Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde Norton

Sample No: 88-735
Date Sampled: 10/18/88
Date Received: 10/20/88
Date Analyzed: 11/01/88
Report Date: 11/06/88

## REPORT OF ANALYSIS

LOCATION: Monitor WE11 P-1
October Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 1,040 ug/L |
| Phenol | 3,120 |
| 2,4-Dimethylphenol | 1,960 |
| 2,4,6-Trichlorophenol | 14,560 |
| p-Chloro-m-cresol | 1,840 |
| Tetrachlorophenol | <10 |
| 2,4-Dinitrophenol | 14,300 |
| Pentachlorophenol | 18,400 |
| Naphthalene | 1,840 |
| Acenaphthene | 17,800 |
| Phenanthrene + Anthracene | 49,500 |
| Carbazole | 5,880 |
| Fluoranthene | 18,500 |
| Pyrene + Benzo(a)anthracene | 33,000 |
| Chrysene | 2,400 |
| Benzo(b,K)fluoranthene | <10 |
| Benzo(a)pyrene | <10 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (3rd Edition)," Methods 3510, 8040, & 8100.

John Ball, Ph.D.PE

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde Norton

Sample No: 88-707
Date Sampled: 9/30/88
Date Received: 10/6/88
Date Analyzed: 10/12/88
Report Date: 10/16/88

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-1
September Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 410 ug/L |
| Phenol | 369 |
| 2,4-Dimethylphenol | 363 |
| 2,4,6-Trichlorophenol | 324 |
| p-Chloro-m-cresol | 1,120 |
| Tetrachlorophenol | <10 |
| 2,4-Dinitrophenol | 160 |
| Pentachlorophenol | 477 |
| Naphthalene | 219 |
| Acenaphthene | 1,980 |
| Phenanthrene + Anthracene | 6,390 |
| Carbazole | 824 |
| Fluoranthene | 1,930 |
| Pyrene + Benzo(a)anthracene | 207 |
| Chrysene | 600 |
| Benzo(b,K)fluoranthene | <10 |
| Benzo(a)pyrene | <10 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (3rd Edition)," Methods 3510, 8040, & 8100.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde Norton

Sample No: 88-706
Date Sampled: 8/30/88
Date Received: 9/6/88
Date Analyzed: 9/12/88
Report Date: 10/16/88

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-1
August Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 410 ug/L |
| Phenol | 292 |
| 2,4-Dimethylphenol | 284 |
| 2,4,6-Trichlorophenol | 210 |
| p-Chloro-m-cresol | 821 |
| Tetrachlorophenol | <10 |
| 2,4-Dinitrophenol | 157 |
| Pentachlorophenol | 494 |
| Naphthalene | 6,570 |
| Acenaphthene | 1,980 |
| Phenanthrene + Anthracene | 6,320 |
| Carbazole | 792 |
| Fluoranthene | 1,930 |
| Pyrene + Benzo(a)anthracene | 154 |
| Chrysene | 614 |
| Benzo(b,K)fluoranthene | 404 |
| Benzo(a)pyrene | <10 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (3rd Edition)," Methods 3510, 8040, & 8100.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde Norton

Sample No: 88-514
Date Sampled: 7/29/88
Date Received: 8/1/88
Date Analyzed: 8/15/88
Report Date: 8/19/88

## REPORT OF ANALYSIS

LOCATION: Recovery Well P-1
July Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 0.029 mg/L |
| Phenol | 1.620 |
| 2,4-Dimethylphenol | 3.92 |
| 2,4,6-Trichlorophenol | 0.66 |
| p-Chloro-m-cresol | 0.37 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | 6.59 |
| Pentachlorophenol | 1.07 |
| Naphthalene | 0.050 |
| Acenaphthene | <0.01 |
| Phenanthrene + Anthracene | <0.01 |
| Carbazole | 0.05 |
| Fluoranthene | 0.04 |
| Pyrene + Benzo(a)anthracene | 0.01 |
| Chrysene | 0.04 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (3rd Edition)," Methods 3510, 8040, & 8100.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 88-176
Date Sampled: 3/22/88
Date Received: 3/22/88
Report Date: 7/14/88

## REPORT OF ANALYSIS

LOCATION: Monitior Well P-4
Semi-Annual Sampling

| PARAMETERS | RESULTS |
|---|---|
| Total Phenolics | 80 µg/L |
| Naphthalene | <10 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (3rd Edition)," Methods 3510, 8040, & 8100 and STD Methods 16th Edition, Method 510 C.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 88-175
Date Sampled: 3/22/88
Date Received: 3/22/88
Report Date: 7/14/88

## REPORT OF ANALYSIS

LOCATION: Monitior Well MW-2
Semi-Annual Sampling

| PARAMETERS | RESULTS |
|---|---|
| Total Phenolics | 83 µg/L |
| Naphthalene | <10 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (3rd Edition)," Methods 3510, 8040, & 8100 and STD Methods 16th Edition, Method 510 C.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 88-009
Date Sampled: 1/5/88
Date Received: 1/6/8
Report Date: 1/18/88

## REPORT OF ANALYSIS

LOCATION: Well P-1 (Recovery Well)
January Sample

| PARAMETERS | RESULTS | |
|---|---|---|
| K001-Appendix 7 Parameters | | |
| 2-Chlorophenol | 63,700 | ug/L |
| Phenol | 23,200 | |
| 2,4-Dimethylphenol | 26,400 | |
| 2,4,6-Trichlorophenol | 438,000 | |
| p-Chloro-m-cresol | 66,100 | |
| Tetrachlorophenol | <10 | |
| 2,4-Dinitrophenol | <10 | |
| Pentachlorophenol | 368,000 | |
| Naphthalene | 10,400 | |
| Acenaphthene | 61,900 | |
| Phenanthrene + Anthracene | 307,000 | |
| Carbazole | 49,700 | |
| Fluoranthene | 121,000 | |
| Pyrene + Benzo(a)anthracene | 95,000 | |
| Chrysene | 22,900 | |
| Benzo(b,K)fluoranthene | 15,200 | |
| Benzo(a)pyrene | 4,540 | |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 | |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-1032
Date Sampled: 12/29/87
Date Received: 12/30/87
Report Date: 1/18/88

## REPORT OF ANALYSIS

LOCATION: Well P-1 (Recovery Well)
December Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | <10 ug/L |
| Phenol | 15,700 |
| 2,4-Dimethylphenol | 2,690 |
| 2,4,6-Trichlorophenol | 41,500 |
| p-Chloro-m-cresol | <10 |
| Tetrachlorophenol | <10 |
| 2,4-Dinitrophenol | <10 |
| Pentachlorophenol | 45,200 |
| Naphthalene | 46,200 |
| Acenaphthene | 276 |
| Phenanthrene + Anthracene | 35,800 |
| Carbazole | 3,120 |
| Fluoranthene | 13,000 |
| Pyrene + Benzo(a)anthracene | 10,700 |
| Chrysene | <10 |
| Benzo(b,K)fluoranthene | <10 |
| Benzo(a)pyrene | <10 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-914
Date Sampled: 11/12/87
Date Received: 11/12/87
Report Date: 12/22/87

## REPORT OF ANALYSIS

LOCATION: Well P-1 (Recovery Well)
November Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 20,200 ug/L |
| Phenol | 10,900 |
| 2,4-Dimethylphenol | 10,900 |
| 2,4,6-Trichlorophenol | 78,100 |
| p-Chloro-m-cresol | <10 |
| Tetrachlorophenol | <10 |
| 2,4-Dinitrophenol | <10 |
| Pentachlorophenol | 92,500 |
| Naphthalene | 2,040 |
| Acenaphthene | 14,900 |
| Phenanthrene + Anthracene | 45,000 |
| Carbazole | 1,520 |
| Fluoranthene | 18,200 |
| Pyrene + Benzo(a)anthracene | 30,500 |
| Chrysene | 2,760 |
| Benzo(b,K)fluoranthene | 1,220 |
| Benzo(a)pyrene | <10 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-915
Date Sampled: 11/12/87
Date Received: 11/12/87
Report Date: 12/22/87

## REPORT OF ANALYSIS

LOCATION: Well P-2
Special Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 2,090 ug/L |
| Phenol | 1,500 |
| 2,4-Dimethylphenol | 1,410 |
| 2,4,6-Trichlorophenol | 5,830 |
| p-Chloro-m-cresol | 1,300 |
| Tetrachlorophenol | <10 |
| 2,4-Dinitrophenol | <10 |
| Pentachlorophenol | 8,480 |
| Naphthalene | 31 |
| Acenaphthene | 1,010 |
| Phenanthrene + Anthracene | 131 |
| Carbazole | 265 |
| Fluoranthene | 1,560 |
| Pyrene + Benzo(a)anthracene | 3,290 |
| Chrysene | 108 |
| Benzo(b,K)fluoranthene | 169 |
| Benzo(a)pyrene | <10 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-917
Date Sampled: 11/12/87
Date Received: 11/12/87
Report Date: 12/22/87

## REPORT OF ANALYSIS

LOCATION: MW-3
Special Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | <10 ug/L |
| Phenol | <10 |
| 2,4-Dimethylphenol | <10 |
| 2,4,6-Trichlorophenol | <10 |
| p-Chloro-m-cresol | <10 |
| Tetrachlorophenol | <10 |
| 2,4-Dinitrophenol | <10 |
| Pentachlorophenol | <10 |
| Naphthalene | <10 |
| Acenaphthene | <10 |
| Phenanthrene + Anthracene | <10 |
| Carbazole | <10 |
| Fluoranthene | <10 |
| Pyrene + Benzo(a)anthracene | <10 |
| Chrysene | <10 |
| Benzo(b,K)fluoranthene | <10 |
| Benzo(a)pyrene | <10 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-916
Date Sampled: 11/12/87
Date Received: 11/12/87
Report Date: 12/22/87

## REPORT OF ANALYSIS

LOCATION: Well P-3
Special Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | <10 ug/L |
| Phenol | <10 |
| 2,4-Dimethylphenol | <10 |
| 2,4,6-Trichlorophenol | <10 |
| p-Chloro-m-cresol | <10 |
| Tetrachlorophenol | <10 |
| 2,4-Dinitrophenol | <10 |
| Pentachlorophenol | <10 |
| Naphthalene | <10 |
| Acenaphthene | <10 |
| Phenanthrene + Anthracene | <10 |
| Carbazole | <10 |
| Fluoranthene | <10 |
| Pyrene + Benzo(a)anthracene | <10 |
| Chrysene | <10 |
| Benzo(b,K)fluoranthene | <10 |
| Benzo(a)pyrene | <10 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-919
Date Sampled: 11/12/87
Date Received: 11/12/87
Report Date: 12/22/87

REPORT OF ANALYSIS

LOCATION: Monitor Well MW-5
Semi-Annual Sampling

| PARAMETERS | RESULTS |
|---|---|
| Total Phenolics | 43 ug/L |
| Naphthalene | <10 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100 and STD Methods 16th Edition.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-918
Date Sampled: 11/12/87
Date Received: 11/12/87
Report Date: 12/22/87

REPORT OF ANALYSIS

LOCATION: Monitor Well MW-4
Semi-Annual Sampling

| PARAMETERS | RESULTS |
|---|---|
| Total Phenolics | 20 ug/L |
| Naphthalene | <10 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100 and STD Methods 16th Edition.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-878
Date Sampled: 10/6/87
Date Received: 10/7/87
Report Date: 11/12/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-1 October Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 11.1 mg/L |
| Phenol | 9.73 |
| 2,4-Dimethylphenol | 0.44 |
| 2,4,6-Trichlorophenol | 8.77 |
| p-Chloro-m-cresol | <0.01 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | <0.01 |
| Pentachlorophenol | 4.82 |
| Naphthalene | 1.62 |
| Acenaphthene | 3.33 |
| Phenanthrene + Anthracene | 7.11 |
| Carbazole | 0.62 |
| Fluoranthene | 2.77 |
| Pyrene + Benzo(a)anthracene | 4.67 |
| Chrysene | 0.28 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | 0.20 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

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Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-689
Date Sampled: 8/20/87
Date Received: 8/21/87
Report Date: 9/25/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-1 August Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 2.72 mg/L |
| Phenol | 8.77 |
| 2,4-Dimethylphenol | 0.61 |
| 2,4,6-Trichlorophenol | 0.12 |
| p-Chloro-m-cresol | <0.01 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | <0.01 |
| Pentachlorophenol | 0.27 |
| Naphthalene | 10.6 |
| Acenaphthene | 0.22 |
| Phenanthrene + Anthracene | 3.17 |
| Carbazole | 0.15 |
| Fluoranthene | <0.01 |
| Pyrene + Benzo(a)anthracene | 0.19 |
| Chrysene | <0.01 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

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Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-532
Date Sampled: 6/1/87
Date Received: 6/2/87
Report Date: 6/30/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-2 June Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 0.35 mg/L |
| Phenol | 0.03 |
| 2,4-Dimethylphenol | 0.34 |
| 2,4,6-Trichlorophenol | 0.16 |
| p-Chloro-m-cresol | <0.01 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | 37.7 |
| Pentachlorophenol | <0.01 |
| Naphthalene | 0.12 |
| Acenaphthene | 2.05 |
| Phenanthrene + Anthracene | 0.34 |
| Fluoranthene | 0.70 |
| Pyrene + Benzo(a)anthracene | 0.42 |
| Chrysene | 0.03 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Carbazole | 0.02 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

John Ball

John Ball, Ph.D.PE

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Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-533
Date Sampled: 6/1/87
Date Received: 6/2/87
Report Date: 6/30/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well MW-3 June Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 0.11 mg/L |
| Phenol | 0.01 |
| 2,4-Dimethylphenol | 0.02 |
| 2,4,6-Trichlorophenol | <0.01 |
| p-Chloro-m-cresol | <0.01 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | <0.01 |
| Pentachlorophenol | 0.13 |
| Naphthalene | <0.01 |
| Acenaphthene | <0.01 |
| Phenanthrene + Anthracene | 0.01 |
| Fluoranthene | 0.02 |
| Pyrene + Benzo(a)anthracene | 0.02 |
| Chrysene | <0.01 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Carbazole | 0.01 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

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Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-530
Date Sampled: 6/1/87
Date Received: 6/2/87
Report Date: 6/30/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-1 June Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 0.47 mg/L |
| Phenol | 0.51 |
| 2,4-Dimethylphenol | 0.17 |
| 2,4,6-Trichlorophenol | 0.10 |
| p-Chloro-m-cresol | 0.22 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | 5.79 |
| Pentachlorophenol | <0.01 |
| Naphthalene | 0.07 |
| Acenaphthene | 0.04 |
| Phenanthrene + Anthracene | 0.21 |
| Fluoranthene | 0.03 |
| Pyrene + Benzo(a)anthracene | 0.23 |
| Chrysene | <0.01 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Carbazole | 0.03 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

John Ball

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-535
Date Sampled: 5/29/87
Date Received: 5/30/87
Report Date: 6/30/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-2 May Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 0.61 mg/L |
| Phenol | 0.58 |
| 2,4-Dimethylphenol | 0.95 |
| 2,4,6-Trichlorophenol | 1.86 |
| p-Chloro-m-cresol | 0.36 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | 29.5 |
| Pentachlorophenol | <0.01 |
| Naphthalene | 0.06 |
| Acenaphthene | 0.84 |
| Phenanthrene + Anthracene | 0.23 |
| Fluoranthene | 0.57 |
| Pyrene + Benzo(a)anthracene | 0.31 |
| Chrysene | <0.01 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Carbazole | 0.08 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

John Ball

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-536
Date Sampled: 5/29/87
Date Received: 5/30/87
Report Date: 6/30/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well MW-3 May Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 0.01 mg/L |
| Phenol | <0.01 |
| 2,4-Dimethylphenol | 0.03 |
| 2,4,6-Trichlorophenol | 0.03 |
| p-Chloro-m-cresol | <0.01 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | 0.65 |
| Pentachlorophenol | <0.01 |
| Naphthalene | <0.01 |
| Acenaphthene | <0.01 |
| Phenanthrene + Anthracene | 0.02 |
| Fluoranthene | 0.01 |
| Pyrene + Benzo(a)anthracene | 0.02 |
| Chrysene | <0.01 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Carbazole | 0.01 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-534
Date Sampled: 5/29/87
Date Received: 5/30/87
Report Date: 6/30/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-3 May Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 0.03 mg/L |
| Phenol | 0.03 |
| 2,4-Dimethylphenol | 0.02 |
| 2,4,6-Trichlorophenol | <0.01 |
| p-Chloro-m-cresol | 0.10 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | <0.01 |
| Pentachlorophenol | <0.01 |
| Naphthalene | <0.01 |
| Acenaphthene | <0.01 |
| Phenanthrene + Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene + Benzo(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(b,K)fluoranthene | 0.01 |
| Benzo(a)pyrene | <0.01 |
| Carbazole | <0.01 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-465
Date Sampled: 5/14/87
Date Received: 5/15/87
Report Date: 6/30/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-1 May Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 0.63 mg/L |
| Phenol | 2.17 |
| 2,4-Dimethylphenol | 1.93 |
| 2,4,6-Trichlorophenol | 0.16 |
| p-Chloro-m-cresol | 0.04 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | 15.1 |
| Pentachlorophenol | <0.01 |
| Naphthalene | 0.25 |
| Acenaphthene | 0.09 |
| Phenanthrene + Anthracene | 1.10 |
| Fluoranthene | 0.09 |
| Pyrene + Benzo(a)anthracene | 0.18 |
| Chrysene | <0.01 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Carbazole | 0.13 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-327
Date Sampled: 4/20/87
Date Received: 4/20/87
Report Date: 6/30/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-2 April Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 1.01 mg/L |
| Phenol | 2.30 |
| 2,4-Dimethylphenol | 3.68 |
| 2,4,6-Trichlorophenol | 2.77 |
| p-Chloro-m-cresol | 0.41 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | 41.6 |
| Pentachlorophenol | <0.01 |
| Naphthalene | 37.6 |
| Acenaphthene | 11.4 |
| Phenanthrene + Anthracene | 184. |
| Fluoranthene | 21.2 |
| Pyrene + Benzo(a)anthracene | 1.62 |
| Chrysene | 1.87 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Carbazole | 1.98 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-329
Date Sampled: 4/20/87
Date Received: 4/21/87
Report Date: 6/30/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well MW-3 April Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | <0.01 mg/L |
| Phenol | <0.01 |
| 2,4-Dimethylphenol | <0.01 |
| 2,4,6-Trichlorophenol | <0.01 |
| p-Chloro-m-cresol | <0.01 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | <0.01 |
| Pentachlorophenol | <0.01 |
| Naphthalene | <0.01 |
| Acenaphthene | <0.01 |
| Phenanthrene + Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene + Benzo(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Carbazole | <0.01 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

John Ball

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-332
Date Sampled: 4/20/87
Date Received: 4/21/87
Report Date: 6/30/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-1 April Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | 1.51 mg/L |
| Phenol | 4.71 |
| 2,4-Dimethylphenol | 3.10 |
| 2,4,6-Trichlorophenol | 0.22 |
| p-Chloro-m-cresol | 0.17 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | 21.8 |
| Pentachlorophenol | <0.01 |
| Naphthalene | 17.4 |
| Acenaphthene | 0.15 |
| Phenanthrene + Anthracene | 1.54 |
| Fluoranthene | 0.22 |
| Pyrene + Benzo(a)anthracene | 0.10 |
| Chrysene | 0.02 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Carbazole | 0.60 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-331
Date Sampled: 4/20/87
Date Received: 4/21/87
Report Date: 6/30/87

REPORT OF ANALYSIS

LOCATION: Monitor Well P-4

| PARAMETERS | RESULTS |
|---|---|
| Total Phenolics | 1.3 mg/L |
| Naphthalene | 0.282 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100 and STD Methods 16th Edition.

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-330
Date Sampled: 4/20/87
Date Received: 4/21/87
Report Date: 6/30/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well MW-2

| PARAMETERS | RESULTS |
|---|---|
| Total Phenolics | <0.005 mg/L |
| Naphthalene | <0.005 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100 and STD Methods 16th Edition.

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

Colfax Creosoting Company
P.O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 87-328
Date Sampled: 4/20/87
Date Received: 4/21/87
Report Date: 6/30/87

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-3 April Sample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | <0.01 mg/L |
| Phenol | <0.01 |
| 2,4-Dimethylphenol | <0.01 |
| 2,4,6-Trichlorophenol | <0.01 |
| p-Chloro-m-cresol | <0.01 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | <0.01 |
| Pentachlorophenol | <0.01 |
| Naphthalene | <0.01 |
| Acenaphthene | <0.01 |
| Phenanthrene + Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene + Benzo(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Carbazole | <0.01 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (2nd Edition)," Method 8040 & 8100.

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

November 26, 1989

Mr. Dennis Piper
Groundwater Protection Division
P. O. Box 44274
Baton Rouge, LA 70804

RE: Results of Sept., 1989 Monitor Well Sampling for Colfax Creosoting Company, Pineville, LA

Dear Dennis:

Enclosed are the results from the above referenced sampling run. I have also enclosed a well location map marked in red to indicate contaminated wells and yellow marks for clean wells.

Sampling Locations MW-1, P-3, MW-4 and MW-5 indicated no contamination above detection limits as has been the case in the past. On this run MW-2 was clean but MW-3 had some contamination. These wells have alternately shown to be clean or contaminated over the years. As you recall MW-5 was installed downgradient from MW-3 because of this problem. Although it was clean in September, we believe that a well, proposed as MW-7 in my letter to you of October 17, 1989, should be installed downgradient from MW-2. The September sampling showed P-1, P-2, and P-4 to be contaminated as usual.

The company is standing by for your approval to replace clogged piezometers P-1 and P-2 with properly installed recovery wells. They would also like to add new monitor wells MW-6P downgradient from P-4 and MW-7P downgradient from MW-2 at the same time. To check vertical limits of contamination, the company requests approval of a deeper well to the next aquifer or to 100 feet whichever is less nested with one of the new recovery wells.

Please let us know if you have any questions or comments on these recommendations. Colfax is ready to proceed with these steps as soon as we obtain approval from the Department.

Very truly yours,

John Ball

John Ball, Ph.D., P.E.

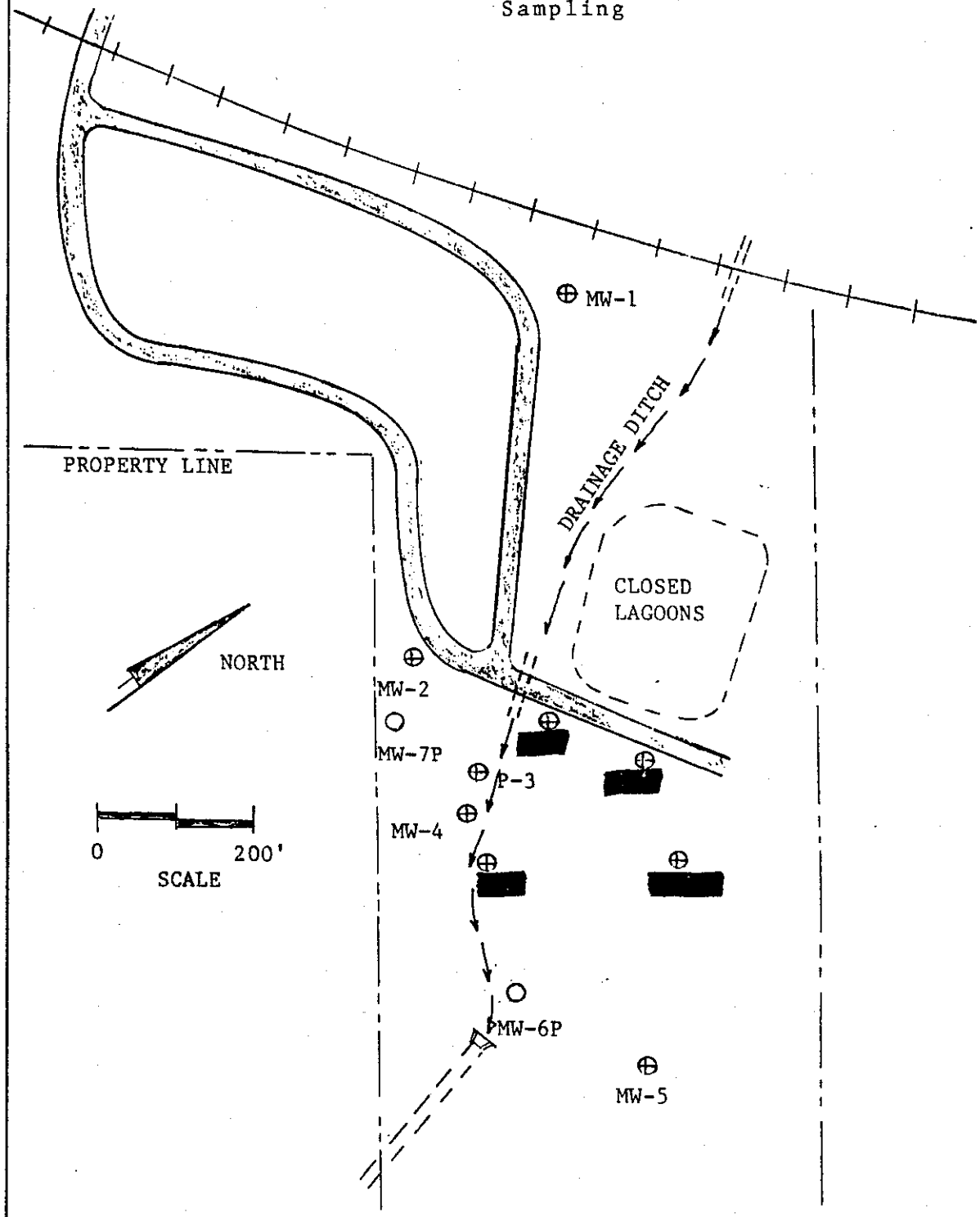
Enclosures

cc: Mr. Clyde M. Norton
Mr. Carl Johnson

23 WOOD MANOR, TUSCALOOSA, ALABAMA 35401 TELEPHONE (205) 349-4142

COLFAX CREOSOTING COMPANY MONITOR WELL
LOCATION MAP

September 14, 1989
Sampling




11/19/89

Ball Engineering, Inc.

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505 601-863-3036

EPORT

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

CLIENT ID. # 89-540 MW-1

| ERIES | DETECTION LIMIT | UNITS |
|---|---|---|
| 5 | 0.005 | mg/l |
| . | 0.01 | mg/l |
| . | 0.01 | mg/l |
| . | 0.01 | mg/l |
| . | 0.01 | mg/l |
| 5 | 0.005 | mg/l |
| | 0.01 | mg/l |
| | 0.01 | mg/l |
| 5 | 0.005 | mg/l |
| . | 0.01 | mg/l |
| . | 0.01 | mg/l |
| . | 0.01 | mg/l |
| . | 0.01 | mg/l |
| l | 0.01 | mg/l |
| l | 0.01 | mg/l |
| l | 0.01 | mg/l |
| l | 0.01 | mg/l |
| l | 0.01 | mg/l |
| 5 | 0.005 | mg/l |
| . | 0.01 | mg/l |
| l | 0.01 | mg/l |
| l | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505 601-863-3036

REPORT

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

CLIENT ID. # 89-541 MW-2

| SERIES | DETECTION LIMIT | UNITS |
|---|---|---|
| 005 | 0.005 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |
| 005 | 0.005 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |
| 005 | 0.005 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |
| 005 | 0.005 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |
| 1 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19686

CLIENT ID. # 89-542 MW-3

| | KO01 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | 0.026 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | 0.014 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19687

CLIENT ID. # 89-543A MW-4

| | K001 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | <0.005 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19688

CLIENT ID. # 89-543B MW-4

| | KO01 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | <0.005 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19689

CLIENT ID. # 89-544 MW-5

| | KO01 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | <0.005 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19690

CLIENT ID. # 89-545 P-3 Well

| | KO01 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | <0.005 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19691

CLIENT ID. # 89-546 Well P-4

| | KO01 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.01 | 0.005 | mg/l |
| 2,4-Dimethylphenol | 0.04 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.02 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.02 | 0.01 | mg/l |
| Pentachlorophenol | 2.0 | 0.01 | mg/l |
| Phenol | <0.01 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.02 | 0.01 | mg/l |
| Tetrachlorophenol | 0.02 | 0.01 | mg/l |
| Acenapthene | 0.26 | 0.005 | mg/l |
| Anthracene | 0.04 | 0.01 | mg/l |
| Benzo(a)anthracene | 0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | 0.19 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | 0.01 | 0.005 | mg/l |
| Phenanthrene | 0.30 | 0.01 | mg/l |
| Pyrene | 0.08 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

Evaluated detection limits were reported due to sample matrix interferences.

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19692

CLIENT ID. # 89-547 Field Blank

| | K001 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | <0.005 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

GROUNDWATER MONITOR WELL SAMPLING LOG

FACILITY: CCC SAMPLING PERIOD: Fall, 89 SAMPLING DATE: 9/14/89

LOCATION: Pineville PARAMETERS: h001 SAMPLER'S NAME: Harrison/Ball

| WELL NUMBER | SAMPLE NUMBER | TOTAL DEPTH* | DEPTH TO WATER* | ONE WELL VOLUME, gal | PURGING METHOD | GALLONS PURGED** | SAMPLING METHOD | TIME SAMPLED |
|---|---|---|---|---|---|---|---|---|
| 1 | 89-540 | 46.5' | 27.33' | 12.5 | pump | 37.5 | PUMP | 10:15 |
| 2* | 89-541 | 56.1' | 24.34' | 21 | BALD | 64 | BALD | 2:15 |
| 3 | 542 | 58.8' | 24.75' | 22 | PUMP | 88 | BALD | 2:00 |
| 4 | 543A 543B | 45.75' | 16.67' | 19 | PUMP | 20 | BALD | 2:30 |
| 5 | 544 | 39.5 | 14.66' | 2.5 | Ded. Bailer | 10.0 | BALD | 12:55 |
| P3 | 545 | 70.9 | 16.12' | 9 | BALD | 36 | BALD | 3:00 |
| P-4 | 546 | 41.6 | 11-1¾" | 2.5 | BALD | 2.5 | BALD | 12:50 |
| FIELD BLANK | 547 | / | / | / | / | / | / | 3:10 |
| | | | | | | | | |
| | | | | | | | | |

*MEASURED FROM THE TOP OF THE PVC CASING **MEASURED TO THE NEAREST 0.5 GALLON

WEATHER CONDITIONS: WARM, HUMID, ~~[illegible]~~ OVERCAST

METHOD OF SHIPMENT TO LAB: TRUCK, COOLER

FIELD OBSERVATIONS: observed creosote stain on new string in well # 2, no stain on bailer

R&R string, NEW BALD IN MW-4

300' TOTAL STRING, 1 ea 4" DBAL, 3 ea ¾ S.S.N., 20 PR LATEX GLOVES, 1 GAL ACETONE

2 GAL DEION $H_2O$

4'-1½" + 37.5

Ball Engineering, Inc.

CHAIN OF CUSTODY

FACILITY: CCC

LOCATION: PINEVILLE, LA

SAMPLER'S SIGNATURE: [signature]

| SAMPLE NUMBER | WELL NUMBER | DATE SAMPLED | TIME SAMPLED | NUMBER OF CONTAINERS | CONTAINER DESCRIPTION | PARAMETERS |
|---|---|---|---|---|---|---|
| 89-540 | 1 | 9-14-89 | 10:15 | 1 | 1000ml TG | K001 |
| 541 | 2 | " | 2:15 | " | " | " |
| 542 | 3 | " | 2:00 | " | " | " |
| 543A | 4 | " | 2:30 | " | " | " |
| 543B | 4 (DUPLICATE) | " | 2:30 ~~2:15~~ | " | " | " |
| 544 | 5 | " | 12:55 | " | " | " |
| 545 | P3 | " | 3:00 | " | " | " |
| 546 | P4 | " | 12:50 | " | " | " |
| 547 | FB | " | 3:10 | " | " | " |
| | | | | | | |

| RELINQUISHED BY: | DATE/TIME | RECEIVED BY: | DATE/TIME | REMARKS: |
|---|---|---|---|---|
| [signature] | 9-16-89 4:30pm | Sue Lokay | 9-16-89 4:30 | |
| RELINQUISHED BY: | DATE/TIME | RECEIVED BY: | DATE/TIME | REMARKS: |
| | | | | |
| RELINQUISHED BY: | DATE/TIME | RECEIVED BY: | DATE/TIME | REMARKS: |
| | | | | |

Ball Engineering, Inc.

LOUISIANA DEPARTMENT
OF ENVIRONMENTAL QUALITY

(COPY)

GENERATOR'S ANNUAL
HAZARDOUS WASTE REPORT

Information submitted in the following report is for calendar year 1988

## SITE IDENTIFICATION

Reporting Facility EPA ID # LAD008184616

Reporting Facility Name Colfax Creosoting Company

## SITE LOCATION

Reporting Facility Location Wadley Road

City or Town Pineville Parish Rapides State LA Zip 71360 Parish Code 079

## SITE MAILING ADDRESS

Reporting Facility Mailing Address P. O. Box 4600

City or Town Pineville, State LA Zip 71360

## REPORT CONTACT

Name Clyde M. Norton
(first) (mi) (last)

Phone Number (318 )442 - 2467 Extension

## REPORT CERTIFICATION

I have personally examined and am familiar with the information submitted in this document, and I hereby certify under penalty of law that this information is true, accurate and complete to the best of my knowledge. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name Clyde M. Norton
(first) (mi) (last)

Title Vice President

Signature Clyde M. Norton Signature Date 3/28/89

FORM A - Cover Sheet/Certification (R-2/89)

LOUISIANA DEPARTMENT
OF ENVIRONMENTAL QUALITY

GENERATOR SUMMARY
FOR DISPOSED WASTE

Information submitted in the following report is for calendar year 1988

Reporting Facility EPA ID # LAD008184616

Disposing Facility EPA ID # NA

Disposing Facility Name NA

Disposing Facility Location NA

City or Town _____ State _____ Zip _____

Summary Totals (By Waste Type)

| EPA Hazardous Waste Number | Handling Method | Total Amount of Waste in Tons (Do NOT Change Reporting Increment) |
|---|---|---|
| NA | NA | None |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

LOUISIANA DEPARTMENT
OF ENVIRONMENTAL QUALITY

GENERATOR SUMMARY
FOR REUSE/RECYCLED WASTE

Information submitted in the following report is for calendar year 1988

Reporting Facility EPA ID # LAD008184616

Reuse/Recycling Facility EPA ID # NA

Reuse/Recycling Facility Name NA

Reuse/Recycling Facility Location NA

City or Town _____ State _____ Zip _____

Summary Totals (By Waste Type)

| EPA Hazardous Waste Number | Total Amount of Waste in Tons (Do NOT Change Reporting Increment) |
|---|---|
| NA | None |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

LOUISIANA DEPARTMENT
OF ENVIRONMENTAL QUALITY

GENERATOR SUMMARY
OF TRANSPORTERS

Transporters listed below were utilized by the generator during calendar year 1988

Reporting Facility EPA ID # LAD008184616

| Transporter Name | Transporter EPA ID # |
|---|---|
| No hazardous waste was generated, transported or disposed by this facility during 1988 | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
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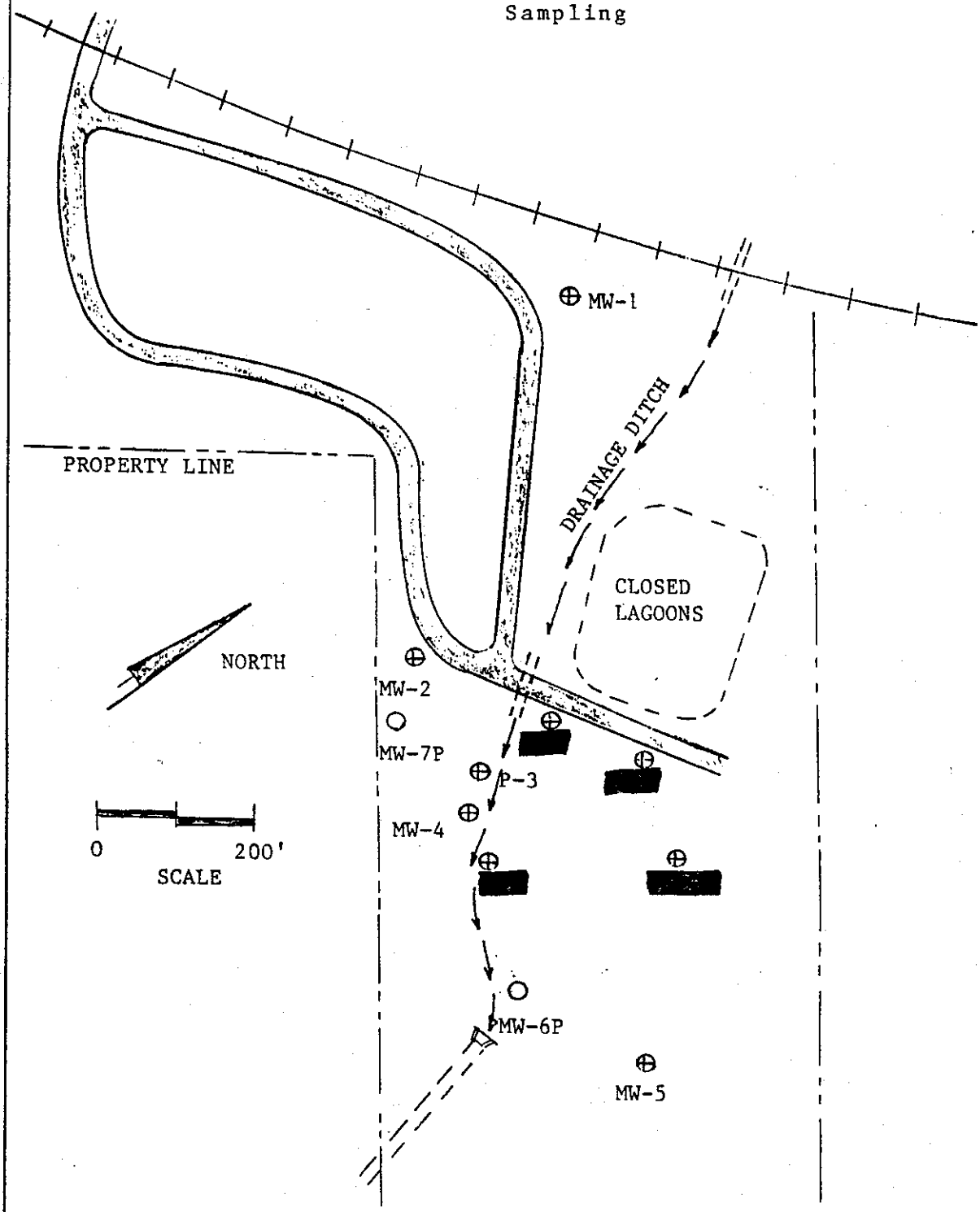
| | |
| | |

COLFAX CREOSOTING COMPANY MONITOR WELL
LOCATION MAP

September 14, 1989
Sampling




11/19/89

Ball Engineering, Inc.

Ball Engineering, Inc.

March 22, 1989

Mr. Clyde M. Norton, Vice President
Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71360

RE: Annual Generator's Hazardous Waste Reports

Dear Mr. Norton:

Please find enclosed the completed Annual Hazardous Waste Reports for Colfax and [redacted] These forms have been completed reflecting the fact that no hazardous waste was generated by the two facilities during last year. Please sign and date the forms and mail them before May 1 to:

Department of Environmental Quality
Hazardous Waste Division
P. O. Box 44307
Baton Rouge, LA 70804

As I indicated to you during our phone conversation on March 22, the Waste Reduction Questionnaire may require a short "plan" which should consist of two or three pages for each plant describing waste reduction efforts. However, I feel, based on conversations with the LDEQ contacts on this issue, that it would be in our best interest to wait awhile before filing the report form or the plan. The LDEQ indicated that they are planning to develop "formats" for these plans and I am to receive some literature concerning these plans, etc. The form and plan carries a June 15, 1989 deadline so we are not pushed for time.

Keep in mind that any "plan" we send will contain the information we discussed over the phone, and not be greatly detailed. This is a new program and currently the LDEQ does not know what it wants other that to generate paperwork.

If you have any questions, please feel free to call.

Sincerely,

Jonathan R. Bonner

Jonathan R. Bonner,
Engineer

encl.

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

LOUISIANA DEPARTMENT
OF ENVIRONMENTAL QUALITY

GENERATOR'S ANNUAL
HAZARDOUS WASTE REPORT

Information submitted in the following report is for calendar year 1988

## SITE IDENTIFICATION

Reporting Facility EPA ID # LAD069524981

Reporting Facility Name Durawood Treating Company

## SITE LOCATION

Reporting Facility Location 1 Koppers Street

City or Town Alexandria Parish Rapides State LA Zip 71301 Parish Code 079

## SITE MAILING ADDRESS

Reporting Facility Mailing Address P. O. Box 4600

City or Town Pineville, State LA Zip 71360

## REPORT CONTACT

Name Clyde M. Norton
(first) (mi) (last)

Phone Number ( 318 ) 442 - 2467 Extension

## REPORT CERTIFICATION

I have personally examined and am familiar with the information submitted in this document, and I hereby certify under penalty of law that this information is true, accurate and complete to the best of my knowledge. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name Clyde M. Norton
(first) (mi) (last)

Title Vice President

Signature Clyde M. Norton Signature Date 3/28/89

FORM A - Cover Sheet/Certification (R-2/89)

LOUISIANA DEPARTMENT
OF ENVIRONMENTAL QUALITY

GENERATOR SUMMARY
FOR DISPOSED WASTE

Information submitted in the following report is for calendar year 1988

Reporting Facility EPA ID # LAD069524981

Disposing Facility EPA ID # NA

Disposing Facility Name NA

Disposing Facility Location NA

City or Town _____ State _____ Zip _____

**Summary Totals** (By Waste Type)

| EPA Hazardous Waste Number | Handling Method | Total Amount of Waste in Tons (Do NOT Change Reporting Increment) |
|---|---|---|
| NA | NA | None |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

LOUISIANA DEPARTMENT
OF ENVIRONMENTAL QUALITY

GENERATOR SUMMARY
FOR REUSE/RECYCLED WASTE

Information submitted in the following report is for calendar year 1988

eporting Facility EPA ID # LAD069524981

euse/Recycling Facility EPA ID # NA

euse/Recycling Facility Name NA

euse/Recycling Facility Location NA

City or Town _____ State _____ Zip _____

mmary Totals (By Waste Type)

| EPA Hazardous Waste Number | Total Amount of Waste in Tons (Do NOT Change Reporting Increment) |
|---|---|
| NA | None |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Mr. Norton

John Ball, Ph.D.
*Professional Engineer*

Solid Waste

Box JB
University, Alabama 35486
Office 205/348-6550
Residence 205/556-1996

August 14, 1981

Mr. Clyde M. Norton, Vice President
Colfax Creosoting Company
P.O. Box 231
Pineville, LA 71360

Dear Clyde:

Enclosed is a draft of the regulation comparison that you asked for the other day. Please consider it a draft only and I shall be happy to add, delete, change as much as you need. When we decide on a finished paper to present, I sure hope that it will do some good. If it doesn't, we may as well move to Mexico.

Also enclosed is a copy of a Personnel Training Program for each plant that needs to be placed in a file at the plant. The plant trainer needs to use the material in the safety program talks. Only those workers having duties with the hazardous waste (someone checking on the ponds, etc.) need receive the extra training. Those individuals must have a form like the one enclosed with the employee name, etc. listing the training obtained. Another form needed in the file is a listing of job descriptions for those individuals. The Certificates are for you or whomever you designate as the one incharge of the training program. Please type in the trainers name before putting the Certificates in the file.

We are also working up a contigency plan checklist to attach to an SPCC plan, if you have one. If you don't have an SPCC plan we can complete one of those also. As soon as this is done, we will give you a call about another visit and get all of this paperwork in order.

Very truly yours,

John

John Ball

# PERSONNEL TRAINING PROGRAM

TO MEET THE REQUIREMENTS OF

FEDERAL EPA REGULATIONS PART 265.16

FOR

OWNERS AND OPERATORS

OF

HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES

PREPARED BY

BALL ENGINEERING

All employees in the treating area and laboratory shall receive hazardous waste training within six months of November 19, 1980, or within six months from the date at which they are hired, assigned to the facility, or assigned to a new position at the facility. A copy of the training records and personnel records shall be kept on file at the plant. The training program and training records shall be updated yearly.

The training program shall include the following:

1. Procedures for using, inspecting, repairing and replacing emergency and monitoring equipment.
2. Key parameters for automatic waste-feed cut-off systems, if installed.
3. Communication and alarm systems.
4. Response to fire or explosions.
5. Response to ground water contamination.
6. Shutdown operations.

A copy of the personnel training program shall be on file at the plant. In addition, the following records shall also be on file at the plant:

1. A job description for each position.
2. Description of training needed for each position.
3. Records documenting employee training. (Shall be kept until closure for current employees, for three years after an employee last works at the facility.)

# TRAINING PROGRAM

1. Emergency and monitoring equipment. All treaters shall be able to perform the following procedures:
   (a) Inspect all valves, pumps and pipes used in the treating process;
   (b) Know the location and determine the charge of all fire extinguishers in the treating area;
   (c) Know the location and operation of all relief valves on the treating cylinders; and
   (d) Know the use of and be able to inspect all treating gauges and groundwater monitoring gauges.

2. Key parameters for automatic waste-feed cut-off systems, if installed.
   (a) Know the current and maximum level to fill each tank; and
   (b) Know the current and maximum level before any waste water or hazardous wastes are pumped to ponds.

3. Communication and alarm systems.

   All employees in the treating area and laboratory shall know the location of the supervisor's telephone number. If any problem or emergency should arise, the supervisor should be notified immediately. All alarm systems, if installed, shall be heeded. The problem causing the alarm shall be determined and reported to the supervisor.

4. Response to fire or explosion.

(a) Creosote or penta fires

Many fires in the creosote and penta plants occur in the door pit area and around the work tank area.

Step No. 1 Stop all treating operations and close all valves.

Step No. 2 Phone fire department and give a brief description of type and location of fire.

Step No. 3 Contact supervisor(s)

Step No. 4 Attempt to keep fire under control until help arrives. If fire is in door pit area and if no electrical equipment is involved, use fog nozzel. Where electrical equipment is involved, first shut off main disconnect at motor control center, then water may be used to extinguish fire.

A fire in a work tank should be treated the same, with the following exceptions: As much water as possible should be directed to the top and sides of the tank to keep it cool. When the fire department arrives, foam should be used to extinguish the fire.

(b) Electrical fires

In the case of an electrical fire where oil is not present or is present in small amounts, first shut off the main disconnect at the Motor Control Center and use a dry chemical fire extinguisher. If this proves to be unsatisfactory, make sure the current is off and use a water fog.

NOTE: Dry Chemical Fire Extinguishers may be used on small oil fires.

5. Response to ground water contamination.

In the event of detection of ground water contamination, all hazardous waste activities will be stopped immediately. Employees will be instructed on the shutdown operations of all hazardous waste activities. All hazardous wastes will be contained until the source of contamination is identified.

6. Shutdown operations.

All employees in the treating area and laboratory will be instructed in complete shutdown operations. A detailed list of instructions shall be posted in the treating room.

| | |
|---|---|
| Step No. 1 | Close main valve on steam line |
| Step No. 2 | Drain gas compressors and vacuum pumps |
| Step No. 3 | Drain all pumps |
| Step No. 4 | Make sure water is running through air compressors |
| Step No. 5 | Make sure any condensor water pumps are running |
| Step No. 6 | Open any steam by-pass valves |
| Step No. 7 | Turn power off to any electric valves and panel boards |
| Step No. 8 | Drain any heat exchangers |
| Step No. 9 | Drain any sump pumps |

GROUNDWATER MONITOR WELL SAMPLING LOG

FACILITY: COLFAX CREOSOTING CO. SAMPLING PERIOD: 1ST HALF '89 SAMPLING DATE: 4-10-89

LOCATION: PINEVILLE, LA PARAMETERS: K SAMPLER'S NAME: HARRISON/WILLIAMS

| WELL NUMBER | SAMPLE NUMBER | TOTAL DEPTH* | DEPTH TO WATER* | ON' | 'NG | GALLONS PURGED** | SAMPLING METHOD | TIME SAMPLED |
|---|---|---|---|---|---|---|---|---|
| MW-2 | 89-277 | 46.5' | 25.50' | | | 15.5 ft | DBAL | 945 |
| MW-4 | 89-278 | 52.5 | 16.25 | | | " | DBAL | 130 |
| MW-5 | 89-279 | 38.5 | 13.41 | | | | DBAL | 1045 |
| P-4 | 89-280 | 40.6 | 10- | | | — | DBAL | 200 |
| P-2 | 89-281 | 57.0 | NA | | | — | P | 400 (4-11-89) |
| P-1 | / | 65.7 | DRY | | | / | / | 900 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

CCC 1989 Well Sampling Logs, Results & Annual Report

*MEASURED FROM THE TOP OF THE PVC CASING **MEASURED TO THE NEAREST 0.5 GALLON

WEATHER CONDITIONS:

METHOD OF SHIPMENT TO LAB:

FIELD OBSERVATIONS: SCREEN PLUGGED IN P-1, NEED TO R&R DBAL IN MW-4. DBAL IN MW-5 NEEDS SSN.

Ball Engineering, Inc.

GROUNDWATER MONITOR WELL SAMPLING LOG

FACILITY: CCC SAMPLING PERIOD: Fall, 89 SAMPLING DATE: 9/14/89

LOCATION: Pineville PARAMETERS: h001 SAMPLER'S NAME: HARRISON/BALL

| WELL NUMBER | SAMPLE NUMBER | TOTAL DEPTH* | DEPTH TO WATER* | ONE WELL VOLUME gal | PURGING METHOD | GALLONS PURGED** | SAMPLING METHOD | TIME SAMPLED |
|---|---|---|---|---|---|---|---|---|
| 1 | 89-540 | 46.5' | 27.33' | 12.5 | pump | 37.5 | PUMP | 10:15 |
| 2* | 89-541 | 56.1' | 24.34' | 21 | BALD | 84 | BALD | 2:15 |
| 3 | 542 | 58.8' | 24.75' | 22 | PUMP | 88 | BALD | 2:00 |
| 4 | 543A 543B | 45.75' | 16.67' | 19 | PUMP | 20 | BALD | 2:30 |
| 5 | 544 | 39.5 | 14.66' | 2.5 | Ded. Bailer | 10.0 | BALD | 12:55 |
| P3 | 545 | 70.9 | 16.12' | 9 | BALD | 36 | BALD | 3:00 |
| P-4 | 546 | 41.6 | 11-1 3/4" | 2.5 | BALD | 2.5 | BALD | 12:50 |
| FIELD BLANK | 547 | / | / | / | / | / | / | 3:10 |
| | | | | | | | | |
| | | | | | | | | |

4'-1 1/2" + 37.5

*MEASURED FROM THE TOP OF THE PVC CASING **MEASURED TO THE NEAREST 0.5 GALLON

WEATHER CONDITIONS: WARM, HUMID, ~~[illegible]~~ OVERCAST

METHOD OF SHIPMENT TO LAB: TRUCK, COOLER

FIELD OBSERVATIONS: observed creosote stain on new string in well #2, no stain on bailer

R&R string, NEW BALD IN MW-4

300' TOTAL STRING, 1 ea 4" DBAL, 3' ea 3/4 S.S.N., 20 PR LATEX GLOVES, 1 GAL ACETONE

2 GAL DEION $H_2O$

Ball Engineering, Inc.

Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

| | |
|---|---|
| Sample No: | 89-277 |
| Date Sampled: | 04/10/89 |
| Date Received: | 04/13/89 |
| Date PAH Analyzed: | 05/10/89 |
| Date Phenol Analyzed: | 04/24/89 |
| Report Date: | 05/31/89 |

## REPORT OF ANALYSIS

LOCATION: Monitor Well MW-2
Semi-Annual Sampling 1st Half 1989

| PARAMETERS | RESULTS | |
|---|---|---|
| K001-Appendix 7 Parameters | | |
| 2-Chlorophenol | 65 | µg/L |
| Phenol | 31 | |
| 2,4-Dimethylphenol | <10 | |
| 2,4,6-Trichlorophenol | 24 | |
| p-Chloro-m-cresol | 22 | |
| Tetrachlorophenol | <10 | |
| 2,4-Dinitrophenol | <10 | |
| Pentachlorophenol | <10 | |
| Naphthalene | 61 | |
| Acenaphthene | 8 | |
| Phenanthrene + Anthracene | <10 | |
| Carbazole | <10 | |
| Fluoranthene | <10 | |
| Pyrene + Benzo(a)anthracene | 8 | |
| Chrysene | <10 | |
| Benzo(b,K)fluoranthene | <10 | |
| Benzo(a)pyrene | <10 | |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 | |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (3rd Edition)," Methods 3510, 8040, & 8100

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

| | |
|---|---|
| Sample No: | 89-278 |
| Date Sampled: | 04/10/89 |
| Date Received: | 04/13/89 |
| Date PAH Analyzed: | 05/10/89 |
| Date Phenol Analyzed: | 04/21/89 |
| Report Date: | 05/31/89 |

## REPORT OF ANALYSIS

LOCATION: Monitor Well MW-4
Semi-Annual Sampling 1st Half 1989

| PARAMETERS | RESULTS | |
|---|---|---|
| K001-Appendix 7 Parameters | | |
| 2-Chlorophenol | <5 | µg/L |
| Phenol | <5 | |
| 2,4-Dimethylphenol | <10 | |
| 2,4,6-Trichlorophenol | <10 | |
| p-Chloro-m-cresol | <10 | |
| Tetrachlorophenol | <10 | |
| 2,4-Dinitrophenol | <10 | |
| Pentachlorophenol | <10 | |
| Naphthalene | <5 | |
| Acenaphthene | <5 | |
| Phenanthrene + Anthracene | <10 | |
| Carbazole | <10 | |
| Fluoranthene | <10 | |
| Pyrene + Benzo(a)anthracene | <10 | |
| Chrysene | <10 | |
| Benzo(b,K)fluoranthene | <10 | |
| Benzo(a)pyrene | <10 | |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 | |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (3rd Edition)," Methods 3510, 8040, & 8100

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

# Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

Sample No: 89-279
Date Sampled: 04/10/89
Date Received: 04/13/89
Date Phenol Analyzed: 04/24/89
Report Date: 05/31/89

## REPORT OF ANALYSIS

LOCATION: Monitor Well MW-5
Semi-Annual Sampling 1st Half 1989

| PARAMETERS | RESULTS | |
|---|---|---|
| K001-Appendix 7 Parameters | | |
| 2-Chlorophenol | <5 | µg/L |
| Phenol | <5 | |
| 2,4-Dimethylphenol | <10 | |
| 2,4,6-Trichlorophenol | <10 | |
| p-Chloro-m-cresol | <10 | |
| Tetrachlorophenol | <10 | |
| 2,4-Dinitrophenol | <10 | |
| Pentachlorophenol | <10 | |
| Naphthalene | <5 | |
| Acenaphthene | <5 | |
| Phenanthrene + Anthracene | <10 | |
| Carbazole | <10 | |
| Fluoranthene | <10 | |
| Pyrene + Benzo(a)anthracene | <10 | |
| Chrysene | <10 | |
| Benzo(b,K)fluoranthene | <10 | |
| Benzo(a)pyrene | <10 | |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 | |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (3rd Edition)," Methods 3510, 8040, & 8100

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

| | |
|---|---|
| Sample No: | 89-280 |
| Date Sampled: | 04/10/89 |
| Date Received: | 04/13/89 |
| Date PAH Analyzed: | 05/10/89 |
| Date Phenol Analyzed: | 04/24/89 |
| Report Date: | 05/31/89 |

## REPORT OF ANALYSIS

LOCATION: Monitor Well P-4
Semi-Annual Sampling 1st Half 1989

| PARAMETERS | RESULTS | |
|---|---|---|
| K001-Appendix 7 Parameters | | |
| 2-Chlorophenol | 293 | µg/L |
| Phenol | 467 | |
| 2,4-Dimethylphenol | 172 | |
| 2,4,6-Trichlorophenol | 1730 | |
| p-Chloro-m-cresol | 399 | |
| Tetrachlorophenol | <10 | |
| 2,4-Dinitrophenol | <10 | |
| Pentachlorophenol | 1800 | |
| Naphthalene | 44 | |
| Acenaphthene | 97 | |
| Phenanthrene + Anthracene | 155 | |
| Carbazole | 17 | |
| Fluoranthene | 44 | |
| Pyrene + Benzo(a)anthracene | 222 | |
| Chrysene | <10 | |
| Benzo(b,K)fluoranthene | <10 | |
| Benzo(a)pyrene | <10 | |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <10 | |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (3rd Edition)," Methods 3510, 8040, & 8100

John Ball, Ph.D.PE

BOX JB, TUSCALOOSA, ALABAMA 35486 • TELEPHONE (205) 349-4142

# Ball Engineering, Inc.

Colfax Creosoting Company
P. O. Box 4600
Pineville, LA 71361
Attn: Mr. Clyde M. Norton

| | |
|---|---|
| Sample No: | 89-471 |
| Date Sampled: | 07/27/89 |
| Date Received: | 07/31/89 |
| Date PAH Analyzed: | 08/01/89 |
| Date Phenol Analyzed: | 08/02/89 |
| Report Date: | 09/05/89 |

## REPORT OF ANALYSIS

LOCATION: MW-2 Resample

| PARAMETERS | RESULTS |
|---|---|
| K001-Appendix 7 Parameters | |
| 2-Chlorophenol | <0.005 mg/L |
| Phenol | <0.005 |
| 2,4-Dimethylphenol | <0.01 |
| 2,4,6-Trichlorophenol | <0.01 |
| p-Chloro-m-cresol | <0.01 |
| Tetrachlorophenol | <0.01 |
| 2,4-Dinitrophenol | <0.01 |
| Pentachlorophenol | <0.01 |
| Naphthalene | <0.005 |
| Acenaphthene | <0.005 |
| Phenanthrene + Anthracene | <0.01 |
| Carbazole | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene + Benzo(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(b,K)fluoranthene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthracene | <0.01 |

METHODS: "Test Methods for the Evaluation of Solid Waste, EPA SW-846 (3rd Edition)," Methods 3510, 8040, & 8100

John Ball, Ph.D.PE

23 WOOD MANOR, TUSCALOOSA, ALABAMA 35401 TELEPHONE (205) 349-4142

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19684

CLIENT ID. # 89-540 MW-1

| | KO01 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | <0.005 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

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P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19685

CLIENT ID. # 89-541 MW-2

| | KO01 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | <0.005 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

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Analytical Laboratories Division

15199 Community Road
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Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19686

CLIENT ID. # 89-542 MW-3

| | KO01 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | 0.026 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | 0.014 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19687

CLIENT ID. # 89-543A MW-4

| | K001 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | <0.005 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
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Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19688

CLIENT ID. # 89-543B MW-4

| | KO01 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | <0.005 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19689

CLIENT ID. # 89-544 MW-5

| | K001 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | <0.005 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

BRUCE BROWN
LABORATORY MANAGER

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

15199 Community Road
P.O. Drawer 2609
Gulfport, MS 39505

601-863-3036

# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19690

CLIENT ID. # 89-545 P-3 Well

| | KO01 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | <0.005 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

APPROVED BY:

Bruce Brown

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# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19691

CLIENT ID. # 89-546 Well P-4

| | K001 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.01 | 0.005 | mg/l |
| 2,4-Dimethylphenol | 0.04 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.02 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.02 | 0.01 | mg/l |
| Pentachlorophenol | 2.0 | 0.01 | mg/l |
| Phenol | <0.01 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.02 | 0.01 | mg/l |
| Tetrachlorophenol | 0.02 | 0.01 | mg/l |
| Acenapthene | 0.26 | 0.005 | mg/l |
| Anthracene | 0.04 | 0.01 | mg/l |
| Benzo(a)anthracene | 0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | 0.19 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | 0.01 | 0.005 | mg/l |
| Phenanthrene | 0.30 | 0.01 | mg/l |
| Pyrene | 0.08 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

Evaluated detection limits were reported due to sample matrix interferences.

APPROVED BY:

Bruce Brown

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# ANALYTICAL REPORT

Ball Engineering, Inc.
23 Wood Manor
Tuscaloosa, Alabama 35401

ATTENTION: Mr. J. E. Ball

DATE SAMPLE RECEIVED: 9/16/89
MONTH COVERED: September, 1989
CLIENT NUMBER: BAL100
SAMPLED BY: Client
FREQUENCY: As Requested
DATE: October 17, 1989

IDENTIFICATION: Water Samples

SAMPLE NUMBER: 19692

CLIENT ID. # 89-547 Field Blank

| | KO01 SERIES | DETECTION LIMIT | UNITS |
|---|---|---|---|
| 2-Chlorophenol | <0.005 | 0.005 | mg/l |
| 2,4-Dimethylphenol | <0.01 | 0.01 | mg/l |
| 2,4-Dinitrophenol | <0.01 | 0.01 | mg/l |
| p-Chloro-m-cresol | <0.01 | 0.01 | mg/l |
| Pentachlorophenol | <0.01 | 0.01 | mg/l |
| Phenol | <0.005 | 0.005 | mg/l |
| 2,4,6-Trichlorophenol | <0.01 | 0.01 | mg/l |
| Tetrachlorophenol | <0.01 | 0.01 | mg/l |
| Acenapthene | <0.005 | 0.005 | mg/l |
| Anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)anthracene | <0.01 | 0.01 | mg/l |
| Benzo(a)pyrene | <0.01 | 0.01 | mg/l |
| Benzo(b)fluoranthene | <0.01 | 0.01 | mg/l |
| Benzo(k)fluoranthene | <0.01 | 0.01 | mg/l |
| Chrysene | <0.01 | 0.01 | mg/l |
| Dibenzo(a,h)anthracene | <0.01 | 0.01 | mg/l |
| Fluorene | <0.01 | 0.01 | mg/l |
| Indeno(1,2,3-cd)pyrene | <0.01 | 0.01 | mg/l |
| Naphthalene | <0.005 | 0.005 | mg/l |
| Phenanthrene | <0.01 | 0.01 | mg/l |
| Pyrene | <0.01 | 0.01 | mg/l |
| Carbazole | <0.01 | 0.01 | mg/l |

APPROVED BY:

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