050 U  |
| 23V  | 67-66-3    | chloroform 0.0034 M               |
| 29V  | 75-35-4    | 1,1-dichloroethene 0.001 U        |
| 30V  | 156-60-5   | trans-1,2-dichloroethene 0.001 U  |
| 32V  | 78-87-5    | 1,2-dichloropropane 0.001 U       |
| 33V  | 10061-02-6 | trans-1,3-dichloropropene 0.001 U |
|      | 10061-01-5 | cis-1,3-dichloropropene 0.001 U   |
| 38V  | 100-41-4   | ethylbenzene 0.001 U              |
| 44V  | 75-09-2    | methylene chloride 0.040          |
| 45V  | 74-87-3    | chloromethane 0.001 U             |
| 46V  | 74-83-9    | bromomethane 0.001 U              |
| 47V  | 75-25-2    | bromoform 0.001 U                 |
| 48V  | 75-27-4    | bromodichloromethane 0.001 U      |
| 49V  | 75-69-4    | fluorotrichloromethane 0.001 U    |
| 50V  | 75-71-8    | dichlorodifluoromethane 0.001 U   |
| 51V  | 124-48-1   | chlorodibromomethane 0.001 U      |
| 85V  | 127-18-4   | tetrachloroethene 0.005 U         |
| 86V  | 108-88-3   | toluene 0.001 U                   |
| 87V  | 79-01-6    | trichloroethene 0.001 U           |
| 88V  | 75-01-4    | vinyl chloride 0.001 U            |
| CL13 | 67-64-1    | acetone 0.010 U                   |
| CL14 | 78-93-3    | 2-butanone 0.010 U                |
| CL15 | 75-15-0    | carbonyl sulfide 0.001 U          |
| CL16 | 519-78-6   | 2-hexanone 0.010 U                |
| CL17 | 108-10-1   | 4-methyl-2-pentanone 0.010 U      |
| CL18 | 100-42-5   | styrene 0.001 U                   |
| CL19 | 108-05-4   | vinyl acetate 0.020 U             |
| CL20 | 95-47-6    | total xylenes 0.001 U             |

| PP#  | CAS #      | ug/g                      |
|------|------------|---------------------------|
| 89P  | 309-00-2   | aldrin 0.25 U             |
| 90P  | 60-57-1    | dieldrin 0.50 U           |
| 91P  | 57-74-9    | chlordan 2.5 U            |
| 92P  | 50-29-3    | 4,4'-DDT 0.10 U           |
| 93P  | 72-55-9    | 4,4'-DDE 0.50 U           |
| 94P  | 72-54-8    | 4,4'-DDD 1.0 U            |
| 95P  | 115-29-7   | a-endosulfan 0.50 U       |
| 96P  | 115-29-7   | b-endosulfan 0.50 U       |
| 97P  | 1031-07-8  | endosulfan sulfate 0.10 U |
| 98P  | 72-20-8    | endrin 0.50 U             |
| 99P  | 7421-93-4  | endrin aldehyde 0.10 U    |
| 100P | 76-44-8    | heptachlor 0.25 U         |
| 101P | 1024-57-3  | heptachlor epoxide 0.25 U |
| 102P | 319-84-6   | a-BHC 0.25 U              |
| 103P | 319-85-7   | b-BHC 0.25 U              |
| 104P | 319-86-8   | c-BHC 0.25 U              |
| 105P | 58-89-9    | g-BHC (lindane) 0.25 U    |
| 106P | 53469-21-9 | PCB-1242 10 U             |
| 107P | 11097-69-1 | PCB-1254 10 U             |
| 108P | 11104-28-2 | PCB-1221 10 U             |
| 109P | 11141-16-5 | PCB-1232 10 U             |
| 110P | 12672-29-6 | PCB-1248 10 U             |
| 111P | 11096-82-5 | PCB-1260 10 U             |
| 112P | 12674-11-2 | PCB-1016 10 U             |
| 113P | 8001-35-2  | toxaphene 25 U            |

DIOXINS

CONC FACTOR: 8.2g/10.5ml  
 DATE EXTRACTED/PREPARED: 4/24/84  
 DATE ANALYZED: 6/4/84

| PP#  | CAS #     | ug/g  |
|------|-----------|---|
| 129B | 1746-01-6 | 2,3,7,8-tetrachloro-dibenzo-p-dioxin 0.25 U |

DIOXINS-FS  
 RESULTS REPORTED IN DRY WEIGHT

7/9/84

DATA PREP/RELEASE BY: Key / MJM

SAMPLE NO: J 3478 SEEP #3  
OCCIDENTAL  
APRIL 10, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.  
LAB SAMPLE NO: 54294

CASE NO: 2622/730J  
QC REPORT NO: RED 730J-5  
CONTRACT NO: 69-01 6763

DATE SAMPLE REC'D: 4/19/84  
SAMPLE MATRIX: WATER  
PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
DATE EXTRACTED/PREPARED: 4/20/84  
DATE ANALYZED: 5/24/84  
CONC. FACTOR: 14/2ml

| PP# | CAS #      | ug/L                         | PP#  | CAS #    | ug/L                       |
|-----|------------|------------------------------|------|----------|----------------------------|
| 21A | 88-06-2    | 2,4,6-trichlorophenol        | 52B  | 87-68-3  | hexachlorobutadiene        |
| 22A | 59-50-7    | p-chloro-m-cresol            | 53B  | 77-47-4  | hexachlorocyclopentadiene  |
| 24A | 95-57-8    | 2-chlorophenol               | 54B  | 78-59-1  | isophorone                 |
| 31A | 120-83-2   | 2,4-dichlorophenol           | 55B  | 91-28-5  | naphthalene                |
| 34A | 105-67-9   | 2,4-dimethylphenol           | 56B  | 98-95-3  | nitrobenzene               |
| 57A | 88-75-5    | 2-nitrophenol                | 61B  | 62-75-9  | N-nitrosodimethylamine     |
| 58A | 100-02-7   | 4-nitrophenol                | 62B  | 86-30-6  | N-nitrosodiphenylamine     |
| 59A | 51-28-5    | 2,4-dinitrophenol            | 63B  | 621-64-7 | N-nitrosodipropylamine     |
| 60A | 534-52-1   | 4,6-dinitro-o-cresol         | 66B  | 117-81-7 | bis(2-ethylhexyl)phthalate |
| 64A | 87-86-5    | pentachlorophenol            | 67B  | 85-68-7  | benzyl butyl phthalate     |
| 65A | 108-95-2   | phenol                       | 68B  | 84-74-2  | di-n-butyl phthalate       |
| CL1 | 65-85-0    | benzoic acid                 | 59B  | 117-84-0 | di-n-octyl phthalate       |
| CL2 | 95-48-7    | 2-methylphenol               | 70B  | 84-66-2  | diethyl phthalate          |
| CL3 | 108-39-4   | 4-methylphenol               | 71B  | 131-11-3 | dimethyl phthalate         |
| CL4 | 95-95-4    | 2,4,5-trichlorophenol        | 72B  | 56-55-3  | benzo(a)anthracene         |
| 1B  | 83-32-9    | acenaphthene                 | 73B  | 50-32-8  | benzo(a)pyrene             |
| 5B  | 92-87-5    | benzidine                    | 74B  | 205-99-2 | benzo(b)fluoranthene       |
| 8B  | 120-82-1   | 1,2,4-trichlorobenzene       | 75B  | 207-08-9 | benzo(k)fluoranthene       |
| 9B  | 118-74-1   | hexachlorobenzene            | 76B  | 218-01-9 | chrysene                   |
| 12B | 67-72-1    | hexachloroethane             | 77B  | 208-96-8 | acenaphthylene             |
| 18B | 111-44-4   | bis(2-chloroethyl)ether      | 78B  | 120-12-7 | anthracene                 |
| 20B | 91-58-7    | 2-chloronaphthalene          | 79B  | 191-24-2 | benzo(ghi)perylene         |
| 25B | 95-50-1    | 1,2-dichlorobenzene          | 80B  | 86-73-7  | fluorene                   |
| 26B | 541-73-1   | 1,3-dichlorobenzene          | 81B  | 85-01-8  | phenanthrene               |
| 27B | 105-46-7   | 1,4-dichlorobenzene          | 82B  | 53-70-3  | dibenzo(a,h)anthracene     |
| 28B | 91-94-1    | 3,3'-dichlorobenzidine       | 83B  | 193-39-5 | indeno(1,2,3-cd)pyrene     |
| 35B | 121-14-2   | 2,4-dinitrotoluene           | 84B  | 129-00-0 | pyrene                     |
| 36B | 606-20-2   | 2,6-dinitrotoluene           | CL5  | 62-53-3  | aniline                    |
| 37B | 122-66-7   | 1,2-diphenylhydrazine        | CL6  | 100-51-6 | benzyl alcohol             |
| 39B | 206-44-0   | fluoranthene                 | CL7  | 106-47-8 | 4-chloroaniline            |
| 40B | 7005-72-3  | 4-chlorophenyl phenyl ether  | CL8  | 132-64-9 | dibenzofuran               |
| 41B | 101-55-3   | 4-bromophenyl phenyl ether   | CL9  | 91-57-6  | 2-methylnaphthalene        |
| 42B | 39638-32-9 | bis(2-chloroisopropyl) ether | CL10 | 88-74-4  | 2-nitroaniline             |
| 43B | 111-91-1   | bis(2-chloroethoxy) methane  | CL11 | 99-09-2  | 3-nitroaniline             |
|     |            |                              | CL12 | 100-01-6 | 4-nitroaniline             |

ABN COMPOUNDS - FS

FOR DATA REPORTING QUALIFIERS SEE COVER LETTER

DATA IS HELD FOR A MINIMUM OF 90 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

(AS) 7/2/84



ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office  
18, Alexandria, Virginia 22313 - 703/557-2490

EP/RELEASE BY: Key cc1

SAMPLE NO: J 3478  
SEEP # 3  
OCCIDENTAL  
APRIL 18, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: California Analytical Labs, Inc. CASE NO: 2622/730J DATE SAMPLE REC'D: 4/19/84  
LAB SAMPLE NO: 54294 QC REPORT NO: RED 730J-5 SAMPLE MATRIX: WATER  
CONTRACT NO: 68-01-6763 PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

VOLATILES

PESTICIDES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
DATE ANALYZED: 4/25/84

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
DATE EXTRACTED/PREPARED: 4/19/84  
DATE ANALYZED: 5/10/84  
CONC FACTOR: 1000ml/5ml

| PP#  | CAS #      | ug/L                      | PP#         | CAS #           | ug/L                                    |        |
|------|------------|---------------------------|-------------|-----------------|---|--------|
| 2V   | 107-02-8   | acrolein                  | 10 U        | 89P 309-00-2    | aldrin <u>0.05M</u> <del>0.05 K**</del> |        |
| 3V   | 107-13-1   | acrylonitrile             | 10 U        | 90P 60-57-1     | dieldrin                                | 0.05 U |
| 4V   | 71-43-2    | benzene                   | 1 U         | 91P 57-74-9     | chlordan                                | 0.50 U |
| 6V   | 56-23-5    | carbon tetrachloride      | 1 U         | 92P 50-29-3     | 4,4'-DDT                                | 0.10 U |
| 7V   | 108-90-7   | chlorobenzene             | 1 U         | 93P 72-55-9     | 4,4'-DDE                                | 0.05 U |
| 10V  | 107-06-2   | 1,2-dichloroethane        | 1 U         | 94P 72-54-8     | 4,4'-DDD                                | 0.10 U |
| 11V  | 71-55-6    | 1,1,1-trichloroethane     | <u>1.2M</u> | 95P 115-29-7    | a-endosulfan                            | 0.05 U |
| 13V  | 75-34-3    | 1,1-dichloroethane        | 1 U         | 96P 115-29-7    | b-endosulfan                            | 0.05 U |
| 14V  | 79-00-5    | 1,1,2-trichloroethane     | 1 U         | 97P 1031-07-8   | endosulfan sulfate                      | 0.10 U |
| 15V  | 79-34-5    | 1,1,2,2-tetrachloroethane | 1 U         | 98P 72-20-8     | endrin                                  | 0.05 U |
| 16V  | 75-00-3    | chloroethane              | 1 U         | 99P 7421-93-4   | endrin aldehyde                         | 0.10 U |
| 19V  | 110-75-8   | 2-chloroethylvinyl ether  | 10 U        | 100P 76-44-8    | heptachlor                              | 0.05 U |
| 23V  | 67-66-3    | chloroform                | <u>4.0M</u> | 101P 1024-57-3  | heptachlor epoxide                      | 0.05 U |
| 29V  | 75-35-4    | 1,1-dichloroethene        | 1 U         | 102P 319-84-6   | a-BHC                                   | 0.05 U |
| 30V  | 156-60-5   | trans-1,2-dichloroethene  | 1 U         | 103P 319-85-7   | b-BHC                                   | 0.05 U |
| 32V  | 78-87-5    | 1,2-dichloropropane       | 1 U         | 104P 319-86-8   | d-BHC                                   | 0.05 U |
| 33V  | 10061-02-6 | trans-1,3-dichloropropene | 1 U         | 105P 58-89-9    | g-BHC (lindane)                         | 0.05 U |
|      | 10061-01-5 | cis-1,3-dichloropropene   | 1 U         | 106P 53469-21-9 | PCB-1242                                | 0.50 U |
| 38V  | 100-41-4   | ethylbenzene              | 1 U         | 107P 11097-69-1 | PCB-1254                                | 1.0 U  |
| 44V  | 75-09-2    | methylene chloride        | 1 U         | 108P 11104-28-2 | PCB-1221                                | 1.0 U  |
| 45V  | 74-87-3    | chloromethane             | 1 U         | 109P 11141-16-5 | PCB-1232                                | 1.0 U  |
| 46V  | 74-83-9    | bromomethane              | 1 U         | 110P 12672-29-6 | PCB-1248                                | 1.0 U  |
| 47V  | 75-25-2    | bromoform                 | 1 U         | 111P 11096-82-5 | PCB-1260                                | 2.0 U  |
| 48V  | 75-27-4    | bromodichloromethane      | 1 U         | 112P 12674-11-2 | PCB-1016                                | 0.50 U |
| 49V  | 75-69-4    | fluorotrichloromethane    | 1 U         | 113P 8001 35 2  | toxaphene                               | 10 U   |
| 50V  | 75-71-8    | dichlorodifluoromethane   | 1 U         |                 |   |        |
| 51V  | 124-48-1   | chlorodibromomethane      | 1 U         |                 |   |        |
| 85V  | 127-18-4   | tetrachloroethene         | <u>1.5M</u> |                 |   |        |
| 86V  | 108-88-3   | toluene                   | 1 U         |                 |   |        |
| 87V  | 79-01-6    | trichloroethene           | <u>1.6M</u> |                 |   |        |
| 88V  | 75-01-4    | vinyl chloride            | 1 U         |                 |   |        |
| CL13 | 67-64-1    | acetone                   | 5 U         |                 |   |        |
| CL14 | 78-93-3    | 2-butanone                | 5 U         |                 |   |        |
| CL15 | 75-15-0    | carbendisulfide           | 1 U         |                 |   |        |
| CL16 | 519-78-6   | 2-hexanone                | 5 U         |                 |   |        |
| CL17 | 108-10-1   | 4-methyl-2-pentanone      | 5 U         |                 |   |        |
| CL18 | 100-42-5   | styrene                   | 1 U         |                 |   |        |
| CL19 | 108-05-4   | vinyl acetate             | 5 U         |                 |   |        |
| CL20 | 95-47-6    | total xylenes             | 1 U         |                 |   |        |

ASD 7/2/84

DATA PREP/RELEASE BY: MM

SAMPLE NO: J 3467 INTERTIDAL SEDIMENT  
 NEAR SEEP # 3  
 OCCIDENTAL  
 APRIL 19, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.  
 LAB SAMPLE NO: 54329

CASE NO: 2622/730J  
 QC REPORT NO: RED 730J-5  
 CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 4/20/84  
 SAMPLE MATRIX: SOIL  
 PERCENT MOISTURE: 16%

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

SEMIVOLATILE COMPOUNDS

CONCENTRATION: (LOW) MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 4/24/84  
 DATE ANALYZED: 5/26/84  
 CONC. FACTOR: 25.2g/6ml

| PP# | CAS #      | ug/g                         | PP#    | CAS # | ug/g                                |        |
|-----|------------|------------------------------|--------|-------|-------------------------------------|--------|
| 21A | 88-06-2    | 2,4,6-trichlorophenol        | 0.2 U  | 52B   | 87-68-3 hexachlorobutadiene         | 2.6    |
| 22A | 59-50-7    | p-chloro-m-cresol            | 0.4 U  | 53B   | 77-47-4 hexachlorocyclopentadiene   | 0.50 M |
| 24A | 95-57-0    | 2-chlorophenol               | 0.2 U  | 54B   | 78-59-1 isophorone                  | 0.2 U  |
| 31A | 120-83-2   | 2,4-dichlorophenol           | 0.2 U  | 55B   | 91-28-5 naphthalene                 | 0.2 U  |
| 34A | 105-67-9   | 2,4-dimethylphenol           | 0.2 U  | 56B   | 98-95-3 nitrobenzene                | 0.2 U  |
| 57A | 88-75-5    | 2-nitrophenol                | 0.2 U  | 61B   | 62-75-9 N-nitrosodimethylamine      | 0.4 U  |
| 58A | 100-02-7   | 4-nitrophenol                | 1.8 U  | 62B   | 86-30-6 N-nitrosodiphenylamine      | 0.2 U  |
| 59A | 51-28-5    | 2,4-dinitrophenol            | 0.8 U  | 63B   | 621-64-7 N-nitrosodipropylamine     | 0.2 U  |
| 60A | 534-52-1   | 4,6-dinitro-o-cresol         | 0.4 U  | 66B   | 117-81-7 bis(2-ethylhexyl)phthalate | 0.2 U  |
| 64A | 87-85-5    | pentachlorophenol            | 0.60 M | 67B   | 85-68-7 benzyl butyl phthalate      | 0.2 U  |
| 65A | 108-95-2   | phenol                       | 0.2 U  | 68B   | 84-74-2 di-n-butyl phthalate        | 0.2 U  |
| CL1 | 65-85-0    | benzoic acid                 | 1.8 U  | 69B   | 117-84-0 di-n-octyl phthalate       | 0.2 U  |
| CL2 | 95-48-7    | 2-methylphenol               | 0.2 U  | 70B   | 94-66-2 diethyl phthalate           | 0.2 U  |
| CL3 | 108-39-4   | 4-methylphenol               | 0.2 U  | 71B   | 131-11-3 dimethyl phthalate         | 0.2 U  |
| CL4 | 95-95-4    | 2,4,5-trichlorophenol        | 2.0 U  | 72B   | 56-55-3 benzo(a)anthracene          | 0.43 M |
| 1B  | 83-32-9    | acenaphthene                 | 0.2 U  | 73B   | 50-32-8 benzo(a)pyrene              | 0.38 M |
| 5B  | 92-87-5    | benzidine                    | 0.5 U  | 74B   | 205-99-2 benzo(b)fluoranthene       | 8.33 M |
| 6B  | 120-82-1   | 1,2,4-trichlorobenzene       | 0.36 M | 75B   | 207-08-9 benzo(k)fluoranthene       | 0.33 M |
| 9B  | 118-74-1   | hexachlorobenzene            | 1.4    | 76B   | 218-01-9 chrysene                   | 0.40 M |
| 12B | 67-72-1    | hexachloroethane             | 6.7    | 77B   | 208-96-8 acenaphthylene             | 0.2 U  |
| 18B | 111-44-4   | bis(2-chloroethyl)ether      | 0.2 U  | 78B   | 120-12-7 anthracene                 | 0.2 U  |
| 20B | 91-58-7    | 2-chloronaphthalene          | 0.2 U  | 79B   | 191-24-2 benzo(ghi)perylene         | 0.5 U  |
| 25B | 95-50-1    | 1,2-dichlorobenzene          | 0.2 U  | 80B   | 86-73-7 fluorene                    | 0.2 U  |
| 26B | 541-73-1   | 1,3-dichlorobenzene          | 0.2 U  | 81B   | 85-01-8 phenanthrene                | 0.36 M |
| 27B | 106-46-7   | 1,4-dichlorobenzene          | 0.2 U  | 82B   | 53-70-3 dibenzo(a,h)anthracene      | 0.5 U  |
| 28B | 91-94-1    | 3,3'-dichlorobenzidine       | 0.2 U  | 83B   | 193-39-5 indeno(1,2,3-cd)pyrene     | 0.5 U  |
| 35B | 121-14-2   | 2,4-dinitrotoluene           | 0.2 U  | 84B   | 129-00-0 pyrene                     | 0.64 M |
| 36B | 605-20-2   | 2,6-dinitrotoluene           | 0.2 U  | CL5   | 62-53-3 aniline                     | 0.2 U  |
| 37B | 122-66-7   | 1,2-diphenylhydrazine        | 0.2 U  | CL6   | 100-51-6 benzyl alcohol             | 0.2 U  |
| 38B | 206-44-0   | fluoranthene                 | 0.67 M | CL7   | 106-47-8 4-chloroaniline            | 1.0 U  |
| 40B | 7005-72-3  | 4-chlorophenyl phenyl ether  | 0.2 U  | CL8   | 132-64-9 dibenzofuran               | 0.1 U  |
| 41B | 101-55-3   | 4-bromophenyl phenyl ether   | 0.2 U  | CL9   | 91-57-6 2-methylnaphthalene         | 0.2 U  |
| 42B | 39638-32-9 | bis(2-chloroisopropyl) ether | 0.2 U  | CL10  | 88-74-4 2-nitroaniline              | 1.8 U  |
| 43B | 111-91-1   | bis(2-chloroethoxy) methane  | 0.2 U  | CL11  | 99-09-2 3-nitroaniline              | 1.4 U  |
|     |            |                              |        | CL12  | 110-01-5 4-nitroaniline             | 2.0 U  |

AGN COMPOUNDS - FS

RESULTS REPORTED IN DRY WEIGHT

(Signature) 5/19/84

111

ATA PREP/RELEASE BY: cy / MDM

SAMPLE NO: J 3467 INTERTIDAL SEDIMENT  
 NEAR SEEP #3  
 OCCIDENTAL

LABORATORY NAME: California Analytical Labs, Inc.  
 LAB SAMPLE NO: 54326

CASE NO: 2622/730J  
 QC REPORT NO: RED 730J-5  
 CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 4/20/84  
 SAMPLE MATRIX: SOIL  
 PERCENT MOISTURE: 16%

ORGANICS ANALYSIS DATA SHEET

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

VOLATILES

CONCENTRATION: (LOW) MEDIUM HIGH (circle one)  
 DATE ANALYZED: 5/4/84

PESTICIDES

CONCENTRATION: (LOW) MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 4/24/84  
 DATE ANALYZED: 5/25/84  
 CONC FACTOR: 8.4g/ml

| PP#  | CAS #      | ug/g                              |
|------|------------|-----------------------------------|
| 2V   | 107-02-8   | acrolein 0.050 U                  |
| 3V   | 107-13-1   | acrylonitrile 0.050 U             |
| 4V   | 71-43-2    | benzene 0.001 U                   |
| 6V   | 56-23-5    | carbon tetrachloride 0.001 U      |
| 7V   | 108-90-7   | chlorobenzene 0.001 U             |
| 10V  | 107-06-2   | 1,2-dichloroethane 0.001 U        |
| 11V  | 71-55-6    | 1,1,1-trichloroethane 0.001 U     |
| 13V  | 75-34-3    | 1,1-dichloroethane 0.001 U        |
| 14V  | 79-00-5    | 1,1,2-trichloroethane 0.001 U     |
| 15V  | 79-34-5    | 1,1,2,2-tetrachloroethane 0.001 U |
| 16V  | 75-00-3    | chloroethane 0.001 U              |
| 19V  | 110-75-8   | 2-chloroethylvinyl ether 0.050 U  |
| 23V  | 67-66-3    | chloroform 0.0082 U               |
| 29V  | 75-35-4    | 1,1-dichloroethene 0.001 U        |
| 30V  | 156-60-5   | trans-1,2-dichloroethene 0.001 U  |
| 32V  | 78-87-5    | 1,2-dichloropropane 0.001 U       |
| 33V  | 10061-02-6 | trans-1,3-dichloropropene 0.001 U |
|      | 10061-01-5 | cis-1,3-dichloropropene 0.001 U   |
| 38V  | 100-41-4   | ethylbenzene 0.001 U              |
| 44V  | 75-09-2    | methylene chloride 0.005 U        |
| 45V  | 74-87-3    | chloromethane 0.001 U             |
| 46V  | 74-83-9    | bromomethane 0.001 U              |
| 47V  | 75-25-2    | bromoform 0.001 U                 |
| 48V  | 75-27-4    | bromodichloromethane 0.001 U      |
| 49V  | 75-69-4    | fluorotrichloromethane 0.001 U    |
| 50V  | 75-71-8    | dichlorodifluoromethane 0.001 U   |
| 51V  | 124-48-1   | chlorodibromomethane 0.001 U      |
| 85V  | 127-18-4   | tetrachloroethene 0.051 U         |
| 86V  | 108-88-3   | toluene 0.001 U                   |
| 87V  | 79-01-6    | trichloroethene 0.001 U           |
| 88V  | 75-01-4    | vinyl chloride 0.001 U            |
| CL13 | 67-64-1    | acetone 0.010 U                   |
| CL14 | 78-93-3    | 2-butanone 0.010 U                |
| CL15 | 75-15-0    | carbonyl disulfide 0.001 U        |
| CL16 | 519-78-6   | 2-hexanone 0.010 U                |
| CL17 | 108-10-1   | 4-methyl-2-pentanone 0.010 U      |
| CL18 | 100-42-5   | styrene 0.001 U                   |
| CL19 | 108-05-4   | vinyl acetate 0.020 U             |
| CL20 | 95-47-6    | total xylenes 0.001 U             |

| PP#  | CAS #      | ug/g                     |
|------|------------|--------------------------|
| 89P  | 309-00-2   | aldrin 2.5 U             |
| 90P  | 60-57-1    | dieldrin 5.0 U           |
| 91P  | 57-74-9    | chlordane 25 U           |
| 92P  | 50-29-3    | 4,4'-DDT 1.0 U           |
| 93P  | 72-55-9    | 4,4'-DDE 5.0 U           |
| 94P  | 72-54-8    | 4,4'-DDD 10 U            |
| 95P  | 115-29-7   | a-endosulfan 5.0 U       |
| 96P  | 115-29-7   | b-endosulfan 5.0 U       |
| 97P  | 1031-07-8  | endosulfan sulfate 1.0 U |
| 98P  | 72-20-8    | endrin 5.0 U             |
| 99P  | 7421-93-4  | endrin aldehyde 1.0 U    |
| 100P | 76-44-8    | heptachlor 2.5 U         |
| 101P | 1024-57-3  | heptachlor epoxide 2.5 U |
| 102P | 319-84-6   | a-BHC 2.5 U              |
| 103P | 319-85-7   | b-BHC 2.5 U              |
| 104P | 319-86-8   | d-BHC 2.5 U              |
| 105P | 58-89-9    | g-BHC (lindane) 2.5 U    |
| 106P | 53469-21-9 | PCB-1242 100 U           |
| 107P | 11097-69-1 | PCB-1254 100 U           |
| 108P | 11104-28-2 | PCB-1221 100 U           |
| 109P | 11141-16-5 | PCB-1232 100 U           |
| 110P | 12672-29-6 | PCB-1248 100 U           |
| 111P | 11096-82-5 | PCB-1260 100 U           |
| 112P | 12674-11-2 | PCB-1016 100 U           |
| 113P | 8001-35-2  | toxaphene 250 U          |

8.4g 10.5ml  
 CONC FACTOR: 8.4g 10.5ml  
 DATE EXTRACTED/PREPARED: 4/24/84  
 DATE ANALYZED: 5/1/84

| PP#  | CAS #     | ug/g                                       |
|------|-----------|--|
| 129B | 1746-01-6 | 2,3,7,8-tetrachloro-dibenzo-p-dioxin 2.5 U |

DIOXINS-FS  
 RESULTS REPORTED IN DRY WEIGHT

*lyjm*

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office  
P.O. BOX 818, Alexandria, Virginia 22313 - 703/557-2490

DATA PREP/RELEASE BY: Kly / 1 / 1/11

SAMPLE NO: J 3479 C. PROPERTY LINE LICK  
PENNAWALT  
APRIL 18, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.  
LAB SAMPLE NO: 54295

CASE NO: 2622/730J  
QC REPORT NO: RED 730J-5  
CONTRACT NO: 68-01-6753

DATE SAMPLE REC'D: 4/19/84  
SAMPLE MATRIX: WATER  
PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
DATE EXTRACTED/PREPARED: 4/20/84  
DATE ANALYZED: 5/24/84  
CONC. FACTOR: 1L/2ml

| PP# | CAS #      | ug/L                         | PP#  | CAS #    | ug/L                       |               |
|-----|------------|------------------------------|------|----------|----------------------------|---------------|
| 21A | 88-05-2    | 2,4,6-trichlorophenol        | 523  | 87-68-3  | hexachlorobutadiene        | 1.0 U         |
| 22A | 59-50-7    | p-chloro-m-cresol            | 539  | 77-47-4  | hexachlorocyclopentadiene  | 1.0 U         |
| 24A | 95-57-8    | 2-chlorophenol               | 548  | 78-59-1  | isophorone                 | 1.0 U         |
| 31A | 120-83-2   | 2,4-dichlorophenol           | 558  | 91-28-5  | naphthalene                | 1.0 U         |
| 34A | 105-67-9   | 2,4-dimethylphenol           | 568  | 98-95-3  | nitrobenzene               | 1.0 U         |
| 57A | 88-75-5    | 2-nitrophenol                | 618  | 62-75-9  | N-nitrosodimethylamine     | 1.0 U         |
| 58A | 100-02-7   | 4-nitrophenol                | 628  | 86-30-6  | N-nitrosodiphenylamine     | 1.0 U         |
| 59A | 51-28-5    | 2,4-dinitrophenol            | 638  | 621-64-7 | N-nitrosodipropylamine     | 1.0 U         |
| 60A | 534-52-1   | 4,6-dinitro-o-cresol         | 668  | 117-81-7 | bis(2-ethylhexyl)phthalate | 1.0 U         |
| 64A | 87-86-5    | pentachlorophenol            | 678  | 85-68-7  | benzyl butyl phthalate     | 1.0 U         |
| 65A | 108-95-2   | phenol                       | 688  | 84-74-2  | di-n-butyl phthalate       | 1.0 U         |
| CL1 | 65-85-0    | benzoic acid                 | 698  | 117-84-0 | di-n-octyl phthalate       | 1.0 U         |
| CL2 | 95-48-7    | 2-methylphenol               | 708  | 84-66-2  | diethyl phthalate          | 1.0 U         |
| CL3 | 108-39-4   | 4-methylphenol               | 718  | 131-11-3 | dimethyl phthalate         | 1.0 U         |
| CL4 | 95-95-4    | 2,4,5-trichlorophenol        | 728  | 56-55-3  | benzo(a)anthracene         | 0.1 U         |
| 1B  | 83-32-9    | acenaphthene                 | 738  | 50-32-8  | benzo(a)pyrene             | 0.1 U         |
| 5B  | 92-87-5    | benzidine                    | 748  | 205-99-2 | benzo(b)fluoranthene       | 0.1 U         |
| 8B  | 120-82-1   | 1,2,4-trichlorobenzene       | 758  | 207-08-9 | benzo(k)fluoranthene       | 0.1 U         |
| 9B  | 118-74-1   | hexachlorobenzene            | 768  | 218-01-9 | chrysene                   | 0.1 U         |
| 12B | 67-72-1    | hexachloroethane             | 778  | 208-96-8 | acenaphthylene             | 0.1 U         |
| 18B | 111-44-4   | bis(2-chloroethyl)ether      | 788  | 120-12-7 | anthracene                 | 0.1 U         |
| 20B | 91-58-7    | 2-chloronaphthalene          | 798  | 191-24-2 | benzo(ghi)perylene         | 0.1 U         |
| 25B | 95-50-1    | 1,2-dichlorobenzene          | 808  | 86-73-7  | fluorene                   | 0.1 U         |
| 26B | 541-73-1   | 1,3-dichlorobenzene          | 818  | 85-01-8  | phenanthrene               | 0.3 <u>µM</u> |
| 27B | 106-46-7   | 1,4-dichlorobenzene          | 828  | 53-70-3  | dibenzo(a,h)anthracene     | 0.1 U         |
| 28B | 91-94-1    | 3,3'-dichlorobenzidine       | 838  | 193-39-5 | indeno(1,2,3-cd)pyrene     | 0.1 U         |
| 35B | 121-14-2   | 2,4-dinitrotoluene           | 848  | 129-00-0 | pyrene                     | 0.2 <u>µM</u> |
| 36B | 606-20-2   | 2,6-dinitrotoluene           | CL5  | 62-53-3  | aniline                    | 1.0 U         |
| 37B | 122-66-7   | 1,2-diphenylhydrazine        | CL6  | 100-51-6 | benzyl alcohol             | 1.0 U         |
| 39B | 206-44-0   | fluoranthene                 | CL7  | 106-47-8 | 4-chloroaniline            | 1.0 U         |
| 40B | 7005-72-3  | 4-chlorophenyl phenyl ether  | CL8  | 132-64-9 | dibenzofuran               | 0.1 U         |
| 41B | 101-55-3   | 4-bromophenyl phenyl ether   | CL9  | 91-57-6  | 2-methylnaphthalene        | 1.0 U         |
| 42B | 39638-32-9 | bis(2-chloroisopropyl) ether | CL10 | 88-74-4  | 2-nitroaniline             | 1.0 U         |
| 43B | 111-91-1   | bis(2-chloroethoxy) methane  | CL11 | 99-09-2  | 3-nitroaniline             | 1.0 U         |
|     |            |                              | CL12 | 100-01-6 | 4-nitroaniline             | 1.0 U         |

ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office  
 x 818, Alexandria, Virginia 22313 - 703/557-2490

PREP/RELEASE BY: Ry cc/ [Signature]

SAMPLE NO: J 3473 E. PROPERTY LINE DITCH  
 PENNWALT  
 APRIL 18, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: California Analytical Labs, Inc. CASE NO: 2622/730J DATE SAMPLE REC'D: 4/19/84  
 LAB SAMPLE NO: S4295 QC REPORT NO: RED 730J-5 SAMPLE MATRIX: WATER  
 CONTRACT NO: 63-01-6733 PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

VOLATILES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE ANALYZED: 4/25/84

PESTICIDES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 4/19/84  
 DATE ANALYZED: 5/10/84  
 CONC FACTOR: 100ml/5ml

| PP#  | CAS #      | ug/L                      | PP#  | CAS # | ug/L       |                    |        |
|------|------------|---------------------------|------|-------|------------|--------------------|--------|
| 2V   | 107-02-8   | acrolein                  | 10 U | 89P   | 309-00-2   | aldrin             | 0.05 U |
| 3V   | 107-13-1   | acrylonitrile             | 10 U | 90P   | 60-57-1    | dieldrin           | 0.05 U |
| 4V   | 71-43-2    | benzene                   | 1 U  | 91P   | 57-74-9    | chlordane          | 0.50 U |
| 6V   | 56-23-5    | carbon tetrachloride      | 1 U  | 92P   | 50-29-3    | 4,4'-DDT           | 0.10 U |
| 7V   | 108-90-7   | chlorobenzene             | 1 U  | 93P   | 72-55-9    | 4,4'-DDE           | 0.05 U |
| 10V  | 107-06-2   | 1,2-dichloroethane        | 1 U  | 94P   | 72-54-8    | 4,4'-DDD           | 0.10 U |
| 11V  | 71-55-6    | 1,1,1-trichloroethane     | 1 U  | 95P   | 115-29-7   | a-endosulfan       | 0.05 U |
| 13V  | 75-34-3    | 1,1-dichloroethane        | 1 U  | 96P   | 115-29-7   | b-endosulfan       | 0.05 U |
| 14V  | 79-00-5    | 1,1,2-trichloroethane     | 1 U  | 97P   | 1031-07-8  | endosulfan sulfate | 0.10 U |
| 15V  | 79-34-5    | 1,1,2,2-tetrachloroethane | 1 U  | 98P   | 72-20-8    | endrin             | 0.05 U |
| 16V  | 75-00-3    | chloroethane              | 1 U  | 99P   | 7421-93-4  | endrin aldehyde    | 0.10 U |
| 19V  | 110-75-8   | 2-chloroethylvinyl ether  | 10 U | 100P  | 76-44-8    | heptachlor         | 0.05 U |
| 23V  | 67-66-3    | chloroform                | 24   | 101P  | 1024-57-3  | heptachlor epoxide | 0.05 U |
| 29V  | 75-35-4    | 1,1-dichloroethene        | 1 U  | 102P  | 319-84-6   | a-BHC              | 0.05 U |
| 30V  | 156-60-5   | trans-1,2-dichloroethene  | 1 U  | 103P  | 319-85-7   | b-BHC              | 0.05 U |
| 32V  | 78-87-5    | 1,2-dichloropropane       | 1 U  | 104P  | 319-86-8   | d-BHC              | 0.05 U |
| 33V  | 10061-02-6 | trans-1,3-dichloropropene | 1 U  | 105P  | 58-89-9    | g-BHC (lindane)    | 0.05 U |
|      | 10061-01-5 | cis-1,3-dichloropropene   | 1 U  | 106P  | 53469-21-9 | PCB-1242           | 0.50 U |
| 38V  | 100-41-4   | ethylbenzene              | 1 U  | 107P  | 11097-69-1 | PCB-1254           | 1.0 U  |
| 44V  | 75-09-2    | methylene chloride        | 1 U  | 108P  | 11104-28-2 | PCB-1221           | 1.0 U  |
| 45V  | 74-87-3    | chloromethane             | 1 U  | 109P  | 11141-16-5 | PCB-1232           | 1.0 U  |
| 46V  | 74-83-9    | bromomethane              | 1 U  | 110P  | 12672-29-6 | PCB-1248           | 1.0 U  |
| 47V  | 75-25-2    | bromoform                 | 1.0M | 111P  | 11096-82-5 | PCB-1260           | 2.0 U  |
| 48V  | 75-27-4    | bromodichloromethane      | 1M   | 112P  | 12674-11-2 | PCB-1016           | 0.50 U |
| 49V  | 75-69-4    | fluorotrichloromethane    | 1 U  | 113P  | 8001-35-2  | toxaphene          | 10 U   |
| 50V  | 75-71-8    | dichlorodifluoromethane   | 1 U  |       |            |                    |        |
| 51V  | 124-48-1   | chlorodibromomethane      | 1M   |       |            |                    |        |
| 85V  | 127-18-4   | tetrachloroethene         | 1.3M |       |            |                    |        |
| 86V  | 108-88-3   | toluene                   | 1 U  |       |            |                    |        |
| 87V  | 79-01-6    | trichloroethene           | 1 U  |       |            |                    |        |
| 88V  | 75-01-4    | vinyl chloride            | 1 U  |       |            |                    |        |
| CL13 | 67-64-1    | acetone                   | 5 U  |       |            |                    |        |
| CL14 | 78-93-3    | 2-butanone                | 5 U  |       |            |                    |        |
| CL15 | 75-15-0    | carbendisulfide           | 1 U  |       |            |                    |        |
| CL16 | 519-78-6   | 2-hexanone                | 5 U  |       |            |                    |        |
| CL17 | 108-10-1   | 4-methyl-2-pentanone      | 5 U  |       |            |                    |        |
| CL18 | 100-42-5   | styrene                   | 1 U  |       |            |                    |        |
| CL19 | 108-05-4   | vinyl acetate             | 5 U  |       |            |                    |        |
| CL20 | 95-47-6    | total xylenes             | 1 U  |       |            |                    |        |

RA 7/2/84

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office  
P.O. BOX 818, Alexandria, Virginia 22313 - 703/557-2490

DATA PREP/RELEASE BY: Kyz, MM

SAMPLE NO: J 4511 E. PROPERTY LINE DITCH  
PENNSYLVANIA  
MAY 17, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.  
LAB SAMPLE NO: 84397

CASE NO: 2790/730J  
GC REPORT NO: RED 730J-6  
CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 5/18/84  
SAMPLE MATRIX: WATER  
PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
DATE EXTRACTED/PREPARED: 5/22/84  
DATE ANALYZED: 6/14/84  
CONC. FACTOR: 1L/2ml

| PP# | CAS #      | ug/L                         | PP#  | CAS #    | ug/L                       |
|-----|------------|------------------------------|------|----------|----------------------------|
| 21A | 88-06-2    | 2,4,6-trichlorophenol        | 528  | 87-68-3  | hexachlorobutadiene        |
| 22A | 59-50-7    | p-chloro-m-cresol            | 538  | 77-47-4  | hexachlorocyclopentadiene  |
| 24A | 95-57-8    | 2-chlorophenol               | 548  | 78-59-1  | isophorone                 |
| 31A | 120-83-2   | 2,4-dichlorophenol           | 558  | 91-28-5  | naphthalene                |
| 34A | 105-67-9   | 2,4-dimethylphenol           | 568  | 98-95-3  | nitrobenzene               |
| 37A | 89-75-5    | 2-nitrophenol                | 618  | 62-75-9  | N-nitrosodimethylamine     |
| 52A | 100-02-7   | 4-nitrophenol                | 628  | 86-30-6  | N-nitrosodiphenylamine     |
| 55A | 51-28-5    | 2,4-dinitrophenol            | 638  | 621-64-7 | N-nitrosodipropylamine     |
| 60A | 534-52-1   | 4,6-dinitro-o-cresol         | 668  | 117-81-7 | bis(2-ethylhexyl)phthalate |
| 64A | 87-86-5    | pentachlorophenol            | 678  | 85-68-7  | benzyl butyl phthalate     |
| 65A | 108-95-2   | phenol                       | 688  | 84-74-2  | di-n-butyl phthalate       |
| CL1 | 65-85-0    | benzoic acid                 | 698  | 117-84-0 | di-n-octyl phthalate       |
| CL2 | 95-48-7    | 2-methylphenol               | 708  | 84-66-2  | diethyl phthalate          |
| CL3 | 108-39-4   | 4-methylphenol               | 718  | 131-11-3 | dimethyl phthalate         |
| CL4 | 95-95-4    | 2,4,5-trichlorophenol        | 728  | 56-55-3  | benzo(a)anthracene         |
| 18  | 83-32-9    | acenaphthene                 | 738  | 50-32-8  | benzo(a)pyrene             |
| 53  | 92-87-5    | benzidine                    | 748  | 205-99-2 | benzo(b)fluoranthene       |
| 58  | 120-82-1   | 1,2,4-trichlorobenzene       | 758  | 207-08-9 | benzo(k)fluoranthene       |
| 93  | 118-74-1   | hexachlorobenzene            | 768  | 218-01-9 | chrysene                   |
| 128 | 67-72-1    | hexachloroethane             | 778  | 208-96-8 | acenaphthylene             |
| 188 | 111-44-4   | bis(2-chloroethyl)ether      | 788  | 120-12-7 | anthracene                 |
| 208 | 91-58-7    | 2-chloronaphthalene          | 798  | 191-24-2 | benzo(ghi)perylene         |
| 258 | 95-50-1    | 1,2-dichlorobenzene          | 808  | 86-73-7  | fluorene                   |
| 278 | 541-73-1   | 1,3-dichlorobenzene          | 818  | 85-01-8  | phenanthrene               |
| 279 | 106-46-7   | 1,4-dichlorobenzene          | 828  | 53-70-3  | dibenzo(a,h)anthracene     |
| 288 | 91-84-1    | 3,3'-dichlorobenzidine       | 838  | 193-39-5 | indeno(1,2,3-cd)pyrene     |
| 358 | 121-14-2   | 2,4-dinitrotoluene           | 848  | 129-00-0 | pyrene                     |
| 358 | 606-20-2   | 2,5-dinitrotoluene           | CL5  | 62-53-3  | aniline                    |
| 378 | 122-66-7   | 1,2-diphenylhydrazine        | CL6  | 100-51-6 | benzyl alcohol             |
| 388 | 206-44-0   | fluoranthene                 | CL7  | 106-47-8 | 4-chloroaniline            |
| 428 | 7005-72-3  | 4-chlorophenyl phenyl ether  | CL8  | 132-64-9 | dibenzofuran               |
| 438 | 101-55-3   | 4-bromophenyl phenyl ether   | CL9  | 91-57-6  | 2-methylnaphthalene        |
| 438 | 39638-32-9 | bis(2-chloroisopropyl) ether | CL10 | 88-74-4  | 2-nitroaniline             |
| 438 | 111-91-1   | bis(2-chloroethoxy) methane  | CL11 | 99-09-2  | 3-nitroaniline             |
|     |            |                              | CL12 | 100-01-6 | 4-nitroaniline             |

GEN COMPOUNDS - FS

FOR DATA REPORTING QUALIFIERS SEE COVER LETTER

RE 7/5/84

01

PREP/RELEASE BY: Ky, NGM

SAMPLE NO: J 4511 E. PROPERTY LINE DITCH  
 PENNAWALT  
 MAY 17, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: California Analytical Labs, Inc. CASE NO: 2790/730J DATE SAMPLE REC'D: 5/18/84  
 LAB SAMPLE NO: 54397 QC REPORT NO: RED 730J-6 SAMPLE MATRIX: WATER  
 CONTRACT NO: 68-01-6763 PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

VOLATILES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE ANALYZED: 5/22/84

PESTICIDES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 5/21/84  
 DATE ANALYZED: 6/21/84  
 CONC FACTOR: 1L/5ml

| PP#  | CAS #      | ug/L                      | PP#  | CAS #      | ug/L               |        |
|------|------------|---------------------------|------|------------|--------------------|--------|
| 2V   | 107-02-8   | acrolein                  | 89P  | 309-00-2   | aldrin             | 0.05 U |
| 3V   | 107-13-1   | acrylonitrile             | 90P  | 60-57-1    | dieldrin           | 0.05 U |
| 4V   | 71-43-2    | benzene                   | 91P  | 57-74-9    | chlordane          | 0.50 U |
| 6V   | 56-23-5    | carbon tetrachloride      | 92P  | 50-29-3    | 4,4'-DDT           | 0.10 U |
| 7V   | 108-90-7   | chlorobenzene             | 93P  | 72-55-9    | 4,4'-DDE           | 0.05 U |
| 10V  | 107-06-2   | 1,2-dichloroethane        | 94P  | 72-54-8    | 4,4'-DDD           | 0.10 U |
| 11V  | 71-55-6    | 1,1,1-trichloroethane     | 95P  | 115-29-7   | a-endosulfan       | 0.05 U |
| 13V  | 75-34-3    | 1,1-dichloroethane        | 96P  | 115-29-7   | b-endosulfan       | 0.05 U |
| 14V  | 79-00-5    | 1,1,2-trichloroethane     | 97P  | 1031-07-8  | endosulfan sulfate | 0.10 U |
| 15V  | 79-34-5    | 1,1,2,2-tetrachloroethane | 98P  | 72-20-8    | endrin             | 0.05 U |
| 16V  | 75-00-3    | chloroethane              | 99P  | 7421-93-4  | endrin aldehyde    | 0.10 U |
| 19V  | 110-75-8   | 2-chloroethylvinyl ether  | 100P | 76-44-8    | heptachlor         | 0.05 U |
| 23V  | 67-66-3    | chloroform                | 101P | 1024-57-3  | heptachlor epoxide | 0.05 U |
| 29V  | 75-35-4    | 1,1-dichloroethene        | 102P | 319-84-6   | a-BHC              | 0.05 U |
| 30V  | 156-60-5   | trans-1,2-dichloroethene  | 103P | 319-85-7   | b-BHC              | 0.05 U |
| 32V  | 78-87-5    | 1,2-dichloropropane       | 104P | 319-86-8   | d-BHC              | 0.05 U |
| 33V  | 10061-02-6 | trans-1,3-dichloropropene | 105P | 58-89-9    | g-BHC (lindane)    | 0.05 U |
|      | 10061-01-5 | cis-1,3-dichloropropene   | 106P | 53469-21-9 | PCB-1242           | 0.50 U |
| 38V  | 100-41-4   | ethylbenzene              | 107P | 1097-69-1  | PCB-1254           | 1.0 U  |
| 44V  | 75-09-2    | methylene chloride        | 108P | 1104-28-2  | PCB-1221           | 1.0 U  |
| 45V  | 74-87-3    | chloromethane             | 109P | 1141-16-5  | PCB-1232           | 1.0 U  |
| 46V  | 74-83-9    | bromomethane              | 110P | 12672-29-6 | PCB-1248           | 1.0 U  |
| 47V  | 75-25-2    | bromoform                 | 111P | 1098-82-5  | PCB-1260           | 2.0 U  |
| 48V  | 75-27-4    | bromodichloromethane      | 112P | 12674-11-2 | PCB-1016           | 0.50 U |
| 49V  | 75-69-4    | fluorotrichloromethane    | 113P | 8001-35-2  | toxaphene          | 10 U   |
| 50V  | 75-71-8    | dichlorodifluoromethane   |      |            |                    |        |
| 51V  | 124-48-1   | chlorodibromomethane      |      |            |                    |        |
| 85V  | 127-18-4   | tetrachloroethene         |      |            |                    |        |
| 86V  | 108-88-3   | toluene                   |      |            |                    |        |
| 87V  | 79-01-6    | trichloroethene           |      |            |                    |        |
| 88V  | 75-01-4    | vinyl chloride            |      |            |                    |        |
| CL13 | 67-64-1    | acetone                   |      |            |                    |        |
| CL14 | 78-93-3    | 2-butanone                |      |            |                    |        |
| CL15 | 75-15-0    | carbendisulfide           |      |            |                    |        |
| CL16 | 519-78-6   | 2-hexanone                |      |            |                    |        |
| CL17 | 108-10-1   | 4-methyl-2-pentanone      |      |            |                    |        |
| CL18 | 109-42-5   | styrene                   |      |            |                    |        |
| CL19 | 108-05-4   | vinyl acetate             |      |            |                    |        |
| CL20 | 95-47-6    | total xylenes             |      |            |                    |        |

9.1

(6) 14

89 7/5/84



U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office  
P.O. BOX 818, Alexandria, Virginia 22313 - 703/557-2490

DATA PREP/RELEASE BY: Kiy , WMA

SAMPLE NO: 3480 BANK SEEPAGE  
PENNWALT  
APRIL 18, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.  
LAB SAMPLE NO: S4295

CASE NO: 2622/730J  
QC REPORT NO: RED 730J-5  
CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 4/19/84  
SAMPLE MATRIX: WATER  
PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
DATE EXTRACTED/PREPARED: 4/20/84  
DATE ANALYZED: 5/24/84  
CONC. FACTOR: 1L/2ml

| PP# | CAS #      | ug/L                               | PP#  | CAS #    | ug/L                             |
|-----|------------|------------------------------------|------|----------|----------------------------------|
| 21A | 88-06-2    | 2,4,6-trichlorophenol 1.0 U        | 52B  | 87-68-3  | hexachlorobutadiene 5.6          |
| 22A | 59-50-7    | p-chloro-m-cresol 1.0 U            | 53B  | 77-47-4  | hexachlorocyclopentadiene 1.0 U  |
| 24A | 95-57-8    | 2-chlorophenol 1.0 U               | 54B  | 78-59-1  | isophorone 1.0 U                 |
| 31A | 120-83-2   | 2,4-dichlorophenol 1.0 U           | 55B  | 91-28-5  | naphthalene 1.0 U                |
| 34A | 105-67-9   | 2,4-dimethylphenol 1.0 U           | 56B  | 98-95-3  | nitrobenzene 1.0 U               |
| 57A | 88-75-5    | 2-nitrophenol 1.0 U                | 61B  | 62-75-9  | N-nitrosodimethylamine 1.0 U     |
| 58A | 100-02-7   | 4-nitrophenol 1.0 U                | 62B  | 86-30-6  | N-nitrosodiphenylamine 1.0 U     |
| 59A | 51-28-5    | 2,4-dinitrophenol 1.0 U            | 63B  | 621-64-7 | N-nitrosodipropylamine 1.0 U     |
| 60A | 534-52-1   | 4,6-dinitro-o-cresol 1.0 U         | 65B  | 117-81-7 | bis(2-ethylhexyl)phthalate 1.0 U |
| 64A | 87-86-5    | pentachlorophenol 1.0 U            | 67B  | 85-68-7  | benzyl butyl phthalate 1.0 U     |
| 65A | 108-95-2   | phenol 1.0 U                       | 68B  | 84-74-2  | di-n-butyl phthalate 1.0 U       |
| CL1 | 65-85-0    | benzoic acid 1.0 U                 | 59B  | 117-84-0 | di-n-octyl phthalate 1.0 U       |
| CL2 | 95-48-7    | 2-methylphenol 1.0 U               | 70B  | 84-66-2  | diethyl phthalate 1.0 U          |
| CL3 | 108-39-4   | 4-methylphenol 1.0 U               | 71B  | 131-11-3 | dimethyl phthalate 1.0 U         |
| CL4 | 95-95-4    | 2,4,5-trichlorophenol 1.0 U        | 72B  | 56-55-3  | benzo(a)anthracene 0.1 U         |
| 1B  | 83-32-9    | acenaphthene 0.1 U                 | 73B  | 50-32-8  | benzo(a)pyrene 0.1 U             |
| 5B  | 92-87-5    | benzidine 1.0 U                    | 74B  | 205-99-2 | benzo(b)fluoranthene 0.1 U       |
| 8B  | 120-82-1   | 1,2,4-trichlorobenzene 1.0 U       | 75B  | 207-08-9 | benzo(k)fluoranthene 0.1 U       |
| 9B  | 118-74-1   | hexachlorobenzene 1.0 U            | 76B  | 218-01-9 | chrysene 0.1 M                   |
| 12B | 67-72-1    | hexachloroethane 110               | 77B  | 208-96-8 | acenaphthylene 0.1 U             |
| 18B | 111-44-4   | bis(2-chloroethyl)ether 1.0 U      | 78B  | 120-12-7 | anthracene 0.1 U                 |
| 20B | 91-58-7    | 2-chloronaphthalene 1.0 U          | 79B  | 191-24-2 | benzo(ghi)perylene 0.1 U         |
| 25B | 95-50-1    | 1,2-dichlorobenzene 1.0 U          | 80B  | 86-73-7  | fluorene 0.1 U                   |
| 26B | 541-73-1   | 1,3-dichlorobenzene 1.0 U          | 81B  | 85-01-8  | phenanthrene 0.2 M               |
| 27B | 105-46-7   | 1,4-dichlorobenzene 1.0 U          | 82B  | 53-70-3  | dibenzo(a,h)anthracene 0.1 U     |
| 28B | 91-94-1    | 3,3'-dichlorobenzidine 1.0 U       | 83B  | 193-39-5 | indeno(1,2,3-cd)pyrene 0.1 U     |
| 35B | 121-14-2   | 2,4-dinitrotoluene 1.0 U           | 84B  | 129-00-0 | pyrene 0.1 M                     |
| 36B | 606-20-2   | 2,6-dinitrotoluene 1.0 U           | CL5  | 62-53-3  | aniline 1.0 U                    |
| 37B | 122-66-7   | 1,2-diphenylhydrazine 1.0 U        | CL6  | 100-51-6 | benzyl alcohol 1.0 U             |
| 39B | 205-44-0   | fluoranthene 0.2 M                 | CL7  | 106-47-8 | 4-chloroaniline 1.0 U            |
| 40B | 7005-72-3  | 4-chlorophenyl phenyl ether 1.0 U  | CL8  | 132-64-9 | dibenzofuran 0.1 U               |
| 41B | 101-55-3   | 4-bromophenyl phenyl ether 1.0 U   | CL9  | 91-57-6  | 2-methylnaphthalene 1.0 U        |
| 42B | 39638-32-9 | bis(2-chloroisopropyl) ether 1.0 U | CL10 | 88-74-4  | 2-nitroaniline 1.0 U             |
| 43B | 111-91-1   | bis(2-chloroethoxy) methane 1.0 U  | CL11 | 99-09-2  | 3-nitroaniline 1.0 U             |
|     |            |                                    | CL12 | 100-01-6 | 4-nitroaniline 1.0 U             |

3N COMPOUNDS - FS

3 DATA REPORTING QUALIFIERS SEE COVER LETTER

PREP/RELEASE BY: Ky cc 1

SAMPLE NO: J 3430 BANK SEEPAGE  
 PENNWALT  
 APRIL 18, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: California Analytical Labs, Inc.  
 LAB SAMPLE NO: S4296

CASE NO: 2622/730J  
 QC REPORT NO: RED 730J-5  
 CONTRACT NO: 68-01-5733

DATE SAMPLE REC'D: 4/19/84  
 SAMPLE MATRIX: WATER  
 PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

VOLATILES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE ANALYZED: 4/26/84

PESTICIDES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 4/19/84  
 DATE ANALYZED: 5/17/84  
 CONC FACTOR: 1000ml/5ml

| PP#  | CAS #      | NAME                      | ug/L        | PP#  | CAS #      | NAME               | ug/L   |
|------|------------|---------------------------|-------------|------|------------|--------------------|--------|
| 2V   | 107-02-8   | acrolein                  | 10 U        | 89P  | 309-00-2   | aldrin             | 0.05 U |
| 3V   | 107-13-1   | acrylonitrile             | 10 U        | 90P  | 60-57-1    | dieldrin           | 0.05 U |
| 4V   | 71-43-2    | benzene                   | 1 U         | 91P  | 57-74-9    | chlordane          | 0.50 U |
| 6V   | 56-23-5    | carbon tetrachloride      | <u>1.1M</u> | 92P  | 50-29-3    | 4,4'-DDT           | 0.10 U |
| 7V   | 108-90-7   | chlorobenzene             | 1 U         | 93P  | 72-55-9    | 4,4'-DDE           | 0.05 U |
| 10V  | 107-06-2   | 1,2-dichloroethane        | 1 U         | 94P  | 72-54-8    | 4,4'-DDD           | 0.10 U |
| 11V  | 71-55-6    | 1,1,1-trichloroethane     | 1 U         | 95P  | 115-29-7   | a-endosulfan       | 0.05 U |
| 13V  | 75-34-3    | 1,1-dichloroethane        | 1 U         | 96P  | 115-29-7   | b-endosulfan       | 0.05 U |
| 14V  | 79-00-5    | 1,1,2-trichloroethane     | 1 U         | 97P  | 1031-07-8  | endosulfan sulfate | 0.10 U |
| 15V  | 79-34-5    | 1,1,2,2-tetrachloroethane | 1 U         | 98P  | 72-20-8    | endrin             | 0.05 U |
| 16V  | 75-00-3    | chloroethane              | 1 U         | 99P  | 7421-93-4  | endrin aldehyde    | 0.10 U |
| 19V  | 110-75-8   | 2-chloroethylvinyl ether  | 10 U        | 100P | 76-44-8    | heptachlor         | 0.05 U |
| 23V  | 67-66-3    | chloroform                | <u>120</u>  | 101P | 1024-57-3  | heptachlor epoxide | 0.05 U |
| 29V  | 75-35-4    | 1,1-dichloroethene        | 1 U         | 102P | 319-84-6   | a-BHC              | 0.05 U |
| 30V  | 156-60-5   | trans-1,2-dichloroethene  | 1 U         | 103P | 319-85-7   | b-BHC              | 0.05 U |
| 32V  | 78-87-5    | 1,2-dichloropropane       | 1 U         | 104P | 319-86-8   | d-BHC              | 0.05 U |
| 33V  | 10061-02-6 | trans-1,3-dichloropropene | 1 U         | 105P | 58-89-9    | g-BHC (lindane)    | 0.05 U |
|      | 10061-01-5 | cis-1,3-dichloropropene   | 1 U         | 106P | 53469-21-9 | PCB-1242           | 0.50 U |
| 35V  | 100-41-4   | ethylbenzene              | 1 U         | 107P | 11097-69-1 | PCB-1254           | 1.0 U  |
| 44V  | 75-09-2    | methylene chloride        | 1 U         | 109P | 11104-28-2 | PCB-1221           | 1.0 U  |
| 45V  | 74-87-3    | chloromethane             | 1 U         | 109P | 11141-16-5 | PCB-1232           | 1.0 U  |
| 46V  | 74-83-9    | bromomethane              | 1 U         | 110P | 12672-29-6 | PCB-1248           | 1.0 U  |
| 47V  | 75-25-2    | bromoform                 | 1 U         | 111P | 11096-82-5 | PCB-1260           | 2.0 U  |
| 48V  | 75-27-4    | bromodichloromethane      | <u>1.5M</u> | 112P | 12674-11-2 | PCB-1016           | 0.50 U |
| 49V  | 75-69-4    | fluorotrichloromethane    | 1 U         | 113P | 8001-35-2  | toxaphene          | 10 U   |
| 50V  | 75-71-8    | dichlorodifluoromethane   | 1 U         |      |            |                    |        |
| 51V  | 124-48-1   | chlorodibromomethane      | 1 U         |      |            |                    |        |
| 85V  | 127-18-4   | tetrachloroethene         | <u>340</u>  |      |            |                    |        |
| 86V  | 108-88-3   | toluene                   | 1 U         |      |            |                    |        |
| 87V  | 79-01-6    | trichloroethene           | 1 U         |      |            |                    |        |
| 88V  | 75-01-4    | vinyl chloride            | 1 U         |      |            |                    |        |
| CL13 | 67-64-1    | acetone                   | <u>4M</u>   |      |            |                    |        |
| CL14 | 78-93-3    | 2-butanone                | 5 U         |      |            |                    |        |
| CL15 | 75-15-0    | carbendisulfide           | 1 U         |      |            |                    |        |
| CL16 | 519-78-6   | 2-hexanone                | 5 U         |      |            |                    |        |
| CL17 | 108-10-1   | 4-methyl-2-pentanone      | 5 U         |      |            |                    |        |
| CL18 | 100-42-5   | styrene                   | 1 U         |      |            |                    |        |
| CL19 | 108-05-4   | vinyl acetate             | 5 U         |      |            |                    |        |
| CL20 | 95-47-6    | total xylenes             | 1 U         |      |            |                    |        |

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