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S.C. Supreme Court

THE STATE OF SOUTH CAROLINA
In The Supreme Court

APPEAL FROM SUMTER COUNTY
Court of Common Pleas

Honorable Michael Nettles, Circuit Court Judge

Case No. 08-CP-43-00905
Appellate Case No. 2013-001968

BOBBY WAYNE STONE..... Petitioner,

v.

STATE OF SOUTH CAROLINA..... Respondent.

APPENDIX
VOLUME X OF XV

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INDEX

INDEX	i
RECORD ON APPEAL (First Trial 1997)	1
January 28, 1997 (Prepared by Kathleen M. Simmons)	5
Gary Metts (Cross by Littlejohn)	6
Peggy Kubala (Direct by Kolb)	7
Kevin Kubala (Direct by Kolb)	12
Fred Kubala (Direct by Kolb)	14
State's Exhibit #75 (Photo) entered into evidence	22
State's Exhibit #76 (Photo) entered into evidence	22
Leanna Crookshanks (Direct by Kolb)	26
Teresa Kubala (Direct by Kolb)	38
State's Exhibit #77 (Photo) entered into evidence	44
State's Exhibit #78 (Photo) entered into evidence	44
State's Exhibit #79 (Photo) entered into evidence	44
State's Exhibit #80 (Photo) entered into evidence	44
State's Exhibit #81 (Photo) entered into evidence	44
State's Exhibit #82 (Photo) entered into evidence	44
State's Exhibit #83 (Photo) entered into evidence	44
Dr. Harold Morgan (Direct by Littlejohn)	58
Dr. Harold Morgan (Cross by Kolb)	67
Dr. Harold Morgan (Redirect by Littlejohn)	71
Bernice Perry (Direct by Babb)	83
Bernice Perry (Cross by Kolb)	95
Bernice Perry (Redirect by Babb)	96
Tammy Windham (Direct by Babb)	97
Tammy Windham (Cross by Kolb)	101
Melinda Parrott (Direct by Babb)	102
Melinda Parrott (Cross by Kolb)	110
Michelle Lynch (Direct by Babb)	114
Mary Wilson (Direct by Babb)	116
Mary Wilson (Cross by Kolb)	119
Diane Renea Conner (Direct by Babb)	119
Diane Renea Conner (Cross by Kolb)	121
Teanne Oehler (Direct by Littlejohn)	122
Teanne Oehler (Cross by Kolb)	155
Jerry Hyatt (Direct by Littlejohn)	165
Defendant's Exhibit #8 (Checklist) entered into evidence	167
Defendant's Exhibit #9 (Checklist) entered into evidence	167
Defendant's Exhibit #10 (Checklist) entered into evidence	167
Defendant's Exhibit #11 (Checklist) entered into evidence	167
Defendant's Exhibit #12 (Copy of Two Photos) entered into evidence	170
Jerry Hyatt (Cross by Kolb)	171

Denise Lewis (Direct by Kolb)	184
Dr. John Dunlap (Direct by Kolb)	191
Charge of the Court	245
Verdict of the Jury	265
Sentence of the Court	269
January 20, 21 and 22, 1997 (Prepared by Virginia Roland)	272
General Jury Qualification	284
Preliminary Remarks	326
Case Qualification	334
Court's Exhibit #1 (Jury Information) marked for identification	369
Court's Exhibit #2 (Letter from Player) marked for identification	369
Court's Exhibit #3 (Juror Sheet) marked for identification	375
Ora Bowers (Questioning by the Court)	376
Ora Bowers (Questioning by Kolb)	383
Ora Bowers (Questioning by Littlejohn)	388
Vona H. Graham (Questioning by the Court)	395
Vona H. Graham (Questioning by Littlejohn)	397
Teresa I. McDaniel (Questioning by the Court)	400
Connie L. Keegan (Questioning by the Court)	404
Connie L. Keegan (Questioning by Kolb)	411
Connie L. Keegan (Questioning by Littlejohn)	413
Jean S. Pieterse (Questioning by the Court)	418
Jean S. Pieterse (Questioning by Kolb)	425
Jean S. Pieterse (Questioning by Babb)	426
Jean S. Pieterse (Questioning by the Court)	428
Cynthia H. Barnhill (Questioning by the Court)	430
Cynthia H. Barnhill (Questioning by Kolb)	431
Cynthia H. Barnhill (Questioning by Littlejohn)	434
Cynthia H. Barnhill (Questioning by the Court)	438
Cynthia H. Barnhill (Questioning by Kolb)	442
Emily W.B. Sweatman (Questioning by the Court)	446
Emily W.B. Sweatman (Questioning by Kolb)	454
Emily W.B. Sweatman (Questioning by Babb)	455
Barbara J. Stewart (Questioning by the Court)	459
Barbara J. Stewart (Questioning by Kolb)	467
Barbara J. Stewart (Questioning by Littlejohn)	473
Barbara J. Stewart (Questioning by the Court)	477
Krystal M. Radcliffe (Questioning by the Court)	480
Krystal M. Radcliffe (Questioning by Hilliard)	485
Krystal M. Radcliffe (Questioning by Babb)	486
Krystal M. Radcliffe (Questioning by the Court)	490
Brandon E. Cromer (Questioning by the Court)	492
Brandon E. Cromer (Questioning by Littlejohn)	494
Ladonna L. Jordan (Questioning by the Court)	497

Ladonna L. Jordan (Questioning by Hilliard)	502
Ladonna L. Jordan (Questioning by Babb)	505
Tamika A. Gardner (Questioning by the Court)	513
Tamika A. Gardner (Questioning by Williams)	520
Tamika A. Gardner (Questioning by Littlejohn)	521
Joyce H. Gann (Questioning by the Court)	525
Joann Walker (Questioning by the Court)	527
Joann Walker (Questioning by Williams)	535
Joann Walker (Questioning by Littlejohn)	537
Joann Walker (Questioning by the Court)	539
Roger Coles (Questioning by the Court)	543
Roger Coles (Questioning by Littlejohn)	547
Roger Coles (Questioning by Williams)	549
Shirley A. Legette (Questioning by the Court)	553
Shirley A. Legette (Questioning by Williams)	561
Shirley A. Legette (Questioning by Littlejohn)	562
Christopher L. Carroll (Questioning by the Court)	565
Christopher L. Carroll (Questioning by Williams)	570
Christopher L. Carroll (Questioning by Littlejohn)	571
Christopher L. Carroll (Questioning by the Court)	572
Walter L. Frank (Questioning by the Court)	575
Walter L. Frank (Questioning by Littlejohn)	578
Roy A. Goss (Questioning by the Court)	581
Roy A. Goss (Questioning by Kolb)	588
Roy A. Goss (Questioning by Babb)	591
Debra R. Semple (Questioning by the Court)	594
Debra R. Semple (Questioning by Kolb)	600
Debra R. Semple (Questioning by Littlejohn)	601
Janette M. Miller (Questioning by the Court)	603
Janette M. Miller (Questioning by Littlejohn)	606
Jeanetta E. Tindall (Questioning by the Court)	608
Jeanetta E. Tindall (Questioning by Littlejohn)	617
Jeanetta E. Tindall (Questioning by Williams)	620
John V. Singletary (Questioning by the Court)	623
John V. Singletary (Questioning by Kolb)	629
John V. Singletary (Questioning by Littlejohn)	630
David C. McConnell (Questioning by the Court)	634
David C. McConnell (Questioning by Littlejohn)	638
Herbert D. McClary (Questioning by the Court)	641
Herbert D. McClary (Questioning by Kolb)	648
Herbert D. McClary (Questioning by Littlejohn)	649
Donna M. Moss (Questioning by the Court)	655
Donna M. Moss (Questioning by Williams)	662
Donna M. Moss (Questioning by Littlejohn)	663
Sean P. O'Rear (Questioning by the Court)	672

Sean P. O'Rear (Questioning by Williams)	684
Sean P. O'Rear (Questioning by Babb)	685
Matthew Brunson (Questioning by the Court)	690
Matthew Brunson (Questioning by Williams)	696
Matthew Brunson (Questioning by Littlejohn)	699
Matthew Brunson (Questioning by the Court)	702
Matthew Brunson (Questioning by Littlejohn)	703
Betty J. Keesee (Questioning by the Court)	707
Betty J. Keesee (Questioning by Williams)	715
Betty J. Keesee (Questioning by Babb)	716
Joseph K. Gallegos (Questioning by the Court)	722
Joseph K. Gallegos (Questioning by Williams)	731
Joseph K. Gallegos (Questioning by Littlejohn)	733
Joseph K. Gallegos (Questioning by the Court)	735
Joseph K. Gallegos (Questioning by Littlejohn)	736
Ingrid V. Brown (Questioning by the Court)	741
Ingrid V. Brown (Questioning by Williams)	743
Ingrid V. Brown (Questioning by the Court)	745
Sadie M. Jenkins (Questioning by the Court)	748
Sadie M. Jenkins (Questioning by Williams)	754
Sadie M. Jenkins (Questioning by Littlejohn)	756
Dan E. Riegle (Questioning by the Court)	758
Dan E. Riegle (Questioning by Williams)	767
Dan E. Riegle (Questioning by Littlejohn)	770
Priscilla Ann Gore (Questioning by the Court)	774
Priscilla Ann Gore (Questioning by Kolb)	781
Priscilla Ann Gore (Questioning by Babb)	783
Cindy W. Jones (Questioning by the Court)	786
Cindy W. Jones (Questioning by Kolb)	793
Cindy W. Jones (Questioning by Babb)	794
Larry L. Roberts (Questioning by the Court)	798
Larry L. Roberts (Questioning by Kolb)	804
Larry L. Roberts (Questioning by Littlejohn)	804
Gene C. Bratcher (Questioning by the Court)	809
Gene C. Bratcher (Questioning by Kolb)	814
Gene C. Bratcher (Questioning by Babb)	816
Alton Cribb, Jr. (Questioning by the Court)	820
Alton Cribb, Jr. (Questioning by Kolb)	829
Alton Cribb, Jr. (Questioning by Littlejohn)	830
Alton Cribb, Jr. (Questioning by the Court)	834
Patrick M. Collins (Questioning by the Court)	838
Patrick M. Collins (Questioning by Williams)	847
Patrick M. Collins (Questioning by Babb)	850
George O. Phillips (Questioning by the Court)	855
George O. Phillips (Questioning by Kolb)	864

George O. Phillips (Questioning by Littlejohn)	867
George O. Phillips (Questioning by the Court)	868
Dan Lee Hurell (Questioning by the Court)	872
Dan Lee Hurell (Questioning by Kolb)	874
Dan Lee Hurell (Questioning by Babb)	879
Karen L. Graham (Questioning by the Court)	881
Karen L. Graham (Questioning by Kolb)	889
Karen L. Graham (Questioning by Littlejohn)	890
Neomie M. Jordan (Questioning by the Court)	893
Neomie M. Jordan (Questioning by Littlejohn)	896
Marlene C. Deacon (Questioning by the Court)	897
Marlene C. Deacon (Questioning by Kolb)	904
Marlene C. Deacon (Questioning by Littlejohn)	906
Amy White Condon (Questioning by the Court)	912
Amy White Condon (Questioning by Kolb)	919
Amy White Condon (Questioning by Babb)	919
Phillip K. Allen (Questioning by the Court)	926
Phillip K. Allen (Questioning by Kolb)	933
Phillip K. Allen (Questioning by Littlejohn)	934
Clydie B. Thompson (Questioning by the Court)	936
Clydie B. Thompson (Questioning by Williams)	944
Clydie B. Thompson (Questioning by Littlejohn)	945
Carolyn L. Montagne (Questioning by the Court)	947
Carolyn L. Montagne (Questioning by Kolb)	958
Carolyn L. Montagne (Questioning by Littlejohn)	961
Carolyn L. Montagne (Questioning by Kolb)	963
Carolyn L. Montagne (Questioning by the Court)	966
Cecil M. McGee (Questioning by the Court)	970
Cecil M. McGee (Questioning by Williams)	978
Cecil M. McGee (Questioning by Babb)	980
Cecil M. McGee (Questioning by the Court)	983
John K. Crotts (Questioning by the Court)	988
Edward R. Goude (Questioning by the Court)	994
Edward R. Goude (Questioning by Williams)	1002
Edward R. Goude (Questioning by Littlejohn)	1003
Eugenia Maybank (Questioning by the Court)	1006
Eugenia Maybank (Questioning by Kolb)	1017
Eugenia Maybank (Questioning by Babb)	1022
James D. Woodard (Questioning by the Court)	1026
James D. Woodard (Questioning by Kolb)	1032
James D. Woodard (Questioning by Babb)	1035
Glenn D. Yarborough (Questioning by the Court)	1038
Glenn D. Yarborough (Questioning by Kolb)	1050
Glenn D. Yarborough (Questioning by Babb)	1053
Glenn D. Yarborough (Questioning by the Court)	1055

Patricia A. Haynes (Questioning by the Court)	1058
Patricia A. Haynes (Questioning by Williams)	1061
Ruby E. Brockington (Questioning by the Court)	1064
Mary Armstrong (Questioning by the Court)	1070
Mary Armstrong (Questioning by Williams)	1078
Mary Armstrong (Questioning by Babb)	1081
Mary Armstrong (Questioning by the Court)	1083
Mary Armstrong (Questioning by Babb)	1084
Mary Armstrong (Questioning by Williams)	1085
Strike Jury	1099
Court's Exhibit #4 (Strike List) marked for identification	1110
Call Roll of Jury Pool	1115
Impanel Jury	1117
January 20-22, 1997 (Prepared by Debra R. Jernigan)	1123
Swearing of the Jury Pool	1125
Roll Call	1128
General Qualification	1142
Opening Remarks	1165
Ora Bowers (Questioning by the Court)	1205
Ora Bowers (Questioning by Kolb)	1213
Ora Bowers (Questioning by Littlejohn)	1218
Vona Graham (Questioning by the Court)	1224
Vona Graham (Questioning by Littlejohn)	1226
Teresa McDaniel (Questioning by the Court)	1229
Connie Keegan (Questioning by the Court)	1232
Connie Keegan (Questioning by Kolb)	1239
Connie Keegan (Questioning by Littlejohn)	1240
Jean Pieterse (Questioning by the Court)	1245
Jean Pieterse (Questioning by Kolb)	1251
Jean Pieterse (Questioning by Babb)	1252
Jean Pieterse (Questioning by the Court)	1254
Cynthia Barnhill (Questioning by the Court)	1256
Cynthia Barnhill (Questioning by Kolb)	1258
Cynthia Barnhill (Questioning by Littlejohn)	1260
Cynthia Barnhill (Questioning by the Court)	1264
Cynthia Barnhill (Questioning by Kolb)	1268
Emily Sweatman (Questioning by the Court)	1272
Emily Sweatman (Questioning by Kolb)	1280
Emily Sweatman (Questioning by Babb)	1281
Barbara Stewart (Questioning by the Court)	1285
Barbara Stewart (Questioning by Kolb)	1292
Barbara Stewart (Questioning by Littlejohn)	1298
Barbara Stewart (Questioning by the Court)	1302
Krystal Radcliffe (Questioning by the Court)	1304

Krystal Radcliffe (Questioning by Hilliard)	1309
Krystal Radcliffe (Questioning by Babb)	1311
Krystal Radcliffe (Questioning by the Court)	1314
Brandon Cromer (Questioning by the Court)	1315
Brandon Cromer (Questioning by Littlejohn)	1317
Ladonna Jordan (Questioning by the Court)	1319
Ladonna Jordan (Questioning by Hilliard)	1325
Ladonna Jordan (Questioning by Babb)	1327
Tamika Gardner (Questioning by the Court)	1330
Tamika Gardner (Questioning by Kolb)	1338
Tamika Gardner (Questioning by Littlejohn)	1339
Joyce Gann (Questioning by the Court)	1342
Joyce Gann (Questioning by Hilliard)	1350
Joyce Gann (Questioning by Babb)	1352
Joyce Gann (Questioning by Hilliard)	1354
Joyce Gann (Questioning by the Court)	1355
Richard Bourne (Questioning by the Court)	1355
Richard Bourne (Questioning by Kolb)	1361
Richard Bourne (Questioning by Littlejohn)	1363
Danny Lucas (Questioning by the Court)	1366
Norman Williamson (Questioning by the Court)	1372
Norman Williamson (Questioning by Hilliard)	1377
Norman Williamson (Questioning by Littlejohn)	1380
Norman Williamson (Questioning by the Court)	1383
Joann Walker (Questioning by the Court)	1386
Joann Walker (Questioning by Hilliard)	1394
Joann Walker (Questioning by Littlejohn)	1396
Joann Walker (Questioning by the Court)	1399
Roger Coles (Questioning by the Court)	1401
Roger Coles (Questioning by Littlejohn)	1406
Roger Coles (Questioning by Hilliard)	1408
Shirley Legette (Questioning by the Court)	1411
Shirley Legette (Questioning by Hilliard)	1419
Shirley Legette (Questioning by Littlejohn)	1420
Christopher Carroll (Questioning by the Court)	1422
Christopher Carroll (Questioning by Hilliard)	1428
Christopher Carroll (Questioning by Littlejohn)	1429
Christopher Carroll (Questioning by the Court)	1430
Walter Frank (Questioning by the Court)	1432
Walter Frank (Questioning by Littlejohn)	1435
Roy Goss (Questioning by the Court)	1438
Roy Goss (Questioning by Hilliard)	1445
Roy Goss (Questioning by Babb)	1449
Debra Semple (Questioning by the Court)	1452
Debra Semple (Questioning by Kolb)	1458

Debra Semple (Questioning by Littlejohn)	1458
Janette Miller (Questioning by the Court)	1461
Janette Miller (Questioning by Littlejohn)	1463
Jeanetta Tindall (Questioning by the Court)	1465
Jeanetta Tindall (Questioning by Littlejohn)	1475
Jeanetta Tindall (Questioning by Kolb)	1477
John W. Singletary (Questioning by the Court)	1479
John W. Singletary (Questioning by Kolb)	1485
John W. Singletary (Questioning by Littlejohn)	1487
David McConnell (Questioning by the Court)	1490
David McConnell (Questioning by Littlejohn)	1494
Herbert McClary (Questioning by the Court)	1497
Herbert McClary (Questioning by Hilliard)	1504
Herbert McClary (Questioning by Littlejohn)	1505
Donna Moss (Questioning by the Court)	1510
Donna Moss (Questioning by Hilliard)	1522
Donna Moss (Questioning by Littlejohn)	1523
Sean O'Rear (Questioning by the Court)	1531
Sean O'Rear (Questioning by Hilliard)	1542
Sean O'Rear (Questioning by Babb)	1544
Matthew Brunson (Questioning by the Court)	1548
Matthew Brunson (Questioning by Hilliard)	1555
Matthew Brunson (Questioning by Littlejohn)	1557
Matthew Brunson (Questioning by the Court)	1560
Matthew Brunson (Questioning by Littlejohn)	1561
Betty Keesee (Questioning by the Court)	1564
Betty Keesee (Questioning by Hilliard)	1573
Betty Keesee (Questioning by Babb)	1574
Joseph Gallegos (Questioning by the Court)	1579
Joseph Gallegos (Questioning by Kolb)	1588
Joseph Gallegos (Questioning by Littlejohn)	1590
Joseph Gallegos (Questioning by the Court)	1592
Joseph Gallegos (Questioning by Littlejohn)	1593
Ingrid Brown (Questioning by the Court)	1598
Ingrid Brown (Questioning by Kolb)	1600
Sadie Jenkins (Questioning by the Court)	1605
Sadie Jenkins (Questioning by Kolb)	1612
Sadie Jenkins (Questioning by Littlejohn)	1613
Dan Riegle (Questioning by the Court)	1616
Dan Riegle (Questioning by Hilliard)	1626
Dan Riegle (Questioning by Littlejohn)	1628
Priscilla Ann Gore (Questioning by the Court)	1631
Priscilla Ann Gore (Questioning by Kolb)	1639
Priscilla Ann Gore (Questioning by Babb)	1640
Cindy Jones (Questioning by the Court)	1643

Cindy Jones (Questioning by Kolb)	1651
Cindy Jones (Questioning by Babb)	1653
Larry Roberts (Questioning by the Court)	1656
Larry Roberts (Questioning by Kolb)	1662
Larry Roberts (Questioning by Littlejohn)	1662
Gene Bratcher (Questioning by the Court)	1666
Gene Bratcher (Questioning by Kolb)	1673
Gene Bratcher (Questioning by Babb)	1674
Alton Cribb, Jr. (Questioning by the Court)	1678
Alton Cribb, Jr. (Questioning by Kolb)	1688
Alton Cribb, Jr. (Questioning by Littlejohn)	1689
Patrick Collins (Questioning by the Court)	1697
Patrick Collins (Questioning by Hilliard)	1706
Patrick Collins (Questioning by Babb)	1709
George Phillips (Questioning by the Court)	1713
George Phillips (Questioning by Kolb)	1721
George Phillips (Questioning by Littlejohn)	1724
Dan Lee Hurell (Questioning by the Court)	1729
Dan Lee Hurell (Questioning by Kolb)	1731
Dan Lee Hurell (Questioning by Littlejohn)	1735
Karen Graham (Questioning by the Court)	1737
Karen Graham (Questioning by Kolb)	1745
Karen Graham (Questioning by Littlejohn)	1746
Neomie Jordan (Questioning by the Court)	1748
Neomie Jordan (Questioning by Littlejohn)	1751
Marlene Deacon (Questioning by the Court)	1752
Marlene Deacon (Questioning by Kolb)	1759
Marlene Deacon (Questioning by Littlejohn)	1761
Amy White Condon (Questioning by the Court)	1765
Amy White Condon (Questioning by Kolb)	1771
Amy White Condon (Questioning by Babb)	1772
Phillip Allen (Questioning by the Court)	1776
Phillip Allen (Questioning by Kolb)	1783
Phillip Allen (Questioning by Littlejohn)	1785
Clydie Thompson (Questioning by the Court)	1786
Clydie Thompson (Questioning by Kolb)	1795
Clydie Thompson (Questioning by Littlejohn)	1796
Carolyn Montagne (Questioning by the Court)	1797
Carolyn Montagne (Questioning by Kolb)	1808
Carolyn Montagne (Questioning by Littlejohn)	1809
Carolyn Montagne (Questioning by Kolb)	1812
Carolyn Montagne (Questioning by the Court)	1814
Cecil McGee (Questioning by the Court)	1819
Cecil McGee (Questioning by Hilliard)	1825
Cecil McGee (Questioning by Babb)	1828

Cecil McGee (Questioning by the Court)	1830
Edward Crotts (Questioning by the Court)	1834
Edward Goude (Questioning by the Court)	1838
Edward Goude (Questioning by Hilliard)	1846
Edward Goude (Questioning by Littlejohn)	1847
Eugenia Maybank (Questioning by the Court)	1850
Eugenia Maybank (Questioning by Kolb)	1857
Eugenia Maybank (Questioning by Babb)	1862
James D. Woodard (Questioning by the Court)	1865
James D. Woodard (Questioning by Kolb)	1871
James D. Woodard (Questioning by Babb)	1876
Glenn D. Yarborough (Questioning by the Court)	1879
Glenn D. Yarborough (Questioning by Kolb)	1891
Glenn D. Yarborough (Questioning by Babb)	1893
Glenn D. Yarborough (Questioning by the Court)	1895
Patricia Haynes (Questioning by the Court)	1898
Patricia Haynes (Questioning by Kolb)	1901
Ruby Brockington (Questioning by the Court)	1903
Mary Armstrong (Questioning by the Court)	1908
Mary Armstrong (Questioning by Williams)	1916
Mary Armstrong (Questioning by Babb)	1919
Mary Armstrong (Questioning by the Court)	1921
Mary Armstrong (Questioning by Babb)	1922
Mary Armstrong (Questioning by Williams)	1923
Jury Strikes	1936
Roll Call of Jury Pool	1950
Jury Impanelled	1952
June 21, 1996 – Transcript of Arraignment	1957
August 20, 1996 – Motions Hearing	1965
Court's Exhibit #1 (Copies of articles) marked for identification	1970
Court's Exhibit #2 (Affidavits) marked for identification	1972
September 26, 1996 – Motions Hearing	2027
Court's Exhibit #1 (Copy of Newspaper Article) marked for identification	2047
Court's Exhibit #2 (Advertisement, Fund Raiser) marked for identification	2047
January 10, 1997 – Hearing Regarding Jury Excuses	2053
Notice of Intent to Seek the Death Penalty	2097
Indictments	2098
Jury Forms	2100
Report of the Trial Judge	2117
Final Brief of Appellant	2129
Brief of Respondent	2171
South Carolina Supreme Court Opinion	2244
RECORD ON APPEAL (Re-sentencing 2005)	2252
General Jury Qualification	2258
Pinky Walker, Juror 228 (Questioning by the Court)	2340

Juror 228 (Questioning by Saleeby)	2346
Juror 228 (Questioning by Littlejohn)	2349
Juror 228 (Questioning by Saleeby)	2350
Juror 228 (Questioning by Littlejohn)	2351
Ms. Hudson, Juror 95 (Questioning by the Court)	2354
Juror 95 (Questioning by Saleeby)	2358
Juror 95 (Questioning by Littlejohn)	2359
Linda Blue, Juror 20 (Questioning by the Court)	2361
Juror 20 (Questioning by Saleeby)	2365
Ronald A. Beard, Juror 13 (Questioning by the Court)	2367
Juror 13 (Questioning by Saleeby)	2374
Juror 13 (Questioning by Littlejohn)	2381
William Montibono, Juror 150 (Questioning by the Court)	2385
Juror 150 (Questioning by Saleeby)	2390
Juror 150 (Questioning by Littlejohn)	2393
Juror 150 (Questioning by Saleeby)	2396
Bonnie Trainer, Juror 219 (Questioning by the Court)	2398
Juror 219 (Questioning by Saleeby)	2403
Juror 219 (Questioning by Littlejohn)	2403
Betty Bolden, Juror 21 (Questioning by the Court)	2414
Juror 21 (Questioning by Saleeby)	2418
Juror 21 (Questioning by Littlejohn)	2418
Vincent Sims, Juror 195 (Questioning by the Court)	2422
Juror 195 (Questioning by Saleeby)	2427
Juror 195 (Questioning by Littlejohn)	2427
Ricky Labruno, Juror 115 (Questioning by the Court)	2432
Juror 115 (Questioning by Saleeby)	2439
Juror 115 (Questioning Littlejohn)	2442
Heather Roland, Juror 188 (Questioning by the Court)	2444
Juror 188 (Questioning by Saleeby)	2449
Cheryl Benjamin, Juror 15 (Questioning by the Court)	2455
Juror 15 (Questioning by Saleeby)	2459
Juror 15 (Questioning by Littlejohn)	2462
Juror 15 (Questioning by Saleeby)	2465
Juror 15 (Questioning by the Court)	2467
Mr. Sumter, Juror 210 (Questioning by the Court)	2470
Juror 210 (Questioning by Saleeby)	2475
Juror 210 (Questioning by Littlejohn)	2476
Mr. Burgess, Juror 31 (Questioning by the Court)	2482
Juror 31 (Questioning by Saleeby)	2486
Juror 31 (Questioning by Littlejohn)	2487
Unidentified, Juror 33 (Questioning by the Court)	2492
Juror 33 (Questioning by Saleeby)	2499
Juror 33 (Questioning by Babb)	2506
Ms. Sooner, Juror 197 (Questioning by the Court)	2511

Ms. Williamson, Juror 242 (Questioning by the Court)	2514
Juror 242 (Questioning by Jackson)	2520
Juror 242 (Questioning by Babb)	2524
Mr. Holstein, Juror 168 (Questioning by the Court)	2528
Juror 168 (Questioning by Saleeby)	2534
Juror 168 (Questioning by Littlejohn)	2537
Mr. Brody, Juror 24 (Questioning by the Court)	2543
Juror 24 (Questioning by Jackson)	2549
Juror 24 (Questioning by Littlejohn)	2552
Ms. Dowe, Juror 56 (Questioning by the Court)	2557
Juror 56 (Questioning by Jackson)	2563
Juror 56 (Questioning by Littlejohn)	2565
Ms. Drake, Juror 57 (Questioning by the Court)	2570
John McCloud, Juror 140 (Questioning by the Court)	2575
Juror 140 (Questioning by Jackson)	2583
Juror 140 (Questioning by Littlejohn)	2586
Mr. Slater, Juror 198 (Questioning by the Court)	2594
Juror 198 (Questioning by Saleeby)	2599
Juror 198 (Questioning by Babb)	2600
Mr. Tomlin, Juror 218 (Questioning by the Court)	2603
Mr. Cochran, Juror 39 (Questioning by the Court)	2606
Ms. Fulwood, Juror 64 (Questioning by the Court)	2609
Ms. Blanchette, Juror 19 (Questioning by the Court)	2613
Juror 19 (Questioning by Saleeby)	2618
Juror 19 (Questioning by Babb)	2620
Mr. Price, Juror 175 (Questioning by the Court)	2624
Juror 175 (Questioning by Jackson)	2630
Juror 175 (Questioning by Littlejohn)	2632
Emerericiana Ulery, Juror 222 (Questioning by the Court)	2642
Juror 222 (Questioning by Jackson)	2648
Juror 222 (Questioning by Littlejohn)	2650
Ms. Weston, Juror 235 (Questioning by the Court)	2656
Ms. Weeks, Juror 233 (Questioning by the Court)	2658
Juror 233 (Questioning by Saleeby)	2664
Juror 233 (Questioning by Babb)	2665
Mr. Brooks, Juror 26 (Questioning by the Court)	2673
Juror 26 (Questioning by Littlejohn)	2677
Nickie Jones, Juror 110 (Questioning by the Court)	2679
Juror 110 (Questioning by Jackson)	2685
Juror 110 (Questioning by Babb)	2689
Rosada Heriot, Juror 88 (Questioning by the Court)	2694
Juror 88 (Questioning by Jackson)	2698
Juror 88 (Questioning by Babb)	2700
Juror 88 (Questioning by the Court)	2704
Ms. Sanders, Juror 189 (Questioning by the Court)	2706

Juror 189 (Questioning by Jackson)	2711
Juror 189 (Questioning by Babb)	2714
Mr. Harsch, Juror 86 (Questioning by the Court)	2718
Juror 86 (Questioning by Jackson)	2723
Juror 86 (Questioning by Babb)	2725
Ms. Smith, Juror 199 (Questioning by the Court)	2734
Juror 199 (Questioning by Jackson)	2742
Juror 199 (Questioning by Littlejohn)	2744
Ms. Myers, Juror 157 (Questioning by the Court)	2749
Juror 157 (Questioning by Jackson)	2754
Juror 157 (Questioning by Babb)	2760
Mr. Rewis, Juror 180 (Questioning by the Court)	2774
Juror 180 (Questioning by Saleeby)	2779
Juror 180 (Questioning by Babb)	2780
Mr. Copeland, Juror 41 (Questioning by the Court)	2785
Juror 41 (Questioning by Jackson)	2794
Juror 41 (Questioning by Babb)	2799
Jury Selection	2830
Case Called	2863
State's Exhibit #84 (Diagram) entered into evidence	2871
State's Exhibit #85 (Diagram) entered into evidence	2871
State's Exhibit #86 (Diagram) entered into evidence	2871
Opening Statements	2884
Tommy Mims (Direct by Saleeby)	2898
Lillie Britt (Direct by Saleeby)	2907
State's Exhibit #63 (copy of indictment) entered into evidence	2910
State's Exhibit #64 (copy of indictment) entered into evidence	2910
State's Exhibit #65 (copy of indictment) entered into evidence	2910
State's Exhibit #66 (copy of indictment) entered into evidence	2910
State's Exhibit #67 (copy of indictment) entered into evidence	2910
State's Exhibit #68 (copy of indictment) entered into evidence	2910
State's Exhibit #69 (copy of indictment) entered into evidence	2910
Sharon Holland (Direct by Saleeby)	2915
Kathy Miles (Direct by Saleeby)	2923
State's Exhibit #4 (911 tape) played for the jury	2930
Kathy Miles (Cross by Littlejohn)	2930
Mary Ruth Williamson (Direct by Saleeby)	2937
State's Exhibit #56 (coat) entered into evidence	2944
State's Exhibit #13 (gun) entered into evidence	2946
State's Exhibit #6 (photo) entered into evidence	2951
State's Exhibit #9 (photo) entered into evidence	2953
State's Exhibit #8 (photo) entered into evidence	2954
State's Exhibit #15 (photo) entered into evidence	2955
State's Exhibit #10 (photo) entered into evidence	2955
State's Exhibit #12 (photo) entered into evidence	2956

Mary Ruth Williamson (Cross by Babb)	2957
Daniel Bethea (Direct by Saleeby)	2974
Daniel Bethea (Cross by Littlejohn)	2980
Ruth Griffith (previous testimony read into the record)	2984
Landrow Taylor (previous testimony read into the record)	3036
John Prince (Direct by Saleeby)	3058
State's Exhibit #13 (shotgun) entered into evidence	3071
State's Exhibit #31 (photo) entered into evidence	3072
State's Exhibit #19 (photo) entered into evidence	3072
John Prince (Cross by Littlejohn)	3074
John Prince (Redirect by Saleeby)	3079
Gene Edward Hobbs, Jr. (Direct by Saleeby)	3081
State's Exhibit #27 (Smith and Weston nine millimeter) entered into evidence	3091
State's Exhibit #26 (rounds) entered into evidence	3091
Gene Edward Hobbs, Jr. (Cross by Littlejohn)	3100
Fred Powell, Jr. (Direct by Saleeby)	3107
State's Exhibit #40 (photo) entered into evidence	3122
Fred Powell, Jr. (Cross by Littlejohn)	3123
Dana Wingate (Direct by Saleeby)	3129
State's Exhibit #60 (knife) entered into evidence	3134
Dana Wingate (Cross by Littlejohn)	3135
Perry Herod (Direct by Saleeby)	3143
State's Exhibit #1 (advisement of rights form) entered into evidence	3150
State's Exhibit #2 (sketch) entered into evidence	3156
State's Exhibit #3 (written statement) entered into evidence	3157
Perry Herod (Cross by Littlejohn)	3170
Dr. Joel Sexton (Direct by Saleeby)	3177
State's Exhibit #18 (portions of lead bullet) entered into evidence	3190
State's Exhibit #17 (22 long rifle bullet) entered into evidence	3190
Dr. Joel Sexton (Cross by Littlejohn)	3195
Raymond Mackessy (Direct by Saleeby)	3197
State's Exhibits #41-46 (photos of beer cans) entered into evidence	3207
State's Exhibits #40-70 (fired 22-caliber cartridge casing) entered into evidence	3207
State's Exhibit #40 (photo) entered into evidence	3207
State's Exhibits #29 and 30 (photos) entered into evidence	3208
State's Exhibit #35 (photo) entered into evidence	3210
State's Exhibits #53 and 54 (22-caliber cartridge casings) entered into evidence	3211
State's Exhibit #31 (photo) entered into evidence	3212
State's Exhibit #20 (photo) entered into evidence	3212
State's Exhibits #21 and 25 (photos) entered into evidence	3213
State's Exhibit #23 (photo) entered into evidence	3214
State's Exhibit #57 (cut portion of screen) entered into evidence	3218
Thomas Darnell (Direct by Saleeby)	3221

Thomas Darnell (Cross by Babb)	3234
Jeffery Hollifield (Direct by Saleeby)	3244
Jeffry Hollifield (Cross by Babb)	3252
John Barron (Direct by Saleeby)	3259
John Barron (Cross by Babb)	3273
Ira Parnell (Direct by Saleeby)	3275
Ira Parnell (Cross by Littlejohn)	3297
Peggy Kubala (Direct by Jackson)	3309
Ferdinand Kubala (Direct by Jackson)	3317
Kevin Kubala (Direct by Jackson)	3329
Teresa Kubala-Hanvey (Direct by Jackson)	3333
Gary Metts (Direct by Saleeby)	3357
State Rests	3368
Court's Exhibit #1 (death certificate of Mary Etta Wilson)	3376
Defense's Case	3391
Teanne Oehler (Direct by Babb)	3391
Teanne Oehler (Cross by Saleeby)	3414
Teanne Oehler (Redirect by Babb)	3430
Melinda Parrott (Direct by Babb)	3431
Melinda Parrott (Cross by Saleeby)	3451
Elizabeth Perry (Direct by Babb)	3457
Defendant's 5-7 (family photos)	3463
Linda Parrott (Direct by Babb)	3466
Mary Jean Wilson (Direct testimony is read into record by Littlejohn)	3469
Mary Jean Wilson (Cross read into the record by Jackson)	3477
Mary Jean Wilson (Continued testimony read by Littlejohn)	3482
Dr. William Alexander Morton, Jr. (Direct by Babb)	3485
Dr. William Alexander Morton, Jr. (Cross by Jackson)	3509
Dr. William Alexander Morton, Jr. (Redirect by Babb)	3520
James Aiken (Direct by Littlejohn)	3522
James Aiken (Cross Examination)	3537
James Aiken (Redirect by Littlejohn)	3542
State's Closing	3561
Defense's Closing	3581
Jury Charges	3599
Verdict	3630
Defense Motion for Directed Verdict	3635
Sentence	3636
Pre-trial Hearing Transcript (November 2, 2004)	3639
Pre-Trial Hearing Transcript (February 11, 2005)	3670
Pre-Trial Hearing Transcript (February 14, 2005)	3889
Dr, William Stavrou (Direct by Jackson)	3890
Dr. William Stavrou (Cross by Littlejohn)	3902
State's Exhibit #1 (letter)	3898
State's Exhibit #2 (letter)	3901

Letter From Court Reporter Regarding Transcription of Jury Selection (December 15, 2006)	3913
Statutory Instructions	3914
Sentence Form (Jury)	3915
Affirmation of Death	3917
Sentence Form (Judge)	3918
Certificate of Appellant	3919
Final Brief of Appellant	3920
Final Brief of Respondent	3937
Certificate of Counsel	3966
South Carolina Supreme Court Opinion	3969
Petition for Rehearing	3972
Order Denying Petition for Rehearing	3976
Initial Application for Post-Conviction Relief	3978
First Amended Application for Post-Conviction Relief	3985
Second Amended Application for Post-Conviction Relief	3995
Third Amended Application for Post-Conviction Relief	4004
Respondent's Return and Motion to Dismiss	4011
Post-Conviction Relief Hearing Transcript (April 23rd & 24th, 2012)	4075
Opening Remarks	4081
Dr. James Merikangas (Direct by Blume)	4092
Dr. James Merikangas (Cross by Zelenka)	4121
Dr. James Merikangas (Redirect by Blume)	4149
Dr. Howard Becker (Direct by Blume)	4155
Dr. Howard Becker (Cross by Zelenka)	4187
Dr. Arlene Andrews (Direct by Blume)	4196
Dr. Arlene Andrews (Cross by Zelenka)	4243
Joseph Savitz, III (Direct by Lominack)	4254
Joseph Savitz, III (Cross by Simon)	4257
Wayne Hill (Direct by Blume)	4263
Wayne Hill (Cross by Simon)	4301
Wayne Hill (Redirect by Blume)	4317
Wade Kolp (Direct by Zelenka)	4320
Wade Kolp (Cross by Blume)	4338
Wade Kolp (Redirect by Zelenka)	4346
Peter Skidmore (Direct by Blume)	4347
Peter Skidmore (Cross by Simon)	4350
James Babb (Direct by Lominack)	4353
James Babb (Cross by Simon)	4365
James Babb (Redirect by Lominack)	4402
State's Case	4415
Simon Majors, Jr. (Direct by Simon)	4415
Simon Majors, Jr. (Cross by Lominack)	4421
Cecil Jackson (Direct by Simon)	4425
Cecil Jackson (Cross by Blume)	4429

Ira Parnell (Direct by Simon)	4432
Ira Parnell (Cross by Blume)	4441
Ira Parnell (Redirect by Simon)	4446
Post-Conviction Relief Hearing (August 10, 2012)	4450
James Babb (Direct by Lominack)	4455
James Babb (Cross by Simon)	4458
Cameron Littlejohn (Direct by Simon)	4462
Cameron Littlejohn (Cross by Blume)	4486
Jill Rider (Direct by Blume)	4491
Post-Conviction Relief Exhibits	4506
Applicant's Exhibit #1 (Dr. Shine's Affidavit and Report)	4506
Applicant's Exhibit #2 (Dr. Gur's Affidavit and Report)	4511
Applicant's Exhibit #3 (Dr. Bookstein's Affidavit and Report)	4517
Applicant's Exhibit #10 (Dr. Andrews' Curriculum Vita)	4530
Applicant's Exhibit #11 (Dr. Andrew's Charts, Sociogram)	4536
Applicant's Exhibit #12 (Sanatorium Records- Bobby O. Stone)	4079
Applicant's Exhibit #13 (Sanatorium Records- Maybell Stone)	4611
Applicant's Exhibit #14 (Screen Door Diagram)	4651
Applicant's Exhibit #16 (Dr. Harold Morgan's Records)	4652
Applicant's Exhibit #18 (DEHEC- Turkey Creek Records)	4657
Applicant's Exhibit #25 (Death Certificates)	5099
Applicant's Exhibit #26 (Coroner's Report)	5101
Applicant's Exhibit #27 (TB Records)	5108
Applicant's Exhibit #28 (Jerry Stone's Medical Records)	5119
Applicant's Exhibit #29 (Melinda Stone's Medical Records)	5131
Applicant's Exhibit #30 (Tammy Stone's Medical Records)	5199
Applicant's Exhibit #31 (Bobby Stone's School Records)	6438
Applicant's Exhibit #32 (Melinda Stone's School Records)	6457
Applicant's Exhibit #33 (Tammy Stone's School Records)	6475
Applicant's Exhibit #34 (Bobby O. Stone's School Records)	6493
Applicant's Exhibit #35 (Douglas Edwards' Criminal Records)	6496
Applicant's Exhibit #36 (Jerry Edwards' Criminal Records)	6541
Applicant's Exhibit #37 (Terry Edwards' Criminal Records)	6606
Applicant's Exhibit #38 (Baker Floyd's Criminal Records)	6734
Applicant's Exhibit #39 (Walter Floyd's Criminal Records)	6737
Applicant's Exhibit #40 (Michelle Lynch's Criminal Records)	6818
Applicant's Exhibit #41 (Lovia Miles' Criminal Records)	6854
Applicant's Exhibit #42 (Wesley Miles Criminal Records)	6869
Applicant's Exhibit #43 (Melinda Stone Parrott's Criminal Records)	6911
Applicant's Exhibit #44 (Bobby O. Stone's Criminal Records)	6921
Applicant's Exhibit #45 (Anthony Turner's Criminal Records)	6931
Applicant's Exhibit #46 (Thomas Windham's Criminal Records)	7069
Applicant's Exhibit #47 (Social Security Records)	7090
Applicant's Exhibit #48 (Department of Juvenile Justice Records)	7095
Respondent's Exhibit #1 (James Babb's Time Sheets)	7102

Respondent's Exhibit #2 (James Babb's Notes)	7106
Respondent's Exhibits #3 (James Babb's Notes)	7107
Respondent's Exhibit #4 (Interview with Elizabeth Bernice Perry 9/9/96)	7108
Order Substituting Counsel	7110
Applicant's Post-Hearing Brief	7112
Respondent's Post-Trial Brief	7165
Order Denying Post-Conviction Relief	7259
Applicant's Motion to Alter or Amend Judgment	7291
Respondent's Motion to Alter or Amend Judgment	7302
Transcript of Hearing on Motion to Alter or Amend Judgment	7306
Amended Order Denying Post-Conviction Relief	7339
Notice of Appeal	7371

Bobby, we just kind of -- I guess through mutual agreement just kind of, you know, weighed our strengths and weaknesses and our experiences and -- and that sort of thing and so I kind of became the -- the attorney handling the guilt phase and he was going to handle primarily the mitigation phase.

Q: Okay and -- and did y'all put together a -- a team to work with you in the case?

A: Well, we had a number of experts. We had a mitigation specialist or two. We had gentlemen we conferred with about forensics. I'm thinking we had a -- just a private investigator just to do kind of general stuff, and then Mr. Babb, through the mitigation specialist, got some -- some experts to help us with the mitigation part of it.

Q: Have you had an opportunity to -- to review the Application for Post-Conviction Relief in this case?

A: I have.

Q: Okay. I'm now going to just ask you some questions about -- regarding the allegations raised in the application and I'm going to start with an allegation that is raised in -- It's 10 of 11, B(1). It's in regards to the closing argument made during the guilt phase of the first trial.

A: Okay.

Q: First, before I ask, prior to today have you had an opportunity to review the -- the closing argument in that case?

A: I reviewed what is referenced here in the -- in the PCR application, the pages that are referenced there, which were Solicitor Culp's closing argument or -- or a portion of it.

Q: Okay.

MR. SIMON: Your Honor, may I approach the witness?

THE COURT: You may.

Q: All right, Mr. Littlejohn, I'll just hand you Volume 2 of 7 from the first trial.

A: Okay.

Q: And just so you can have that ---

A: Right.

Q: --- to reference.

A: I reviewed it. Yesterday was the last time I reviewed it.

Q: Okay. Now, in -- in that particular testimony or that particular part of the closing argument, would I be correct in saying the solicitor is making an argument that Mr. Stone did not dispose of the gun because he planned on shooting more officers; is that correct?

A: Basically, that's what he kind of implied. Quite frankly, Mr. Culp was -- He was throwing out all these theories and ideas and, you know, you never knew where he was going to kind of come from. If I could put it into context, during the whole course of the trial, I thought Mr. Culp -- or Wade, I've known Wade for years -- was really overreaching in

a lot of ways and he objected numerous times that were sustained. I really thought what he was trying to do was kind of be a little overbearing.

And so when he came through with some of these things, not only did they kind of surprise me, but I -- I didn't feel like there was any evidence to support them. But from the standpoint of -- of letting him go with it because it was closing argument, I didn't know exactly what Judge Dennis would allow or not allow. He had been pretty lenient in that regard. So I didn't object, thinking that actually it might be to our benefit to -- to -- because it was just a further reflection of how overreaching and how hard the State was going at this thing and how they would do anything to get a conviction against -- against Bobby Wayne.

Q: And I guess during the trial, during some of the testimony -- Well, what was y'all's theory or understanding of why Mr. Stone had the pistol when he was arrested?

A: My understanding of why he had it?

Q: Yes.

A: I don't really -- I mean I don't know. Bobby just had it. It was apparently a very nice pistol and he just hung on to it.

Q: Okay.

A: Plus I don't know that Bobby knew what he was doing that night; he was drunk.

Q: Okay and was your argument -- Well, was the information you were trying to get out from individuals that were involved in the -- the takedown of Mr. Stone that he still had the gun because he didn't realize he had shot somebody?

A: I mean -- Rephrase that for me. I don't ---

Q: Okay.

A: I don't quite understand what you're ---

Q: Actually, let me take a step back.

A: Okay.

Q: What was -- In terms of what occurred at the shooting, what was the theory that y'all -- that the defense was operating under in terms of what -- how the shooting occurred?

A: Well, we were operating under the -- the theory that the statement that Bobby gave about the circumstances that night were completely accurate and that's the way it happened. That he was on the porch, he heard a noise, he turned, the gun went off. Unfortunately, Officer Kubala got -- got shot and that, you know, he didn't exactly know what happened. He just took off.

Q: Okay. Now, do you recall if in that statement if Mr. Stone indicated he did not know that anyone was hit when the gun went off?

A: I believe he did. I mean you'd have to look at the statement. The statement is in evidence, but my recollection is that that's what he said. But I mean you can look at the

statement and it obviously will tell you.

Q: I'm going to going ahead and move on to the next one and I might come back. Actually, if you wouldn't mind, could I have you look at page 695 of that transcript?

A: All right.

Q: And I guess read through 695 and 696 and see if that refreshes your recollection.

A: Okay, 695 and 696?

Q: Yes.

A: Okay.

Q: And I guess looking back at his statement, did he indicate that he did not realize somebody had been shot?

A: Yes.

Q: Okay. Now, I'm going to move on to the second issue that's raised in the application of -- regarding the guilt phase, that being an allegation that you did not secure the assistance of a crime scene or other experts. You mentioned earlier that you had hired a forensics guy. Who did you hire?

A: Don Girndt, who is a retired SLED agent in the ballistics department.

Q: And why did you hire Mr. Girndt?

A: Generally where you've got a firearms case, Mr. Girndt can come in and help you either, you know, reconstruct the events or explain to you the mechanism of the weapon involved or the, you know, the trajectories and that sort of thing, and

so that was basically the reason for hiring him.

Q: And what kind of information did he provide to you about how -- I guess about Mr. Stone's version of the case?

A: Well, from the standpoint of corroborating it or -- or not corroborating, he really couldn't -- As I recall, and it's been fifteen years ago, if I recall correctly, there wasn't really a whole lot he could say one way or another. The State's theory was obviously it was an ambush. They were trying to -- You know, they wanted to make it intentional. If it's an ambush, obviously it's intentional.

Our theory and version was that the gun went off accidently and from the standpoint of him reconstructing angles or where Bobby was standing or anything like that, it was -- I mean it could have been either way. So he really wasn't a whole lot of -- From what I recall, Mr. Simon, it wasn't a -- it wasn't a cut and dried thing. It wasn't we could put him up and he'd say definitely this was an accident because Mr. Stone was standing here or he held the gun at this angle or whatever. There was no way to -- no way to tell that.

Q: Okay. Did you consider calling Mr. Girndt to testify?

A: Yes, certainly.

Q: And do you recall why -- why y'all did not have him testify?

A: I think it was for that very reason. We were going to

call him as to the -- the trigger pull and -- and other aspects of the -- of the weapon that was used, but if I remember, I think all that came out through Ira Parnell, who was the SLED expert I believe. I don't -- I can't be for sure on that.

Q: Okay and ---

A: Obviously, the record will tell you.

Q: Okay. Did you ever consider doing a re-enactment of the -- the shooting in court?

A: Mr. Simon, I don't remember. I don't recall. I don't think so.

Q: Okay.

A: I mean we threw out a lot of ideas and -- and different ways of presenting evidence, but I don't -- I don't recall us really discussing that. We may have.

Q: I want to go ahead and move on to the -- the next issue, which is it's asserted that you should have raised a Batson motion at the -- I guess after the jury was selected.

A: Right.

Q: First, what did you think of the jury that you had selected in the first trial?

A: Well, if I -- if I may digress a little bit, because of the publicity, Judge Dennis decided to draw a jury from Georgetown County and I was thinking that the demographics of the -- of the population would be very similar to Sumter until

I -- until I started looking at the jury list and then it -- it kind of dawned on me that we had had an influx of -- of affluent people that had moved into Georgetown County to -- to retire at the beach and such. And so it appeared to me that there were, quite frankly, a lot more Republicans on that list than there would have been on a Sumter County list.

So when we drew this jury, based on the composition of the jury I was pretty satisfied with it because I thought if we -- if we had a -- If we had to re-roll the jury box and pick another jury, we could have come out a lot worse.

Q: Okay. Now, at the time, did you consider making a Batson motion?

A: Certainly. We looked at it and we looked at the composition of the jury. We were satisfied with them. Of course, you know, you've got to look at it both ways.

We also looked at the reasons that the State had struck the five jurors that they struck and whether they could justify that in a racially neutral way and apparently the jurors that they struck, they were concerned about jurors that had had some sort of prior brush with the law or some relative that had been in trouble or something like that and that was pretty prevalent in the -- the jurors that they -- they struck and I can give you a rundown.

You -- You provided me with a list of the -- of the jurors, but the first juror, who was a black male, his son had

had some trouble and he was a minister and I know from my experience as a prosecutor I never wanted a minister on a jury, okay? The second was a black female and she indicated during the voir dire that she might not be able to stand up in court and sign off or endorse a death penalty order and she said generally she would choose life over death.

The third juror that they struck, white female, she was convicted of shoplifting. The fourth juror they struck, who was a black female, her brother was in jail for crack possession, and then the fifth juror, who was a black female, had indicated that she felt that life imprisonment was better than the death penalty.

So I don't know that they didn't have valid reasons for striking those particular jurors or at least racially neutral reasons, but the overwhelming -- the -- the overall factor was I thought we had a good jury from -- from the pool we had to draw from.

Q: All right. Now, I'm going to move to the -- the fourth allegation regarding the -- the guilt phase of this. They say that you and Mr. Babb should have objected to the presence of the number of law enforcement officers that were present in the courtroom. In your view, what was the law enforcement presence like during the first trial?

A: Well, there were -- There were a number of deputy sheriffs in the courtroom, but they were not hovering over us

or sitting right behind us. The courtroom was such that, like a lot of the older courtrooms, there's a -- a petit jury box on one side and a grand jury box on the other side. Most of the deputies were sitting in the grand jury box and were removed in distance from us.

There was usually one deputy that was on the row behind us, but he was kind of away from the table. Obviously, there were deputies coming in and out over on the solicitor's side just by virtue of -- of their witnesses coming in and out and -- and deputies that were, you know, friends of Deputy Kubala that were interested in the trial.

I didn't feel like it was overbearing at the time. I think Judge Dennis, who was very attuned to things like that, would have -- would have said something or done something if he felt it was overbearing. So I didn't really -- I didn't perceive it as being something that -- that would have upset the jury or made them, you know, think less of -- of Mr. Stone.

Q: Now, I'm going to move on to the -- the fifth issue. They assert that -- Well, Mr. Stone is now asserting that you and Mr. Babb should have objected to the use of shackles during the -- the first trial. First, do you recall Mr. Stone being shackled during the first trial at any point?

A: Well, I was trying to think. Of course, we drew the jury in Georgetown and, quite frankly, I can't remember him being

shackled over there. If he was, I know I have always been very particular about that and I would have made sure that he came in the courtroom and -- and, you know, the jurors were unable to see anything like ankle chains or anything of that nature, but I don't recall exactly what he was wearing.

Now, in Sumter, I remember specifically that they had outfitted him with this special shackle mechanism that came up under his pants and you couldn't see it at all, but it prevented him from walking fast or running and so there really wasn't anything to see at that time, if my recollection serves me correctly.

Q: And -- And in terms of Mr. Stone's movement, would he ever be moved in the presence of the jury?

A: To my recollection, no. I mean he would -- He would be at -- They would bring him in and he would sit at the table. They'd bring in the jury. When he got ready to recess, the jury would leave and then he would get up and -- and go with the guards.

Q: Okay. Now, I'm going to move on to the second trial, but before we get into the issues, can you recall did y'all have any discussions about changing how you wanted to handle the second trial?

A: How ---

Q: I guess in terms of delineating duties.

A: We stuck basically with the same format even though the

guilt or innocence phase we were not trying because of the Supreme Court ruling. Still, the State was putting up evidence concerning the circumstances under which Bobby had been found guilty so I again kind of mainly handled that and Jim mainly handled mitigation even though I think I took some witnesses during mitigation and he took some witnesses during the guilt and innocence phase.

Q: And ---

A: If that's the appropriate term.

Q: Okay and do you recall that there were -- there were some changes in the defense team?

A: You mean from the standpoint of attorneys?

Q: Well, from the standpoint of -- of experts that you may have hired.

A: I'm trying to think, Mr. Simon. There were and I can't exactly recall who it -- what the changes were.

Q: Okay. First, did -- Did y'all have different mitigation specialists than from the first trial? Do you recall?

A: I don't exactly remember to be quite frank with you.

Q: Well ---

A: There have been a lot of trials since then, okay?

Q: Okay. Well -- Well, let me -- let me ask it in this way. I'm going to give you a name and you tell me if you recall if they were on your team for the second trial. First, did y'all retain Mr. Girndt for ---

THE COURT: Mr. Simon, do you know who testified in which?

MR. SIMON: Yes, Your Honor.

THE COURT: Why don't you ask -- tell him if -- You know, the record is going to -- going to explain that and so why don't you tell us what your recollection of it is and ask him if he -- if he can say whether it's right or wrong. That way it will expedite it rather than yes or no, true or false.

MR. SIMON: Okay.

Q: Do you recall y'all -- if you retained Donald Girndt for the second trial?

A: Mr. Simon, no, I don't, okay?

Q: Okay. You didn't have Teanne Oehler testify in the second trial, correct?

A: Yes. I'm -- I'm almost positive that's true, yes.

Q: And your mitigation specialist, would one of them have been Paige Stark?

A: I -- I'm thinking Paige was with us for the second time, but I can't -- Like I say, Mr. Babb was handling most of that. I'm not trying to put it off on Mr. Babb, but I'm putting it off on my bad memory, okay?

Q: Okay.

THE COURT: Why don't you do this? Why don't you tell him who testified in the second one and ask him what he did or didn't do that was inappropriate.

MR. SIMON: Okay. Actually, I'll just go ahead and move on to the ---.

THE COURT: I'm not -- I'm not -- I was just thinking that -- I think it's hard for him to remember fifteen years ago, but you do know and I get this in the sense that you know who testified and you have in your mind that he did the appropriate thing or whatever. Why don't you tell him who testified in it and whatever -- make whatever point you want to in that regard.

MR. SIMON: Okay. Actually, Your Honor, it might be easier if I just go through the issues and do it that way, if it's okay.

THE COURT: Okay. That would be fine.

MR. SIMON: Okay.

Q: Going to the first issue regarding the sentencing phase, it is in reference to an objection you made to the victim's widow's testimony.

A: Correct.

Q: First, have you had an opportunity before today to review that testimony?

A: I have.

Q: And have you also had an opportunity to -- to review your objection?

A: I have.

Q: Okay and could you just explain for the Court what was

your thinking in terms of making that particular objection?

A: Well, first off, it caught us completely off guard. We had no idea that, you know, she had gone through that or was going to testify to that and so I tried to object as quickly as possible. Judge King allowed us to put it on the record later so obviously he was letting it in. So later on, we approached the sidebar and objected on the grounds of relevancy and -- and due to the fact that it was so far removed from the initial impact of what had happened to Deputy Kubala and also that it -- it was just prejudicial as it could be and, of course, Judge King overruled that and the record reflects that, you know, what we -- what language we used for the objection.

Q: Okay and did you consider making any other objections along with your relevance objection at that time?

A: Well, obviously, if I recall, we -- we objected that it was prejudicial also.

Q: Okay.

A: If I remember correctly, it caught us so far off guard, I -- No, I didn't really have time to research it and go find cases or anything on this.

Q: Okay and I'm going to go ahead and move on to the -- the second issue, which is in regards to the victim impact testimony that was presented in regards to the effect that the victim's death may have had on law enforcement in Sumter.

A: Right.

Q: First, let me -- Have you had a chance to review the -- the testimony?

A: Yep.

Q: And -- And actually, I'm going to provide you with --

MR. SIMON: Your Honor, may I approach the witness?

THE COURT: Yes.

Q: And this is just in case you need to ---

A: Okay. I reviewed it yesterday.

Q: --- look over it, but -- And I guess the -- The first bit of testimony that is referred to in the claim is -- starts around page 835. I want to direct you to look at page 840.

A: Okay.

Q: And this is in the testimony of Gene Hobbs.

A: Right.

Q: Did you consider objecting to his statements regarding I guess the department taking the trainees by the gravesite?

A: Well, if you're asking me if I considered objecting, I considered objecting to a lot of this, but Judge King was being very liberal in what he was allowing in from the standpoint of victim's testimony. I mean I felt if he allowed in what Ms. Kubala said about her reaction to the appeal that he was probably going to allow this in. I didn't want to be perceived by the jury as -- as jumping up and objecting to everything like I was trying to hide something.

So yes, I did consider it. I didn't consider my chances of winning that objection very well -- to be very good and I mean there's a lot of leeway that the courts have allowed in -- in this kind of testimony. So I considered it; I didn't object to it obviously.

Q: Okay and also they refer to testimony that starts on -- I'm not -- Volume 3.

MR. SIMON: Your Honor, may I approach the witness again?

THE COURT: You may.

Q: Let me hand this to you and ask you to start around page 1095.

A: All right.

Q: And it goes through page 1104 and I guess while you're reviewing that, the question I'm asking is: Did you consider objecting to that testimony?

A: Well, like I said earlier and I reviewed this yesterday, I considered objecting to a lot of this, but I did not feel that the objection would be sustained. I didn't want to be perceived as -- as trying to hide things and, you know, a lot of this is contemporaneously with what happened and, you know, I just think Judge King would have -- would have let it in.

Q: Okay. Now, with that second set of testimony, at some point doesn't the witness indicate that he and Kubala were like brothers, too?

A: I believe I read that in there, yes.

Q: And would that have also impacted on your decision whether or not to make that objection?

A: I don't know that I really considered that, no.

Q: Okay, all right. Now, I'm going to move on to the -- the third issue and in the third issue the allegation is that you should have presented evidence that Mr. Stone cooperated with police at some point in time prior to the -- the shooting. Did you consider presenting any evidence regarding his cooperation with law enforcement?

A: Well, I did. There were two aspects of that. Bobby had cooperated in helping them out with a few things that were -- were -- I mean they -- They were helpful to law enforcement, but they weren't really substantial things. I felt like if it came out that he was cooperating working with law enforcement, then bam, turned around and shot a police officer, that that made him, you know, look in a much worse light.

The other thing that I had to consider was a lot of the law enforcement officers that could have helped him maybe watered down what they were going to say or didn't really, you know, want to support him because of the pressure they were feeling from the rest of the law enforcement community down there. So there wasn't any other way to bring it out other than to call Bobby and Bobby didn't want to testify, which I don't -- I don't blame him with that decision, but that would have been the only way to bring it out.

Q: Okay. I want to move to the fourth allegation of just in regards to the investigation and the mitigation for the second trial. I guess just in general, can you -- Do you recall what kind of investigation y'all did in terms of looking for mitigating evidence for Mr. Stone?

A: Well, I know Teanne Oehler was just ultra-thorough in what she discovered about Bobby's background, his family, his upbringing. I mean she just -- She went into details that were just -- and found things that, you know, were just astonishing to me. So what they've alleged here about the exposure to dangerous neurotoxins and the family dysfunction, I think she -- she found everything that she could find at that time. Now, the thing about the dangerous neurotoxins, I don't know how she would have known that, but I mean I don't know what the -- I don't know how to answer your question. Apparently, there was something that wasn't discovered at that time.

Q: Okay and to kind of follow up on that, at any point in time did anyone tell you anything about Mr. Stone swimming in Turkey Creek?

A: About him what?

Q: Swimming in Turkey Creek.

A: Mr. Simon, I don't -- I don't remember. There was something about him chasing some chickens, but I don't remember Turkey Creek.

Q: Okay and so that was something that even Mr. Stone never told you anything about, correct?
A: No. I mean he wouldn't -- That wouldn't have been something I would have asked him, okay? So I mean I really had no reason to discuss that with him.
Q: Okay and also, did you -- Do you have any recollection of anyone ever telling you anything about Mr. Stone's mother drinking?
A: Mr. Simon, I don't -- I don't remember. Bobby loved his mother very much, but I don't -- I mean I just -- I don't recall that.
Q: Okay. Did you have any issue finding any evidence of Mr. Stone's good character that you can recall?
A: Ask me that again?
Q: I guess. Do you recall coming across any examples of Mr. Stone's good character during your I guess investigation for the case?
A: Well, that would have been primarily things that would have been developed by the mitigation team. I mean he certainly had family and friends that, you know, were -- were behind him and there were things that he had done and one of them I think we brought out. When he was in jail one time, he -- he sponsored a tournament or a lottery or something for some -- some lady that was undergoing some health problems and I think we brought that out at some point if I remember

correctly. So there were -- Yeah, there were some examples of his good character, yes.

Q: I'm going to move on to the -- the fifth allegation, which is they assert that -- And this is one that they also asserted in regards to the guilt phase.

A: Right.

Q: But they assert that you and Mr. Babb should have objected to the presence of law enforcement -- numerous law enforcement officers in the courtroom. What -- How do you feel that presence was during the second trial?

A: Well, it was virtually the same as the first trial. I mean it was -- It was kind of routine presence like I described earlier.

Q: Okay.

A: Which I didn't have a great problem with.

Q: Okay and I want to go to the -- the sixth issue, which is in regards to the -- I guess the jury voir dire. I guess in terms of the voir dire, what were you looking to -- to get in terms of the voir dire of the jury for the second trial?

A: Well, we were trying to determine if any of the jurors were predisposed to hand down the death penalty. Despite what the circumstances were, we were trying to find open-minded jurors without staking them out, which is prohibited. So the questions that were asked obviously in the record, I don't know which juror or jurors that this refers to.

Q: And by the second trial, had you tried any other death penalty cases between the first and second trial?

A: I think I tried two.

Q: Okay and were the questions that you asked in -- I guess for the second trial during the voir dire, were those consistent with what you were asking in those cases?

A: Yeah. I mean it's like anything else. You kind of -- As you go along, you get experience. You develop your, you know, what you're going to do in any particular trial circumstance. So to answer your question, I believe so, yeah. I think I answered your question.

Q: Okay and I'm going to now move on to the -- the last issue in the ---

A: Okay.

Q: --- in the sentencing phase ground, which is again similar to an issue that was raised with in regards to the guilt phase, which is securing the assistance of crime scene and other experts.

A: Well, I'd have to just say the same thing I say to when that issue was brought up as to the first trial that we consulted with an expert. We didn't feel like there was anything that we could prove or disprove as to what Bobby's position or what his attitude was or whether he was lying in wait or whether the gun went off accidently. There just wasn't a whole lot that the expert could have helped us with.

And I might add -- I mean the State had a theory that it was an ambush, but I don't know of any evidence they had that it was an ambush.

Q: All right.

MR. SIMON: I beg the Court's indulgence for just a moment.

THE COURT: All right. While he's checking on that, Mr. Littlejohn?

WITNESS: Yes, sir?

THE COURT: In your estimation, is a Republican a bad juror?

WITNESS: Your Honor, to be quite frank, yes.

THE COURT: Okay. I was just asking. That was just -- I just wanted to get that on the record.

WITNESS: My daddy raised me as a Democrat until he turned Republican.

THE COURT: There you go. All right, very good.

MR. SIMON: No further questions, Your Honor.

THE COURT: Very good. Cross examination, Mr. Blume?

MR. BLUME: Yes, sir.

CROSS EXAMINATION

BY MR. BLUME:

Q: Good afternoon, Mr. Littlejohn.

A: Good afternoon.

WITNESS: Mr. Blume is a Democrat also, Your Honor.

Q: I think you're going to be happy to know that this is going to be remarkably short.

A: All right.

Q: So as I understand your testimony on direct, which is consistent with the previous discussions we've had about the case, that in broad strokes your -- your responsibility or primary role is to deal with the I guess what we would call the facts and circumstances of the offense and Mr. Babb was primarily to deal with the mitigation aspects of the case.

A: Basically, yes. It was a little bit of overlap, but that's basically how it was set up between us.

Q: And as far as like the - the -- the task of getting information to the mitigation experts and getting the records attached to them, that would have fallen to Mr. Babb and not to you. That would not have been something you were involved in yourself?

A: Primarily, yes.

Q: And now just to ask a couple questions about this. I think the testimony is clear, but I don't want to -- Just to make sure. As you said, your -- the primary -- Your primary strategy regarding to what you were responsible for, the facts of the case, was to try and show that the facts and circumstances of the case were consistent with Mr. Stone's story?

A: Correct.

Q: And Mr. Stone's story was that he heard a sound, he heard a voice, he turned toward the voice, and the gun went off?

A: Correct.

Q: And that was consistent with what Mr. Stone told you happened in addition to what his statement ---

A: Always consistent.

Q: All right and you attempted to do that by pointing out that it was dark, that Mr. Stone was intoxicated, the gun had a very light trigger pull, and these were consistent with his version of what happened; is that correct?

A: Right.

Q: And so now then let me just then turn to two -- I think two other things and then I am actually going to be done. You were asked some questions about -- I wanted to put it exactly, but Mr. Kubala's -- the victim's widow in this case, she testified at this ---

A: Yes.

Q: --- and you indicated that you were -- that she testified about a suicide attempt. The record indicates she testified about a suicide attempt during the trial and you objected to this testimony, correct?

A: Correct.

Q: And I think it's fair to say that you objected to this because your strategy was to try and get the judge not to let the evidence in?

A: Correct. That's usually why we object to things.

Q: Right, that's right and it wasn't as if when you thought of what the objections were you said or I guess sat there and thought about, well, I could make objection A, B, C or D, but I'm just going to make A and hold B, C and D in the bag?

A: No.

Q: No, you objected on the basis of what you thought of at the time?

A: Well, I thought the primary objection was it was prejudicial.

Q: Mm-hmm.

A: I mean its prejudice far outweighed the probative value of it and it was so far removed from the events that occurred in I believe it was February 1996 that it wasn't relevant.

Q: But also it was -- As I think you testified on direct, you thought this was very prejudicial to Mr. Stone?

A: Extremely, yes.

Q: And then you were asked some questions about I guess the larger sort of victim impact evidence that was presented at the trial?

A: Right.

Q: Mr. Simon asked you some questions about that and as I understood your testimony on direct that you considered making some objections to this in addition to that, but you felt like the -- the chances that they would be sustained were low given

the way that Judge King -- that he was taking a very lenient method to allowing the prosecution to admit evidence at the trial.

A: Yes.

MR. BLUME: Nothing further.

THE COURT: All right. Any redirect?

MR. SIMON: No, Your Honor.

THE COURT: All right, very good. You may step down. Thank you, Mr. Littlejohn.

WITNESS: Thank you.

(Whereupon, the witness leaves the stand at 3:01 p.m.)

THE COURT: All right, you may call your next witness.

MR. BLUME: Okay, if I can just consult with them for a minute?

THE COURT: Sure, certainly.

MR. BLUME: There may or may not be a next witness.

(Whereupon, there is a brief pause in the proceedings for counsel to confer.)

MR. BLUME: We'll call Jill Rider.

THE COURT: Yes, ma'am, if you could, place your left hand on the Bible and raise your right hand as the clerk administers the oath. There you go, there you go.

THE CLERK: Do you swear or affirm the testimony you give in this case will be the truth, the whole truth, and nothing but the truth, so help you God?

WITNESS: I do.

THE CLERK: Please be seated and then state your name for the record.

THE COURT: Yes, ma'am, pull up real close to that microphone and speak loudly, clearly and slowly in order that we can hear everything that you've got to say. Yes, ma'am, let's start with your full name.

WITNESS: Jill Rider.

THE COURT: Can you spell that last name?

WITNESS: R-I-D-E-R.

THE COURT: Very good.

JILL RIDER, being first duly sworn, testifies as follows:

DIRECT EXAMINATION

BY MR. BLUME:

Q: Ms. Rider, how are you employed?

A: I'm employed by Blume Norris & Franklin-Best and the South Carolina Death Penalty Resource Center.

Q: All right and so just to be clear on this, you work for me?

A: Yes.

Q: And how long have you worked for me?

A: Fourteen years.

Q: And you poor thing and in what capacity are you employed?

A: A paralegal.

Q: And can you -- What do your duties generally include?

A: Well, lots of things. I collect the records, maintain the files, talk to the clients.

Q: Okay. Well, so let's turn to this case. What were your -- What were you -- Were you responsible for maintaining the files in Mr. Stone's case?

A: Yes.

Q: And did you obtain -- Were you responsible for obtaining copies of trial counsels' files?

A: Yes.

Q: And what did you do in that regard?

A: You mean how did I obtain them?

A: Yes, how did you get them and what did you do when you got them?

Q: I sent letters to both of the trial counsels and then physically obtained the files, sent them to be copied, gave them back their originals, organized it, and --

Q: Okay. Well, just to make clear, when you -- You obtained their -- what was purported to you to be their entire file, correct?

A: Correct.

Q: And did you then make a copy of what they purported to you was their entire file?

A: I sent it out to be copied, yes.

Q: You sent it out to be copied?

A: Yes.

Q: So there would be no issue about whether you selectively did anything and then you returned the original to trial counsel?

A: Yes.

Q: And maintained a complete copy?

A: Yes.

Q: Okay and in the course of maintaining those files, did you do an inventory of every document that was in the file?

A: Yes.

Q: And are you familiar with the contents of what was in those files?

A: Yes.

Q: Now -- And so that is what you did with regard to the trial counsels' files. Were you also responsible for maintaining any files collected by Mr. Stone's post-conviction defense team?

A: Yes.

Q: So just to be clear, any records we obtained from any source would have gone through you?

A: Correct.

Q: And what do you do when records come in?

A: Well, I organize them, put them in a file, and ---

Q: All right. So what I'm going to do now, Mr. Rider, is I'm going to show you a number of different documents, they've

all been pre-marked for this, and then just ask you some questions about -- Actually, when I get to the end, I'm going to ask you one question about them all.

This has been marked as Applicant's Exhibit 25. Are you familiar with that document?

A: Yes.

Q: Okay. Can you just say what it is?

A: These are the death certificates for Bobby Wayne Stone's mother.

Q: All right. So now let me show you what is Applicant's Exhibit 26 and ask you if you are familiar with that file.

A: Yes. This is the coroner's report for Bobby Wayne Stone's father.

Q: Okay. Now I'm going to show you what has been marked as Applicant's Exhibit 27.

A: These are the TB records for both parents and one form on Bobby Wayne Stone.

Q: And this has been marked as Applicant's Exhibit 28. Are you familiar with those and, if so, can you say what they are?

A: Yes. These are medical records of Jerry Stone, which is Bobby Wayne Stone's brother.

Q: And this has been marked as Applicant's Exhibit 29. Are you familiar with that and can you say what it is?

A: Yes. These are medical records for Melinda Parrott, who is Bobby's sister.

Q: And this has been previously marked as Applicant's Exhibit 31.

A: These are school records on Bobby Wayne Stone.

Q: And this is Applicant's Exhibit 32, if you don't mind answering the same question.

A: These are school records on Melinda Stone, which is his sister.

Q: Okay and this is 33.

A: These are school records for Tammy, which is also his sister.

Q: Okay and that's 34.

A: These are school records for Bobby O. Stone, which is his father.

Q: Okay. That's ---

A: Bobby Wayne.

Q: --- Bobby Stone's father?

A: Bobby Stone, Bobby Wayne Stone's father.

Q: Right.

A: Bobby O. Stone.

Q: And this is Applicant's Exhibit 35.

A: These are criminal records for Douglas Edwards, which is his cousin.

Q: And this is Applicant's Exhibit 36.

A: These are criminal records for Jerry Edwards.

Q: This is Applicant's Exhibit 37.

A: And these are criminal records for Terry Edwards.

Q: Okay, 38?

A: These are criminal records on Baker Floyd.

Q: 39? This has been previously marked as Applicant's Exhibit 39.

A: These are criminal records on Walter Floyd.

Q: And these individuals are all relatives of Mr. Stone's?

A: Yes.

Q: This is Applicant's Exhibit 40.

A: These are criminal records on Michelle Lynch.

Q: And this is Applicant's Exhibit 41.

A: These are criminal records on Diane Miles.

Q: Diane Miles?

A: Yes.

Q: Another person who is part of Mr. Stone's extended family; is that correct?

A: Sort of. She was the next door neighbor who was married to Eugene Stone Miles.

Q: Right, there was -- There was testimony about that at the previous hearing?

A: Yes.

Q: Applicant's Exhibit 42?

A: Those are the criminal records of Gene Miles.

Q: Applicant's Exhibit 43?

A: These are the criminal records of Melinda Parrott, of

Melinda Stone.

Q: Applicant's Exhibit 44?

A: These are the criminal records of Bobby O. Stone, the father of Bobby Stone.

Q: His biological father?

A: Yes.

Q: And 45?

A: These are criminal records of Tony Turner, who is his cousin.

Q: Now, let me show you what's been marked as Applicant's Exhibit 46.

A: These are the criminal records of Thomas Windham, who is also a cousin.

Q: And Applicant's Exhibit 47?

A: These are the Social Security statements, which show earnings of Bobby Wayne Stone.

Q: Applicant's Exhibit 48?

A: These are the Department of Juvenile Justice records on Bobby Wayne Stone.

Q: And last, but not least, I believe this is 40 -- 30; is that right?

A: Yes.

Q: Applicant's Exhibit 30.

A: That is the medical records for Tammy, which is Bobby's sister.

Q: Okay. So, Miss Rider, these -- Did you -- As you indicated previously, you did an inventory of trial counsels' file in this case, correct?

A: Correct.

Q: And you also -- And in preparation for coming here to court today, did you go back and review these files again?

A: Yes.

Q: And so the documents that I just showed to you, which were gathered in the course of the social history investigation for the post-conviction relief proceedings in this case, were any of those documents that you previously -- that you just identified present in trial counsels' files?

A: No.

Q: And in addition to that when we were -- In April, there were some files which were admitted into evidence from the South Carolina Department of Health and Environmental Control. Do you remember that?

A: Yes.

Q: And those files which were previously admitted, did you inventory trial counsels' files to see if those documents were in their files?

A: Yes. They were not in there.

Q: And they were not.

MR. BLUME: And so, Your Honor, we would move to admit these into evidence.

THE COURT: Any objection from the State?

MR. SIMON: No objection, Your Honor.

THE COURT: All right. All these are into evidence without objection from the State.

(Whereupon, Plaintiff/Applicant's Exhibits 25 through 48 are admitted into evidence without objection.)

MR. BLUME: Thank you, Miss Rider.

THE COURT: All right, any cross examination?

MR. SIMON: I beg the Court's indulgence for just a second. No, no cross, Your Honor.

THE COURT: You may step down. Thank you, ma'am.

(Whereupon, the witness leaves the stand at 3:12 p.m.)

MR. BLUME: The applicant rests, Your Honor.

THE COURT: Very good. Any -- Any -- I know we've kind of gone out of order a little bit. Anything that the State has to offer at this time?

MR. SIMON: No, Your Honor.

THE COURT: All right, very good. So that concludes all of the testimony from the applicant?

MR. BLUME: Yes, sir, Your Honor.

THE COURT: And all from the State?

MR. SIMON: Yes, Your Honor.

THE COURT: All right. Might counsel approach the bench for one moment.

(Whereupon, a bench conference is held off the record.)

THE COURT: All right.

MR. BLUME: Your Honor, two matters, two housekeeping matters before we conclude today. The first is, is that given the time lapse between with the hearing in April and today that I discussed with the Attorney General's Office and we came up with a procedure whereby we would file simultaneous briefs in this case 60 days after receiving the transcripts of both hearings. It looks like they might have already gotten one from the last hearing. We don't have it, but -- or this one today and so that is the agreed upon procedure by us and I believe Your Honor is agreeable with that procedure going forward.

THE COURT: That's good and throughout the process once you have it and once you've done your -- your brief, if either side feels as though it would be necessary to present oral argument and you think there would be some advantage to that, we could revisit that issue, but as it stands now we'll operate with that procedure. You'll have 60 days from the date that you receive the transcript to complete those and -- and we'll proceed forward in that fashion.

MR. BLUME: Thank you, Your Honor. The second matter, housekeeping matter is, is that as we previously advised Your Honor is that my co-counsel in this case, Mr. Lominack, has decided to, as some people might say, go back to earning an honest living and is going to become a school teacher. As of

this Monday, he's going to be a high school teacher at Dreher High School teaching Latin and so because of that and because of his workload in that regard, we have asked that Miss Paavola, who has previously been involved in this case, be substituted as counsel for Mr. Lominack in this matter.

I have discussed this with Mr. Stone. I met with him last week and explained the situation to him and he also was agreeable to Miss Paavola being substituted in as co-counsel in this matter.

THE COURT: All right, very good. Mr. Zelenka, Mr. Simon, do you an objection to Mr. Lominack being relieved as counsel?

MR. ZELENKA: Not under the conditions that were presented, Your Honor.

THE COURT: Okay, very good. Mr. Simon?

MR. SIMON: No objections, Your Honor.

THE COURT: Very good. Mr. Stone, I'm going to ask, if you could, to stand right where you are as the clerk administers the oath.

THE CLERK: Do you swear to tell the truth, the whole truth, and nothing but the truth, so help you God?

APPLICANT: I do.

THE COURT: Mr. Stone, how are you doing today?

APPLICANT: I'm doing pretty good, Your Honor.

THE COURT: All right. You -- This has been a fairly

long process and you've had Mr. Blume and Mr. Lominack helping you throughout this matter and Mr. Lominack is going on to be a school teacher and he has asked to be replaced. They have a young lawyer here who is very familiar with the file and is in a position to go forward in that regard, but I want to ask what you think about that. Do you think that -- Do you agree that Mr. Lominack should be relieved or do you want him to stay on to continue to represent you?

APPLICANT: No, Your Honor, it's fine with me for him to be removed.

THE COURT: Okay. Well, very good and you understand that -- that you're giving up whatever advantage he would -- you would have by him being here?

APPLICANT: Yes, sir.

THE COURT: You're comfortable with what Mr. Blume has done for you and what substitute counsel can do for you?

APPLICANT: Yes, Your Honor.

THE COURT: Okay, very good. Thank you so much.

APPLICANT: Thank you.

THE COURT: All right, very good.

MR. BLUME: And, Your Honor, the only final thing was what we discussed.

THE COURT: Okay. What I -- I'm going to ask if the security from the South Carolina Department of Corrections could come up here and if you could as well, Mr. Neal.

(Whereupon, Florence County Deputy Neal and the officers from the South Carolina Department of Corrections approach the bench.)

THE COURT: And you can just stay right there. I'll just speak with these gentlemen right here. You can stay right there with Mr. Stone if you'd like. Very good, if you can just stay right there with Mr. Stone would be good.

(Whereupon, a bench conference is held with the officers regarding the family meeting with the applicant in the jury room.)

THE COURT: I understand that the family of Mr. Stone is going to be meeting with him momentarily. It's going to be important that there be no -- Who all is going to be meeting with Mr. Stone?

(Whereupon, one person in the audience raises a hand.)

THE COURT: You're the only one?

(Whereupon, several other people in the audience raise a hand.)

THE COURT: Okay. I'm going to ask there be no pocketbooks and -- and ---

FAMILY MEMBER: We don't have nothing on us.

THE COURT: Okay. Well, I'm going to ask if you could to go ahead and take Mr. Stone into the jury room and y'all can assume your positions and I'm going to let Mr. Neal be responsible for checking out the individuals that go in there.

Very good.

That's the jury room; he can go in there. They can all go in at one time, but, Mr. Neal, I'm going to ask that you be responsible for checking the family members as they go in and she can as well and when y'all are ready and the place is secure, you can put Mr. Stone in there.

(Whereupon, the hearing ends at 3:30 p.m.)

--- END REQUESTED TRANSCRIPT ---

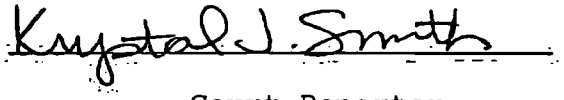
STATE OF SOUTH CAROLINA)

) CERTIFICATE

COUNTY OF FLORENCE)

I, the undersigned, Krystal J. Smith, Official Court Reporter for the Twelfth Judicial Circuit of the State of South Carolina, do hereby certify that the foregoing is a true, accurate, and complete Transcript of Record of all the proceedings had and evidence introduced in the hearing of the above captioned case, relative to appeal, in the Court of Common Pleas for Sumter County, South Carolina, (held in Florence County) on the 10th day of August, 2012.

I do further certify that I am neither of kin, counsel, nor interest to any party hereto.



Court Reporter

Florence, South Carolina

August 20, 2012

STATE OF SOUTH CAROLINA	)	
	)	IN THE COURT OF COMMON PLEAS
COUNTY OF SUMTER	)	Case No. 08-CP-43-905
	)	
BOBBY WAYNE STONE, SK 5051	)	
Applicant,	)	
	)	
v.	)	
	)	
THE STATE	)	
Respondents.	)	
	)	

AFFIDAVIT OF DR. JAMES SHINE

Dr. James Shine, who appeared personally before me, affirms and states the following:

1. I am a Senior Lecturer on Aquatic Chemistry at Harvard University in the School of Public Health. I have a Ph.D. in Environmental, Coastal, and Ocean Sciences from the University of Massachusetts. I have published approximately 41 papers on environmental and public health concerning the effects of contaminants in aquatic ecosystems. I have been faculty at in the Department of Environmental Health at the Harvard School of Public Health for 13 years, and have served on numerous local, national, and international panels concerning environmental pollution related to human and ecological health.

2. I was retained by Mr. Bobby Wayne Stone's attorneys to review a number of documents from the South Carolina Department of Health and Environmental Control and from the Environmental Protection Agency relevant to Turkey Creek in Sumter, South Carolina, and report my findings. My findings in Mr. Stone's case are recounted in detail in my report dated August 6, 2010.

Further affiant sayeth naught.

James P. Shine
DR. JAMES SHINE

Sworn to and subscribed before me
This 19 day of August, 2010

Notary Public for the State of Massachusetts
My commission expires: Sept. 9, 2016

Valerie A. Maher
Notary Public
My Commission Expires September 9, 2016
Commonwealth of Massachusetts

MEMORANDUM

From: James Shine, Ph.D. (Harvard School of Public Health)
To: Emily Paavola (Death Penalty Resource & Defense Center)
Date: August 6, 2010
Subject: Historical Data on Environmental Contamination in Turkey Creek (Sumter, SC)

I have reviewed the documents supplied to me by Deborah Vennos, an attorney at Robinson & Cole, LLP., relevant to Turkey Creek in Sumter, SC. In total, there were 6,346 pages of various documents, letters, reports, and engineering studies dating back as far as the early 1950's. The purpose of this exercise was to look through historical data on the environmental integrity of Turkey Creek, which runs in a southward direction out of Sumter. The data were examined with respect to potential human exposures to those pollutants by people living near and/or playing in the creek itself. Of specific concern were childhood exposures of Bobby Wayne Stone, Jr. to the contaminants in Turkey Creek, where he lived and played as a child.

The headwaters of Turkey Creek are located in the City of Sumter, SC. The creek flows in a southern direction for 5 miles, where it drains into the Pocotaligo River. Turkey Creek has a long history of contamination. It received untreated industrial effluent and domestic sewage effluent from the middle of the last century up until the late 1970's/early 1980's, when stricter enforcement of environmental regulations required better treatment of waste effluent before discharge to the environment. Since that time, the city of Sumter has relocated its sewage treatment plant to the south side of town and discharges directly into the Pocotaligo River. In recent years, various projects, such as flood control projects supported by the US Army Corps of Engineers, have made attempts to restore the environmental quality of Turkey Creek and the Pocotaligo River in general.

Mr. Stone was born in the mid-1960's. He lived in Sumter, South Carolina, near Turkey Creek, since 1971. All of Mr. Stone's family homes had well water. Mr. Stone and his family members report that he regularly played and swam in Turkey Creek and in a ditch that drains into the creek. As a result, the examination of the historical records focused on the period of the mid 1960's to the late 1970's, the period during which Mr. Stone may have been exposed to the pollutants in Turkey Creek. A potential difficulty is that some of this period pre-dates the enactment of the Clean Water Act, and even the existence of the Environmental Protection Agency itself. In addition, the analytical capabilities during that period were not nearly as mature as they are today. Analytical detection limits were much higher then, sometimes higher than concentrations that would be of concern! Also, the types of biological and chemical analyses that are routine today were not routine 40 years ago. As a result, the amounts and types of data presented in the older studies is limited. Much of the early data from Turkey Creek focused on 'classic' parameters such as nutrients (nitrogen, phosphorous), biological oxygen demand, dissolved oxygen, temperature, and pH.

Despite the above difficulties described above, it is clear that Turkey Creek was highly contaminated with chemicals associated with industrial activity along Turkey Creek. In fact, the contamination of Turkey Creek was common knowledge beyond the residents of Sumter. In a summary written in 1972 by Judge J.A. Sprull in the civil case of Garrenton v. Santee Print Works, Georgia Pacific, Southern Coatings, & Cover Dyeing (all of whom discharged wastes directly into Turkey Creek), stated that the writer (himself) "living some 75 miles from Sumter was aware by reading the Columbia State that there was a Turkey Creek pollution problem." Going back as far as 1961, a commentary written by engineers at the firm of Palmer and Malone already described the state of the sewage plant that discharged into Turkey Creek as "presently overloaded with respect to flow." By 1967, the first Cease and Desist Order was placed upon Santee Print Works to halt the discharge of untreated effluent into Turkey Creek. In the paper work of said order, data indicated dissolved oxygen concentrations "consistently 0.00", pH ranges from 4.7 – 11.20, and "print paste readily visible on the surface of the creek." A second cease and desist order was issued in 1971 to Santee to "obtain judicial enforcement of its administrative order dated May 25, 1967." In other words, Santee apparently had not complied with the earlier order.

During this period in the late 1960's to early 1970's, available data show Turkey Creek to be highly impacted by both industrial and domestic sewage effluent. A 1969 letter from the South Carolina State Board of Health to the Mayor of Sumter states that "the results of this study show that Turkey Creek is polluted well beyond its classification limits. The Turkey Creek sewage treatment plant is one of the major contributors of pollution to this creek." With respect to industrial effluents, a second letter from the State Board of Health to the Mayor in 1968 concerning the Santee Print Works states "As you know this company has been a concern of the Pollution Control Authority since mid-1960. Repeated attempts to have the company provide satisfactory waste treatment have met with little cooperation." The letter goes on to state "Our technical staff has made numerous surveys of waste discharges into Turkey Creek. Whereas there are other sources, they are of minor significance compared with the discharges from Santee Print works."

It is also clear that improvements were not made throughout the early 1970's. a 1971 letter from Oliver Stanly to Henry Gibson (both with the South Carolina Pollution Control Authority) states that "The Santee Print Works discharge exists now much the same as it had before court proceedings were brought against them two years ago. On inspection, we found a most disgusting situation, with extremely large amounts of excessively strong dye wastes and viscous pigments from their operation discharged directly into the feeding waters of Turkey Creek. The firm has made no apparent attempt to alleviate the situation, and certainly, no progress has been made in the fight to upgrade the water quality of Turkey Creek with such discharges present. The apparent apathy of the firm concerning the problem is very evident in their lack of civic and

environmental responsibility to the people of Sumter and area directly effected by Turkey Creek."

Available data from the early 1970's clearly indicate chemical contamination of Turkey Creek. In 1971, dissolved oxygen concentrations are still consistently below 2.9 mg/L, fecal coliforms are as high as 158,000/100 ml , with pH as high as 11! Unfortunately, the analysis of specific toxic substances was not routine at the time, but were likely present in Turkey Creek as well. By the mid-1970's, companies such as Santee fell under USEPA guidance to have NPDES (National Pollution Discharge and Elimination System) permits stating the amounts of specific toxic substance that could be discharged to the environment. One of the toxic substances for which Santee was regulated was the heavy metal copper. In 1976, Santee was cited for permit violations for the amount of copper released to Turkey Creek. The NPDES permit allowed Santee to discharge on average 1.06 lbs. of copper per day. For the period of December 1974 – March 1975, Santee discharged 11.96, 36.96, 28.28, and 20.9 lbs of copper per day respectively. This is far above what the permit allowed. It is unclear why copper was chosen to be regulated, and not a more toxic metal such as lead.

Although there is not a lot of data on toxic substances within the Creek itself, measurements were taken in lagoons at industrial facilities that themselves discharged into Turkey Creek. Measurements taken from the lagoon at Southern Coatings (another discharger into Turkey Creek) in 1979 showed lead concentrations as high as 6975 ppm in sludge and 3507 ppm in the water (the water quality guideline for lead in water at that time was 0.05 ppm). This is the same lagoon that was cited by the South Carolina Dept. Health and Environmental Control in a letter to Southern Coatings describing that "a number of wastewater problems were found. First, the large concrete walled lagoon lacks the required construction permit. Second, it is very likely that the wastewater is either flowing or seeping from the lagoon into Turkey Creek." The letter further goes on to state that "The final point involves the spilled cooking liquor from the shellac vat which flows to the storm drain. This material should be contained immediately as it constitutes an unpermitted wastewater discharge." In other words, organic contaminants in addition to heavy metals were both being discharged into Turkey Creek.

Studies conducted on sediments in Turkey Creek in the 1990's and 2000's show that while concentrations of contaminants in the sediments are elevated, the concentration levels are not exceedingly high. For example, a 1997 Feasibility Study conducted by the Army Corps of Engineers stated "testing of sediments in the creek....indicate that (9) polynuclear aromatic hydrocarbons (PAHs); four (4) pesticides including DDD, DDT chlordane and toxaphene; and (3) metals including copper, lead, and zinc are present in the sediments. All the above are present at levels exceeding the EPA region IV Sediment Screening Values for Hazardous Waste Sites with the exception of toxaphene." It would be less appropriate to use the values for the exposure assessment, as these levels occurred after discharges of untreated effluent ceased, long after the period in which Bobby Wayne Stone would have been recreating in Turkey Creek. It

should also be noted, however, that a large number of toxic organic contaminants have been found in the groundwater underneath these industries at levels that merited remedial activities (for example, under Southern Coatings & Chemical Industries). Due to the nature of groundwater transport of contaminants (slow) the mere presence of these compounds today are indicative of historic use that at one time may have been discharged directly into Turkey Creek.

In summary, Turkey Creek was clearly polluted due to the direct discharge of domestic sewage and untreated industrial effluent. Clean-up activities commenced in the 1980's, after the period that Mr. Stone played at Turkey Creek. Children are uniquely susceptible to environmental exposures to toxic compounds. Due to the fact that they are more actively developing, they are biologically susceptible. In addition, they may have greater exposures due to recreational activity patterns and greater hand-to-mouth behavior. It is well known that childhood exposure to toxicants can result in long-term cognitive deficits (and other outcomes) later in life. Although we can't recreate the Turkey Creek of the 1970's to estimate exposures and adverse outcomes, there clearly would have been high exposure to the suite of contaminants that were present in the creek at that time.

STATE OF SOUTH CAROLINA	)	
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COUNTY OF SUMTER	)	Case No. 08-CP-43-905
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Applicant,	)	
	)	
v.	)	
	)	
THE STATE	)	
Respondents.	)	

AFFIDAVIT OF DR. RUBEN C. GUR

Dr. Ruben C. Gur, who appeared personally before me, affirms and states the following:

1. I am a neuropsychologist, with special experience and expertise in the field of neuroimaging applications and their relevance to the diagnosis and study of people with behavioral disturbances associated with brain dysfunction. I have been licensed as a psychologist in Pennsylvania since 1976. I received a B.A. from Hebrew University of Jerusalem and an M.A. and Ph.D. in Clinical Psychology from Michigan State University. I completed Postdoctoral Fellowships at Stanford University and at the University of Pennsylvania.

2. I am a Diplomat of the American Board of Professional Psychology, with a Specialty in Clinical Neuropsychology.

3. I am, or have been, a member of the American Psychological Association, Division of Physiological and Comparative Psychology (Fellow status), Division of Neuropsychology (Fellow), the American Psychological Society (Fellow), The American College of Neuropsychopharmacology (Fellow), the American Association for the Advancement of Science, the International Neuropsychological Society, the National Academy of Neuropsychologists, the New York Academy of Science, and the John Morgan Society.

4. Among other honors, I have received the 2009 Lieber Prize for Schizophrenia Research from the Brain & Behavior Research Foundation (co-recipient with Dr. Raquel Gur), the Erikson Award for Scientific Excellence and the 1990 Stephen V. Logan Award from the National Alliance for the Mentally Ill. I have authored or co-authored numerous publications in peer-reviewed journals, made national and international presentations in the field of imaging and brain dysfunction, have served and am serving on Editorial Boards of professional journals, have served on Search Committees for journal Editorship, and have reviewed manuscripts for leading

journals in the areas of imaging, brain and behavior, and schizophrenia, have served on Advisory Panels and Study Sections of the National Institutes of Health and the NIH Review Group on "Clinical Neuroscience and Biological Psychopathology." I have contributed chapters to textbooks and other scholarly volumes on the topic of brain imaging and neuropsychology.

5. I have the academic rank of Professor with Tenure on the Standing Faculty of the University of Pennsylvania, with a primary appointment in Psychiatry and secondary appointments in Neurology and in Radiology. I am currently the Director of the Brain Behavior Laboratory and Director of Neuropsychology, Department of Psychiatry at the Hospital of the University of Pennsylvania.

6. I have been recognized as an expert and allowed to testify with respect to my expert opinions in the specialty of Neuroimaging and Neuropsychology in state and federal courts, including courts in South Carolina.

7. I was retained by Mr. Bobby Wayne Stone's attorneys to review magnetic resonance imaging (MRI) and positron emission tomography (PET) scan images of Mr. Stone's brain and perform a quantitative analysis of that data. My findings in Mr. Stone's case are recounted in detail in my report dated December 5, 2011.

Further affiant sayeth naught.



DR. RUBEN C. GUR

Sworn to and subscribed before me
This 14th day of December, 2011

Kendra S Farris

Notary Public for the State of Pennsylvania
My commission expires: 02/11/2014

NOTARIAL SEAL
KENDRA S FARRIS
Notary Public
PHILADELPHIA CTY, PHILADELPHIA CNTY
My Commission Expires Feb 11, 2014

Penn Medicine
University of Pennsylvania School of Medicine

Neuropsychiatry Section
Ruben C. Gur, PhD
Professor, Departments of Psychiatry, Neurology, and Radiology
Director, Brain Behavior Laboratory

PATIENT'S NAME: Bobby Wayne Stone
DATE OF BIRTH: [redacted] 1965
DATE OF REPORT: December 5, 2011
INTEGRATION BY: Ruben C. Gur, PhD
REFERRED BY: John Blume, Esq.

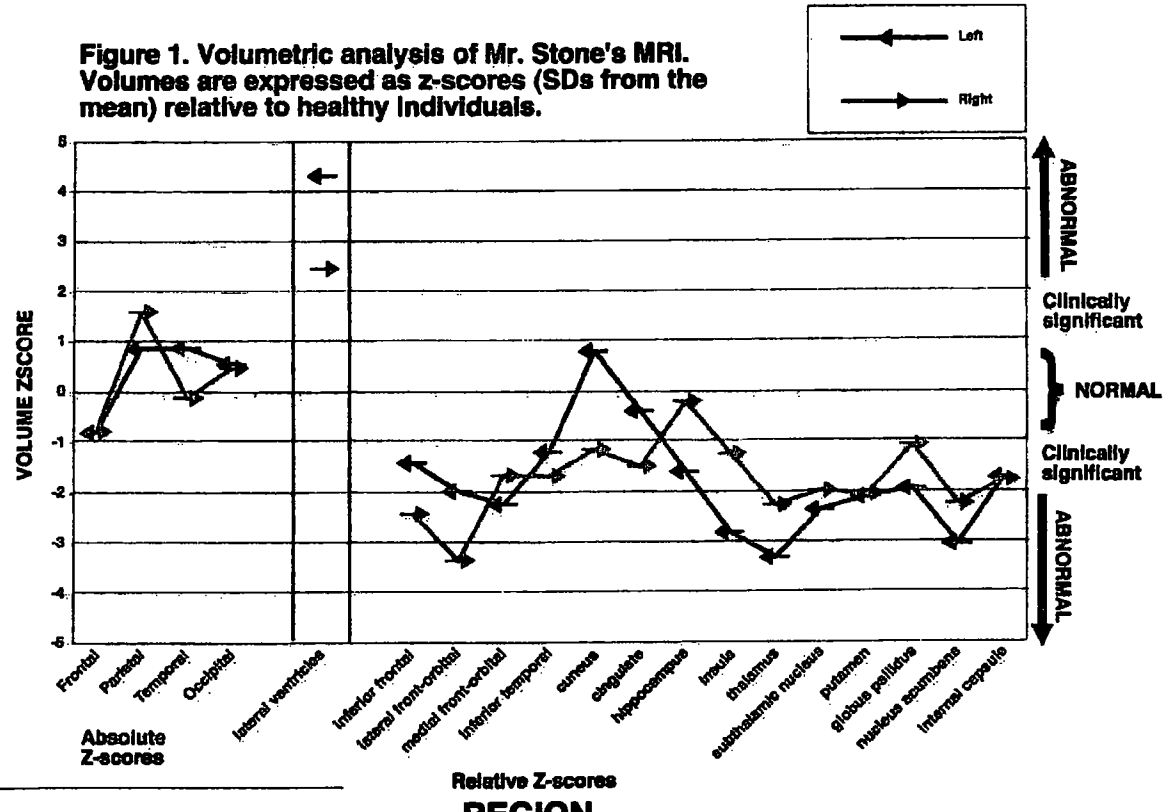
RE: QUANTITATIVE ANALYSIS OF NEUROIMAGING DATA

Mr. Stone was referred for an assessment of brain structure and function. To this end the following neuroimaging studies were performed on Mr. Stone, have been reviewed by me, and will be summarized in this report: magnetic resonance imaging (MRI) and positron emission tomography (PET).

Results of Magnetic Resonance Imaging (MRI): Volumetric structural analysis

The magnetic resonance (MR) images of Mr. Stone were examined by Christos Davatzikos, PhD via delineation of 92 regions of interest (ROI) assisted by a semi-automated template-warping algorithm.[1] **(Figure 1)**

Figure 1. Volumetric analysis of Mr. Stone's MRI. Volumes are expressed as z-scores (SDs from the mean) relative to healthy individuals.



[1] Shen, D. and C. Davatzikos, "HAMMER: Hierarchical attribute matching mechanism for elastic registration". IEEE Trans on Med. Imaging, 2002. 21(11): p. 1421-1439.

The volume of Mr. Stone's brain is in the average to above-average range overall with the exception of the frontal lobe, which is reduced in size to a clinically significant extent. Against this background, abnormalities in the relative volume of several brain structures are observed. Most notably, both of Mr. Stone's lateral ventricles are extremely large for his age. The right ventricle is over 2 standard deviations (SDs) larger than normal and the left ventricle is more than 4 (!) SDs larger. When brain tissue dies, the volume formerly occupied by cells is replaced by cerebrospinal fluid. Large ventricles are therefore an indicator of overall brain atrophy (death of cells) or dystrophy (failure of brain tissue to develop). Examination of specific regions indicates that Mr. Stone's right inferior frontal and right lateral front-orbital, left lateral and medial front-orbital, left insula, bilateral thalamus, subthalamic nuclei, putamen and nucleus accumbens, and left globus pallidus regions are all abnormally small (more than 2 SDs below normal). Additionally, Mr. Stone's left inferior frontal, right medial front-orbital, bilateral inferior temporal, right cuneus, right cingulate, left hippocampus, right insula, and right globus pallidus regions lie in the clinically significant (1 to 2 SD below normal) range.

Results of Positron Emission Tomography (PET)

The PET study examined the regional distribution of cerebral glucose metabolic activity using fluorine-18 labeled deoxyglucose (FDG). The technical quality of the scan was excellent. The study was read clinically by Dr. Andrew Newberg: "The images reveal moderate to severely decreased metabolism in the temporal lobes, particularly the limbic regions, corpus callosum, and midbrain regions. The thalamus and superior parietal regions are somewhat prominent in activity."

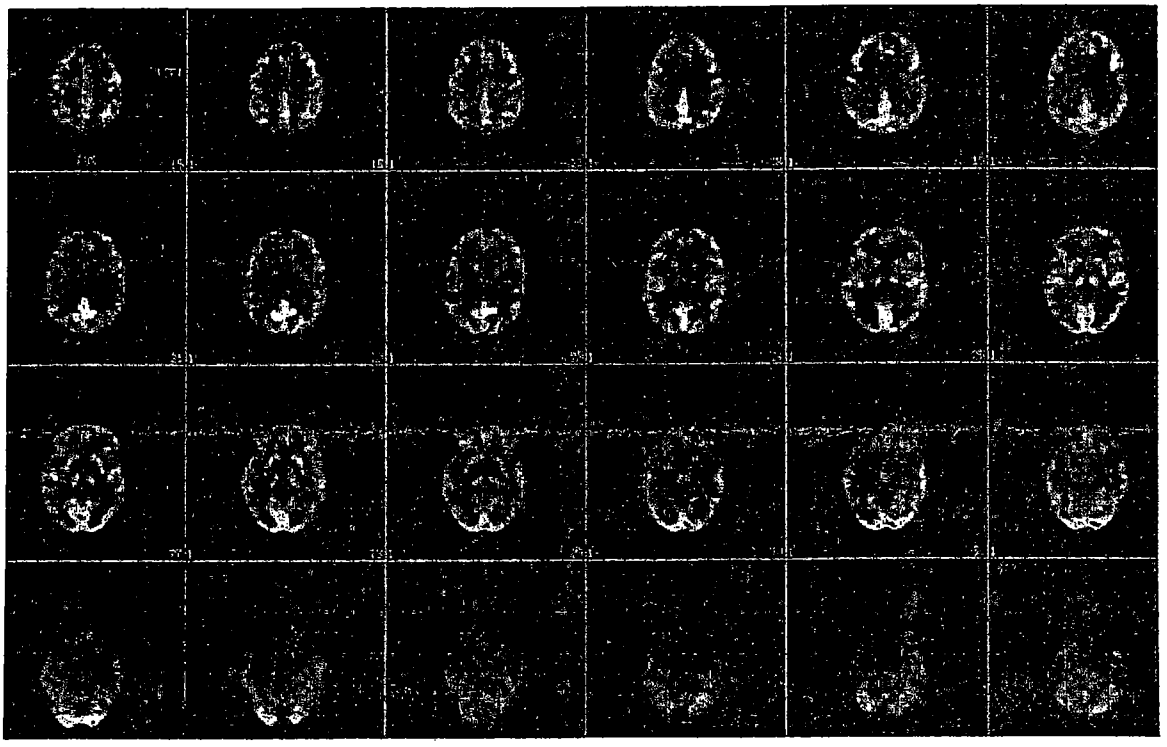
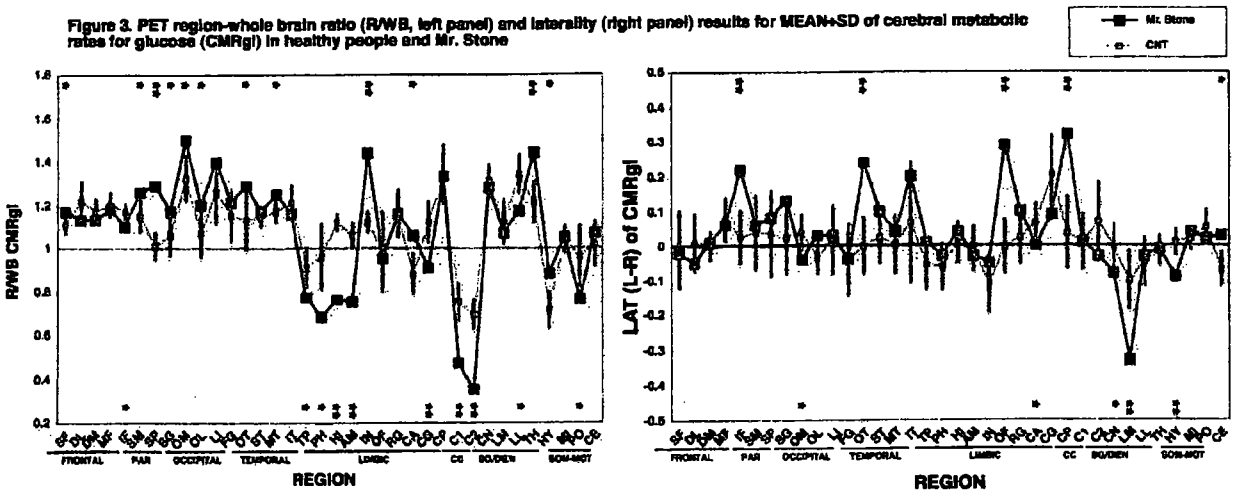


Figure 2. The PET images of Mr. Stone's brain

(Dr. Newberg's report of August 25, 2010). These PET scans are displayed in **Figure 2** below.

The PET study was subjected to a quantitative analysis using a standard regions of interest (ROI) approach.[2] The quantitative analysis of count rates relative to whole brain **(Figure 3, left panel)** support Dr. Newberg's clinical reading and point to more specific sets of regions that show abnormal glucose uptake. The analysis indicated relative *decreases* in ten (10) regions (see key for region abbreviations at bottom of document): IF, TP, PH, HI, AM, CG, C1, C2, LL and PO. Twelve (12) areas show relative *increase* in metabolism: SF, SM, SP, SG, OM, OL, OT, MT, IN, CA, TH, and HY. The laterality index **(Figure 3, right panel)** showed abnormal asymmetries in ten (10) regions, with *higher* than normal relative left activity in IF, OL, OT, OF, and CP and *lower* than normal left activity in OM, CA, CN, LM and HY.

Figure 3. PET region-whole brain ratio (R/WB, left panel) and laterality (right panel) results for MEAN+SD of cerebral metabolic rates for glucose (CMRgl) in healthy people and Mr. Stone



Summary and Conclusions

Results of structural and functional imaging of Mr. Stone's brain converge to show abnormalities indicating brain damage. These abnormalities are in regions that are very important for regulating behavior. Specifically, the kind of structural abnormalities observed in the frontal regions of Mr. Stone's brain interfere with executive functions such as abstraction and mental flexibility, planning, moral judgment, and emotion regulation, moderating limbic arousal and impulse control. The reduced glucose metabolism in the corpus callosum is consistent with toxin exposure or fetal alcohol exposure, but could also reflect a neurodevelopmental abnormality. The abnormally low metabolic activity in the corpus callosum would lead to deficits in integrating verbal reasoning and analytic processing modes of the left hemisphere with intuitive, integrative and affect-related processing modes of the right hemisphere. Such white matter damage would also impair speed of processing. The unusually large size of Mr. Stone's ventricles may indicate loss of limbic tissue or a severe neurodevelopmental disease process.

Probably the most striking finding, however, is the reduced metabolism in the amygdala and both tissue loss and reduced metabolism in hippocampus, combined with tissue loss and hyper-metabolism in cortical regions. Abnormally high metabolism in cortical regions indicates compensatory hypervigilance of the "default brain" state. Reduced activity in limbic regions is often seen in seizure disorders, and could result in "kindling" or sudden hyper-excitability. Abnormally low volume and metabolism in the temporo-limbic system, including hippocampus and

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[2] Gur RC, Mozley LH, Mozley PD, Resnick SM, Karp JS, Alavi A, Arnold SE, and Gur RE. (1995). Sex differences in regional cerebral glucose metabolism during a resting state. *Science. 267*:528-531.

amygdala, would lead to severe emotional dysregulation. A damaged amygdala will misinterpret danger signals and when excited it will issue false alarms that require intact frontal components of the limbic system. In Mr. Stone's case, there is reduced volume in orbital frontal regions and the cortex is already at a hyper-activated state. The situation is analogous to a car with weak brakes that are already engaged when it begins to race. When Mr. Stone's amygdala becomes activated, his frontal lobe is unlikely to be capable of exercising control as a normal one would, because his frontal lobe is not only damaged but his cortex is already operating at full capacity in its hyper-vigilant state. The frontal lobe is unable to do its job and act as the brakes on the primitive emotional impulses emanating from the amygdala when the limbic system reaches its activated stage (the Klüver-Bucy syndrome).

The abnormalities in basal ganglia could further impair rational performance under stress because they supply the neurotransmitter dopamine, which is necessary for intact frontal lobe functioning. The resulting behavior of someone with such brain damage could be disorganized, erratic and failing to adjust to situational demands. Notably, such individuals do respond well to structured environments, where the complexity of the surrounding and need for decision-making is reduced.

Thank you for the opportunity to participate in Mr. Stone's evaluation. Please let me know if you have questions or need further elaboration or analysis.

Sincerely,



Ruben C. Gur, PhD

Abbreviations in PET Figures:

SF = Superior Frontal; DL = Dorsal Prefrontal – Lateral; DM = Dorsal Prefrontal – Medial; MF = Mid–Frontal; IF = Inferior Frontal; SM = Sensorimotor; SP = Superior Parietal; SG = Supramarginal Gyrus; OL = Occipital cortex, Lateral; OM = Occipital cortex, Medial; LI = Lingual Gyrus; FG = Fusiform Gyrus; OT = Occipital Temporal; ST = Superior Temporal; MT = Mid–Temporal; IT = Inferior Temporal; TP = Temporal Pole; PH = Parahippocampal Gyrus; HI = Hippocampus; AM = Amygdala; IN = Insula; OF = Orbital Frontal; RG = Rectal Gyrus; CA = Cingulate Gyrus – Anterior; CG = Cingulate Gyrus - genu; CP = Cingulate Gyrus – Posterior; C1 = Corpus Callosum – Anterior; C2 = Corpus Callosum – Posterior; CN = Caudate Nucleus; LM = Lenticular – Medial [Globus Pallidus]; LL = Lenticular – Lateral [Putamen]; TH = Thalamus; HY=Hypothalamus; MI = Midbrain; PO = Pons; CE = Cerebellum.

STATE OF SOUTH CAROLINA	)	
	)	IN THE COURT OF COMMON PLEAS
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	)	
v.	)	
	)	
THE STATE	)	
Respondents.	)	
	)	

AFFIDAVIT OF DR. FRED BOOKSTEIN

Dr. Fred Bookstein, who appeared personally before me, affirms and states the following:

1. I am a Professor of Statistics and the College of Arts and Science at the University of Washington. I am also Adjunct Professor of Psychiatry and Behavioral Sciences at the Fetal Alcohol and Drug Unit in the School of Medicine at the University of Washington and Professor of Morphometrics at the University of Vienna, Austria.

2. I obtained a Bachelor of Arts Degree in Mathematics from the University of Michigan in 1966. I have a Master's Degree in Sociology from Harvard University, and I have a Ph.D. in Statistics and Biology from the University of Michigan. I was trained in both statistics and the behavioral sciences through the Harvard Social Relations Graduate Program.

3. Within the field of statistics, my particular area of expertise is morphometrics. This involves measuring parts of the body, discovering predictable patterns, and investigating the cause of that pattern and what effects it may have.

4. I have extensive experience with mapping a particular area of the brain called the corpus callosum. I have studied the corpus callosum of hundreds of individuals, some with Fetal Alcohol Spectrum Disorder (FASD) and some without, and developed a very precise method for measuring the corpus callosum, and compiled the results of my findings.

5. I have published over forty (40) papers and one book relating to my research in FASD. I was awarded the University of Michigan Distinguished Research Scientist Award in connection with my work in morphometrics.

6. I have been qualified to testify as an expert witness in the fields of morphometrics and fetal alcohol statistics approximately 10 times in courts in California, South Carolina, New Jersey, Montana, and the state of Washington.

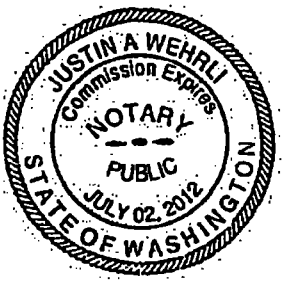
7. I was retained by Mr. Bobby Wayne Stone's attorneys to review certain measurements upon Mr. Stone's brain images, compare them to statistical summaries of corresponding measurements from adults with FASD and from normal adults, and report my findings. My findings in Mr. Stone's case are recounted in detail in my report dated August 6, 2010.

Further affiant sayeth naught.

DR. FRED BOOKSTEIN

Sworn to and subscribed before me
This 2 day of September, 2010

Notary Public for the State of Washington
My commission expires: July 02, 2012



August 6, 2010

Mr. John Blume, Esq.
Cornell Law School
112 Myron Taylor Hall
Ithaca, NY 14853

Dear Mr. Blume,

This report conveys my analysis of a magnetic resonance image (MRI) of the brain of your client Bobby Wayne Stone. The image was sent to me in mid-July by the imaging facility at MUSC (Medical University of South Carolina), which had arranged for its production according to a specified protocol. My aim was to compare certain measurements upon your client's brain image to statistical summaries of the corresponding measurements in analogously specified MR images for adults with fetal-alcohol-related diagnoses, and likewise normal adults, as published in three peer-reviewed scientific papers that appeared in 2001–02:

> Bookstein, F. L., P. D. Sampson, A. P. Streissguth, and P. D. Connor. Geometric morphometrics of corpus callosum and subcortical structures in the fetal-alcohol-affected brain. *Teratology* 64:4–32, 2001.
>
> Bookstein, F. L., A. P. Streissguth, P. D. Sampson, P. D. Connor, and H. M. Barr. Corpus callosum shape and neuropsychological deficits in adult males with heavy fetal alcohol exposure. *NeuroImage* 15:233–251, 2002.
>
> Bookstein, F. L., P. D. Sampson, P. D. Connor, and A. P. Streissguth. The midline corpus callosum is a neuroanatomical focus of fetal alcohol damage. *The Anatomical Record – The New Anatomist* 269:162–174, 2002.

I find that the geometry of Mr. Stone's corpus callosum shows aspects of neuroanatomy that lie far outside the limits of shape and relative position of the midline corpus callosum for the normal adult males assessed in our Seattle study but that are consistent with the analogous features in several of the adult males with known fetal-alcohol-related damage that we examined in the same study. Assuming prenatal alcohol exposure, my findings suggest quite a high likelihood that his brain was damaged by that exposure.

Brief discussion of the procedure followed and its scientific background. Fetal Alcohol Syndrome (FAS) and what used to be called Fetal Alcohol Effects (FAE)—this report will usually refer to them together as "Fetal Alcohol Spectrum Disorder" or FASD, as they entail the same typical brain damage—are irremediable congenital conditions found in a

substantial fraction of persons exposed to high levels of alcohol before birth. The principal focus of damage is the brain. This damage is expressed in a variety of encephalopathies (brain structural abnormalities) as well as a range of specific neurological, cognitive and neurobehavioral deficits and undesirable traits. The brain measurements that my colleagues and I use to assess the structural damage concentrate on the form and the relative position of the cerebral neural structure called the *corpus callosum*, the arch of neural tissue that links the two halves of the cerebral cortex. The Seattle study on which we rely involved a total of 180 subjects, of whom 45 were adult males: 15 normal men who had not been exposed to high levels of prenatal alcohol, along with 30 adult men who already had a diagnosis of FAS or FAE before our study began.



Bobby Wayne Stone's callosal midcurve, superimposed over a nearby section of his MR image. Upper chain of 40 points: callosal midcurve. Lower left center and right center: Anterior and Posterior Commissures (see text).

I reformatted the July MR image for analysis by the computer program Edgewarp

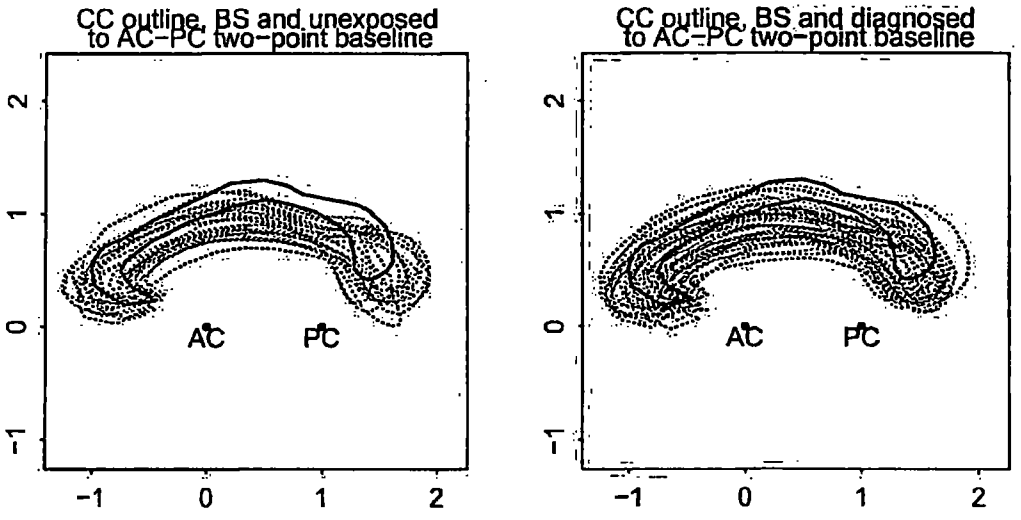
and traced its callosal midcurve at forty points, as described in detail in the references cited on page 1. The corpus callosum is the bundle of nerve fibers that connects the two halves of the cortex across the middle of the brain, and the midcurve is the "waist" of this bundle of fibers, the curve across which the full three-dimensional bundle is most nearly symmetric. Once this curve has been located in an MR image, its points can be shown as if superimposed over some nearby cut through the original image. The figure on page 2 shows how this set of forty points (the plus signs tracing around the whiter area in the center of the image) represents the form of the arch it is tracing. The front of Mr. Stone's head lies toward the left in this image, and you should imagine this picture as if it lay right up the middle of his head, halfway between the ears. (But the points of Mr. Stone's callosal midcurve do not lie exactly in this picture plane or any other exact mathematical plane. Their exact relationship to the callosal bundle can be viewed only in 3D, as described in the references.)

In addition to the 40 points of the curve tracing the lighter-colored region of the callosum itself, the figure shows two additional points, Anterior Commissure (AC) and Posterior Commissure (PC). The commissures are, like the corpus callosum itself, bundles of nerve tissue connecting the two halves of the cortex, and, according to A. Afifi and R. Bergman, *Functional Neuroanatomy*, 2nd edition (2005),

> The anterior commissure is the first to form at about the sixth gestational week and the first to cross in the anterior portion of the commissural plate at about the tenth week of gestation. ... The first fibers of the corpus callosum begin to cross at approximately the twelfth gestational week. ... (p. 332)

For more detail about what is going on in these embryonic brain tissues, please consult C. Guerri, G. Rubert, and M. Pasqual, "Glial targets of developmental exposure to ethanol," pp. 295–312 of M. W. Miller, ed., *Brain Development: Normal Processes and the Effects of Alcohol and Nicotine*, Oxford University Press, 2006. This part of the brain is evidently laid down very early in embryonic development, and is particularly sensitive to a variety of prenatal insults that misinform the migrating cells about where they should end up. The fetal alcohol spectrum disorders are jointly characterized by a substantial variability, well beyond the normal range, in most aspects of the geometry of this scene.

The *initial impression* of the scene on page 2 is strikingly unusual. We detail its anomalies in terms of three completely different aspects of its form. Any one of these would be enough to detect the effects of prenatal alcohol damage.

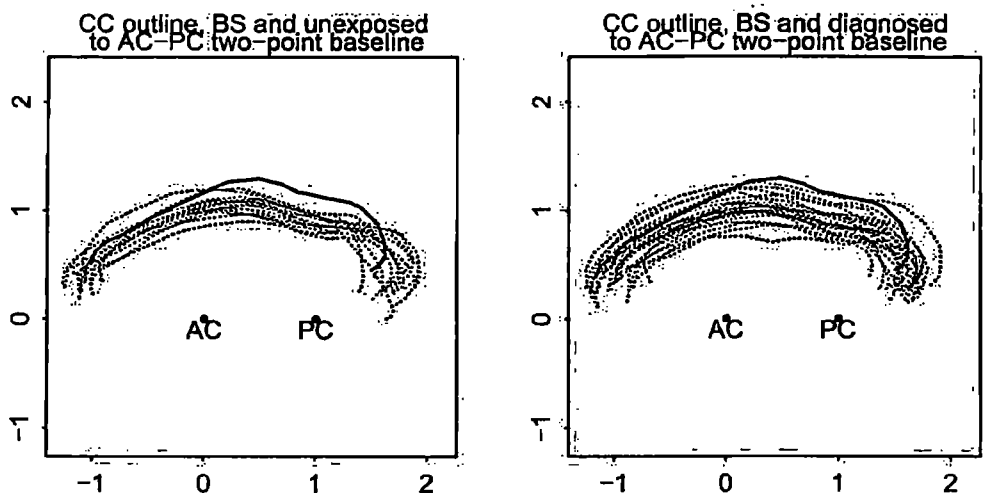


Two-point shape analysis of Mr. Stone's midline callosal outline and each of the Seattle adult male subjects, positioning the callosum with respect to the anterior and posterior commissures. Left panel: Mr. Stone vis-a-vis the 15 Seattle normals. Right panel: vs. the 30 FASD's.

Quantitative findings. As an assessment of the size and position of the corpus callosum, a structure known to be particularly sensitive to prenatal alcohol effects (National Center for Birth Defects and Developmental Disabilities, *Fetal Alcohol Syndrome: Guidelines for Referral and Diagnosis*, 2004, p. 14), it is often useful to display the entire callosal outline with reference to these two lower commissural points. One standard method, taken from the literature of measuring situations like these, is used in the diagram just above: a *two-point registration* that interprets the scene as if those two points are always in the same position and the callosal outline as a whole moves with respect to it. On the left, this form of analysis is shown for Mr. Stone's callosal outline (heavy solid line) and also each of the 15 analogous outline constructions for the normal adult male subjects in the Seattle study cited on page 1. At the right, the same line for Mr. Stone is compared instead to the 30 outlines for the Seattle adult male subjects diagnosed with FASD (FAS or FAE).

Evidently, in its upper arc above the PC point, Mr. Stone's callosum is abnormally placed with respect to the outlines at the left, but is not so unusual in comparison to those at the right. The figures are a bit difficult to decode, owing to the overlap of the upper

arcs of some Seattle forms with the lower arcs of other Seattle forms, and so we turn to the following clearer representation, where I have simply suppressed the line for the lower part of the arch, emphasizing the upper aspects.

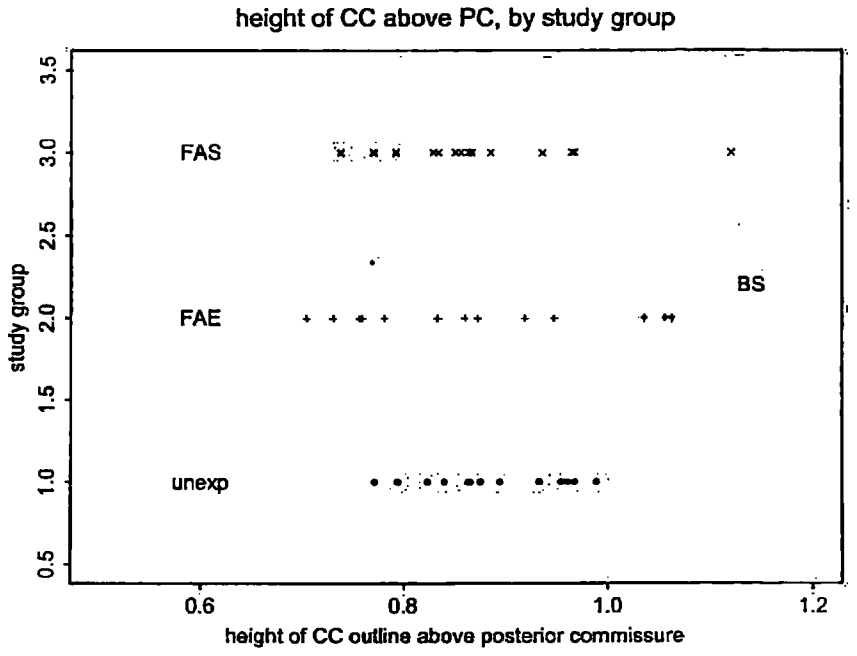


The same, upper arcs only.

It is clear that our preliminary impressions are justified in this simplified view. We see how Mr. Stone's upper callosal outline falls just at the upper limit of the Seattle FASD (right panel), but is strikingly inconsistent with the range of positions of this arc for the Seattle normal adult males (left panel).

There is a standard statistical method for reasoning from evidence like this: the method of *likelihood* or *odds ratios.* In this method, we treat either group, the Seattle normals or the Seattle FASD, as a sample from some bell-curve-shaped distribution (an assumption that indeed looks reasonable for the data here), and ask to which group Mr. Stone would have been likelier to belong if he had been a subject in our Seattle study (which, of course, he was not). To do the arithmetic we need to measure some number on the figure, and we use the height of the callosal outline arch exactly above the point PC (i.e., the height of the arch exactly above this arbitrary but reliably locatable point, taken as a ratio to the distance AC–PC between the two commissures themselves). The data we get are shown in the next figure. The heights in the bottom row are for the 15 Seattle normal adult males. None of these values exceeds 1.0 — no arch rides higher above the point PC than the distance of PC from AC for its case. The values for the 30 Seattle FASD's in the two subgroups already explained on page 1 are plotted in the upper two rows of the plot.

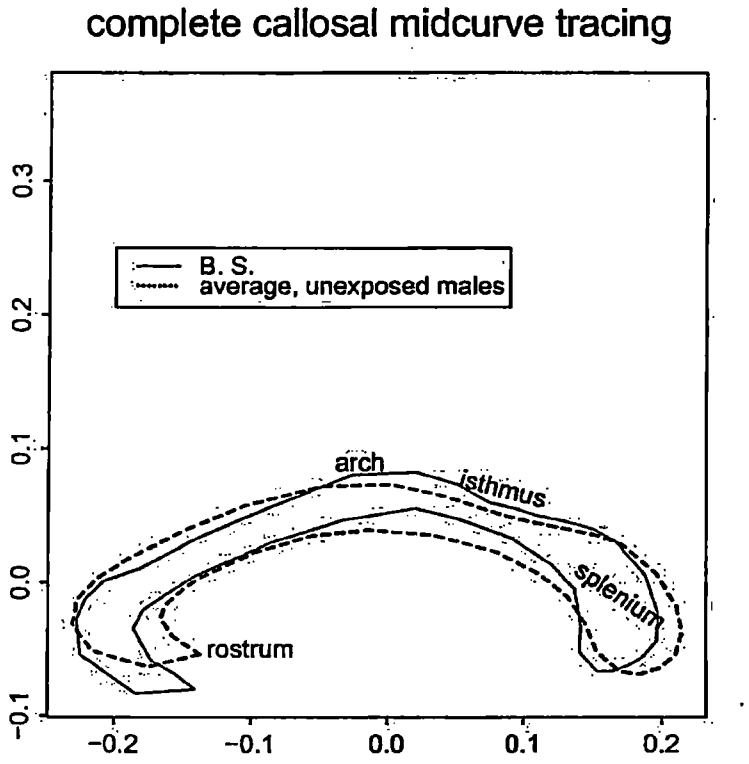
You can see that Mr. Stone's measurement of 1.14, plotted at the "BS," lies far above the maximum for the Seattle normals (bottom row) but almost matches the maximum for the Seattle FASD subset (middle and top rows). We can compute the odds-ratio I mentioned for membership in one group or the other based on this single measure; it gives odds of about 15.3 to 1 for his being from an FASD group. (To appreciate the meaning of an odds-ratio of this magnitude, consider that the usual level of a "5% significance test" that one finds in scientific journals corresponds to a ratio of about 7.4 to 1.)



Measurements for the statistical analysis of the information in the preceding diagram

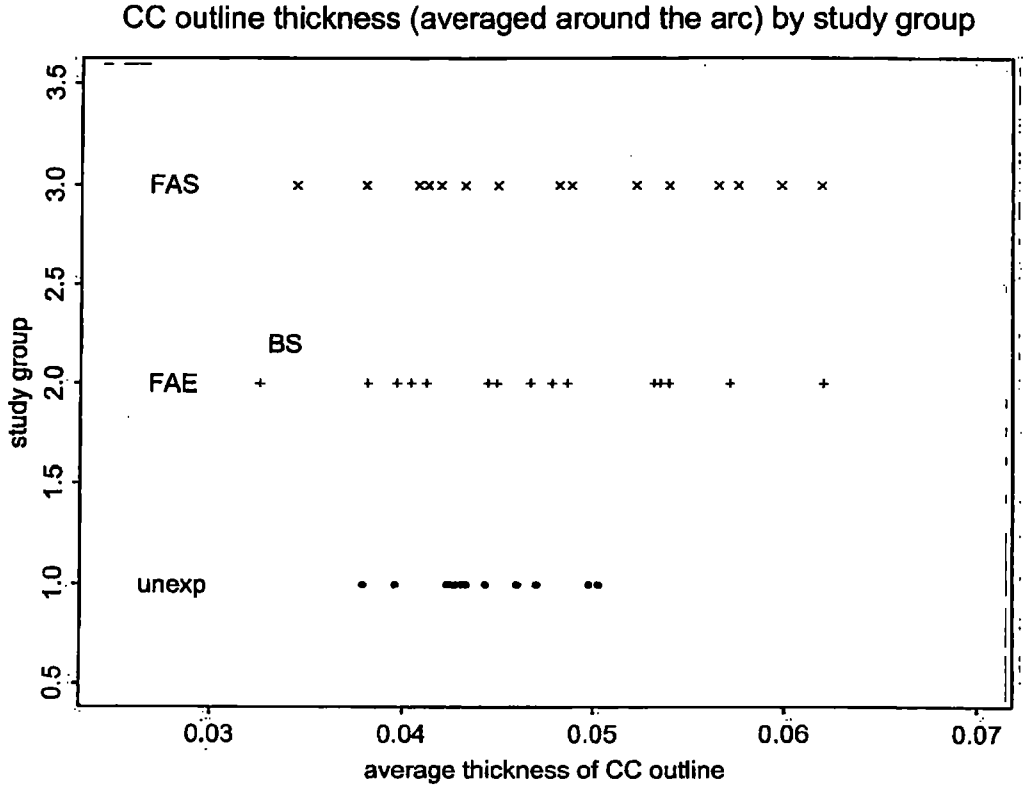
We can learn more about Mr. Stone's callosal midline shape by considering the information in the next figure. Here we pay no attention to the commissures any more, but look only at the outline of Mr. Stone's callosum alone, which we lay directly over the corresponding average outline for the Seattle normals using the standard method for this kind of diagram (what is called a "Procrustes fit," reviewed in the first of the references cited on page 1). In other words, the topic now is the *shape* of Mr. Stone's callosum, not its (abnormal) *position*. Two aspects of Mr. Stone's callosal form are plain in this diagram: the general thinning of the outline all around its length, and the specific malpositioning of the point called "rostrum" (Latin for "beak") located at the right-facing sharp point at

lower left.



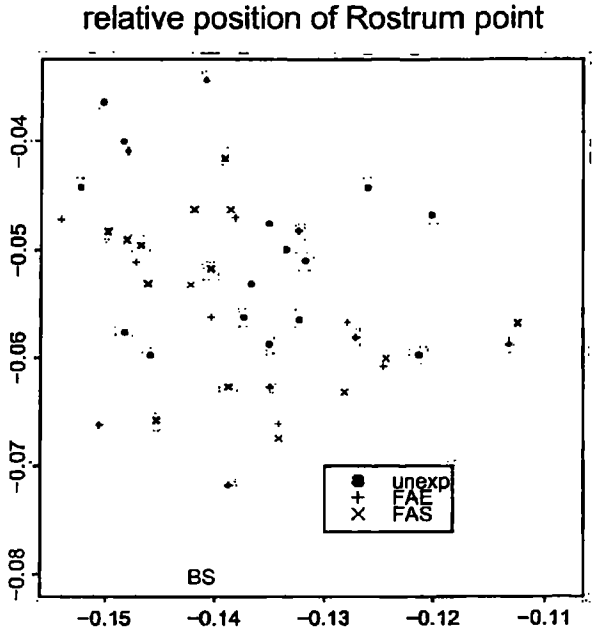
Inspection of the callosum form all by itself, without any reference to the commissures

To show the abnormality of the relative thinning of this structure, I computed the average thickness all the way around the whole arch. This is displayed in the following figure as separate distributions for the Seattle normals and the Seattle FASD's, with Mr. Stone's value again plotted at "BS." In terms of the units from the preceding figure, Mr. Stone's average thickness, about 0.034, is now far *below* that of all the Seattle normals, but fits comfortably into the range of the Seattle FASD's. Using the same bell-curve approach as we used a couple of pages above, we get an odds ratio of 7.9 to 1 for the greater likelihood of his coming from the FASD group on *this* measurement. Combining this relative thinning with the preceding observation, the relative height above PC, one arrives at a summary odds ratio of about 26 to 1 for these two descriptors of Mr. Stone's CC outline as a whole.



Average thickness all the way around the callosum,
Mr. Stone's callosal form versus those from the Seattle study

I also mentioned the position of Mr. Stone's rostrum point. We can apply a very similar method of inference (now using bell-shaped surfaces instead of bell-shaped curves) if instead of comparing Mr. Stone to the average Seattle normal (figure on page 7) we compare him instead to every Seattle form in turn. The last figure below compares the position of the rostrum point in Mr. Stone's callosal form to that of all the other Seattle adult males in this way. Positions for the normal Seattle adults are marked with a bullet (•), and the two FASD subgroups are keyed by the symbols + (FAE's) or × (FAS's) instead. We see clearly how Mr. Stone's rostrum position is nowhere near those for the Seattle normal males; instead, the eight closest neighbors to his position on this plot are occupied by callosal outlines from the Seattle FASD's. The odds-ratio method here assigns Mr. Stone to the FASD group with odds of better than 37 to 1.



Position of Rostrum with respect to the rest of the callosum, Mr. Stone's callosal form versus those from the Seattle study

Inferences from the quantitative analysis. The analysis of Mr. Stone's MR brain image shows a relation of the commissures to the callosum that is atypical of the normal range but consistent with the consequences of prenatal exposure to alcohol, a chemical that is known to affect the relationships among these structures at the time when they are most actively developing. We also see that the shape of his corpus callosum alone, independent of the structures that lie under it anatomically, *also* supports an assessment as consistent with fetal alcohol damage rather than normal variation. So it is fair to say that with high likelihood something went wrong with this brain's development, in this region, early in the embryonic period. Therefore, assuming that Mr. Stone had indeed been exposed to high levels of alcohol before birth, then, in accordance with the NCBDDD guidelines of 2004, we have met the requirement for finding an abnormality of the central nervous system (CNS) by the "structural" prong, regarding which the corpus callosum is one of three structures specified by name in that document as appropriate to inspect for evidence of that structural damage. According to those 2004 federal guidelines, it is sufficient to note damage in any one of these three structures.

One looks at the callosum because it's the brain region that shows most clearly whether there has been alcohol damage. That's partly because it is so sensitive to alcohol (the cells are moving around early in embryonic life, and alcohol confuses the signals they use for

deciding when to stop moving), and partly because it is relatively feasible to measure carefully, as I have done to produce the diagrams and the statistics here, but mainly because its position and arrangement are stable among normal individuals yet so variable among the alcohol-damaged as to be suitable for use as a reliable sign of damage. For these three reasons, a geometrical abnormality in the shape or the position of the corpus callosum in a person who has been exposed to prenatal alcohol counts as evidence of the CNS abnormalities that must be detected in order to assert that that person has actually incurred one of the fetal alcohol spectrum of disorders.

There are typical ways that persons diagnosed with fetal alcohol spectrum disorder behave in specific social contexts requiring competent *executive functioning* (P. D. Connor, P. Sampson, F. Bookstein, H. Barr, and A. Streissguth, "Direct and indirect effects of prenatal alcohol damage on executive function," *Developmental Neuropsychology* 18:331–354, 2000): contexts involving, in particular, authority, rule-based behavior, or assessment of the intentions of others. In particular, the great majority of persons diagnosed with FASD have specific deficits of "social intelligence" much more profound than their deficits of IQ (see Ann Streissguth, F. Bookstein, H. Barr, P. Sampson, and J. Young, "Risk factors for adverse life outcomes in Fetal Alcohol Syndrome and Fetal Alcohol Effects," *Journal of Developmental and Behavioral Pediatrics* 25:228–238, 2004). They are typically rated, for instance, as unaware of the consequences of their behaviors or as acting before considering those consequences. Among the crucial subdomains of executive function is the judgment of appropriate behavior in the presence of conflicting rules or desires. FASD patients typically have specific deficits in these domains even considering their typically lower-than-average IQ. They have further, equally specific deficits in the domain of moral reasoning (telling right from wrong: A. M. Schonfeld, S. N. Mattson, and E. P. Riley, "Moral maturity and delinquency after prenatal alcohol exposure," *Journal of Studies of Alcohol* 66:545–554, 2005). For a discussion of these and other typical behaviors, see, for example, Ann Streissguth, *Fetal Alcohol Syndrome: A Guide for Families and Communities* (Paul H. Brookes, Inc., 1997), or A. P. Streissguth, F. L. Bookstein et al., "A Fetal Alcohol Behavior Scale," *Alcoholism: Clinical and Experimental Research* 22:325–333, 1998. Persons with FASD typically have a very high frequency of trouble with the law and a history of incarceration as teenagers and as adults. Any attempt to account for Mr. Stone's cognitions or behaviors would do well to take into account their possible origin in the congenital brain damage that lies at the core of the fetal alcohol spectrum of diagnoses.

In summary: findings like these, combined with evidence about prenatal exposure to alcohol, serve as part of the documentation that supports the production of a specific

diagnosis within the range of particular disorders (patterns of damage) that prenatal alcohol exposure is known to produce. The strength of this structural evidence in Mr. Stone's case is conveyed fairly by the odds of variously 37 to 1 for the rostrum point alone or 26 to 1 for features of the outline as a whole. Whenever other evaluators of Mr. Stone find him to have characteristic neurodevelopmental problems, such as executive function deficits, difficulties in impulse control, or poor judgment (for instance, as regards consequences of actions or adherence to rules or laws), findings like these help account for those deficits by a cause operating before he was born.

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Educational History

Ph.D., 1985 (Clinical-Community Psychology), University of South Carolina, Columbia, S.C.
M.S.W., 1974 (Community Social Work), University of South Carolina, Columbia, S.C.
B.A., *magna cum laude*, 1972 (Psychology and Sociology), Duke University, Durham, N.C.

Professional Positions

Licensed Independent Social Worker (LISW), S.C. no. 706. Level: Clinical Practice (CP) and Advanced Practice (AP).

Carolina Distinguished Professor, University of South Carolina, College of Social Work, Columbia, S.C, (May 2008-present); Professor (May 1999 – May 2008); Associate Professor (April 1991 – May 1999); Assistant Professor, August 1986- April 1991. Teaching areas: Community organization and social administration, policy, discrimination/deprivation, research, electives on child abuse/neglect, child psychopathology, victimization, doctoral dissertation preparation, management.

Director, University of South Carolina Institute for Families in Society, 1999-2006; Director, Division of Family Policy 1995-1999; Associate Director, 1994-95. Interim Co-Director, July 1992-June 1994. Direct interdisciplinary research and training with emphasis on family enhancement.

Project Director, University of South Carolina, Child Abuse and Neglect Interdisciplinary Training Project, Columbia, S.C. 29208. October 1987 - October 1990. Duties: Direct training project for master's and doctoral students in social work, psychology, medicine, criminal justice, education, health and nursing.

Partner, Social Policy Resource Associates, P.O. Box 8514, Columbia, S.C. 29202. June 1984 - June 1987.

Lecturer and Training Coordinator (part-time faculty position), University of South Carolina, College of Social Work. August 1983 - August 1986. Taught introductory and advanced graduate courses in macro-level social work skills and discrimination/deprivation and directed a field project funded by the National Institute of Mental Health to train six graduate students in child abuse and neglect intervention.

Executive Director, SISTERCARE, INC., Columbia, S.C. August 1981 - August 1983. Duties: Directed the establishment of this new agency serving abused women and their children in a four-county area.

Instructor, University of South Carolina, Department of Psychology, July 1980 - August 1981. Duties: Teaching "Psychology of Marriage".

Executive Director, Council on Child Abuse and Neglect, Inc., (now known as Prevent Child Abuse – South Carolina), Columbia, S.C. May 1977 - August 1978. Duties: Directed the establishment of this new agency for the prevention of child abuse and neglect.

Director of Research and Evaluation, S.C. Office of the Governor, Office of Social Development, Columbia, S.C., July 1974 - April, 1977.

Social Worker, S.C. Department of Mental Retardation, Midlands Center for the Retarded. Columbia, S.C., June - December, 1973.

January 2012



Professional Activities

Publications

Books:

Andrews, A.B. (2007). *Social History Assessment*. Newbury Park, CA: Sage Press.

Beck, E., Britto, S. & Andrews, A. (2007). *In the Shadow of Death: Restorative Justice and Death Row Families*. Oxford University Press.

Andrews, A. B., Culp, J., & Dexter, A. (2006). *Send Me! The Story of Salkehatchie Summer Service*. Nashville, TN: Providence House Publishing.

Ben-Arieh, A., Kaufman, N. H., Andrews, A.B., Goerge, R., Lee, B. J., & Aber, L.J. (2001). *Monitoring and Measuring Children's Well Being*. NY: Kluwer.

Andrews, A.B. & Kaufman, N.K. (Eds.) (1999). *The UN Convention on the Rights of the Child: Implementing the Right to an Adequate Standard of Living*. Westport, CT: Praeger.

Andrews, A.B. (1992). *Victimization and Survivor Services*, NY: Springer.

Book chapters, articles, and monographs:

Andrews, A. B. (almost submitted). Parental mutual support programs for parents in the child welfare system. In Korbin, J., & Krugman, R. (Eds.), *Handbook on Child Maltreatment*.

Andrews, A. B. & McMillan, L. (accepted, January 2012). Evidence-based principles for choosing programs to serve parents in the child welfare system. *Administration in Social Work*.

Andrews, A.B. (accepted, 3/2011). Charles Dickens, social worker in his time. Accepted for publication in *Social Work*.

Andrews, A. B. (accepted 10/2010). *American Bar Association Supplemental Guidelines for the Mitigation Function of Defense Teams in Death Penalty Cases*: Implications for Social Work. Accepted for publication in *Social Work*.

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Research Activities

Andrews, A. B. & Hayes, Kathleen. (2011-2012). Jobs Not Jail: A Better Alternative Demonstration Project Evaluation. SC Center for Fatherhood and Families (affiliated with Sisters of Charity Foundation).

Andrews, A. B. Stakeholder identification and engagement. (Spring 2011). In Linkenbach, J. *Positive Community Norms Workbook.* Montana State University.

Andrews, A. B., McMillan, L., & Brown, E. (2009). *A Child's Haven: Family Support Program Evaluation.* Greenville, SC.

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Andrews, A.B. Fahs-Beck Fellow, Fahs-Beck Fund for Research and Experimentation of The New York Community Trust, for work on "Effects of Shared Leadership on Service Providers and Parents for Vulnerable Families." Awarded Jan. 2008.

Andrews, A. B., Leith, K., Rivers, J., & Gibson, R. *Midlands Area Consortium for the Homeless: Needs and Resource Assessment 2005.* August 2005.

Andrews, A. B. & Motes, P. S. (2004-2005). Technical Assistance Regarding Systems Reform of Services to Children, Adolescents, and Families at the SC Department of Mental Health.

Andrews, A.B. Use of the genogram in mitigation assessment and testimony. 2002 Award of the American Psychological Foundation Randy Gerson Memorial Grant Fund.

Andrews, A.B. & Wandersman, A., *et al.* Consultation and technical assistance regarding SC First Steps to School Readiness statewide initiative. SC Office of First Steps, Columbia, SC, August 1999 – Dec. 2002.

Andrews, A.B., Floyd, A.G., *et al.* Consultation regarding community partnerships for children and families. The Duke Endowment, Charlotte, NC. Aug 1998 – Dec 2002.

Andrews, A.B. & Luckey, L Co-p.i.'s. Technical assistance and evaluation of the Fatherhood Engagement Initiative, Sisters of Charity Foundation - S.C. Statewide, South Carolina. Feb 1999 - present.

Andrews, A. B., Flerx, V., Cokkinides, V., & Bolden, E. Local evaluation of Pee Dee Healthy Start, regional system reform to reduce infant mortality and promote healthy birth outcomes. Jan 1997 – May 2001.

Andrews, A. B., Motes, P., Lopez-DeFede, A. et al. Empowerment evaluation consultation to the Building a Better Future Initiative of the Foundation For The Carolinas, Charlotte, NC. April 1997 – September 2000.

Andrews, A. B. & Cokkinides, V. Consultation regarding measurement of consumer empowerment and community change in neighborhoods served by Healthy Start. University of South Florida, Tampa. March – Dec. 1998.

Andrews, A. B. & Morrison, B. The changing American family: Impact on South Carolina's children. Consultation with the S.C. Maternal, Infant, and Child Health Council. Fall 1996-Winter 1997.

Andrews, A. B. Coordinator of "Personal Life Skills" work group for the international project to measure and monitor the well-being of children beyond survival. Lead organization: national Council for the Child, Israel.

Andrews, A. B., Project Director. Family needs and resources in South Carolina communities: A study to support community action to strengthen families. 1994-95.

Andrews, A. B., Principal Investigator. Ways and means: A study of how transient families move toward stability. 1994-95.

Andrews, A. B., Supervisor of graduate social work student research groups which produced these reports: "Evaluation of the victim impact statement as used in Richland County, Fifth Judicial Circuit, S.C.", 1987. "Preliminary Study of Factors Associated with Divorce Mediation in Child Custody Disputes", 1988.

Consultation

Centers for Disease Control and Prevention, Knowledge to Action Child Abuse Prevention Consortium; US DHHS Office of Women's Health Trauma Initiative; Centers for Disease Control and Prevention, Violence Against Women Initiative; National Consortium for Capital Defense Training; S. C. Office of First Steps, Assessing Child's Readiness for School; South Carolina Dept. of Mental Health, Systems of Care Strategic Planning, 2004-5; South Carolina First Steps to School Readiness (46 county partnerships); Central Carolina Community Foundation; Federation of Families – SC; The Duke Endowment Child and Family Services Program (12 community partnerships); Sisters of Charity Foundation Fatherhood Engagement Initiative (18 community programs); Pee Dee Healthy Start (7 counties); Foundation For The Carolinas (Charlotte, NC) (26 community programs); S.C. Coalition against Domestic and Sexual Assault; Alliance for South Carolina's Children (co-founder); Council on Child Abuse and Neglect, Inc. (now Prevent Child Abuse-SC); Rape Crisis Network; Cooperative Ministries; Carolina Children's Home; the Nurturing Center; SISTERCARE, Inc.; Richland County Volunteer Guardian ad Litem; Department of Social Work, Medical University of South Carolina, Charleston, SC; Thompson Children's Home (therapeutic residential center), Charlotte, NC; Barnwell County HELPLINE; South Carolina Chapter, National Association of Social Workers; Coalition to Assist Abused Persons, Inc., Aiken, S. C.

Expert witness, impact of child history on adult behavior; child welfare services. State and federal courts in California, Georgia, North Carolina, South Carolina, and Texas.

Current Editorial Service

Reviewer, *Child Abuse and Neglect: The International Journal.*
Reviewer, *Administration in Social Work.*

Memberships

National Association of Social Workers
American Psychological Association
- Div. 9 – Psychological Study of Social Issues
- Div. 27 – Community Research and Action
- Div. 37 – Child and Family

American Evaluation Association
Association for Community Organization and Social Administration
American Professional Society on the Abuse of Children
Midlands Women in Philanthropy
USC: Women's Studies faculty; Consortium on Latino Immigration Studies

Service and Other Accomplishments

Recipient, 2012 USDHHS Administration on Children, Youth, and Families Commissioner's Award for the State of South Carolina.

American Red Cross volunteer, Armed Forces Emergency Services (AFES), Sept 2008-2010

Recipient, 2008 Woodrow B. Seals Laity Award, presented by Perkins School of Theology, Southern Methodist University

Certificate of completion, Introductory Spanish for Social Scientists and Social Workers (three-week course), Centro Panamericano de Idiomas (CPI), Heredia, Costa Rica, May-June, 2002

Leader, United Methodist Volunteers in Mission youth team to El Ayudante, Lèon, Nicaragua, May-June, 2006, 2011; 2012;

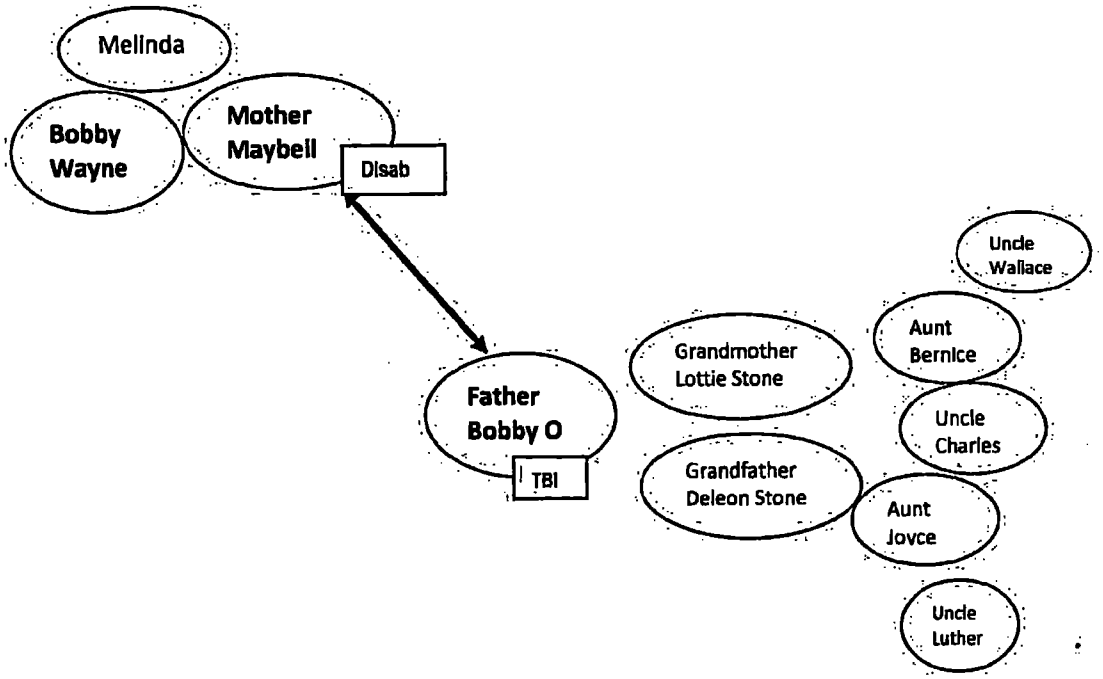
Assistant Camp Director or Adult Counselor, Salkehatchie Summer Service, each year from 1993-2011

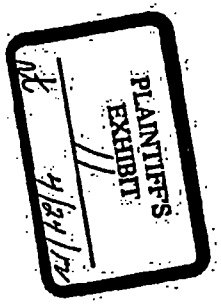
Gubernatorial appointee (eight years, appointed by Gov. Riley and Gov. Campbell), Joint Legislative Committee on Children and Families, S. C. General Assembly

Board memberships at various times for the following: Parents Anonymous (national) Child Maltreatment Prevention Work Group; The Nurturing Center (child maltreatment family-based intervention), S. C. Christian Action Council (interfaith justice ministry), Southern Regional Council – Atlanta, Georgia (civil right and justice advocacy), S. C. Children's Voices (policy advocacy), Growing Home (national therapeutic foster care), Prevent. Child Abuse –S. C., Sistercare, SC Chapter of the American Professional Society on the Abuse of Children (SCAPSAC) State Advisory Board on Training for Victim Services Providers, S.C. Office of the Governor

Bobby Wayne Stone – Key Relationships

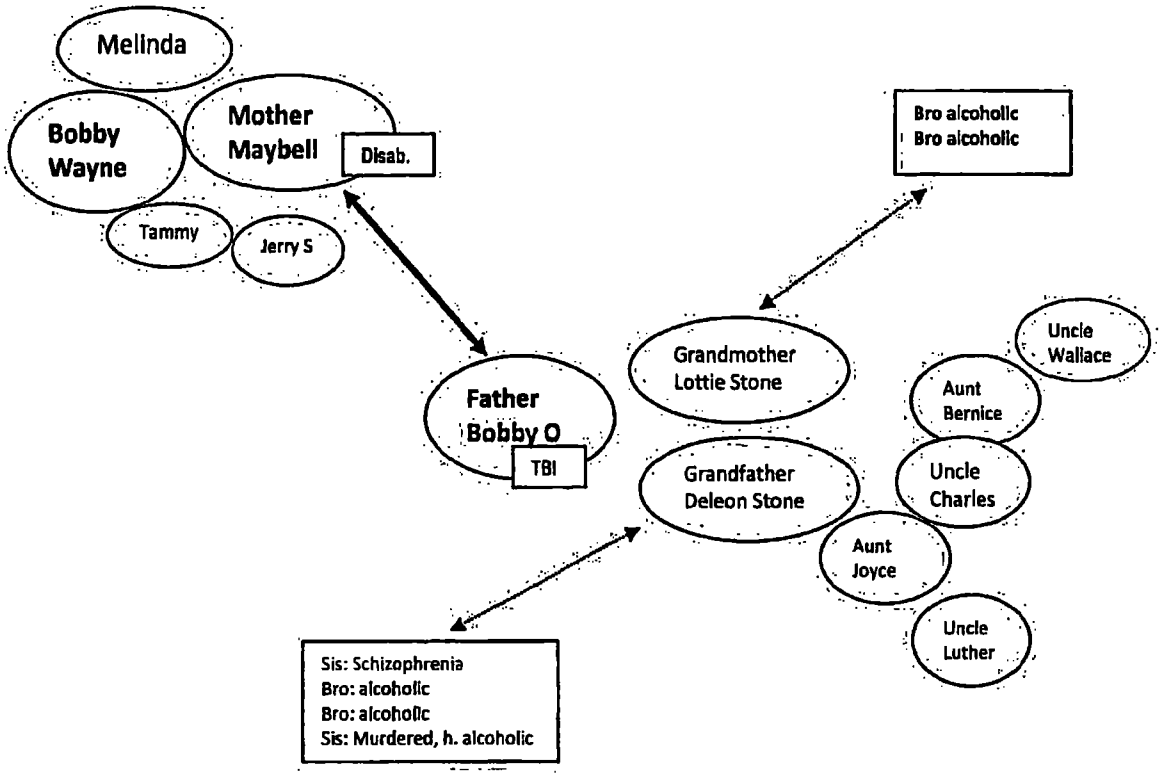
1 -- Poston Years – soon after birth





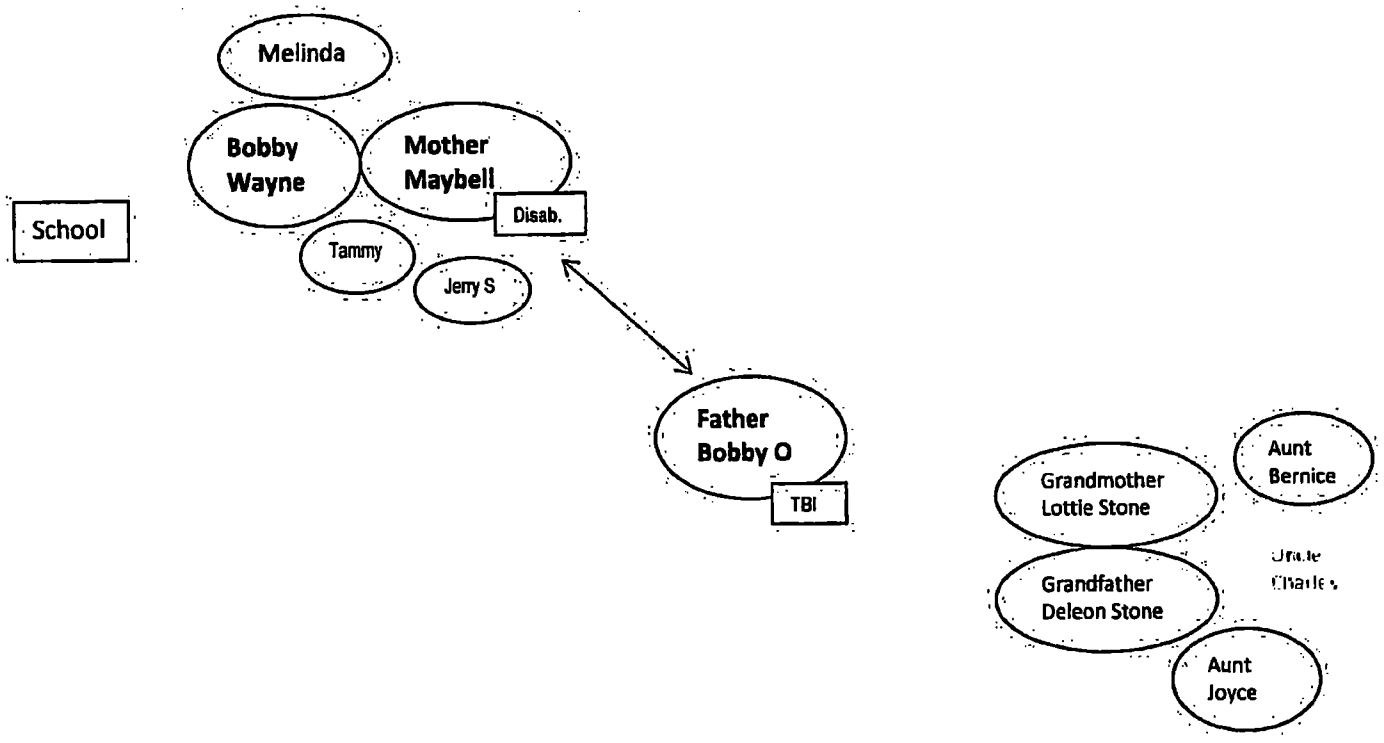
Bobby Wayne Stone – Key Relationships

2 -- Poston Years with Hx



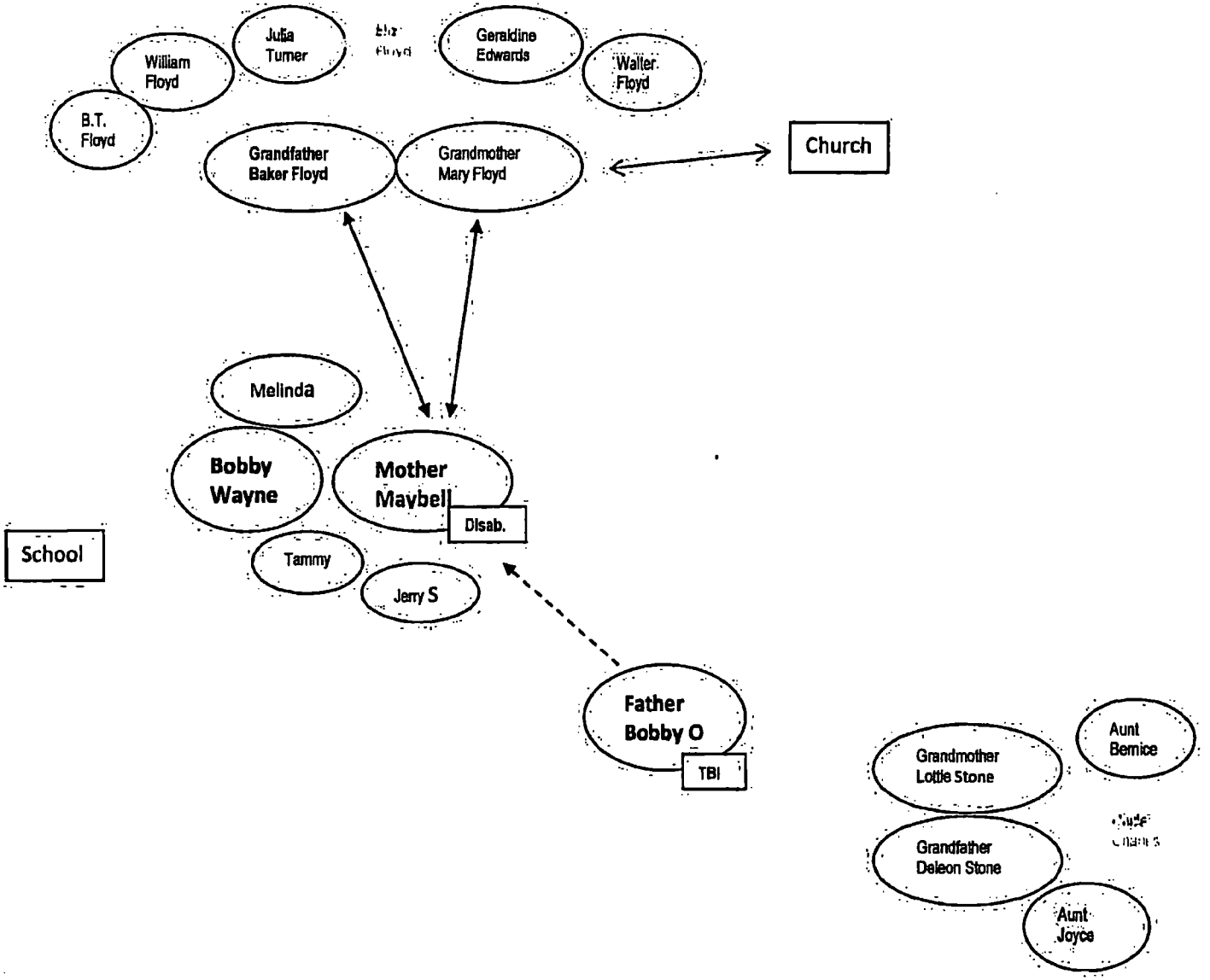
Bobby Wayne Stone – Key Relationships

3 – Stone – problems



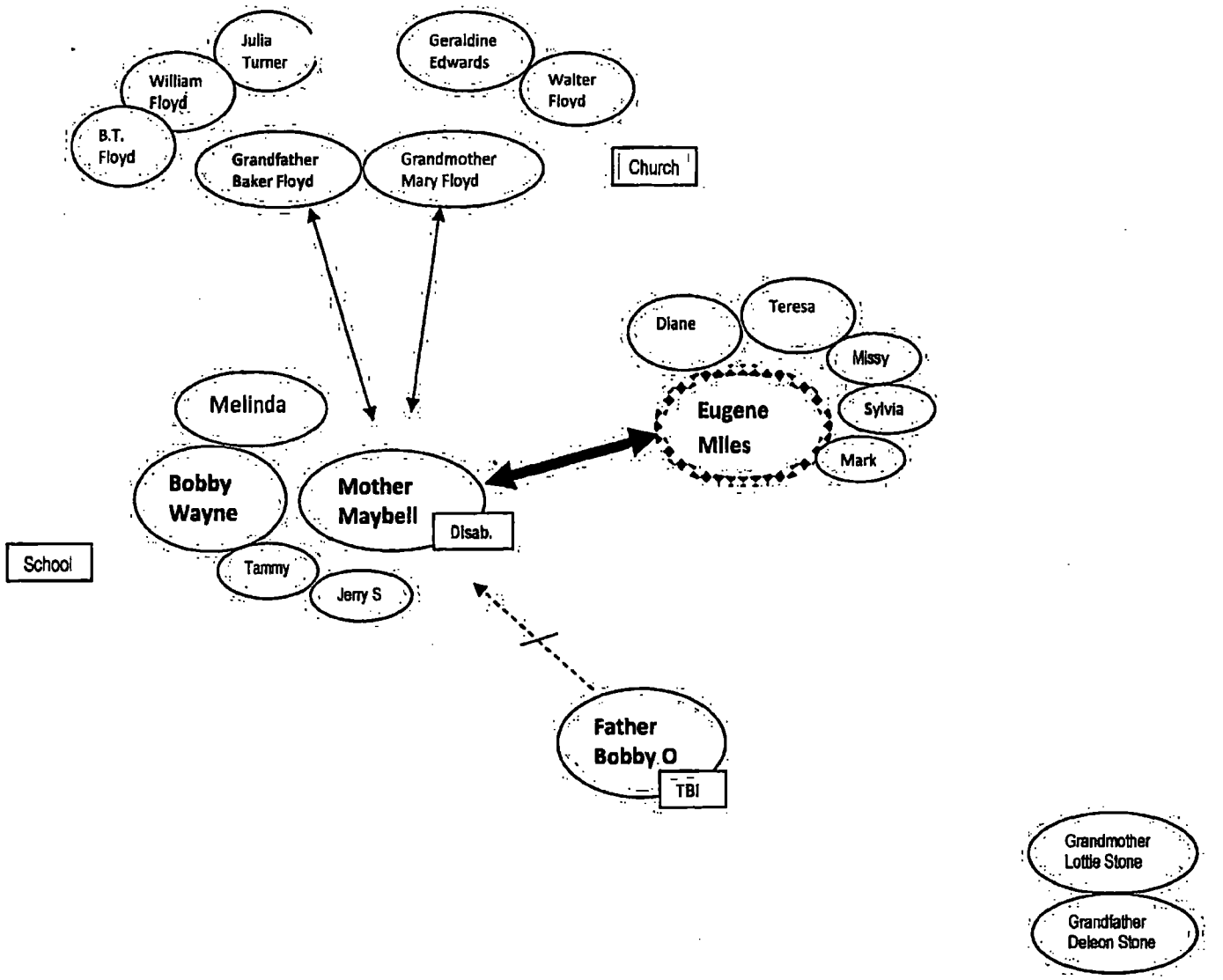
Bobby Wayne Stone – Key Relationships

4 - Floyds



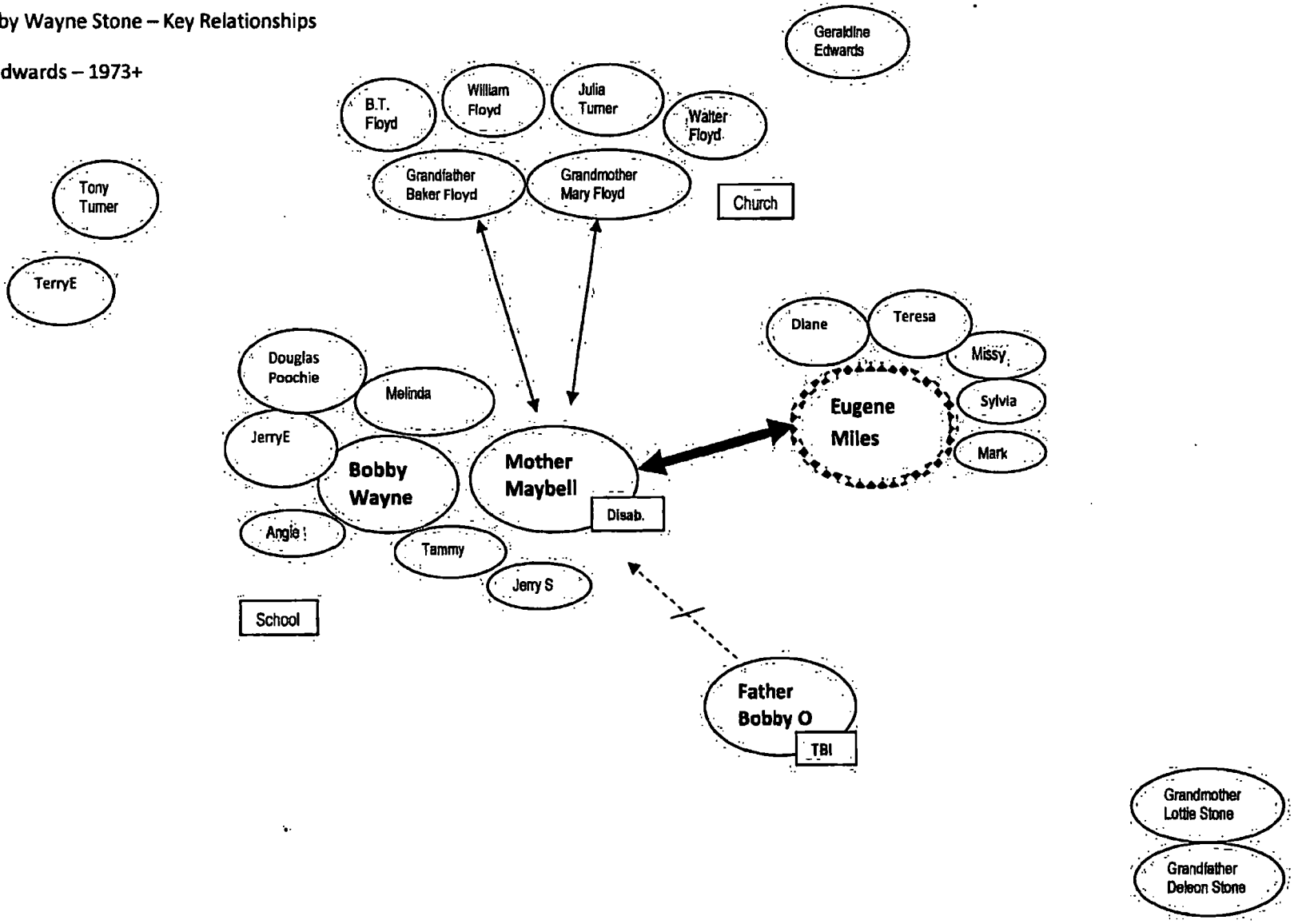
Bobby Wayne Stone – Key Relationships

5 - Miles – 1973+



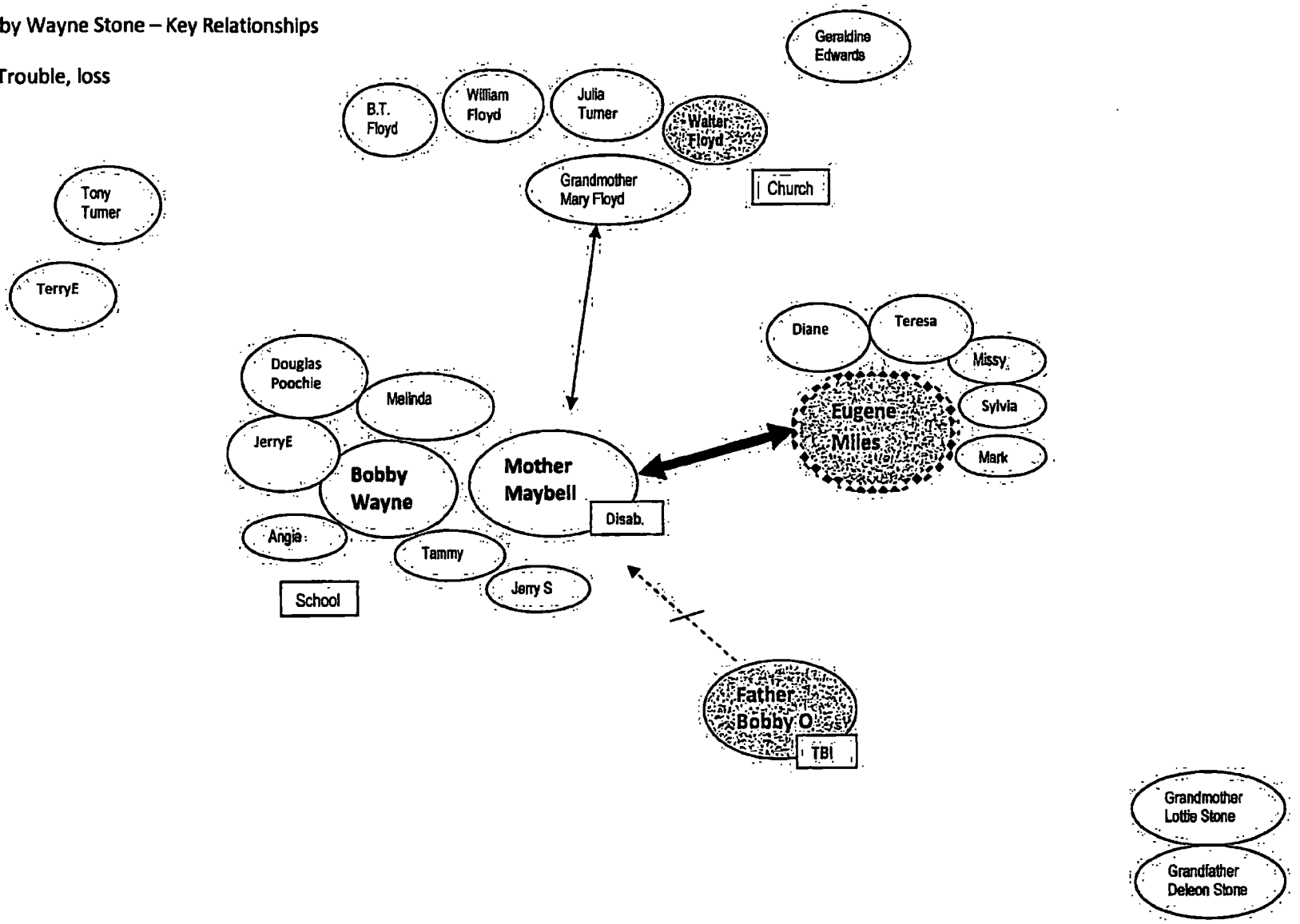
Bobby Wayne Stone – Key Relationships

6 - Edwards – 1973+



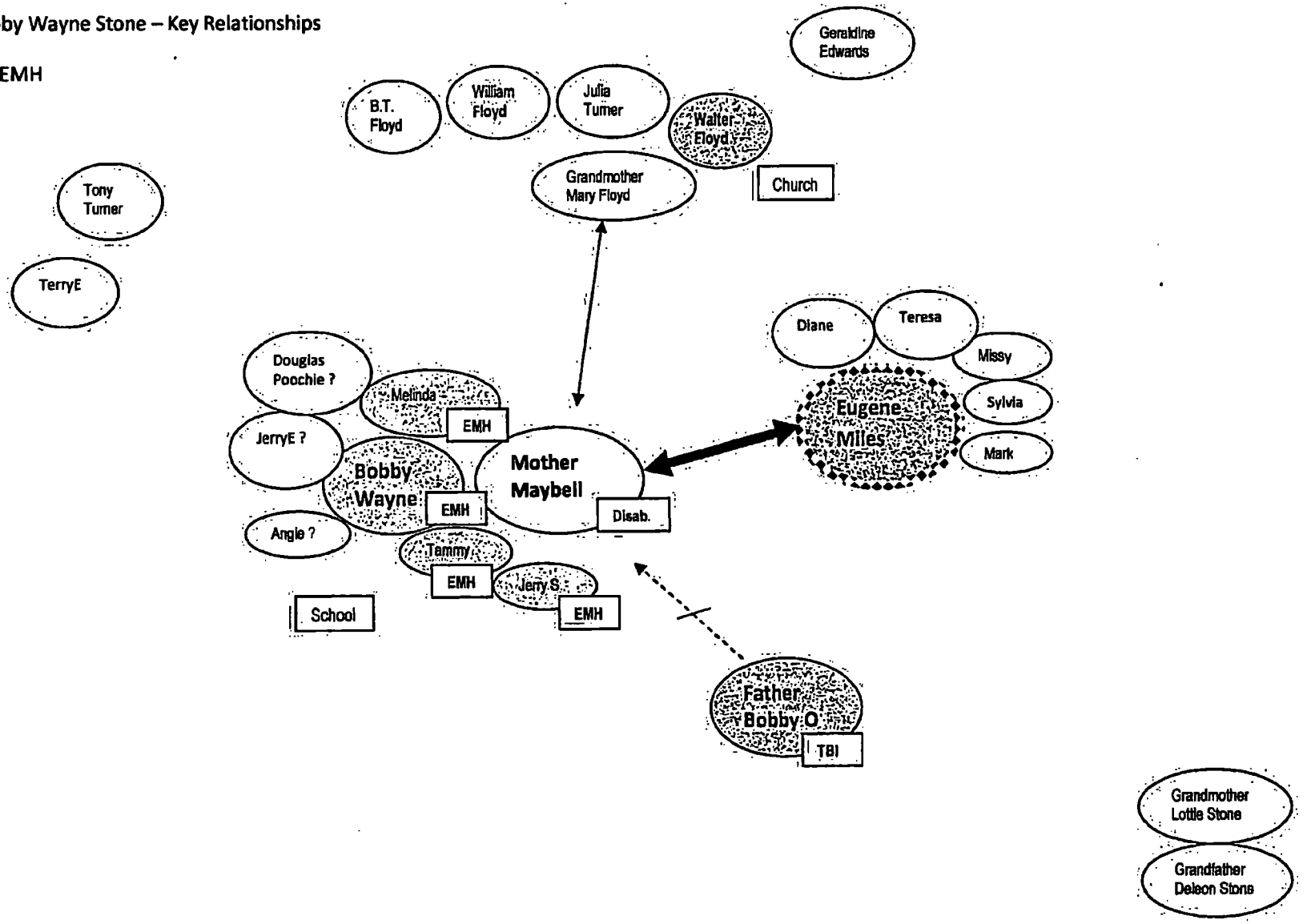
Bobby Wayne Stone – Key Relationships

7 – Trouble, loss



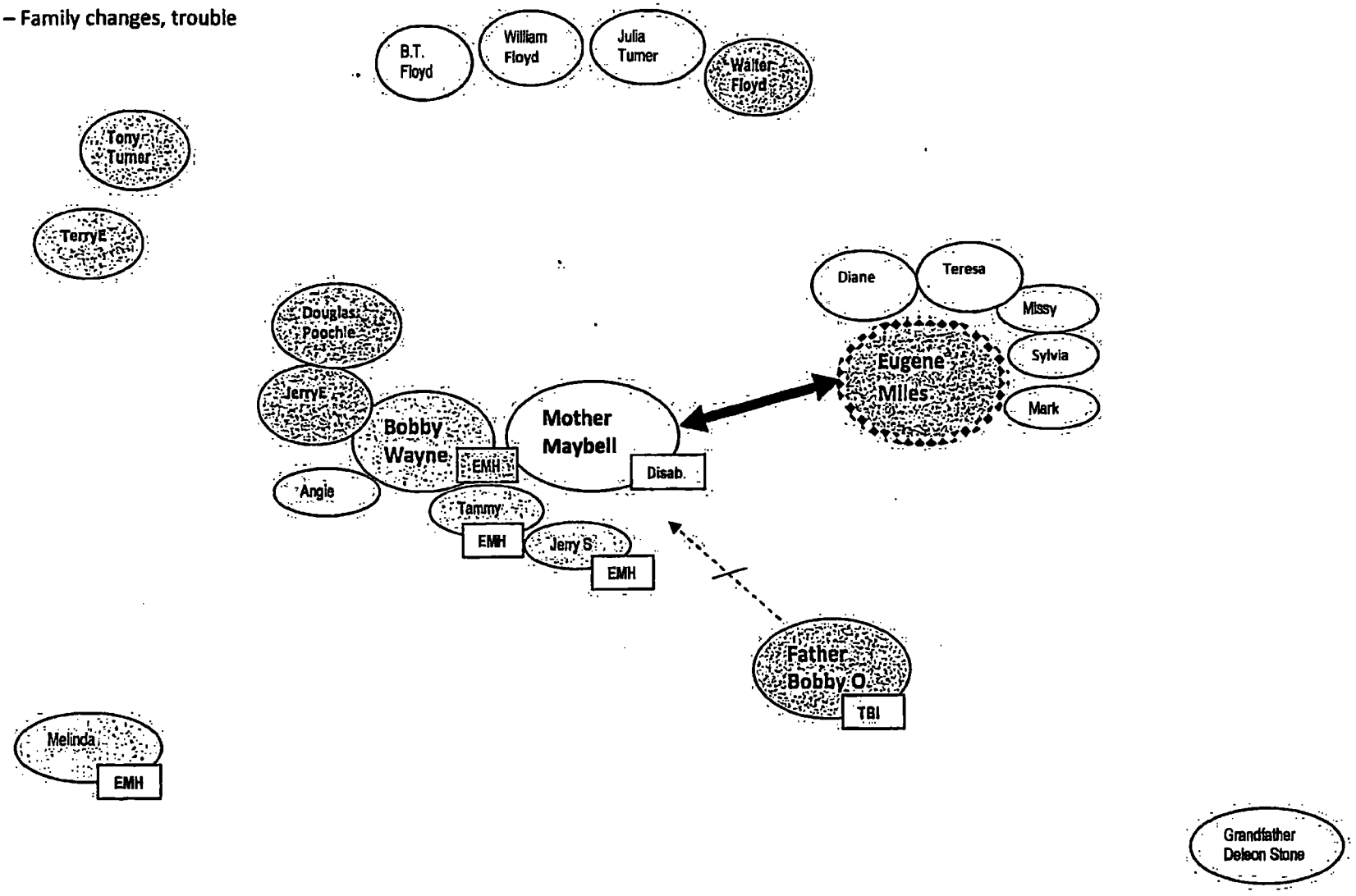
Bobby Wayne Stone – Key Relationships

8 - EMH



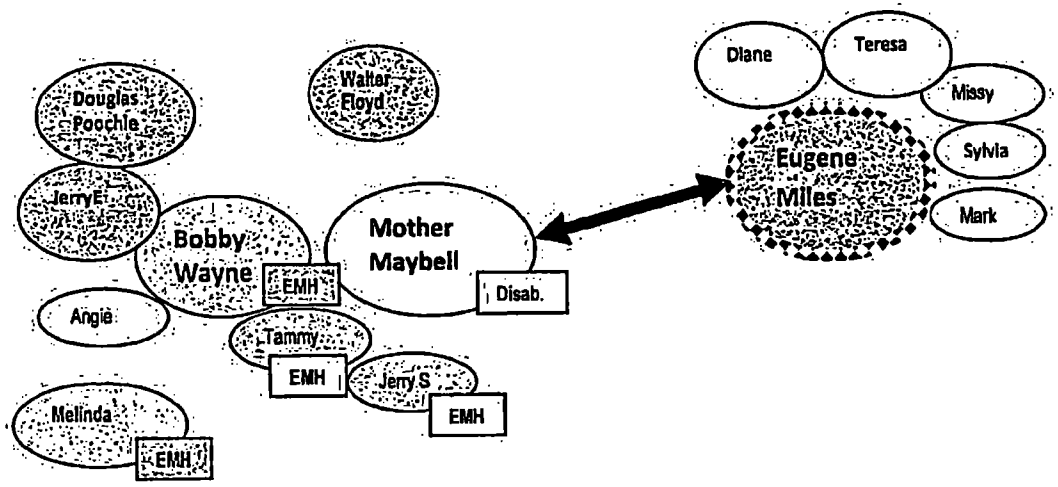
Bobby Wayne Stone – Key Relationships

9 – Family changes, trouble



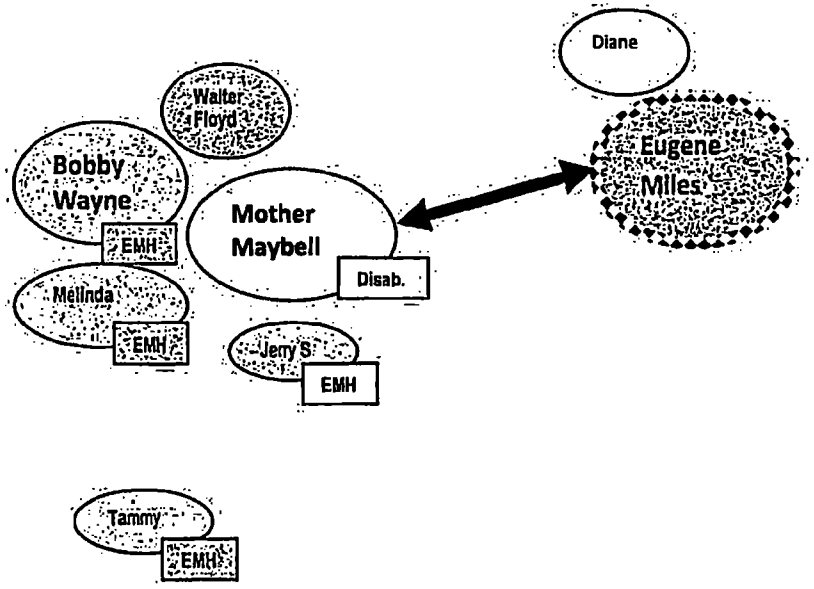
Bobby Wayne Stone – Key Relationships

10- Dad's death



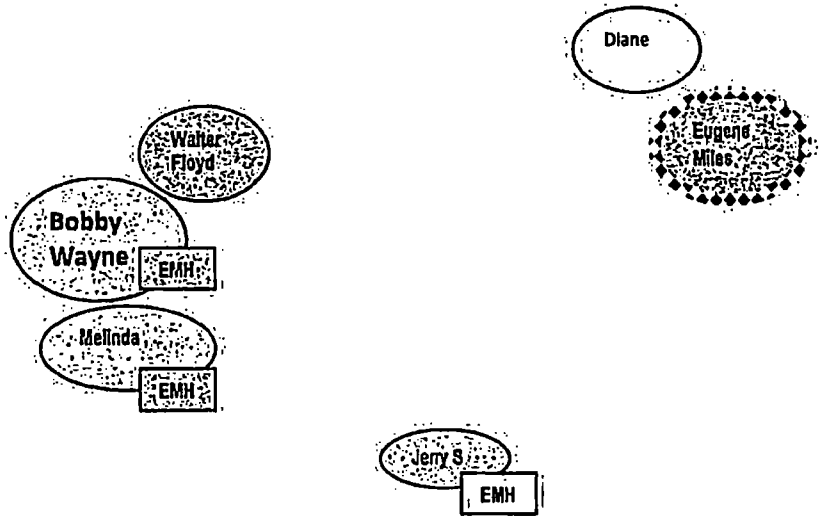
Bobby Wayne Stone – Key Relationships

11 – Post-release



Bobby Wayne Stone – Key Relationships

12- After Mom's death



4

AUTHORIZATION FOR RELEASE
OF CONFIDENTIAL INFORMATION AND RECORDS
CONCERNING NEXT OF KIN

I, by this release or a photocopy thereof, authorize and request you to release to my attorneys John H. Blume and Robert Lominack or their designated representative, any and all information and/or records relating to my deceased father, Bobby A. Stone.

This document also authorizes any treating doctors, experts, lawyers, or other persons to discuss otherwise confidential information with the above-mentioned legal representatives. In consideration of such disclosure, I hereby release you (in your individual and/or institutional capacity) from any and all liability arising from the disclosure of otherwise confidential information concerning my father.

You are specifically authorized to photocopy these records and to release copies to the above-mentioned legal representatives.

Signed: Melinda S. Parrott
Melinda Stone Parrott

Sworn to and subscribed
before me this 9th
day of December, 2008

Jill A. Rider
NOTARY PUBLIC, STATE OF SOUTH CAROLINA

My commission expires June 8, 16.

SOUTH CAROLINA SANATORIUM

STATE PARK, S. C.

ADMISSION AND DISCHARGE SHEET

Previous Hospital Nos. _____ Hospital No. 18,840

Full Name Bobby Ozine Stone Address 420 B Road, Sumter, S.C.

Admission Date 4-5-68 Died or Discharged Date October 15, 1968 @ 8 PM

Age 21 Sex M. F. Race White M. S. W. Married Single Religion Baptist

Birthplace Williamsburg (County) Kingstree (Town) Williamsburg (County) S.C. Date of Birth [redacted]

Occupation Sumter Ice Fuel Co Employer _____ Length Residence in S. C. _____

Date last worked at this occupation _____ Years spent in this occupation _____

Nearest Friend Lottie mae Stone (mother) Address Greeleyville S.C. Phone No. _____

In case of emergency notify Mrs Mary Bell Stone Address Same Phone No. _____

Physician E.A. Heiseke (w-in) Address Sumter S.C.

If married, widowed or divorced, husband or wife of Mrs mary Bell Stone

Father's Name De Leader Stone Birthplace Florence Co

Mother's Maiden Name Lottie M. Haselden Birthplace Williamsburg Co

No. of children in the home and their ages 3, ages 4-2 & 6 months

Is Patient a Veteran? No If Yes, What War? _____ Social Security No. [redacted]

I promise to follow the instructions in the use of gauze while coughing, and the disposal of sputum and agree to abide by the rules, regulations and official requests of the Sanatorium.

B/P 120/70

V.C. 52%

Bobby Ozine Stone Patient

Lelia Brice Simpson R.N. Admitting Officer

Height 65½ in. Admission Wt. 137 Discharged Wt. 140 Gain 3 lbs. Loss _____ lbs.

Diagnosis (Classification) Chr. pulmonary, mixed Adv. Right

Complications _____

Dismissed: Expiration of time _____ With permission ✓ Without permission _____ Death _____

Treatment and results 3cc Pent + Chlor Theo IM

Ta Tabs - PAS syrup + INH syrup Hct 4 gm ISNS

Xray + Sputum q 2wks ; Wt. 2 lbs gain ; Tolerance

Condition on discharge Improved Prognosis Guarded

Reasons for unimprovement _____

Cause of death _____

Autopsy _____ Cause of death, autopsy _____

Date 12/11/68 Signed J.B. Wynne Attending physician

FORM H-Stat 18

SOUTH CAROLINA SANATORIUM
State Park, S. C.
April 8, 1968

13,941

Director
County Health Department
Sumter, S. C. 29150

Dear Doctor:

The patient named below was admitted to the South Carolina Sanatorium April 5, 1968.

Mr. Bobby Owings Stone (MR)
[redacted]
Sumter, S. C.

Date of birth: December 3, 1937.

The application for admission was signed by E. A. Heise, M. D.
Sumter, S. C.

Very truly yours,

fn
cc: Central Register

(Miss) Marie McMakin
Registrar

SOUTH CAROLINA SANATORIUM

Name Bobby Gene Stone (Surname first) Floor No. 1st Ward Room Room 145

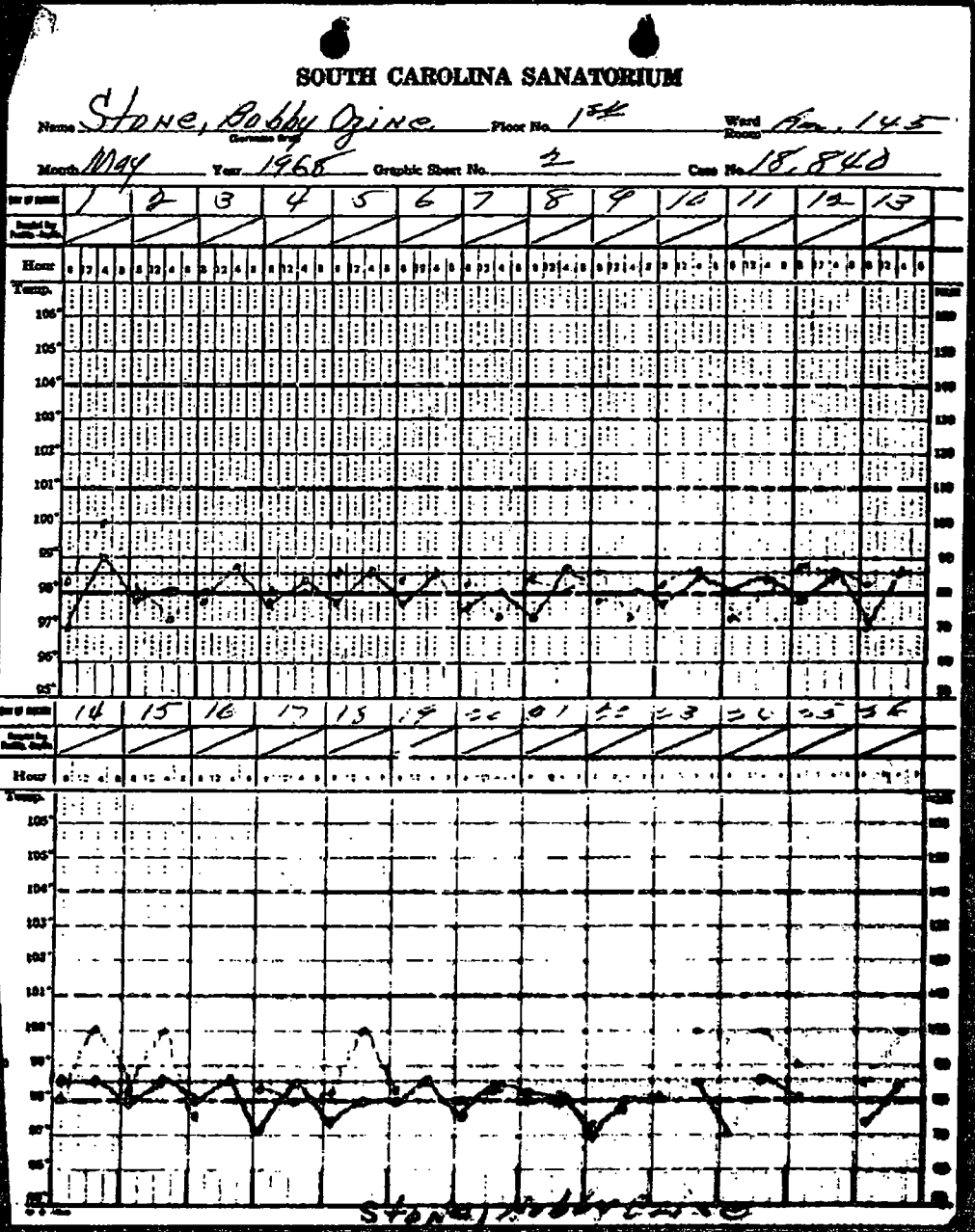
Month April 5th Year 1968 Graphic Sheet No. 1 Case No. 18848

Date or days	5	6	7	8	9	10	11	12	13	14	15	16	17
Hour	8 12 4 8 12 4 8 12 4

SOUTH CAROLINA SANATORIUM

Name Stone, Bobby Ozine Floor No. 1st Ward Room Am. 145

Month May Year 1966 Graphic Sheet No. 2 Case No. 18,840



SOUTH CAROLINA SANATORIUM

Name Stone Bobby Ozine Floor No. Ward Room Ron 145

Month May - June Year 1968 Graphic Sheet No. 3 Case No. 18, 840

Date of month	27	28	29	30	31	1	2	3	4	5	6	7	8
Hour													
Temp.													

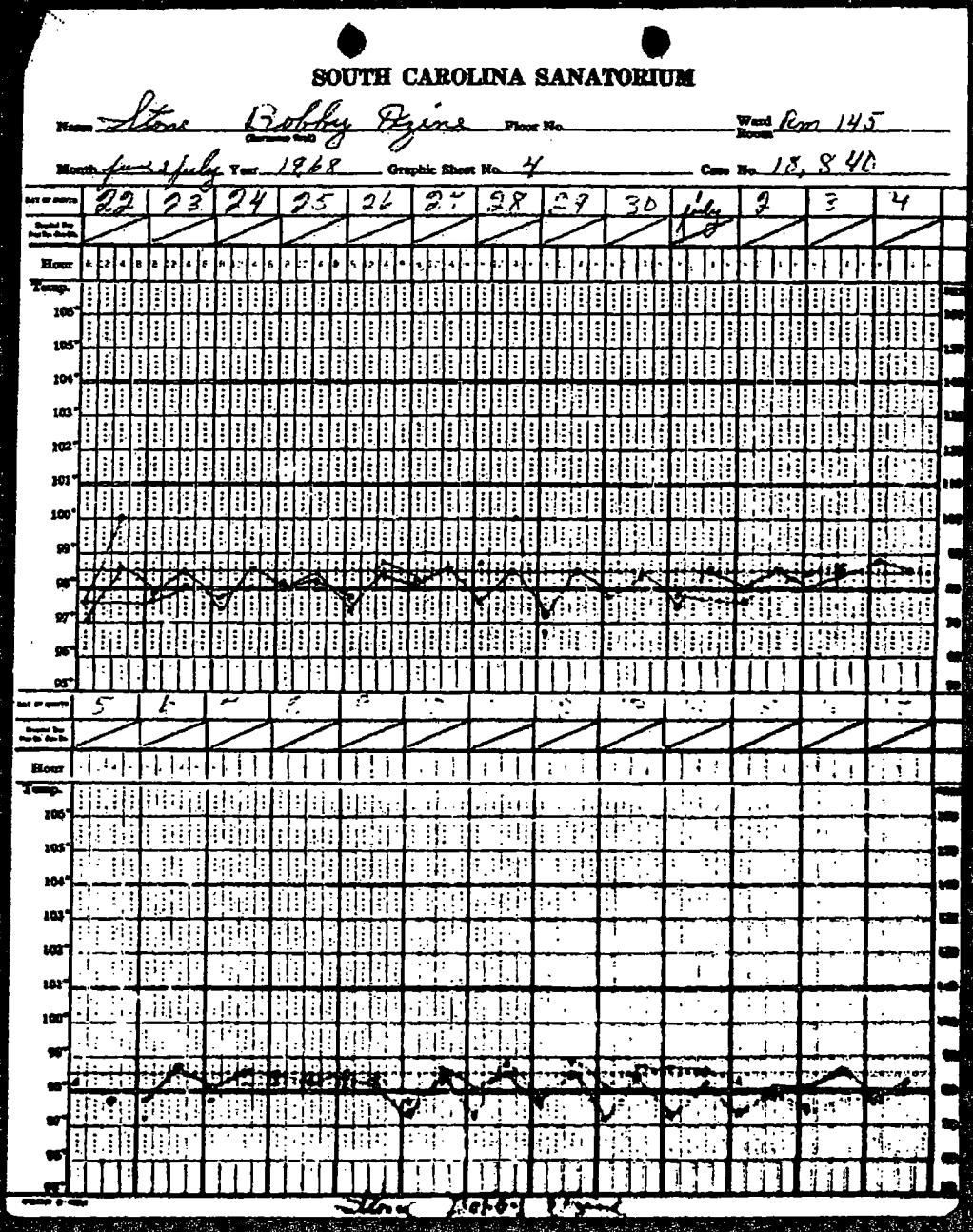
Date of month	9	10	11	12	13	14	15	16	17	18	19	20	21
Hour													
Temp.													

Stone Bobby Ozine

SOUTH CAROLINA SANATORIUM

Name Stone Bobby Ezins (Surname first) Floor No. Ward Room Rm 145

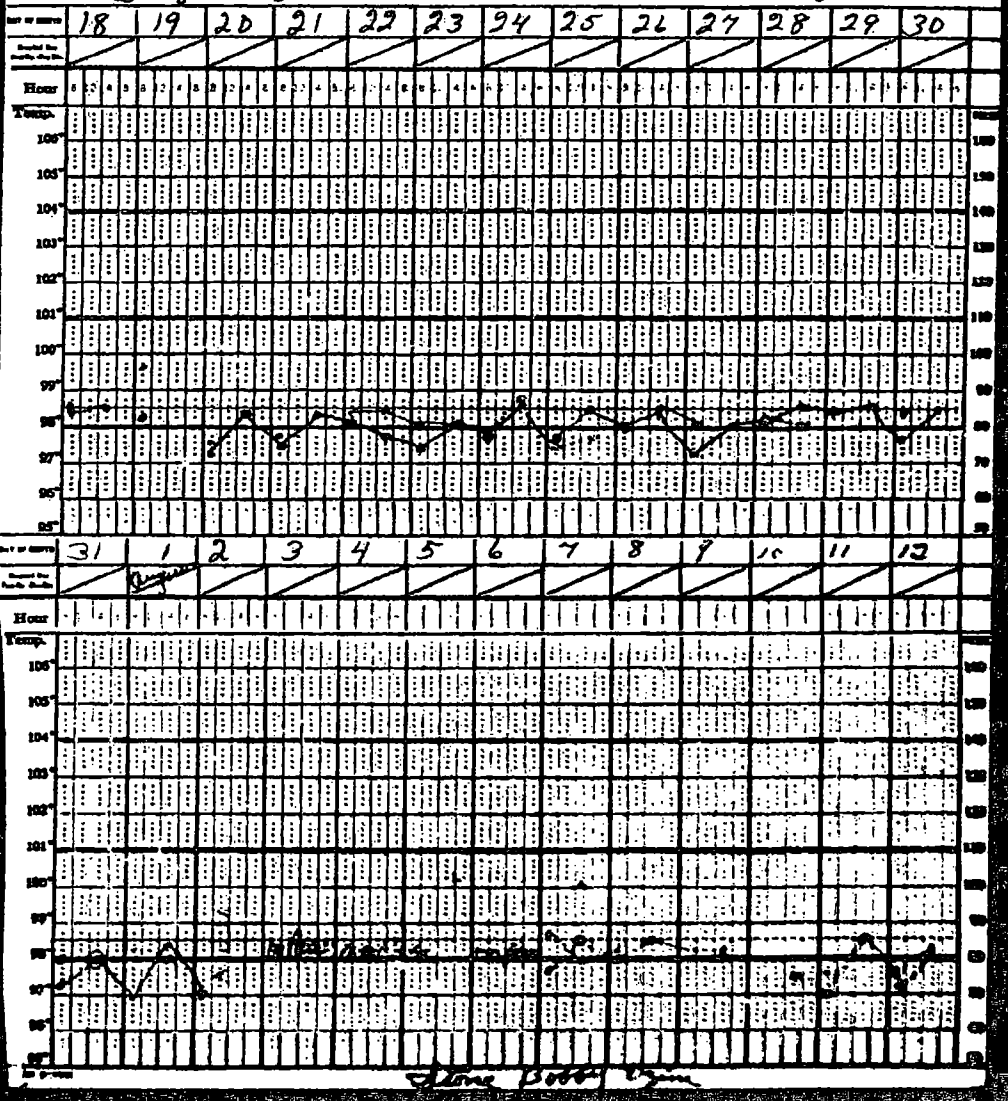
Month June & July Year 1968 Graphic Sheet No. 4 Case No. 18,840



SOUTH CAROLINA SANATORIUM

Name Stone, Bobby Eugene (Surname first) Floor No. Ward Room 145

Month July & August Year 1968 Graphic Sheet No. 5 Case No. 18,840

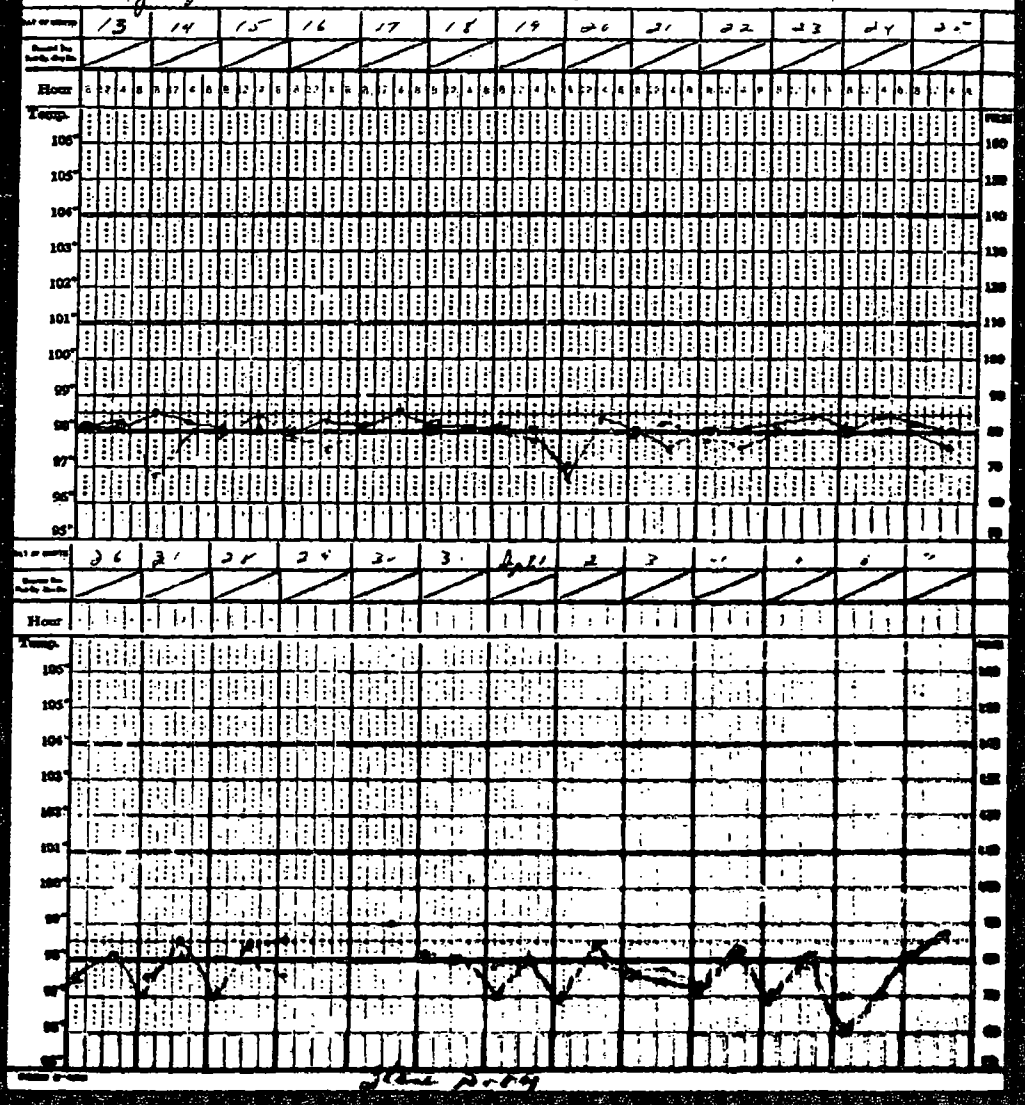


Stone, Bobby Eugene

SOUTH CAROLINA SANATORIUM

Name Atone Bodley (Surname first) Floor No. 1st Center Ward Room 142

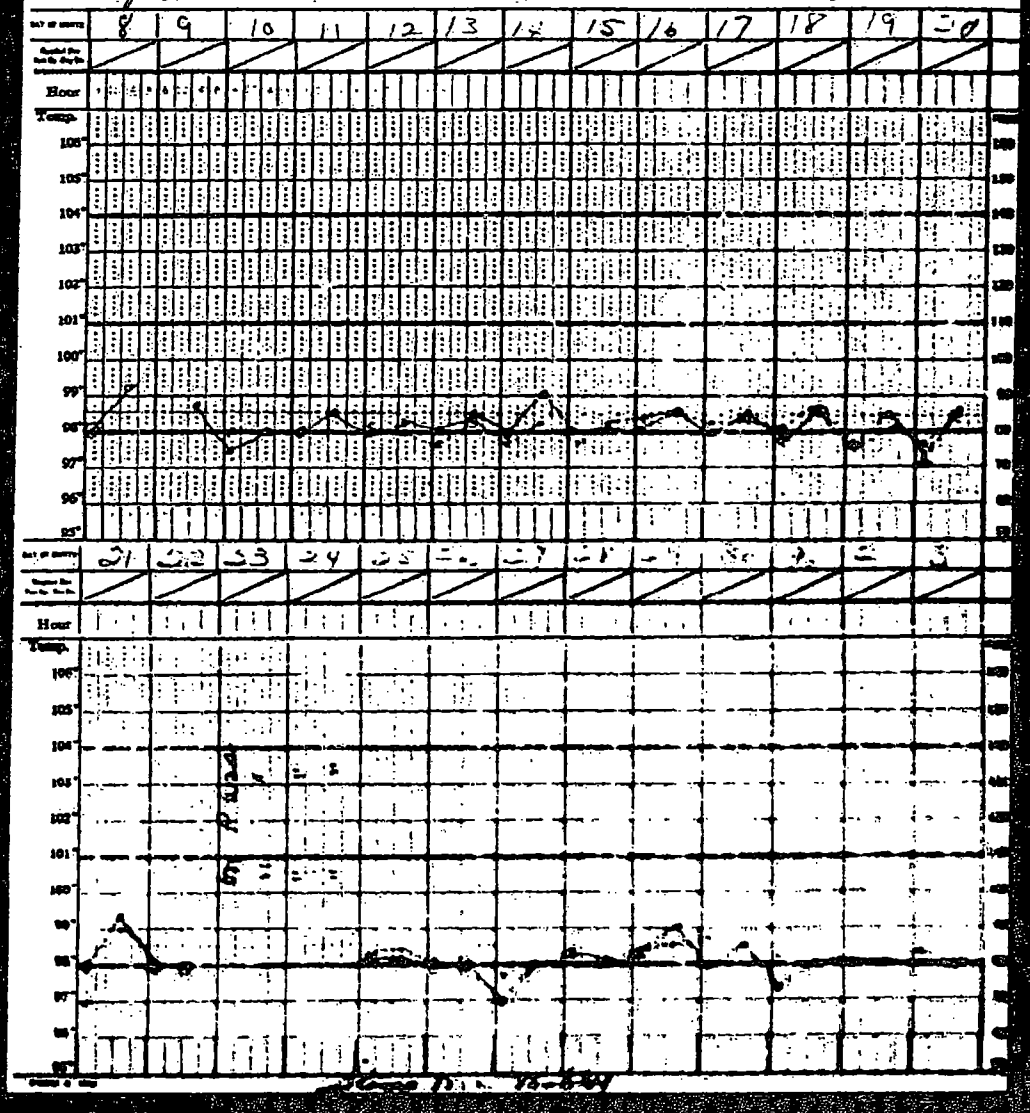
Month August Year 1946 Graphic Sheet No. 6 Case No. 18, P.40



SOUTH CAROLINA SANATORIUM

Name Stone Bobby (Surname first) Floor No. Ward / Room

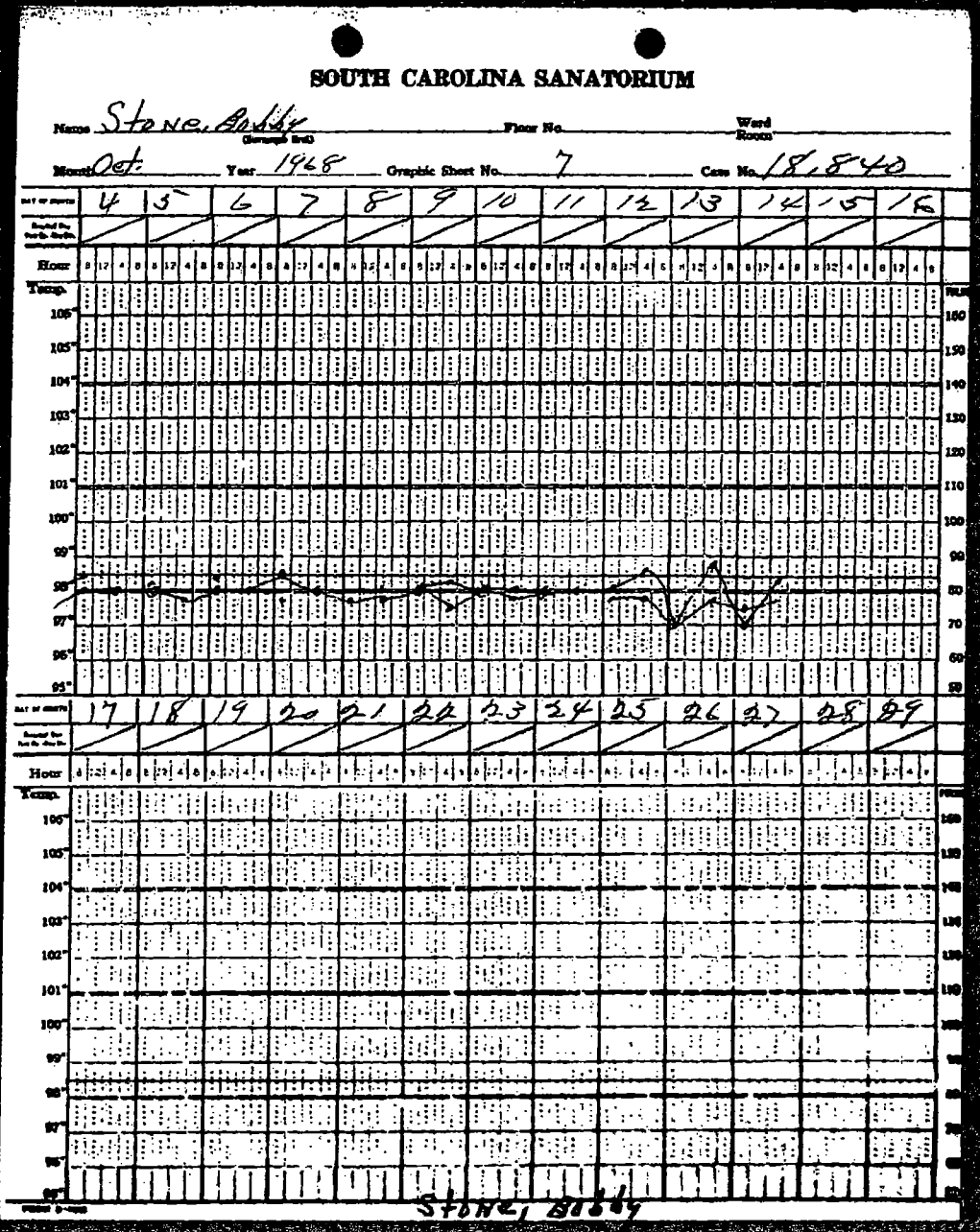
Month Sept-Oct Year 1968 Graphic Sheet No. 67 Case No. 18,840



SOUTH CAROLINA SANATORIUM

Name Stone, Bobby (Surname First) Floor No. Ward Room

Month Oct. Year 1968 Graphic Sheet No. 7 Case No. 18,840



Stone, Bobby

SOUTH CAROLINA SANATORIUM

STATE PARK, S. C.

WEIGHT CHART

Arthur Spivey Stone 18 840

DATE 4/5/46

167

157

147

137

127

ADMISSION WEIGHT

DATE

ADMISSION WEIGHT

VOGUE PRESS Form S-P-SS-Sm

Florida 15 a 6...

SOUTH CAROLINA SANATORIUM

Bobby Ozine Stone

18,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
4-5-68	1pm	New Admission	4/10	9⁰⁰	Repeat Strept Gm i
		General Condition		9-1	PAS 4gms INH 100mg
		Seemly good.			B. Simmons
		Temp. 98.6 Pulse 70	4-10-68	6⁰⁰	Urine test ++
		Wt. 137 lbs. B.P.			H Dentist today
		120/70			Tooth back
		Fitted 3 d U C Tab			PAS 4gm IM Inh 100mg
		Last day of			E. Hammond
		War 4-2-68.	4-11	9⁰⁰	Strept Gm i
		Also. X-Ray at		9-1	PAS 4gms Inh 100mg
		Sputum x 3			E. Diggs
		LBL room	4-11-68	6⁰⁰	PAS 4gm IM Inh 100 mg
4-5-68	4⁰⁰	Temp 98.6			E Hammond
		No Comp Comment	4-12	9⁰⁰	Strept Gm i
		E Hammond		9-1	PAS 4gms Inh 100mg
4-6-68	9⁰⁰	No complaints			E. Diggs
4-8-68	A.M	Quiet	4-12-68	6⁰⁰	PAS 4gm IM Inh 100 mg
		B Simmons			E Hammond
	10⁰⁰	Strept Gm i	4/13/68	9-1	PAS 4 gms Inh 100 mg
		PAS 4gms INH 100mg			Strept Gm i M. E. D
		B-Simmons	4-13-68	6⁰⁰	PAS 4 gm IM Inh 100 mg
	6⁰⁰	PAS 4gms Inh 100 mg			E Hammond
		T. Jefferson	4/14/68	9-1	PAS 4 gms Inh 100 mg
4-9-68	9⁰⁰	Strept Gm i			Strept Gm i M. E. D
	9-1	PAS 4gms INH 100mg	4/14/68	6⁰⁰	PAS 4 gm IM Inh 100 mg
		B-Simmons			M. E. D
	6⁰⁰	PAS 4gms Inh 100 mg	4/15/68	9-1	PAS 4 gms Inh 100 mg
		T. Jefferson			Strept Gm i M. E. D
			4/15/68	6⁰⁰	Conditions Remain Same

Form 6—1056—11-67 Name Stone Bobby Ozine Sheet No. 1

SOUTH CAROLINA SANATORIUM

18,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
4/16/68	900	Strept Gm i÷	4-24-68	600	PAS 4gms Tab 100mg
	9-1	PAS 4gms Inh 100mg			I. Johnson
		m.e.d	4/25/68	900	Strept Gm i÷
	600	PAS 4gms Tab 100mg		9-1	PAS 4gms Inh 100mg
		I. Johnson			m.e.d
4/17/68	900	Strept Gm i÷		600	PAS 4gms Tab 100mg
	9-1	PAS 4gms INH 100mg			I. Johnson
		B. Simmons	4/26/68	900	Strept Gm i÷ I.m
	600	PAS 4gms Tab 100mg		9-1	PAS 4gms INH 100mg
		I. Johnson			B. Sparks
4-18-68	900	Strept Gm i÷	4-27-68	600	PAS Gm iv. Inh 100mg
	9-1	PAS 4gms INH 100mg			by Command
		B. Simmons	4-28	900	Strept Gm i÷ I.m.
	600	PAS 4gms Tab 100mg		9-1	PAS 4gms INH 100mg
		I. Johnson			B. Sparks
4-19-68	900	Strept Gm i÷	4-29-68	600	PAS Gm iv. Inh 100mg
	9-1	PAS 4gms INH 100mg			by Command
		B. Simmons	4/30	900	Strept Gm i÷
	600	PAS 4gms Tab 100mg		9-1	PAS 4gms INH 100mg
		I. Johnson			B. Simmons
4-20-68	900	Strept Gm i÷		600	PAS 4gms Tab 100mg
	9-1	PAS 4gms INH 100mg			I. Johnson
		B. Simmons	[illegible]		
	600	PAS 4gms Tab 100mg			
		I. Johnson	5/1/68	900	Strept Gm i÷
4-21-68	900	Strept Gm i÷		9-1	PAS 4gms INH 100mg
	9-1	PAS 4gms INH 100mg			Up and about
		No Complaints			ward.
		B. Simmons			B. Simmons

Name Stone, Bobby Case

Sheet No. 2

SOUTH CAROLINA SANATORIUM

18,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
4-26-68	6[illegible]	PAS 4gms INH 100 mg	5/2/68	900	Strept Gm I.
		E. Tobias		9-1	pas 4 Gms Inh 100 mg
4/27/68	900	Strept Gm I.			M.E.D.
		pas 4 Gms Inh 100 mg	5/3/68	600	pas 4 Gms Inh 100 mg
		M.E.D.			M.L.R.
	600	PAS 4gms INH 100 mg	5/3/68	900	Strept Gm I.
		E. Tobias			pas 4 Gms Inh 100 mg
4/28/68	[illegible]	Darvon Comp. Capt.			M.E.D.
		(65 mg)	5/3/68	600	pas 4 Gms Inh 100 mg.
4/28/68	9-1	pas 4 Gms Inh 100 mg			C.L. Mauldin
		M.E.D.	5/4/68	9-1	pas 4 Gms Inh 100 mg
	600	PAS 4gms INH 100 mg			Strept Gm I.
		E. Tobias			M.E.D.
4/29/68	900	Strept Gm I	5-4-68	600	Darvon Comp. Inh 100 mg
	9-1	PAS 4gms INH 100mg			L. Hammond
		B. Simmons	5/5/68	9-1	pas 4 Gms Inh 100 mg
4/29/68	600	pas 4 Gm. Inh 100 mg			Strept Gm I.
		M.L.R.			M.E.D.
4/30/68	900	Strept Gm I	5-5-68	600	Darvon Comp Inh 100 mg
	9-1	PAS 4gms INH 100mg			L. Hammond
		B. Simmons	5/6/68	900	Strept Gm I.
4-30-68	600	Darvon Comp Inh 100 mg		9-1	pas 4 Gms Inh 100 mg
		L. Hammond			M.E.D.
5/1/68	900	Strept Gm I	5-6-68	600	Darvon Comp Inh 100 mg
	9-1	pas 4 Gms Inh 100 mg			L. Hammond
		M.E.D.	5/7/68	900	Strept Gm I.
5-1-68	600	Darvon Comp Inh 100 mg		9-1	pas 4 Gms Inh 100 mg
		L. Hammond			M.E.D.

Form 6—1036—11-67 Name Stone, Bobby Sheet No. 3

SOUTH CAROLINA SANATORIUM

Stone Bobby 19,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
5-7-68	6[00]	PAS 4gms INH 100 mg B Hammond	5/13/68	6[00]	PAS 4gms INH 100 mg I. Johnson
5/8/68	900	Strept Gm i	5/14	9-1	PAS 4gms INH 100 mg B Simmons
	9-1	Pas 4 gms with 100 mg m.e.d		6[00]	PAS 4gms INH 100 mg I. Johnson
	6[00]	PAS 4gms INH 100 mg I. Johnson	5/15/68	900	Strept Gm i
5/9/68	900	Strept Gm i		9-1	Pas 4 gms with 100 mg m.e.d
	9-1	PAS 4gms INH 100 mg B. Simmons	5/15/68	6[00]	PAS 4gms INH 100 mg B Hammond
	6[00]	PAS 4gms INH 100 mg I. Johnson	5/16/68	900	Strept Gm i
5/10/68	900	Strept Gm i		9-1	Pas 4 gms with 100 mg m.e.d
	9-1	PAS 4gms INH 100 mg B. Simmons	5/16/68	6:00	pas 4 gms INH 100 mg A.L. Ryans
	6[00]	PAS 4gms INH 100 mg I. Johnson	5-17-68	9-1	PAS 4 gms INH 100 mg
5-11-68	900	Strept Gm i		9[00]	Strept Gm i I.M. K. Sparks
	9-1	PAS 4gms INH 100 mg B. Simmons		6[00]	PAS 4 gms INH 100 mg I. Johnson
	6[00]	PAS 4gms INH 100 mg I. Johnson	5-18-68	9-1	PAS 4 gms INH 100 mg
5-12-68	900	Strept Gm i		9[00]	Strept Gm i I.M. K. Sparks
	9-1	PAS 4gms INH 100 mg B. Simmons		6[00]	PAS 4 gms INH 100 mg I. Johnson
	6[00]	PAS 4gms INH 100 mg I. Johnson	5-19-68	9-1	PAS 4 gms INH 100 mg
5/13/68	900	Strept Gm i		9[00]	Strept Gm i I.M. B. Simmons
	9-1	Pas 4 gms with 100 mg Stone Bobby			R. Saunders

Form 4-1094-11-67 Name Stone Bobby Sheet No. 4

SOUTH CAROLINA SANATORIUM

18,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
5/16/68	6[00]	PAS 4gms IM 100 mg I. Johnson	5/26/68	6[00]	PAS Gm IV. Sub 100 mg. L. Hammond
5-20-68	9[00]	Strept Gm i.m.	5/26	900	Strept Gm i
	9-1	PAS 4gms Sub 100 mg L. Boggs		9-1	PAS 4gms INH 100 mg B. Simmons
	6[00]	PAS 4gms IM 100 mg I. Johnson	5/27/68	6[00]	PAS Gm IV Sub 100 mg L. Hammond
5-21-68	9[00]	Strept Gm i.m.	5/27	900	Strept Gm i
	9-1	PAS 4gms Sub 100 mg L. Boggs		9-1	PAS 4gms INH 100 mg B. Simmons
5-21-68	6[00]	Pas 4 Gm Sub 100 mg M.L.K.		6[00]	PAS 4gms IM 100 mg I. Johnson
5-22-68	900	Strept Gm i	5/28	900	Strept Gm i
	9-1	PAS 4gms INH 100 mg B. Simmons		9-1	PAS 4gms INH 100 mg B. Simmons
5-22-68	6[00]	Pas 4 Gm Sub 100 mg M.L.K.	5/28/68	6:00	Pas 4 gms Sub 100 mg I. Johnson a.b.c.
5-23-68	9[00]	Strept gm i.m.	5/29/68	9+1	PAS 4 gms Sub 100 mg
	9-1	PAS 4 gms Sub 100 mg L. Boggs		9[00]	Strept gm i Im Blazing K. Sparks
5-23-68	6[00]	PAS Gm IV Sub 100 mg L. Hammond		6[00]	PAS 4 gms IM 100 mg I. Johnson
5-24-68	900	Strept Gm i	5/30/68	9[00]	Strep i Gm IM
	9-1	PAS 4gms INH 100 mg B. Simmons		9-1	PAS gms 4 - INH - 100 mg in Ivy
5-24-68	6[00]	PAS Gm IV. Sub 100 mg L. Hammond		6[00]	PAS 4 gms IM 100 mg I. Johnson
5-25-68	900	Strept Gm i	5/31	900	Strept Gm i Sub 50 mg
	9-1	PAS 4gms INH 100 mg B.S. Blazing Stare Busby		9-1	PAS 4gms INH 100 mg B.S.

Form 6—1066—11-67

Sheet No. 5

SOUTH CAROLINA SANATORIUM

18,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
5/31/68	6am	PAS 4gms INH 100mg J. Johnson	6/6/68	6am	PAS 4gms INH 100mg J. Johnson
6/1/68	9am	Strept Gm i.m. B/6 50mg	6/7	9am	Strept Gm i.m. B/6 50mg
	9-1	PAS 4gms INH 100mg B. Simmons		9-1	PAS 4gms INH 100mg B. Simmons
	6pm	PAS 4gms INH 100mg B/6 50mg J. Johnson		6pm	PAS 4gms INH 100mg J. Johnson
6/2/68	9am	Strept Gm i.m. B/6 50mg	6/8/68	9a	Pas 4gms INH 100mg
	9-1	PAS 4gms INH 100mg B. Simmons		9am	B/6 50mg J. Johnson a.b.e.
	6pm	PAS 4gms INH 100mg J. Johnson	6/9/68	9a	Pas 4gms INH 100mg
6-3-68	9am	Strept Gm i.m. B/6 50mg		9am	B/6 50 mg J. Johnson
	9-1	PAS 4gms INH 100mg B. Simmons	6/9/68	6pm	Pas 4gms INH 100mg J. Johnson a.b.e.
	6pm	PAS 4gms INH 100mg J. Johnson	6-10	9am	B/6 Strept Gm i.m. B/6 50mg
6-4-68	9am	Strept Gm i.m. B/6 50mg		9-1	PAS 4gms INH 100mg B. Simmons
	9-1	PAS 4gms INH 100mg B. Simmons		6pm	PAS 4gms INH 100mg J. Johnson
6-5-68	9am	Strept Gm i.m. B/6 50mg	6-11	9am	B/6 50 mg
	9-1	PAS 4gms INH 100mg B. Simmons		9-1	PAS 4gms INH 100mg B. Simmons
	6pm	PAS 4gms INH 100mg J. Johnson		6pm	PAS 4gms INH 100mg J. Johnson
6-6-68	9am	Strept Gm i.m. B/6 50mg	6-12	9am	Strept Gm i.m. B/6 50mg
	9-1	PAS 4gms INH 100mg B. Simmons		9-1	PAS 4gms INH 100mg B. Simmons
	9am	Strept Gm i.m. B/6 50mg			

Form 6-1000-11-67 Name Steve Billy KS Sheet No. 6

SOUTH CAROLINA SANATORIUM

18,890

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
6-11-68	6pm	Dental report		6:00	[illegible]
		Cl Wedgeberry # 4 area			
		& suture - retained	6/18/68	9:00	B6 50mg
		With [illegible]		9-1	[illegible]
	6:00	PAS 4gms INH 100mg			
		L. Johnson		6:00	[illegible]
6-13-68	9:00	B6 50mg			
	9-1	PAS 4gms INH 100mg	6/19	9:00	Strept Gm i B6 50mg
		K. Brooks		9-1	PAS 4gms INH 100mg
6/13/68	6:00	PAS 4gms [illegible]			B. Simmons
		C. Bobby			Pt. - P.O. check To return in 2 WKS - Dr. Mitchell Dr. Lawrence
6-14-68	9-1	[illegible]			
	9-1	[illegible]	6/19	6:00	PAS 4gms INH 100 mg
	6pm	[illegible]			B Hammond
	6:00	PAS 4 gms INH 100mg	6/20	9:00	B6 50mg
		L. Gibson		9-1	PAS 4gms INH 100mg
6-15-68	9:00	B6 50mg			B. Simmons
	9-1	PAS 4gms INH 100mg	6/20/68	6:00	PAS 4gms INH 100mg
		B. Simmons			B Hammond
	6:00	PAS 4gms [illegible]	6/21	9:00	Strept Gm i
		C. Bobby			Tri-Pack 600
6-16-68	9:00	B6 50mg			B. Simmons
	9-1	PAS 4gms INH 100mg		6:00	PASNA Tri-Pack 600
		B. Simmons			[illegible]
	6:00	PAS 4gms [illegible]	6/22/68	9:00	PASNA Tri-Pack 600
		C. Bobby			K. Brooks
6-17-68	9-1	[illegible]		6:00	PASNA Tri-Pack 600
	9-1	[illegible]			[illegible]
		L. Taylor			

Name Stone, Bobby

Sheet No. 7

003290

BELL & HOWELL SAFETY ▲

SOUTH CAROLINA SANATORIUM

19,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
6-23-68	9[illegible]	Tri Pack 600	6/27/68	6[illegible]	PASNA Tri Pack 600
	[illegible]	Benadryl 25mg			Benadryl 25 mg
		L. Vaughn			L. Johnson
	6[illegible]	PASNA Tri Pack 600	6/28	900	Strept Gm i
		Benadryl 25 mg			Tri-Pack 600
		L. Johnson			Benadryl 25mg
8-24-68	900	Strept Gm i			B. Simmons
		Tri-Pack 600	6/29	[illegible]	Pasna Tri Pack 600
		Benadryl 25mg			Benadryl 25 mg
		B. Simmons			B. Hammond
	6[illegible]	PASNA Tri Pack 600	6-29-68	9[illegible]	Pasna Tri-Pack 600
		Benadryl 25 mg			Benadryl 25 mg
		L. Johnson			K. Sparks
6-25-68	900	Tri-Pack 600	6/29	[illegible]	Pasna Tri Pack 600
	9-1	Benadryl 25mg			Benadryl 25mg
		B. Simmons			B. Hammond
	6[illegible]	PASNA Tri Pack 600	6/30	900	Tri-Pack 600
		Benadryl 25 mg			Benadryl 25mg
		L. Johnson			B. Simmons
6-26-68	900	Strept Gm i	6/30	[illegible]	Pasna Tri Pack 600
		Tri-Pack 600			Benadryl 25 mg
		Benadryl 25mg			B. Hammond
		B. Simmons	7/1/68	900	Strept Gm i
	6[illegible]	PASNA Tri Pack 600			Tri-Pack 600
		Benadryl 25 mg			Benadryl 25mg
		L. Johnson			B. Simmons
6-27-68	900	Tri-Pack 600	7/1/68	[illegible]	Pasna Tri Pack 600
	9-1	Benadryl 25mg			Night Section Steroid
		B. Simmons			Stone Room, HHammond

Form 6—1034—11-67 Name Stone Bobby Sheet No. 8

SOUTH CAROLINA SANATORIUM

18,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
7-2-68	9 00	Tri-Pack 600	7/5/68	9 00	Strept Gm +
		Benadryl 25mg			Tri-Pack 600
		B. Simmons			Benadryl 25mg
7-3-68	6 00	Plasma Tri Pack 600			B. Simmons
		Benadryl 25mg.		6 00	APC Tri Pack 600
		B Hammond			Benadryl 25 mg
7-3-68	9 00	APC Tri-Pack 600			F. Johnson
		Benadryl 25 mg	7/6/68	9 00	Tri-Pack 600
		K. Sprott			Benadryl 25mg
	Hm	Abscess plasty area			B. Simmons
		9, 10, 11, 1 st & 2 sutures		6 00	APC Tri Pack 600
		removed, wash			Benadryl 25 mg
		K. Sprott			F. Johnson
7-3-68	3 00	APC tab for pain	7/7/68	9 00	Tri-Pack 600
	6 00	Plasma Tri Pack 600			Benadryl 25mg
		Benadryl 25 mg			B. Simmons
		B Hammond		6 00	APC Tri Pack 600
7-4-68	9 00	30% Dg Tri pack 600 sc			Benadryl 25 mg
		Benadryl 25 mg sc			F. Johnson
		Aspc tab sc	7-8	9 00	Strept Gm +
					Plasma Tri Pack 600
7-4-68	4 00	APC tab PT			Benadryl 25mg
		Comp & Sore gum			F. Johnson
		Sutures on suture		6 00	APC Tri Pack 600
		Come out bed night			Benadryl 25 mg
	6 00	Plasma Tri Pack 600			F. Johnson
		Benadryl 25 mg	7/9/68	9 00	Tri-Pack 600
		B Hammond			Benadryl 25mg
					B Simmons

Form 6—1000—11-67

Name Stocks, Nicholas

Sheet No. 9

SOUTH CAROLINA SANATORIUM

18,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
7/9/68	6⁰⁰	PASHA Tri Pack 600	7/15/68	900	Strept Gm & I.M. B.S.
		Benadryl 25 mg.			PASHA Tri-Pack 600 B.S.
		I. Tobias			Benadryl 25mg B.S.
7-10-68	900	Strept Gm &		6⁰⁰	PASHA Tri Pack 600 FJ
		Tri-Pack 600			Benadryl 25 mg. FJ
		Benadryl 25mg	7/16/68	900	Tri-Pack 600 B.S.
		B. Simmons			Benadryl 25mg B.S.
	6⁰⁰	PASHA Tri Pack 600		6⁰⁰	PASHA Tri Pack 600 FJ
		Benadryl 25 mg.		6⁰⁰	Benadryl 25 mg. FJ
		I. Tobias	7/17/68	900	Strept Gm & I.M. B.S.
7-11-68	94	Benadryl 25mg. Stat			Tri-Pack 600 B.S.
	9⁰⁰	PASHA Tri Pack 600 Stat			Benadryl 25mg B.S.
	6⁰⁰	PASHA Tri Pack 600 FJ		6⁰⁰	PASHA Tri Pack 600 FJ
		Benadryl 25 mg FJ		6⁰⁰	Benadryl 25 mg. FJ
7-12-68	9⁰⁰	Strept Gm & I.M.	7/18/68	900	Tri-Pack 600 B.S.
		Pasha Tri Pack 600			Benadryl 25mg B.S.
		Benadryl 25 mg.	7-18	6⁰⁰	Pasha Tri Pack 600 BH
		L. Diggs		6⁰⁰	Benadryl 25 mg BH
7-12-68	6⁰⁰	Pasha Tri Pack 600	7/19/68	900	Strept Gm & I.M. B.S.
	6⁰⁰	Benadryl 25 mg.			Tri-Pack 600 B.S.
		G. Hammond			Benadryl 25mg B.S.
7-13-68	9⁰⁰	PASHA Tri-Pack 600 Stat		6⁰⁰	Pasha Tri Pack 600 BH
	94	Benadryl 25mg Stat		6⁰⁰	Benadryl 25 mg BH
	6⁰⁰	PASHA Tri Pack 600 FJ	7/20/68	800	Tri-Pack 600 B.S.
		Benadryl 25 mg FJ		900	Benadryl 25mg B.S.
7-14-68	9⁰⁰	To be Tri Pack Stat			Pasha Tri Pack 600 BH
	94	Benadryl 25 mg Stat	7/21/68	900	Tri-Pack 600 B.S.
	6⁰⁰	PASHA Tri Pack 600 FJ		900	Benadryl 25mg B.S.
					Vic Complaints B.S.

Name Stone, Mr. Bobby

Sheet No. 10

SOUTH CAROLINA SANATORIUM

V8,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
7-21-68	6:00	Nama Tri Pack 600 BH	7/26/68	6:00	PBSAH Tri Pack 600 FJ
	6:00	Benadryl 25mg BH		6:00	Benadryl 25mg FJ
7-22-68	8:00	Strept Gmi I.M. B.S.	7/29/68	8:00	Strept Gmi I.M. B.S.
	8:00	Tri-Pack 600 B.S.		8:00	Tri-Pack 600 B.S.
	8:00	Benadryl 25mg B.S.		8-1	Benadryl 25mg B.S.
7-22-68	6:00	Nama Tri Pack 600 BH		6:00	PBSAH Tri Pack 600 FJ
	6:00	Benadryl 25mg BH		6:00	Benadryl 25mg FJ
7-23-68	8:00	Tri-Pack 600 B.S.	7/30/68	8:00	Tri-Pack 600 B.S.
	8:00	Benadryl 25mg B.S.		8:00	Benadryl 25mg B.S.
	6:00	PBSAH Tri Pack 600 FJ		6:00	PBSAH Tri Pack 600 FJ
	6:00	Benadryl 25mg FJ		6:00	Benadryl 25mg FJ
7-24-68	8:00	Strept Gmi I.M. B.S.	7/31/68	8:00	Strept Gmi I.M. B.S.
	8:00	Tri-Pack 600 B.S.		8:00	Tri-Pack 600 B.S.
	6:00	PBSAH Tri Pack 600 FJ	7/31/68	6:00	PBSAH Tri Pack 600 BH
	6:00	Benadryl 25mg FJ		6:00	[illegible] SV
7-25-68	8:00	Tri-Pack 600 S-CC	8/1/68	8:00	Tri-Pack 600 B.S.
	8:00	Benadryl 25mg S-CC		6:00	PBSAH Tri Pack 600 FJ
	6:00	PBSAH Tri Pack 600 FJ	8/2/68	8:00	Strept Gmi I.M. B.S.
	6:00	Benadryl 25mg FJ		8:00	Tri-Pack 600 B.S.
7-26-68	8:00	Benadryl 25mg. S-CC		1:00	Missing from Rm. and
	8:00	PBSAH Tri Pack 600 S-CC			Building. On Bypass
	8:00	Streptomycin Gmi I.M. S-CC			was notified B.S.
	6:00	PBSAH Tri Pack 600 FJ			3 day pass granted
	6:00	Benadryl 25mg FJ			by Dr. Bypass
7-27-68	8:00	PBSAH Tri Pack 600 S-CC			Registrar Notified BS
	6:00	PBSAH Tri Pack 600 FJ	8-3-68	6:00	on pass S-CC
	6:00	Benadryl 25mg FJ	8-4-68	6:00	on pass S-CC
7-28-68	8:00	PBSAH Tri Pack 600 S-CC	8/6/68	12:30	Returned from pass
	8-1	Benadryl 25mg S-CC			Registrar Notified BS

Name Bone, Bobby

Ward No. 11

SOUTH CAROLINA SANATORIUM

18,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
8/6/68	6[illegible]	PBS&H Tri Pack 600	8/18/68	6:00	Pasma tri pack 600
8-7-68	8[illegible]	Strept-Gm + LM BS	8-19-68	8[illegible]	Tri-pack 600 KS
	8[illegible]	Tri-Pack 600 BS		8[illegible]	Strept Gm + Lm KS
8-7-68	6[illegible]	PBS Na Tri Pack 600 BH		6[illegible]	Pas Na Tri-pack 600 mcc
8-8-68	8[illegible]	Tri-Pack 600 BS	8-20-68	8[illegible]	Tri-Pack 600 KS
8-9-68	[illegible]	Pasma Tri Pack 600 BH		6[illegible]	Pas Na Tri-pack 600 mcc
8-9-68	8[illegible]	Strept Gm + LM BS	8-21-68	8[illegible]	Tri-pack 600 KS
	8[illegible]	Tri-Pack 600 BS		8[illegible]	Strept Gm + Lm KS
8-9-68	6[illegible]	Pasma Tri Pack 600 BH	8-21-68	6[illegible]	Pasma Tri pack 600 BH
8-10-68	8Am	PBS Na Tri Pack 600 DC	8-22-68	8[illegible]	Tri-pack 600 KS
8-10-68	6[illegible]	Pasma Tri Pack 600 BH	8-22-68	8[illegible]	Pasma Tri Pack 600 BH
8-11-68	8[illegible]	Pasma Tri-pack 600 KS	8-23-68	8[illegible]	PBS Na Tri Pack 600 stcc
8-11-68	6[illegible]	Pasma Tri Pack 600 BH		8[illegible]	Duplicate Strept Gm + Lm
8-12-68	8[illegible]	Strept Gm + LM BS		6[illegible]	Pas Na Tri-pack 600 mcc
	8[illegible]	Tri-Pack 600 BS	8-24-68	8[illegible]	PBS Na Tri-pack 600 stcc
	6[illegible]	PBS&H Tri Pack 600 BS	8-24-68	6[illegible]	Pasma Tri Pack 600 BH
8-13-68	8[illegible]	Tri-Pack 600 BS	8-25-68	8[illegible]	PBS Na Tri-pack 600 stcc
	6[illegible]	PBS&H Tri Pack 600 BS	8-25-68	6[illegible]	Pasma Tri Pack 600 BH
8-14-68	8[illegible]	Strept Gm + LM BS	8-26-68	8[illegible]	Tri-pack 600 KS
	8[illegible]	Tri-Pack 600 BS		6[illegible]	Pas Na Tri-pack 600 mcc
	6[illegible]	PBS&H Tri Pack 600 BS	8-27	8[illegible]	Pasma tri pack 600 BH
8-15-68	8[illegible]	Tri-Pack 600 BS		6[illegible]	Pas Na Tri-pack 600 mcc
	6[illegible]	PBS&H Tri Pack 600 BS	8-28-68	8[illegible]	Strept Gm + Lm KS
8-16-68	8[illegible]	Strept Gm + LM KS		8[illegible]	Tri-pack 600 KS
	8[illegible]	Tri-Pack 600 BS	[illegible]	[illegible]	[illegible]
8-16-68	[illegible]	PBS&H Tri Pack 600 BS	8-29-68	8[illegible]	Strept Gm + Lm KS
8-17-68	8[illegible]	Tri-Pack 600 BS		6[illegible]	Pasma Tri Pack 600 BH
8-17-68	[illegible]	PBS&H Tri Pack 600 BH	[illegible]	[illegible]	[illegible]
8-18-68	8[illegible]	Tri Pack 600 BS		8[illegible]	[illegible]

Name Stone, Bobby — Room No. 12

SOUTH CAROLINA SANATORIUM

16,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
9-30-68	6 00	Pasma tri pack 600 ALR		6 00	Pas Na Tri. pack 600 mxx
8-31-68	8 00	Tri-pack 600 1050	9/12/68	8 00	Tri-Pack 600 B.A
	6:00	Pasma tri pack 600 ALR		6 00	Tri.-pack 600 mxx
9-1-68	8 00	Pas Na Tri-pack 600 STC	9/13/68	8 00	Strept Gms I.M. BA
	6:00	Pasma tri pack 600 ALR		8 00	Tri-Pack 600 BA
9-2-68	8 00	Pasma tri-pack 600 ALR		6 00	Tri.-pack 600 mxx
	8 00	Strep Gms I.M. L.D.	9/14/68	8 00	Tri-Pack 600 B.A
	6:00	Pasma tri pack 600 ALR	9-14-68	6 00	Pasma Tri Pack 600 BH
9-3-68	8 00	Pasma tri-pack 600 L.D.	9/15/68	8 00	Tri-Pack 600 B.A.
	6:00	Pasma tri pack 600 ALR		6 00	Pas Na Tri.-pack 600 mxx
9-4-68	8 00	Pas Na Tri-pack 600 STC	9/16/68	8 00	Strept Gms I.M. B.A.
	8 00	Streptomycin 2gms I.M. STC		8 00	Tri-Pack 600 B.A.
9-4-68	6 00	Pasma Tri Pack 600 ALR		6 00	Pas Na Tri Pack 600 JJ.
9-5-68	8 00	Pas Na Tri-pack 600 STC			Hot Epsom Salt Soaks
	6 00	Pas Na Tri Pack 600 JJ.		6 00	Hot Epsom Salt Soaks JJ
9-6-68	8 00	Pas Na Tri.-pack 600	9/17/68	8 00	Tri.-Pack 600 B.A.
	8 00	Sm Gm. I.M. STC		8 00	Strept Gms I.M. BA
	6 00	Pas Na Tri Pack 600 JJ.			Hot Epsom Salt Soaks JJ
9-7-68	8 00	Pas Na Tri-pack 600 STC		8 00	Penicillin 400,000 I.M.
	6 00	Pas Na Tri Pack 600 JJ.		6 00	Pas Na Tri Pack 600 JJ.
9-8-68	8 00	Tri-Pack 600 CS		6 00	Pas Na Tri Pack 600 JJ.
	6 00	Pas Na Tri Pack 600 JJ.	9-18	8 00	Sm Gm I.M. CS
9-9-68	8 00	Pas Na Tri-pack 600 STC		8 00	Penicillin 400,000 I.M.
	8 00	Streptomycin 2gms I.M. STC		8 00	Pasma Tri-pack 600 CS
	6 00	Pas Na Tri Pack 600 JJ.		8 00	Hot Epsom Salt Soaks CS
9-10-68	8 00	Tri-Pack 600 B.A.		6 00	Pas Na Tri Pack 600 JJ.
	6 00	Pas Na Tri Pack 600 JJ.			Hot Epsom Salt Soaks JJ
9-11-68	8 00	Pasma tri-pack 600 L.D.	9-19-68	8 00	Penicillin 400,000 I.M. CS
	8 00	Sm Gm I.M. L.D.		8 00	Tri-pack 600 CS

Nurse Nurse Mrs Bobbie — Nurse Sig. B

SOUTH CAROLINA SANATORIUM

18,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
9-19-68	8:00	Mg Soq Sol to toe ES	9/25/68	6:00	Pana tri pack 600 (ALB)
	6:00	PBSVA Tri Pack 600 ES	9/26/68	8:00	Tri-Pack 600 BS
		Mg Soq Sol Soaks	9/27	6:00	Tri-pack 600 MXX
		To Toe and	9/27/68	12-5	Quiet ES
		dressing applied ES	9/28/68	8:00	Tri-Pack 600 BS
9-20-68	8:00	Phenobarbital 9 mgs. STC		6:00	Pana Tri Pack 600 LB
	8:00	Pt to Tri pack 600 STC	9/29/68	8:00	Tri-Pack 600 BS
	8:00	Ingoq, Sol to toes STC		6:00	Pana Tri Pack 600 LB
	6:00	PBSVA Tri Pack 600 ES	9/30/68	11-6	No Complaint AT
	6:00	Mg Soq Sol Soaks ES	9 30 68	8:00	Pt to Tri Pack 600 STC
9-20-68	11:00	Bowel movement ES		8:00	Phenobarbital 9 mgs STC
9-21-68	8:00	Pt to Tri pack 600 STC		12:00	Pt to 3 E mo. STC
	6:00	PBSVA Tri Pack 600 ES		6:00	Pana tri pack 600 (ALB)
9-22-68	8:00	Tri-Pack 600 ES	10-1-68	12-5	Quiet ES
9-22-68	4:30	Home On Pass ES	10-1-68	8:00	Tri-Pack 600 BS
9-23-68	A.M.	Registered Nurse BS		12:00	PAS 3 gms BS
9-24-68	P.M.	On Pass HT		6:00	Pana tri pack 600 (ALB)
	7:00	Called from Inn	10-2-68	12-5	Quiet ES
		Statement in Forum	10/2/68	8:00	Streept 500 I.M. BS
		States he will be		8:00	Tri-Pack 600 BS
		Out on next bus pill		12:00	PAS 3 gms BS
9-24-68	11:30	Returned from pass		6:00	Pana tri pack 600 (ALB)
		to E. South Carolina HT	10-3-68	12-5	Quiet ES
9-25-68	6:30	Visited quiet HT	10-3-68	8:00	PBS VA Tri pack 600 LB
9-25-68	8:00	Streept 500 I.M. BS		12:00	PAS 3 gms. STC
	8:00	Tri-Pack 600 BS		6:00	Pana tri pack 600 (ALB)
9-26-68	6:00	Pana Tri Pack 600 LB		6:30	[illegible]
9-27-68	8:00	Streept 500 I.M. BS		12-5	Quiet ES
	8:00	Tri-Pack 600 BS			

Form A — Name Stone Mr. Bobby — Sheet No. 14

SOUTH CAROLINA SANATORIUM

18,840

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
10-4-68	8:30	Strep. Gm. I (I.M.)	10-8-68	8:00	PAS Na Tri-pack 600
	8:00	PAS Na Tri Pack 600		1:00	PAS 3 gms.
	1:00	PAS Gms. III		7-3	Quiet B. Simmons
	1:30 p.m.	Chest Rx. Quiet St Cath.		6:00	PAS Na Tri Pack 600
	6:00	Pasna tri-pack 600 (A+D)			Quiet
10-5-68		[illegible]			L. Hammond ZPN
	8:00	Pas Na Tri-pack 600			[illegible]
	1:00	PAS gm. III			[illegible]
	7:00	Quiet St Cath Rx		8:00	[illegible]
	6:00	Pasna tri-pack 600		2:00	[illegible]
"		L. Diggs, R.N.		1:00	[illegible]
		[illegible]		8:00	[illegible]
10-6-68	12:00	Quiet		7-3	Cheerful B. Simmons
	8:00	Pas Na Tri-pack 600		6:00	Pasna Tri-pack 600
	1:00	PAS gm. III			Cup + about awake
	7:00	[illegible] St Cath Rx			L. Hammond
"	6:00	Pasna tri-pack 600			[illegible]
		L. Diggs, R.N.			[illegible]
		[illegible]			[illegible]
10-7-68	12:00	Quiet		7-3	Change Tri-Pack to PAS 12 gms daily INH 3cc inj daily B. Simmons
	8:00	Strep. gm I (I.M.)			
	8:00	PAS Na Tri-pack 600			
	1:00	PAS 3 gm.			
	7-3	Quiet B. Simmons	10-10-68	6:00	PAS Tri gms Daily Inj. Cc mg Chart pack
10-7-68	6:00	Pasna Tri Pack 600			K. Jones L.P.N.
		Cup + about			[illegible]
		L. Hammond ZPN			[illegible]
	1:30 p.m.	[illegible]			[illegible]
10-8-68	12:00	Quiet			

Name Stone, Mr. Bobby

Sheet No. 1

SOUTH CAROLINA SANATORIUM

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
10-11-68	8[00]	Strep. gm. I (I.M.)	10/14/68	8[00]	Strept Gm I
	8-1	PAS 4 Gms		8-1	PAS 4 Gms
	8-1	INH 100 mg.		8-1	Inh 100 mg.
	7-3	Spent a good day B. Simmons		7-3	Cheerful B. Simmons
	6[00] Pm	PAS 4 Gms		6[00]	PAS 4gms INH 100 mg
	6[00]	INH 100 mg			D. T. Lyon
		sup & About		11[00]	VS N.C.
		K. Splats L Pn	10-13-68	12-6	Quiet Escorted
	10[00]	B/Loss		8-1	PAS 4gms. INH 100 mg
10-14-68	12-6	Quiet Escorted		7-3	No Complaints B. Simmons
	8-1	PAS 4 gms	10/15/68	6:00	Pas 4gms. Inh 100 mg
	8-1	INH 100 mg		[illegible]	Watching T.V. A. L. Ryan
	7-3	a good day D Lawson LPN			
10-12-68	6:00	Pas 4gms			
	6:00	Inh 100 mg			
		Watching T.V. A. L. Ryan			
[illegible]		Esc			
	8-1	PAS 4 Gms			
	8-1	Inh 100 mg.			
	7-3	Spent a good day B. Simmons			
10-13-68	6:00	Pas 4 gms			
	6:00	Inh 100 mg			
		Quiet. A. L. Ryan			
[illegible]					

Form 6—1016—11-67 Name Stone, MR. Bo 664 Sheet No. 16

Bobby Ozine Stone

SOUTH CAROLINA SANATORIUM

CLINICAL RECORD — DOCTOR'S ORDERS

Date Start	Date Stop	Orders	Doctor's Signature	Nurse's Initials
4/8/68		Adm. to Ward - Nurse - Dr. Byrne - Sputum & X-ray	Byrne	
4/16/68	Stat	Start Streptomycin 1 gm. daily x 60 then 2 (IM) P.O. Byrne → daily INH 300 mg mo.	Dr Byrne	BS
5-20	5-23	Exclusive Tub Pt. T.I.d.		
	7/22/68	Benadry 25 mg T.I.d.	Byrne	L. Wright
8/8		Tussojen 1 C.S	Byrne	B.S.
9-12-8		Darvon Comp. for pain stat Dr Byrne Ro. B Desmond	Byrne	J.W.H.
9/16/68		Remove N Kirschner wire in D.M. Soak foot this afternoon + evening Hot Epsom Salt Soaks Get Surgical ict + Novocain	Byrne	B.S.
9/17/68	9-20-68	Soak foot - Ung Gulf B.I.D. X 3 Keep Pt foot + leg Today give Darvon Comp. 65 gr. q 4 hrs. 400,000 Pen. Today X 3	Byrne	B.S.
9/20/68		May have Pass, To return Tuesday 9/24 Please G Byrne H Johnson	E.K.T.	

LAST NAME	FIRST NAME	MIDDLE INITIAL	PATIENT'S NO.	WARD NO.
Stone	Bobby	Ozine	18840	145

(REV. 8-66) 552 DOCTOR'S ORDERS

SOUTH CAROLINA SANATORIUM

CLINICAL RECORD — DOCTOR'S ORDERS

Date Start	Date Stop	Orders	Doctor's Signature	Nurse's Initials
9/30/48		PAS 3 gms daily @ 1 p.m. V.O. Dr. Bynum I.S.	Bynum	B.S.
10/10/48 ←		change TRI Pack b BD To		
10/10/48		PAS 12 gms & INH 300 daily	Bynum	B.S.
10/15/48		Staff discharge Med Side Rt. apt Dept 6 mos Xrays & Sputum q 3 mos Take PAS 12 gms & INH 300 mgs daily for 18 mos Report back tomorrow, 22 TH	Bynum	F.J.

LAST NAME: Stone Mr. | FIRST NAME: Bobby | MIDDLE INITIAL: O. | PATIENT'S NO.: 18940 | WARD NO.:

FORM 20 (REV. 8-50) 20M

DOCTOR'S ORDERS

SOUTH CAROLINA SANATORIUM

STATE PARK, S. C.

No. 18,810
Date 4-5-68
Service Dr. Bynoe

Stone, Bobby Ozine, [redacted]
(Name) (Address)

Chief Complaints (use patient's own words).

Detailed History.

Patient states that he had been ill about two weeks prior to his admission. He worked right up until April 2, 1968, before coming to the sanatorium. Contact of an uncle, Wesley Stone, who is at the VA Hospital in Charleston under treatment. This patients family went to get checkups because of his uncle Wesley and this is how the patient was found out.
After a skin test 11-22-67 was questionable 10 mm positive and X-ray showed disease 4-2-68, smear was done, it was poor specimen, at the county level, however, it seemed to be negative, he was told that he had a spot on his lung and was asked to come to the sanatorium for treatment.

Last perfectly well [illegible] Stopped work [illegible]
Fever No Night sweats No
Chills No Strength [illegible]
Weight changes loss of 13 pounds.

PERSONAL HISTORY

Age 30 Sex Male M. S. W. D. Married Occupation Heating and aircondition worker.

Family History Mother L & Wi father L & Wi contact of an uncle, Wasley Stone, since 1966 with follow up X-rays.

Marital History Married with three children at home, ages 5 months, two and four years of age, however, his wife is now a patient here at the Farmer building, 2nd floor.

Previous Illness (date) Measles Yes Mumps Yes Chicken Pox Yes Diphtheria No
Scarlet Fever No Whooping Cough Yes Tonsilitis No Influenza No
Pneumonia No Tuberculosis ? Now Rheumatism No Typhoid No Malaria No
Lues Denies Neisser Denies Other Diseases None
Operations (by whom and date) 12-67 had a washed right big toe, which was treated.

REVIEW OF SYSTEMS, HABITS AND OTHER INFLUENCES:

Skin Normal
Head Clear and normal.
Eyes Normal
Ears Negative
Nose Negative
Throat No sore throat.
Teeth Needs care
Mouth Fairly clean.
Neck Negative
Glands None

Respiratory System: Cough Slight
Expectoration: Amount, color, character Very little.
Hemoptysis No, epistaxis about three weeks ago.
Where No
Chest Pain No
Dyspnea Yes some all the time.
Pleurisy None

Cardiovascular System: No history.

Gastro-Intestinal System (Including Liver and Gall Bladder) No history.

Rectum: Negative
Genito-Urinary System: No history.

Menstrual History: NA

Muscles—Bones—Joints except for right big toe, normal.
Sleep and Rest Normal and adequate.
Drug Habit None
Alcohol Very little. Yes Yes
Psychic and Nervous Influences

Environment or Occupational Hazards [illegible] all kinds of weather.
Endurance Fair

PHYSICAL EXAMINATION

Height 65" Weight 137 Average Weight 148

B.P. Syst. 120 Diast 70

General Appearance Thin, well developed, not ill looking at this time.

Skin and M. M. Reddened with small papules over the body.

Head—Sinuses Clear.

Eyes Clear, normal, not injected, can read.

Ears Clear, membranes intact, normal.

Nose Negative

Tongue Normal

Teeth Poor, needs care.

Tonsils and Pharynx Negative

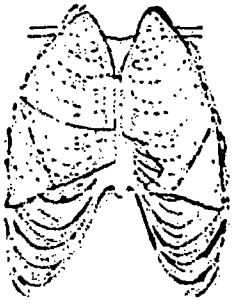
Larynx NE

Lymph Glands None

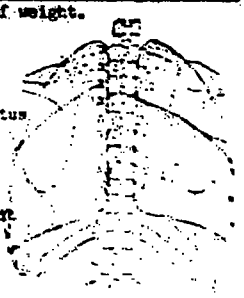
Neck—(Thyroid) Negative

Breasts Normal for male.

Chest Bilateral, symmetrical, however rib cage is slightly prominent due to loss of weight.



Inspection



Palpation Increased vocal fremitus throughout.

Percussion Negative

Auscultation A few fine crepitant and a few harsh rales noted on breathing.

Vital Capacity (52%)

Mediastinum Normal position.

Cardio-vascular System—Heart, Arteries, Veins Normal size, configuration.

Abdomen No masses or tender areas.

Genito-Urinary System Normal

Hernia None

Rectum Negative

Prostate Normal

Pelvis (Female) Male normal.

Muscles—Bones—Joints—Feet Ankles Normal except right big toe which was mashed three months ago, with the loss of the nail, he was treated.

Neurological Findings—Cranial Nerves Negative

Spinal Nerves Negative

Reflexes Physiological and normal.

Sensory Disturbances None

Motor Disturbances None

Endocrine Disturbances None

Fluoroscopic Examination N/

Positive Findings History of contact with following films and showed a large film and a positive skin test with a cavity, right, at the county level, have on hand a + positive sputum, culture has been planted.

Impression or Examiner Pulmonary tuberculosis, moderately advanced.

Prognosis Guarded

INT /Dr

Signed [illegible]
Attending Physician

April 24, 1968

E.A.Heims,M.D.,
Director,
Sumter County Health Dept.,
Sumter,S.C.

Re: Stone,Bobby

Dear Doctor Heims:

The above named patient, for whom you signed an application for admission, was admitted to the Sanatorium on April 5,1968.

His case was presented to the Medical Staff April 16, 1968. The Staff decision was to administer streptomycin, isoniazid and para-aminosalicylic acid.

Diagnosis: Pulmonary tuberculosis, moderately advanced.Right.
Sputum : Positive.

If, in the future, you desire further information concerning his course we shall be glad to hear from you.

With kindest regards.

Yours very truly,

For The Medical Director

Mildred H.Davenport,Secretary

SOUTH CAROLINA SANATORIUM
Sunset Park, S. C.

Room 145

PROGRESS SHEET

Name Bobby Ozine Stone Case No. 18840 Ward 1st floor

(Start notes with date; end with Signature; draw line beneath each entry.)

4/18 Wife sent to Spgn as pt.
Bynum

5/20/68 pt has fine rash over chest -
? of drug
Rx:- Benadryl & mineral
Bynum

7/15/68 tracked to pt front xray with is improved & sputum with is Typ. Cultures stg smears
Bynum

7/23 pt states family is torn to pieces " Sarah Lee & them (Charlie & Florence Co) & his grandsons burned up —
Call per Mrs. Rhodes post's Wife deceased but this is not so —
pt told of this & seems to understand
Bynum

9/29/68 Retd
V.A. 20/20
Frank Bynum

9/7/68 pt has injected Bynum Nail
Rx cath Bynum Fist
Bynum

9/10/68 toe clean but still Bynum will remove 9/17
Bynum

9/12/68 S Ray Pt
Absence of family
Bynum

10/3/68 Retd
Frank Bynum —
Bynum

10/15/68 Staff unsatisfactory Pt
Dr Lindsey Ad Rx 6 mo
PAS, ingest 1 A.H. 50 mg daily
Jet 18 mos
Eight cord & Talwin
Ex III
Bynum

Signed Date

Form 6-11-63

Bobby Stone 18,849 4/18/68

Initial staff ef a 31 yr old male pt from Sumter who came 4/5/68

States he has only been ill about 2 wks prior to admiss and worked right up to 4/2/68
Contact of an Uncle Wesley Stone who is a pt at V.A.Hosp Charleston; because of this Uncle family went to get checkup xrays and Tbc was found;
Skin test 11/22/67 10 mm pos c xray 4/2/68 and neg smear 4/2/68

HEIGHT 65" WEIGHT: loss of 11 lbs to 137 past 2 wks

V.C.: 52% B/P: 120/70

SPUTUM:- 2 + AFB here 2 smears c cultures planted

XRAY:- Pul Tbc Mod adv bilat

DECISION:- PAS 12 gms & INH 300 mgms daily for 60 days
Strept started [redacted]

Pt's wife is a pt at Mm Farmer Building

Bobby Ozine Stone 18,840 10/15/68

6 mos staff of a 31 yr old male pt from Sumter who came 4/5/68

Ill only 2 weeks prior to admiss & worked right up to 4/2/68 three days bef[ore] admiss; Contact of an Uncle Wesley Stone who was at V.A.Hosp Charleston und[er] treatment; family went for check up for uncle and this is how pt was found; skin test was 10 mms pos

HEIGHT: 65½" WEIGHT: 140 gain of 3 lbs

V.C.: 3.4L or 81% B/P: 110/80

SPUTUM:- one pos smear then neg to date

CULTURES TYPICAL THRU 5/68 then 2 neg c 3 pending

CHEMO:- Strept 60 then t.i.wk c tripack

XRAY: Tbc. Pul. Mod adv right 4/68 no change 7/68 imp 9/68 imp

DECISION:- this pt is on pins and needles about going home

Discharge:- mod adv right; act-imp 6 mos
xray and sputum q 3 mos; to take PAS 12 gms and INH 300 mgms daily at home for 18 mos. work to light tolerance
ex III

SOUTH CAROLINA SANATORIUM

Sumter, Sumter, S. C.

X-RAY REPORT

Name Stone, Bobby | Age | Division | Serv. | Case No.

Date	Requests	Findings
	In making requests, give exact location of part to be examined together with brief essential data, and probable diagnosis. Sign all requests MEMORANDUM	Sumter County Health Department film # 13365, dated 3-29-68, shows infiltrative disease under pleural cap thickening in the right apex with a small cavity noted on the accompanying Lordotic view. The disease extends down to the periphery of the 2nd interspace. Diagnosis: Pulmonary tuberculosis, moderately advanced, right. 4-5-68 GWB/ly Geo. W. Brunson GEORGE W. BRUNSON, M.D., MACR Radiologist

SOUTH CAROLINA SANATORIUM

STATE PARK, S. C.

X-RAY REPORT

Name Bobby Ginn Stone Age 31 Division R-1 Serv. Regular Case No. 18,840

Date	Requests	Findings
	In making requests, give exact location of part to be examined together with brief essential data, and probable diagnosis.	
	Sign all requests	
4/6/68	PA Chest filum AP Lordotic E. Diggs, R.N.	Film # N 1879 made 4-6-68. PA Chest shows heavy infiltrative disease in the marginal portion of the apex to the right lung extending down to the periphery of the 2nd interespace. There are drainage bands to the hilum. The remaining lung fields are unremarkable. There has been no change since the above reported outside film. Diagnosis: Pulmonary tuberculosis, moderately advanced, right. 4-10-68 GWB/ly G. W. Robinson M.D. MACR

SOUTH CAROLINA SANATORIUM

STATE PARK, S. C.

X-RAY REPORT

Name Bobby Stevens Age 31 Division Rt. Center Serv. Bynum Case No. 18540

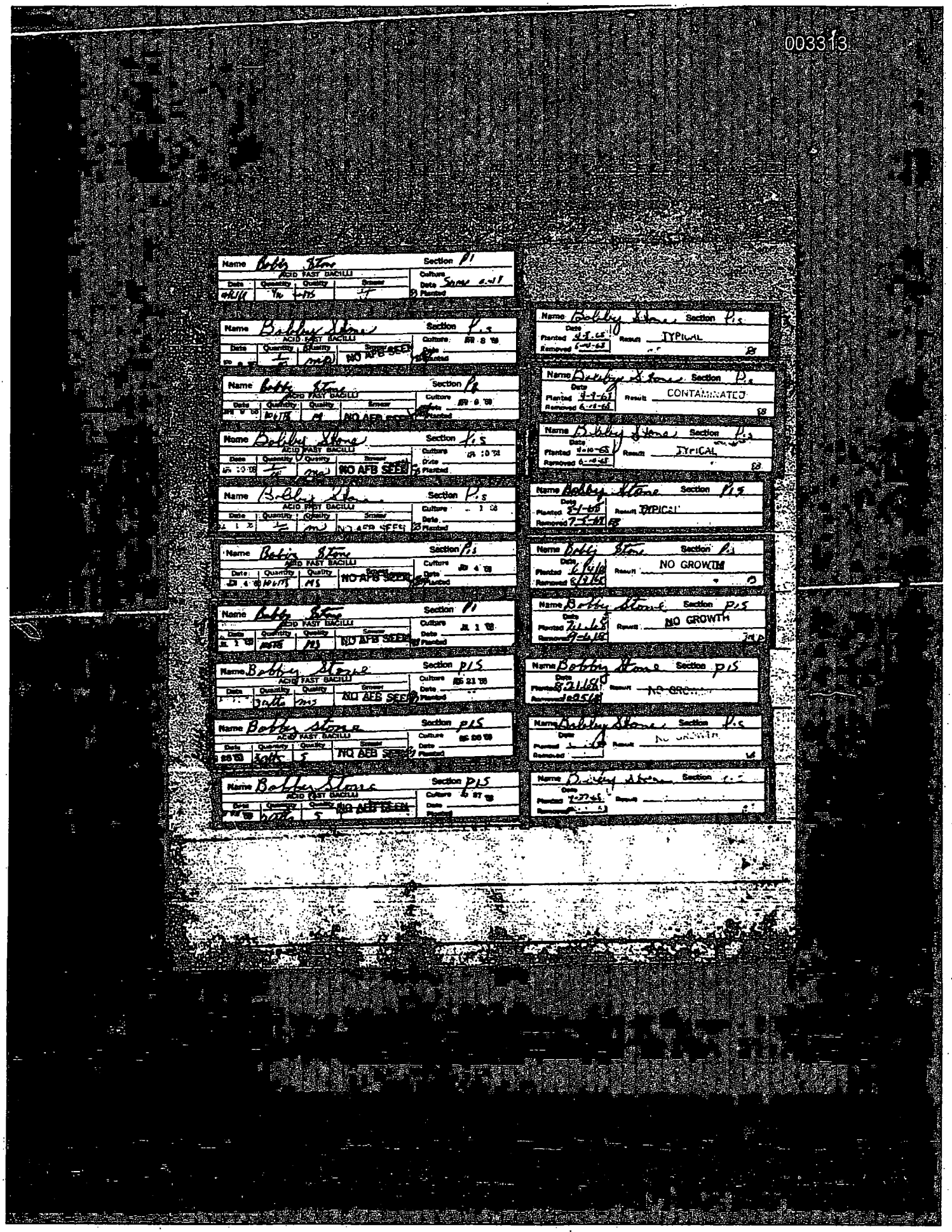
Date	Requests	Findings
	046 In making requests, give exact location of part to be examined together with brief essential data, and probable diagnosis. Sign all requests	Film # B 46 made 7-8-68 compared to film made 4-6-68. Reexamination of the chest shows slight shrinkage of the infiltrative disease in the periphery of the right apex under the thickened apical cap. The remaining lung fields are unchanged. Diagnosis: Pulmonary tuberculosis, moderately advanced, right. Slightly improved. 7-10-68 GWB/ly Geo. W. Brunson GEORGE W. BRUNSON, M.D., MACR Roentgenologist
7/8/68	PA. Chest	

Form B 6-62 20m

SOUTH CAROLINA SANATORIUM

Name Stones, Bobby Age Division Serv. Bynes Case No. 18,840

Date	Requests	Findings
	In making requests, give exact location of part to be examined together with brief essential data, and probable diagnosis. Sign all requests	Film # 0 647 made 9-27-68 compared to film made 7-8-68. Reexamination of the chest again shows the infiltrative disease in the periphery of the right apex with some further evidence of shrinkage and clearing, and persisting but subsiding apical cap thickening. The left lung remains within normal limits. Diagnosis: Pulmonary tuberculosis, moderately advanced, right. Improved. 9-30-68 GWB/ly Geo. W. Brunson GEORGE W. BRUNSON, M.D., MACR Radiologist


Name Bobby Stone
Section P1
ACID FAST BACILLI
Culture
Date Planted
NO AFB SEEN
Name Bobby Stone
Section P.S
NO AFB SEEN
Name Bobby Stone
Section P.S
NO AFB SEEN
Name Bobby Stone
Section P.S
NO AFB SEEN
Name Bobby Stone
Section P.S
NO AFB SEEN
Name Bobby Stone
Section P1
NO AFB SEEN
Name Bobby Stone
Section P1S
NO AFB SEEN
Name Bobby Stone
Section P1S
Name Bobby Stone
Section P1S
Name Bobby Stone
Section P1S
Name Bobby Stone
Section P.S
Planted 4-1-65
Result TYPICAL
Name Bobby Stone
Section P.S
Planted 4-1-65
Result CONTAMINATED
Name Bobby Stone
Section P.S
Planted 4-10-65
Result TYPICAL
Name Bobby Stone
Section P1S
Planted 5-4-65
Result TYPICAL
Name Bobby Stone
Section P1
Planted 6/4/65
Result NO GROWTH
Name Bobby Stone
Section P1S
Planted 7-1-65
Result NO GROWTH
Name Bobby Stone
Section P1S
Planted 8/21/65
Name Bobby Stone
Section P.S
Name Bobby Stone
Section
Planted 7-27-65

P1

SBH—1300—13634—1-67

LABORATORY
STATE BOARD OF HEALTH, COLUMBIA, S. C.
BLOOD FOR QUANTITATIVE RPR FOR SYPHILIS (S-Seol)

Patient Mr. Bobbie Moore Wade Date Taken 4-6-68
Address Rt 4 Yorkville County York
Race White M Age 31 Single ☐ Mar. ☒ Wid. ☐ Div. ☐
Treated for Syphilis: Yes ☐ No ☐ If Yes, when
Date 4-11-68

VDRL SLIDE TEST RESULT

	undiluted	1/2	1/4	1/8
Serum				
Reading	1+			

1:16	1/32	1/64	1/128	1/256

LABORATORY
S. C. SANATORIUM
STATE PARK, S. C.

Physician
Address

TEST FOR: (Check one)
Diagnosis ___ Routine ___
Pre-natal ___ Industrial ___
License ___ Other (Specify) ___

PRESS FIRMLY. ... Must Be Legible
... Other Side ...

SOUTH CAROLINA SANATORIUM LABORATORY REPORTS

Name Bobby Ozine Stone Room 46 Record No. 18843

URINALYSES Rm. P1

Name	Date	Type	Color	Transp.	pH	Sp. Gr.	Alb.	Sugar	Acet.	Microscopic (Centrifuged) Cyl.
Bobby O Stone	4/16/68	Voided / Cath.		Turbid / Clear	5	1013	Neg	Neg		Epith 0-4 WBC

HEMATOLOGY Rm. P1

Name	Date	Reg.	Hb.	HT	Sed. R.	WBC	Stab	Seg.	Lymph.	Mono.	Eos.	Baso.	Other
Bobby Stone	4/16/68		14.4	43	48	14,400		66	33	1			

BLOOD CHEMISTRY Rm. P1

Name	Date	Sugar	BUN	NPN	Icteric Index	Total Prot.	Alb.	Glob.	Fract. Time	Conc.	% Act.	Other
Bobby O Stone	4-16-68					16	2.1					

HEMATOLOGY Rm. P15

Name	Date	ESC	HT	Sed. R.	WBC	Stab	Seg.	Lymph.	Mono.	Eos.	Baso.	Other
Bobby Stone	10-11-68	39.5	43									

URINALYSES Rm. P1

Name	Date	Type	Color	Transp.	pH	Sp. Gr.	Alb.	Sugar	Acet.	Microscopic (Centrifuged)
Bobby Stone	10-11-68	Voided / Cath.		Turbid / Clear	5	1012	neg	neg		Occ Epith Occ WBC

003316

April 30, 1948

E. A. Heise, M. D., Director
Sumter County Health Department
P. O. Box 1628
Sumter, South Carolina

Re: Bobby O. Stone

Dear Doctor Heise:

The above named patient approached me presenting his need for double dentures. He stated that he has no income and no way to raise the money to pay for them. Our consulting dentist, Dr. Percival Everett, 2124 Washington Street, Columbia, S. C., has agreed to make dentures at cost as a service to our patients. It will be necessary for him to receive the total amount of $35.00 at the time of the first appointment. Please make the check payable to him and we will forward it to his office.

We appreciate in this patient that it is often difficult for a civic or community organization to raise this amount of money. In the event that this service can be provided for the patient, we will be glad to make an appointment and arrange transportation for him.

Very truly yours,

(Mrs.) Sara B. Jackson
Social Worker

SBJ:mm

cc: Superintendent's Office
Director of Nursing
Patient's Chart---345 South Memorial

BELL & HOWELL SAFETY ▲ 003317

SOCIAL SERVICES MAY 6 1968

SUMTER-KERSHAW DISTRICT
DEPARTMENT OF HEALTH

SUMTER CITY-COUNTY DIVISION
111 E. HAMPTON ST.
SUMTER, S. C. 29150
P. O. BOX 1329 PHONE 773-7571

SOUTH CAROLINA STATE BOARD OF HEALTH
1879

KERSHAW COUNTY DIVISION
CHURCH AT LAFAYETTE ST.
CAMDEN, S. C. 29020
P. O. BOX 248 PHONE 432-8343
SUMTER OFFICE CODE

May 3, 1968

Mrs. Sara B. Jackson, Social Worker
South Carolina Sanatorium
State Park, South Carolina

RE: Bobby O. Stone

Dear Mrs. Jackson:

We received your letter regarding dentures for the above named patient. To my knowledge, there is no local civic organization which furnishes this type of service.

I called the local Vocational Rehabilitation office. They would not be able to handle this patient until his discharge from the hospital. They have suggested that you contact Mr. Nissen, the Vocational Rehabilitation Counselor there at State Park. Possibly he could furhish this service to the patient.

If he can not help you, the local office will consider this case on discharge. We would like to know the outcome as possibly we would contact some church, etc. concerning this matter.

Sincerely yours,

Betty B Cain RN.

(Mrs.) Betty B. Cain,
Chief Nurse

be
Medical Chart. Dr Byrne
cc Supt. Office
Social Service
Rehab. Mr Nissen
BBC.

PLEASE REPLY TO SUMTER

July 26, 1968

E. A. Heise, M.D.
Sumter County Health Department
Box 1628
Sumter, South Carolina

Re: Bobby Lamar Stone

Attention: Mrs. Carolyn . . Frayler

Dear Dr. Heise:

Mrs. Mayball Stone, wife of the above named, was recently discharged from the sanatorium. She has told her husband that "all of their mattresses had been burned by the health department."

Mr. Stone became upset and requested a pass from Dr. Hynds, attending physician. Dr. Hynds did not think it wise for Mr. Stone to go home at this time. Mr. Stone continued to plead with about the mattresses. If you have anything about this matter, would you please let us hear from you.

Thank you for your help.

Yours very truly,

(Mrs.) Sara B. Jackson
Social Worker

lmw

cc: Medical Record
Superintendents Office

Telephone 775-2378

MUTUAL LOANS

MUTUAL FINANCE CORPORATION OF SUMTER COUNTY

5 West Liberty Street • Sumter, South Carolina

August 8, 1968

S. C. Sanitorium
State Park, South Carolina

Dear Sir:

SUBJECT: YOUR PATIENT
BOBBY O. STONE

Attached please find insurance claim being sent to you asking that you complete and return to us in the enclosed self-addressed envelope.

Your prompt attention will be appreciated .

Yours truly,

H T Lewis

H. T. Lewis, Manager

HTL/jlb

Rec 8-12-68

Claim No.

Received By _____ A.M. P.M. _____ 19__

Information regarding to be furnished at the discretion of the Attending Physician

1. Patient's Full Name: Bobby Odine Stone

2. Address 420 B Road, Sumter, S. C.
(Street) (City) (State)

3. Diagnosis Precisely: Tuberculosis, pulmonary, moderately advanced, right.

4. Date of Onset: About March 19 68

5. Cause: Known

6. Is the condition resulting from injury? Yes or No: No

7. Present Condition: Improved

8. Prognosis: Listed as guarded

9. Nature of operation if any: None in this hospital.

10. Name of physician who previously treated patient for the above condition: E. A. Heise, M.D., signed application for admission to the sanatorium.

11. Symptoms (Subjective and Objective) and Findings: Positive sputum cultures.

12. Give date of first and last consultation or treatment for this injury or sickness:

First Attended: 1-5-68 19__ Last Attended: August 13 19 68

13. How many times did you see the patient for this injury or sickness at home? _____ At office? _____

14. If hospitalized give dates: From: April 5 19 68 To: Still confined. 19__

Name of Hospital: South Carolina Sanatorium, State Park, S. C.

15. Has patient been able to perform ANY and EVERY duty pertaining to his occupation?

From: April 5 19 68 To: August 13 19 68

16. On what date did you release patient to resume work? Still confined to sanatorium. 19__
Undetermined.

17. In my opinion, probably total disability on account of disease 1 2 3 4 5 6 7 8 9 10 11 12 Weeks ☐ Months ☐ Days ☐

Date August 13 1968 Signed: [signature] M.D.
Taken from medical records, South Carolina Sanatorium (Attending Physician)

BE SURE ALL QUESTIONS HAVE BEEN ANSWERED

Address: South Carolina Sanatorium, State Park, S. C.
(Physician)

Licensed Physician, State of _____

Stone, Bobby

Case evaluated by Rehabilitation Staff and attending physician on October 3, 1968.

Staff members present: Mr. Hissen, Counselor
Mrs. Jackson, Social Worker
Mr. Garner, O. T. Director
Mrs. Wise, O. T. Aide
Mrs. Buff, O. T. Aide

Attending physician present: D. H. Bynoe, M. D.

Dr. Bynoe: This is a 31 year old male with moderately advanced tuberculosis, right side. He came here with positive sputum, but is now negative. He has had kind of a tough time. His wife was also a patient here for a couple of months, and went back home as non-tuberculous. When she was here he never stayed in the building, and he still doesn't stay in it even though she has gone home. I don't think he has too much education or intelligence. I think he does make a good worker though; that is, if he wants to do something, he can and will do it. He is a little hardheaded. He wants everything for himself, but doesn't want to sacrifice anything to get it. He is always asking for a pass home--I don't think he has ever stayed more than one month without asking for a pass. He has had it pretty rough though, and I think his family had to move from one county to another because of financial problems. The staff thought he could go home the last time he was brought up, but I didn't think he should go because I don't think he would take his medicine regularly. He doesn't even want to take it here. I hope he won't be here too much longer. I think he might be getting some sort of check--I filled out all sorts of insurance blanks for him.

Mrs. Jackson: He is getting some sort of insurance, and I guess he will get this as long as he is unable to work. He hasn't been here long enough to get Social Security since he just came in April.

Mr. Hissen: He has a 6th grade education. Test results are: Beta I.Q. 88; Wide Range Reading 3.2 grade level; arithmetic 3.9 grade level; and Purdue Pegboard 60-80%. He was a truck driver for an Ice and Fuel Company. He said he worked eight hours per day and that he won't have to unload trucks. He wants to go back to this.

Mrs. Buff: He does mostly baskets out of popsickle sticks, woodwork, etc., and really enjoys it. He mentioned to me one time that he would like to work in carpentry for awhile because he knew he could find work in that line.

Summary:

Dr. Bynoe thinks it is feasible for client to return to former job with the fuel and ice company. Even though he feels some lifting would be required he feels client is physically able to do this since he has disease on one side only. He recommends, however, that he not go into this type of work immediately after discharge but that he wait until he has been home for awhile.

/sh

1-3

20. **Do you authorize any physician, hospital, agency, or other organization to disclose to the Social Security Administration or to the State agency that may review this application or your continuing disability, any medical records or other information about your disability?** X Yes ☐ No

The events listed below may affect your entitlement to disability insurance benefits:

(a) Your MEDICAL CONDITION IMPROVES so that you would be able to work, even though you have not yet returned to work.

(b) You GO TO WORK, whether as an employee or a self-employed person.

(c) You apply for pension benefits under any workmen's compensation law or plan.

If you are now hospitalized:

(d) You are DISCHARGED FROM THE HOSPITAL.

21. **Do you agree to notify the Social Security Administration promptly if any of the above events occur?** X Yes ☐ No

Answer question 22 only if (a) you are at least age 62 (or are a widow at least age 60) AND (b) you are not currently entitled to a reduced old-age insurance benefit or a reduced widow's insurance benefit. Persons at least age 62 (or widows at least age 60) may be eligible for reduced retirement benefits. If you accept such reduced benefits your payments will be permanently reduced. The amount of reduction will depend upon several factors such as, your age, whether or not your claim for disability insurance benefits is allowed, and the first month of your entitlement to benefits.

22. **Do you wish this to be considered an application for any reduced benefits for which you may be eligible?** ☐ Yes ☐ No

IMPORTANT INFORMATION. PLEASE READ CAREFULLY. – A claimant for disability insurance benefits is required to submit medical evidence showing the nature and extent of his disability during the time he alleges he was under a disability. If such evidence is not sufficient to arrive at a determination, he may be requested to have an independent medical examination at the expense of the Social Security Administration. Should Social Security obtain information useful to his physician for treatment, such information may be furnished to him.

Knowing that anyone making a false statement or representation in an application or for use in determining a right to payment under the Social Security Act, commits a crime punishable under Federal law, I certify that the above statements are true.

SIGNATURE

SIGN HERE ▶

1. NAME

ADDRESS (Number and Street, City, State and ZIP Code)

MAILING ADDRESS (Number and Street, City, State and ZIP Code)

2. NAME

ADDRESS (Number and Street, City, State and ZIP Code)

CITY, STATE AND ZIP CODE

DATE (Month, day, year) TELEPHONE NUMBER

6/13/65

SIGNATURE OF COURT OFFICIAL (See item 20 on the back of this form)

STATEMENT BY WIFE OR DEPENDENT HUSBAND OF DISABLED PERSON

This statement must be filled out when an application is made for benefits on the account of a person when this application is completed and he is under age 65, or the application is made by a child claimed to be under age 18 or under age 22 and a student.

Do you desire this application to be an application for any social security benefits payable to you?
☐ Yes ☐ No

SIGNATURE OF WIFE OR DEPENDENT HUSBAND

Stone, Bobby Caine 12-3-37 [redacted]

69# 137

Admitted to South Carolina Sanatorium 4-5-68.

See attached copy of history sheet.

X

See attached copies.

See attached copies.

4600

See attached copies of X-ray reports.

[redacted]

Tuberculosis, pulmonary, moderately advanced, right.

Patient is taking antituberculosis drugs daily (Streptomycin and PASMA TRI-PACK.)

X

See attached copies.

See attached copies.

Vital capacity 4-5-68, 52%.

Taken from medical records
South Carolina Sanatorium
Stubs Park, S. C. 29147 fe

(Miss) Marie McMakin
Registrar 8-12-68

PHS-1
Rev. 7-65

Confidential Social-Economic Data

Submit in duplicate with application for admission to S.C. Sanatorium, State Park, S.C.

Date taken 4-2-68 Submitted by C. Traylor, PHN Title PHN

I. Personal
Name Stone Bobby O. County Sumter
last First Middle/Maiden

Home Address [redacted] Sumter
city

Birthdate [redacted] Age 30 Race W Sex M Marital Status (M) S W D Sep.

Is patient a veteran? yes ___ no ✓ Social Security # [redacted]

Last grade completed 6th Types of work experience heating & air conditioning

Last occupation Sumter Ice & Fuel Co. Date last employed 4-1-68

Name of last employer or name of school Sumter Ice & Fuel

Religion Baptist Name and address of church Pinebarren Baptist Johnsonville, SC.

II. Environmental factors:

A. MEMBERS OF HOUSEHOLD

	Name	Age	Relationship	Occupation	Income
1.	Maybell Stone	29	wife	housewife	
2.	Melinda "	4yrs	daughter		
3.	Bobby Wayne "	2yrs	son		
4.	Tammy "	5th	daughter		
5.					
6.					
7.					

B. Home
Distance to nearest town (and name) within city limits
Distance to nearest phone (how listed) at home (Phone No. 775-8381)
Home owned ___ rent aged Rent ✓ State of repair of home Fair
Number and kind of rooms: living room ✓ dining room ✓ kitchen ✓
bath room 1 bedrooms 2 number of beds 3 beds
Patient's sleeping arrangements alone & wife

Modern conveniences: screens ✓ toilets ✓ water supply ✓
electricity ✓ heating facilities ✓ refrigeration ✓
washing machine ✓ television ✓ radio ___ other ___
Location of home: farm ___ within city limits ✓
Type of neighborhood: rural ___ isolated ___ near neighbors ✓
city crowded ___

Social Economic Data

Page 2

C. How Family Will Manage While Patient is Hospitalized:
How will family be supported: apply for welfare assistance

What plans have been made for care of children? wife will care for.

Will public assistance be needed? Yes ✓ No ____

Family member now receiving ____ (GIVE NAME) Application made? ____ (GIVE DATE)

Financial assistance application denied ____ pending ____ granted ____

III. How Patient's Need for Personal Items Will Be Met:
Who will supply soap, toothpaste, pajamas, bedroom slippers, robes, toilet articles, stamps, stationary, and small change while patient is in the hospital? (name and address) Patient

IV. Patient's Reaction to Diagnosis:
Who told patient of his diagnosis Dr E.A. Hein When 4-2-68

Patient's reaction willing for treatment

Problems which concern patient family support

When was hospitalization recommended 4-2-68
Patient's response calm - eager for treatment

Patient's physician Dr. W.R. Harvitt

V. Attitudes:
(These are your opinions at this time and may change even before patient's admission to hospital.)
What special feelings are displayed by patient and/or family regarding this illness and hospitalization ____
Do they understand that length of hospitalization is dependent on how he responds to treatment? yes
Does patient have a time limit idea yes Source ____
Does the family understand that their attitude will influence the patient's ability to remain hospitalized and under treatment? wife doesn't know it.
Will family be able to write ✓ or visit ____ with patient?

VI. Significant health factors:
Prior illnesses of patient no
Health problems of family some with health not good.
Handicaps of patient and/or family none
Name member of family or friends who have had tuberculosis uncle - from Florence County.
Hospital or sanatorium at which patient has been treated none
How long has patient been known to County Health Department 1962

Any additional information you feel will be of interest or help to sanatorium personnel, please add below and on reverse side.

SOUTH CAROLINA SANATORIUM

CHEMOTHERAPY RECORD

Bobby Ozine Stone

DATE STARTED	CHEMOTHERAPY	DATE DISCONTINUED	TOTAL
4-8-68	STREPTOMYCIN Gm i daily x 60 days	6-6-68	60 Gm
6/7/68	Strept Gm i I.M.	10-15-68	5 Gm
4-8-68	PAS 12 gms daily	6/20/68	
9-30-68	PAS 3 gms daily	10-15-68	
6/21/68	Tri-Pack 600 Bid	10-15-68	
4-8-68	ISONIAZID 300 mg daily	6/20/68	

Form 21

October 17, 1968

Director
Sumter County Health Department
Sumter, South Carolina 29150

Mr. Bobby Ozias Stone, WM, of Sumter, S. C., who was admitted to the State Park Health Center April 5, 1968, was discharged from the service of D. H. Bynoe, M.D. October 15, 1968.

Diagnosis: Tuberculosis, pulmonary, moderately advanced, right. Active (6 months), improved, (Chemotherapy) III.
Sputum—last positive culture 5-1-68, two negative cultures and three unreported cultures thereafter.***

Complications: None.

Treatment: Bed rest.
Chemotherapy. (Streptomycin grams one daily 4-8-68 to 6-6-68, then grams one t.i.w. 6-7-68 to 10-15-68; PAS grams IV t.i.d. 4-8-68 to 6-20-68 and grams III daily 9-30-68 to 10-15-68; Isoniazid 100 mgs. t.i.d. 4-8-68 to 6-20-68; PASNA TRI-PACK 600 b.i.d. 6-21-68 to 10-15-68.)
Sensitivity tests not done.

Recommendation: PAS grams IV t.i.d. and Isoniazid 100 mgs. t.i.d. for 18 months; X-ray and sputum examinations every three months; may do light work to tolerance.

For the Medical Director,

***These three cultures have been reported negative.

(Miss) Marie McMakin
Registrar

mm

cc: E. A. Heise, M.D.
Central Register
X-ray Department

Certificate of Attending Physician

DIAMOND STATE LIFE INSURANCE COMPANY
Wilmington, Delaware

To be completed without reference to the Insurance Company. Please answer all questions.

To be filled in by Agent

Account No. _____
Policy No. _____
Issued by _____ Agent

The following information is required of the Attending Physician in connection with the disability of:

[redacted]

2. Address: 420 B Road, Sumter, S. C.
(Street) (City) (State)

3. Describe Disability: Tuberculosis, pulmonary, moderately advanced, right.

Date of Onset About March 19 68

4. Complications: None.

5. Has the Claimant previously suffered from a disease similar to that described above? No.

6. Present Condition: Improved.

7. Prognosis: Listed as guarded.

8. Nature of operation, if any None in this hospital.

9. Names of physicians who previously treated patient for the above condition: S. A. Heise, M.D., signed application for admission to the sanatorium.

10. Are conditions in any way complicated to lengthening the period of disability? Positive sputum cultures.

11. Date of first and last professional treatment for this injury or sickness:

First visited 4-5-68 19___ Last Attended August 13 19 68

How many times did you see the patient for this injury or sickness at home? _____ At office? _____

12. If hospitalized give dates: From April 5 19 68 To Still confined. 19___

Name of Hospital South Carolina Sanatorium, State Park, S. C.

13. If claim is for wage TOTALLY DISABLED by sickness or ANY and EVERY duty pertaining to his occupation:

From April 19 68 To August 13 19 68

14. On what date did you release patient to perform regular duties? Still confined to sanatorium. 19___
Undetermined.

15. In my opinion, probably further TOTAL disability should not exceed 1 2 3 4 5 6 7 8 9 10 11 12 Weeks Months

Date August 13 19 68 Signed [signature] M.D.

Taken from medical records, South Carolina Sanatorium (Attending Physician)

BE SURE ALL QUESTIONS HAVE BEEN ANSWERED

Address South Carolina Sanatorium, State Park, S. C.
(City and State)

(If more than one attending Physician, use form 68-64)

Casualty & Surety Division
1200 Pickens Street, Box 11010
Columbia, S.C. 29211
779-3010

Rec. 12-14-68

December 7, 1968

Records Department
S. C. State Sanitorium
901 Farrow Road
State Park, South Carolina

Gentlemen:

Re: Group Policy, Sumter Ice & Fuel Company, B. O. Stone

Mr. Stone was discharged from your sanitorium on October 15, 1968, after being confined sometime for a tuberculosis condition. We respectfully request a copy of his admission and discharge records.

Enclosed you will find a patient's permission slip to authorize release of information, signed by Mr. Bobby Stone. We are requesting this information to substantiate a disability claim on your former patient. Your help will be most sincerely appreciated. Please advise if there is any charge for these records.

Yours very truly,

Barry M. Cox, Supervisor
Group Claim Department

BMC:wl

Enclosure

December 7, 1968

Records Department
S. C. State Sanitorium
901 Farrow Road
State Park, South Carolina

Gentlemen:

Re: Group Policy, Sumter Ice & Fuel Company, B. O. Stone

Mr. Stone was discharged from your sanitorium on October 15, 1968, after being confined sometime for a tuberculosis condition. We respectfully request a copy of his admission and discharge records.

Enclosed you will find a patient's permission slip to authorize release of information, signed by Mr. Bobby Stone. We are requesting this information to substantiate a disability claim on your former patient. Your help will be most sincerely appreciated. Please advise if there is any charge for these records.

Yours very truly,

Harry M. Cox, Supervisor
Group Claim Department

HMC:wl

Enclosure

December 21, 1968

Mr. Barry M. Cox, Supervisor
Group Claim Department
Casualty & Surety Division
1300 Pickens Street, Box 11010
Columbia, S. C. 29211

Re: Bobby Ozina Stone

Dear Sir:

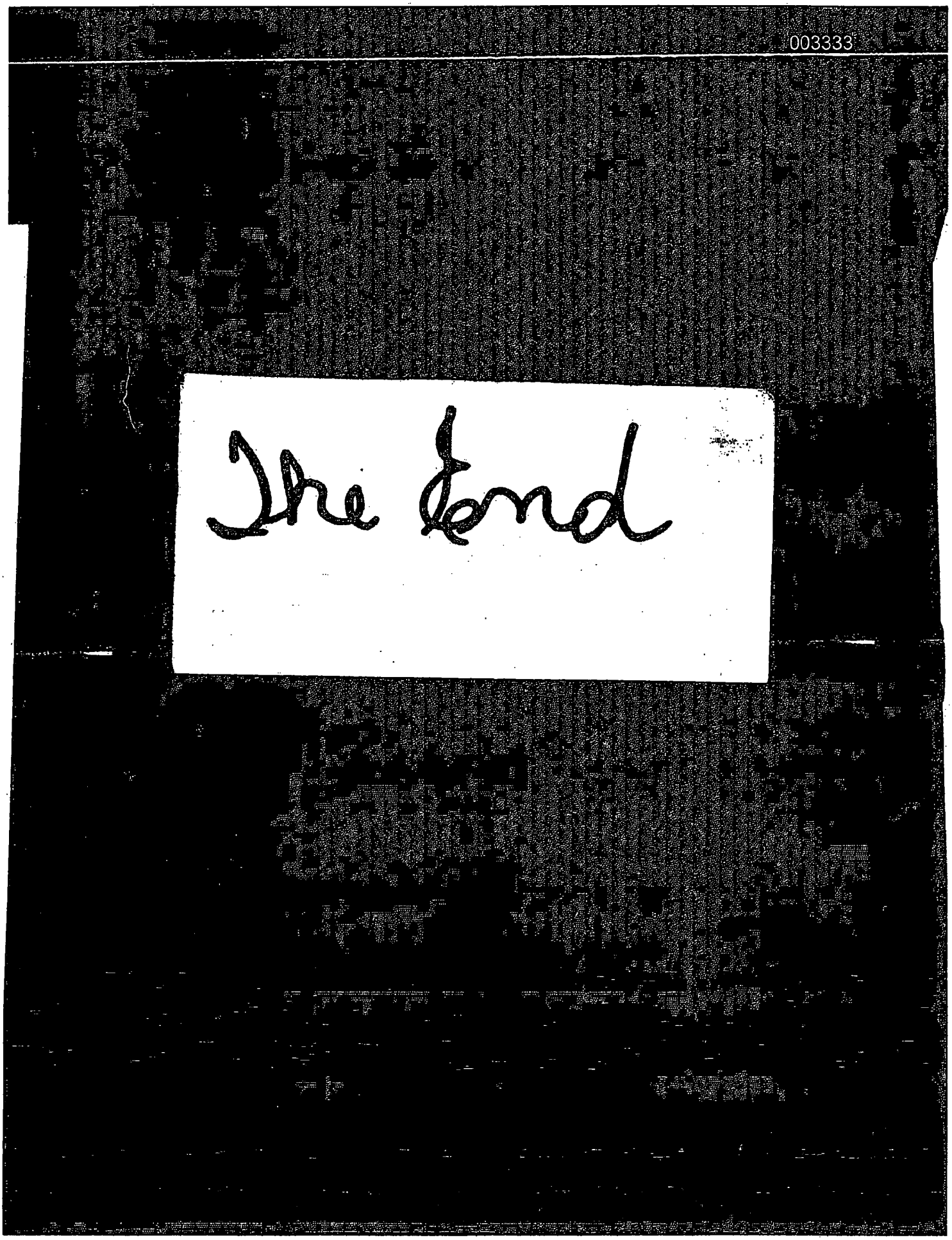
In compliance with your request we are sending herewith copies of the medical records in the case of the above named ex-patient of this hospital.

Very truly yours,

(Miss) Marie McMakin
Registrar

mm

Enclosures

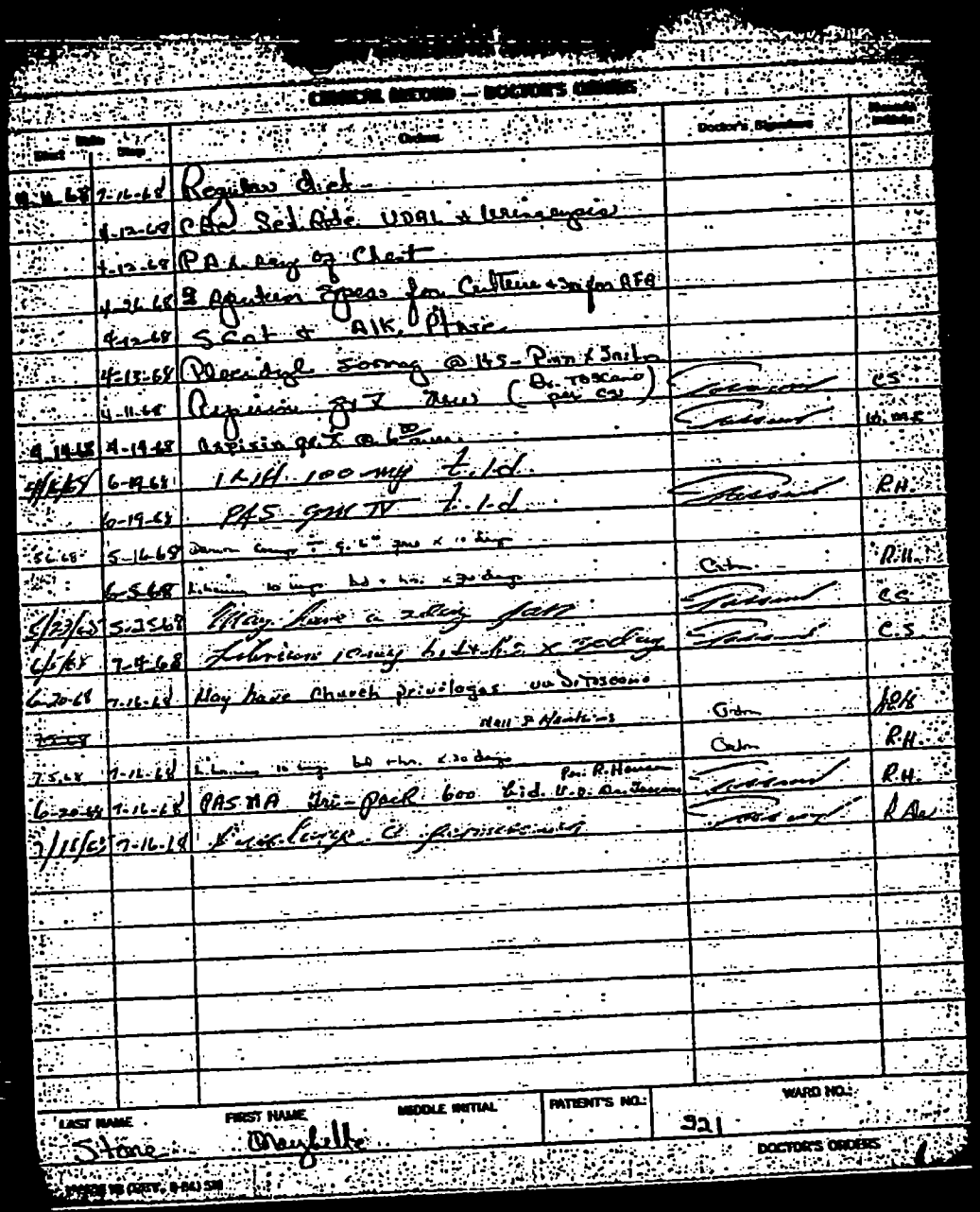

The End

SOUTH CAROLINA SANATORIUM

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
7-16-68	8AM.	PAS R.A Tri-gesic 6cc R.A.			
	8-1	Librium 10 mg R.A.			
	(6 00)	PAS & Tri Gesic 6cc R De			
	(6 00)	Librium 10 mg R De			
	7 10	Left Sanatorium after being discharged by Staff by Dr's. R De			
		PAS & INH given to Pt. for The Test 10 days R De			

Name Stone, Mr Maghee

Sheet No. 10



CLINICAL RECORD — DOCTOR'S ORDERS

Start Date	Stop Date	Orders	Doctor's Signature	Nurse's Initials
6-11-68	7-16-68	Regular Diet		
	6-12-68	CBC Sed Rate VDRL + Urinanalysis		
	6-12-68	PA Lung of Chest		
	6-26-68	2 Aquatem Tabs for Cultures + Sens for AFB		
	6-12-68	Scat + AIK. Phase		
	6-13-68	Percodan 5 every @ 145 - Pain / Soils		
	6-11-68	Aspirin gr X Now (Dr. Tolson per CO)		C.S.
6-19-68	6-19-68	Aspirin gr X @ 6pm		M. M.S.
6/19/68	6-19-68	IKH 100 mg I.V.D.		
	6-19-68	PAS gm IV I.V.D.		R.H.
6-5-68	5-16-69	Diet Soup - 5 6oz Jello x 1 day		
	6-5-68	Diet soup bid + hs. x 30 days		R.H.
6/23/68	5-25-68	May have a belly pass		C.S.
6/6/68	7-9-68	Isolation (Cough) b.i.d. H.S. x 30 days		C.S.
6-20-68	7-16-68	May have Church privileges via Stretcher		
		Neil & Hamilton		
7-5-68	7-16-68	Diet soup bid + hs. x 30 days		JOK
		Pen: R. Hamm		R.H.
6-20-68	7-16-68	PAS NA Tri-pack 600 t.i.d. P.O.		R.H.
7/15/68	7-16-68	Keep Lungs Clear		R Ac.

LAST NAME: Stone | FIRST NAME: Maybelle | MIDDLE INITIAL: | PATIENT'S NO.: | WARD NO.: 321

DOCTOR'S ORDERS

SOUTH CAROLINA SANATORIUM

Sumter Park, S. C.

No. 18,846
Date 4-11-68
Service Dr. Toscano

Stone, Maybell Floyd, [redacted], Sumter, Sumter County, S. C.
(Name) (Address)

Chief Complaints (use patient's own words).

Detailed History.

This is a 23-year-old housewife who states that she had enjoyed good health all her life except for severe burns in both lower extremities when she was six years old. Approximately six months ago her husband's uncle was found to have tuberculosis and was admitted to the VA hospital in Charleston, S. C., because of the contact history the entire family was X-rayed and this patient was found to have a lesion. Sputum studies were done and she was also tuberculin tested, but she does not know the results of these studies. She was told that she had tuberculosis and that admission to the sanatorium was necessary.

Her husband, too, was found to have tuberculosis and was admitted to this sanatorium approximately two weeks ago.

Last perfectly well Not ill. Stopped work Housewife
Fever None Night sweats None
Chills None Strength No fatigue.
Weight changes None

Form 54a Revised 1-58—(250)

PERSONAL HISTORY

Age 23 Sex Female M. S. W. Married Occupation Housewife

Family History Father, age 57, L & W; mother, age 52, L & W; four brothers and three sisters all L & W. One uncle Wesley Stone is a patient at the VA hospital in Charleston and her husband is a patient at this sanatorium.

Marital History Husband, age 30, is now a patient at this sanatorium; three children, ages 5, 2 and 5 months, all L & W.

Previous Illness (date) Measles No Mumps No Chicken Pox No Diphtheria No
Scarlet Fever No Whooping Cough No Tonsilitis No Influenza Yes
Pneumonia No Tuberculosis No Rheumatism No Typhoid No Malaria No
Lues Neisser Other Diseases at age 6, severe burns of both lower extremities
Operations (by whom and date) Skin graft for burns.

REVIEW OF SYSTEMS, HABITS AND OTHER INFLUENCES:

Skin No dermatitis but marked scarring of both lower extremities, posteriorly. Throat No sore throat.
Head No vertigo or blackouts. Teeth Good
Eyes No loss of vision. Mouth Normal
Ears No loss of hearing. Neck No torticollis.
Nose No airway obstruction. Glands None.
Respiratory System: Cough None
Expectoration (amount, color, character) None
Hemoptysis None
Wheeze None
Chest Pain None
Dyspnea None
Pleurisy None

Cardiovascular System No history of cardiovascular disease.

Gastro-Intestinal System (Including Liver and Gall Bladder) No history of gastro-intestinal disease; no liver or gallbladder disease.

Rectum No hemorrhoids or fistula-in-ano.
Genito-Urinary System No nocturia, dysuria or discharge.

Menstrual History Last menses 4-1-68, 7 times 28 days; para III, gravida III.

Muscles—Bones—Joints No limitation of motion; no muscle atrophy.
Sleep and Rest Good
Drug Habit Non-addicted.
Alcohol None Tea Yes Coffee Yes Tobacco 1 pk cigs daily.
Psychic and Nervous Influences None

Environment or Occupational Hazards None
Endurance Good

Form 50(b) Revised 2-43—2M KOHN PTG. CO.

PHYSICAL EXAMINATION

Height 62" Weight 123 Average Weight 123

B.P. Syst. 90 Diast. 60

General Appearance Well developed and well nourished; in no acute distress.

Skin and M. M. Severe scars in both lower extremities, extending from the hips down to the mid-calf.

Head—Sinuses Clear

Eyes Even and regular to L & D; no conjunctivitis; no strabismus.

Ears Canals clear, drums intact and not injected.

Nose No septal deviation; no airway obstruction.

Tongue Moist and in mid line.

Teeth Good

Tonsils and Pharynx Not injected.

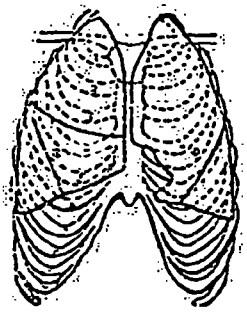
Larynx NE

Lymph Glands None

Neck—(Thyroid) Not enlarged.

Breasts Normal female.

Chest Normal cage.

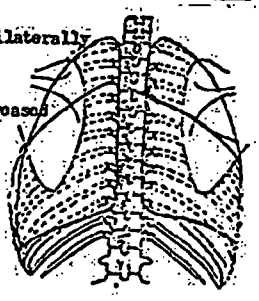


Inspection Equal excursion, bilaterally

Palpation No increased or decreased tactile fremitus.

Percussion No dullness or flatness.

Auscultation No rales.



Vital Capacity 1.8 Liters (57%)

Mediastinum In midline.

Cardiovascular System—Heart, Arteries, Veins Apex beat at 5th interspace at midclavicular line; no murmurs.

Abdomen Soft, flat, no masses palpable; liver and spleen not palpable.

Genito-Urinary System Within normal limits.

Hernia None

Rectum No hemorrhoids or fistula-in-ano.

Prostate NA

Pelvis (Female) ND

Muscles—Bones—Joints—Foot Arches No limitation of motion; no muscle atrophy.

Neurological Findings—Cranial Nerves No evidence of cranial nerve disease.

Spinal Nerves No evidence of spinal nerve disease.

Reflexes Physiological.

Sensory Disturbances None

Motor Disturbances None

Endocrine Disturbances None

Fluoroscopic Examination ND

Positive Findings Right lung: Soft, light infiltration beneath the 1st anterior rib;
Left lung: Question of soft infiltration in the 1st interspace.

Impression of Examiner Pulmonary tuberculosis, minimal, bilateral.

Prognosis Guarded

4-15-53
RCT/ly

Signed Rosario C. Toscano M.D.
Rosario C. Toscano, M. D.
Attending Physician

April 24,1968

E.A.Heise,M.D.,
Director,
Sumter County Health Dept.,
Sumter,South Carolina.

Re: Stone,Maybell

Dear Doctor Heise:

The above named patient, for whom you signed an application for admission, was admitted to the Sanatorium on April 11,1968.

Her case was presented to the Medical Staff April 16, 1968. The Staff decision was to administer isoniazid and para-aminosalicylic acid.

Diagnosis: Pulmonary tuberculosis, minimal.Bilateral.
Sputum : Negative.

If, in the future, you desire further information concerning her course we shall be glad to hear from you.

With kindest regards.

Yours very truly,

For- The Medical Director

Mildred H.Davenport,Secretary

SOUTH CAROLINA SANATORIUM
Sumter Plant, S. C.
PROCESS SHEET

Name Stone, Maybelle Case No. 18846 Ward 2nd South

(Start notes with date: end with Signature: draw line beneath each entry.)

4/16/68 — Adm. Pt.

Recommendations

INH - PAS

Patient

5/6/68 - Stomach conditions in good. No complaints

Same

6/10/68 - Stomach Conditions in considerable

Same

7/10/68 — Pt. Adm.

age 23 - admitted 4/11/68 - started with INH - PAS and has been maintained on these since admission. Sputum negative.

Recommendations

1. Discharge - minimal, negative x-ray (2) Improved (1)
2. Continue INH - PAS x 24 months. Plus re-check
3. X-ray 3-84 months
4. Sputum studies 2 & 4 months
5. May be moved downstairs

Same

Signed _____ Date _____

Form 6—12-61

SOUTH CAROLINA SANATORIUM

STATE PARK, S. C.

X-RAY REPORT

Name Shame, Maybell Age Division ___ Serv. Case No.

Date	Requests	Findings
	In making requests, give exact location of part to be examined together with brief essential data, and probable diagnosis. Sign all requests MEMORANDUM	Sumter County Health Department film # 13367 made 4-1-68. PA Chest shows the heart to be of normal size and configuration. There are cystic changes above the clavicle on the right and there is suggestion of infiltrate in the circle of the 1st rib. There is a small calcific focus in the 1st interspace, right. Impression: Findings are suspicious for minimal acid-fast disease, right. 5-5-68 ws/ly R.C.

SOUTH CAROLINA SANATORIUM

STATE PARK, S. C.

X-RAY REPORT

Name Stone, Maybell | Age | Division | Serv. | Case No.

Date	Requests	Findings
	In making requests, give exact location of part to be examined together with brief essential data, and probable diagnosis. Sign all requests MEMORANDUM	Sumter County Health Department film # 13367, dated 4-2-68, shows faint infiltrate in the 1st interspace on the right with a small calcification in the inner aspect. The accompanying Lordotic view shows some honeycombing in the area but no definite cavitation is noted. There is a questionable lesion in the periphery of the 1st interspace, left. Diagnosis: Suspicious for pulmonary tuberculosis, minimal, bilateral. 4-15-68 GWB/ly R.C.S.

Jas. W. Brunson

GEORGE W. BRUNSON, M.D., MACR
RADIOLOGIST

FORM 9—3-68—5M

New Pt.

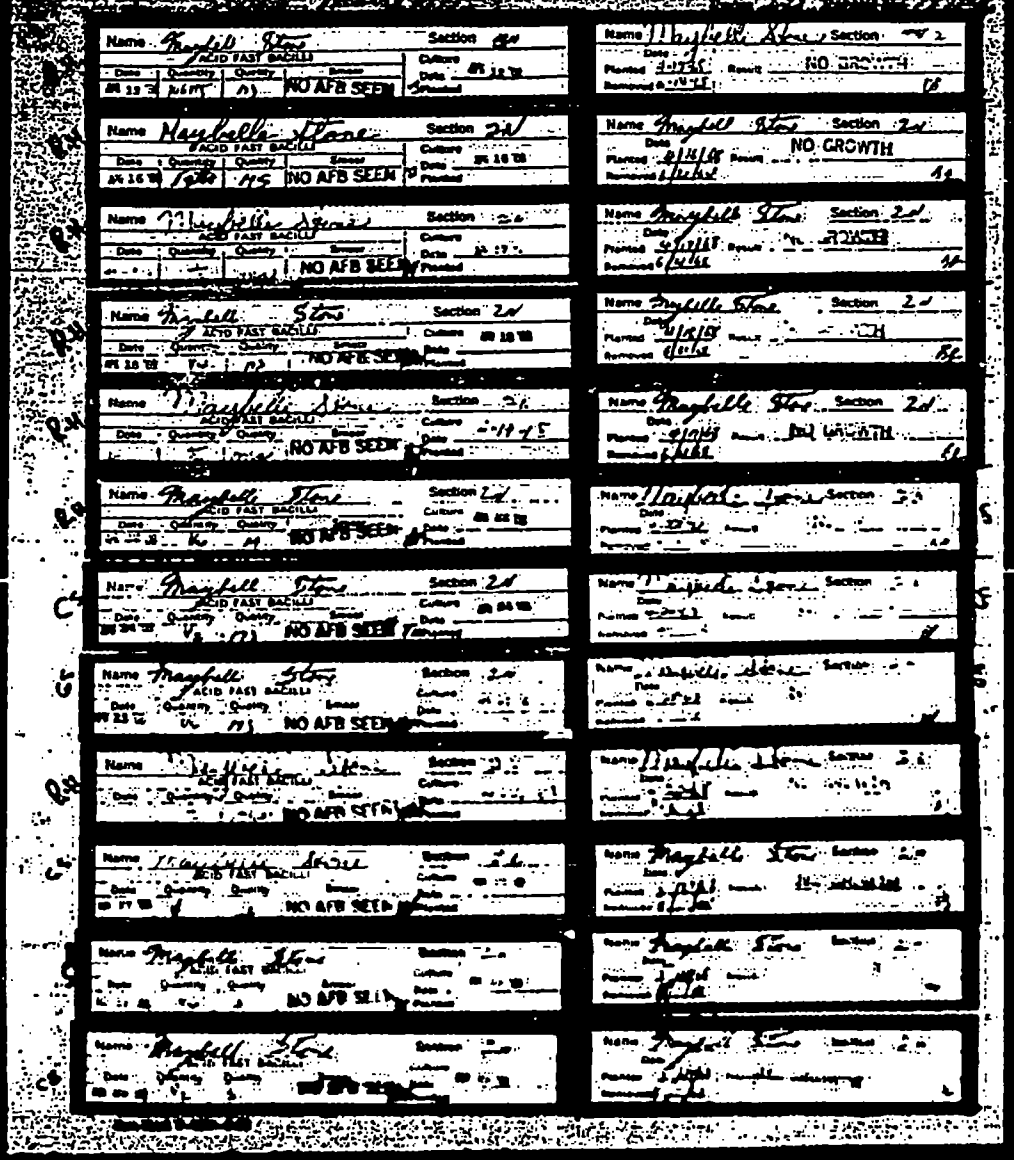
SOUTH CAROLINA SANATORIUM

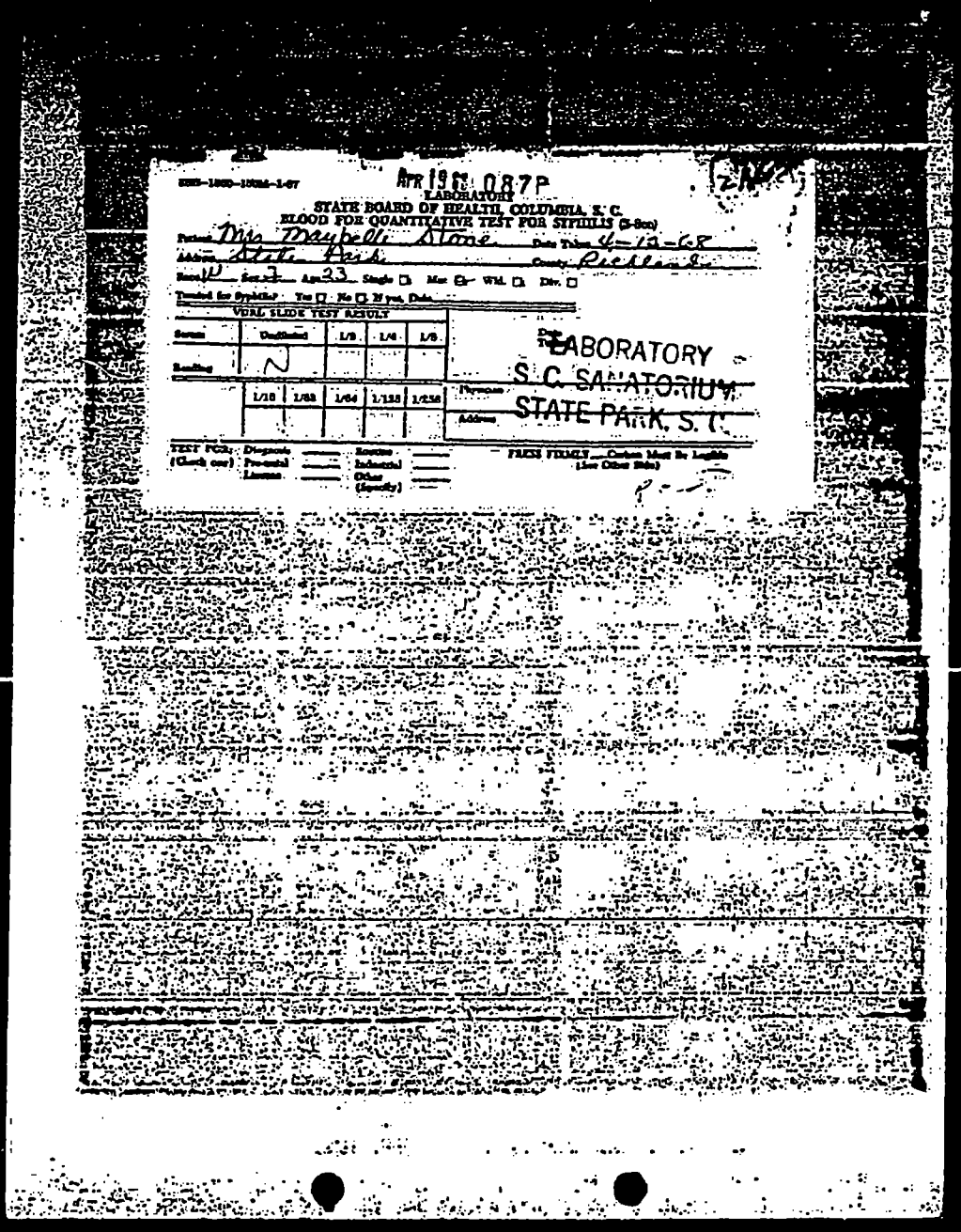
STATE PARK, S. C.

X-RAY REPORT

Name Stone, Mrs. Macphell Age 23 Division 2nd fl Serv. Tuscan Case No. 18,846

Date	Requests N 1920 In making requests, give exact location of part to be examined together with brief essential data, and probable diagnosis. Sign all requests	Findings
1968 4-12	Routine Chest X-Ray P.A. Dr. Toolan ICS. Both Hilar & Lind. ICA.	Film # N 1920 made 4-12-68. PA, both Oblique and Lordotic views of the chest show faintly some infiltration in the supra- and infraclavicular areas on the right with honeycombing noted in the lordotic view on the right. There is a suggestion of a small area of infiltration in the periphery of the 1st interspace, left. There has been no change since the Sumter County Health Department films previously noted. Diagnosis: Pulmonary tuberculosis, minimal, bilateral. 4-15-68. GWB/ly
7-5-68	037 PA Chest X-ray Dr. Toolan/RH.	Film # O 37 made 7-5-68 compared to film made 4-12-68. Reexamination of the chest shows further clearing and shrinkage of the supraclavicular infiltrate on the right and shows some faint fibrosis in the 1st interspace on this side. There is also a little fibrotic involvement in the 1st interspace, left, bordering on normal. Diagnosis: Pulmonary tuberculosis, minimal, bilateral. Improved. 7-8-68 GWB/ly


NO AFB SEEN
NO GROWTH



LABORATORY
STATE BOARD OF HEALTH, COLUMBIA, S. C.
BLOOD FOR QUANTITATIVE TEST FOR SYPHILIS (5-8cc)

Patient Miss Maybelle Stone Date Taken 4-10-28
Address State Park County Pickens
Race W Sex F Age 23 Single ☐ Mar. ☒ Wid. ☐ Div. ☐
Treated for Syphilis? Yes ☐ No ☐ If yes, Date

VDRL SLIDE TEST RESULT

	Undiluted	1/8	1/4	1/8
Serum				
Reading	2			

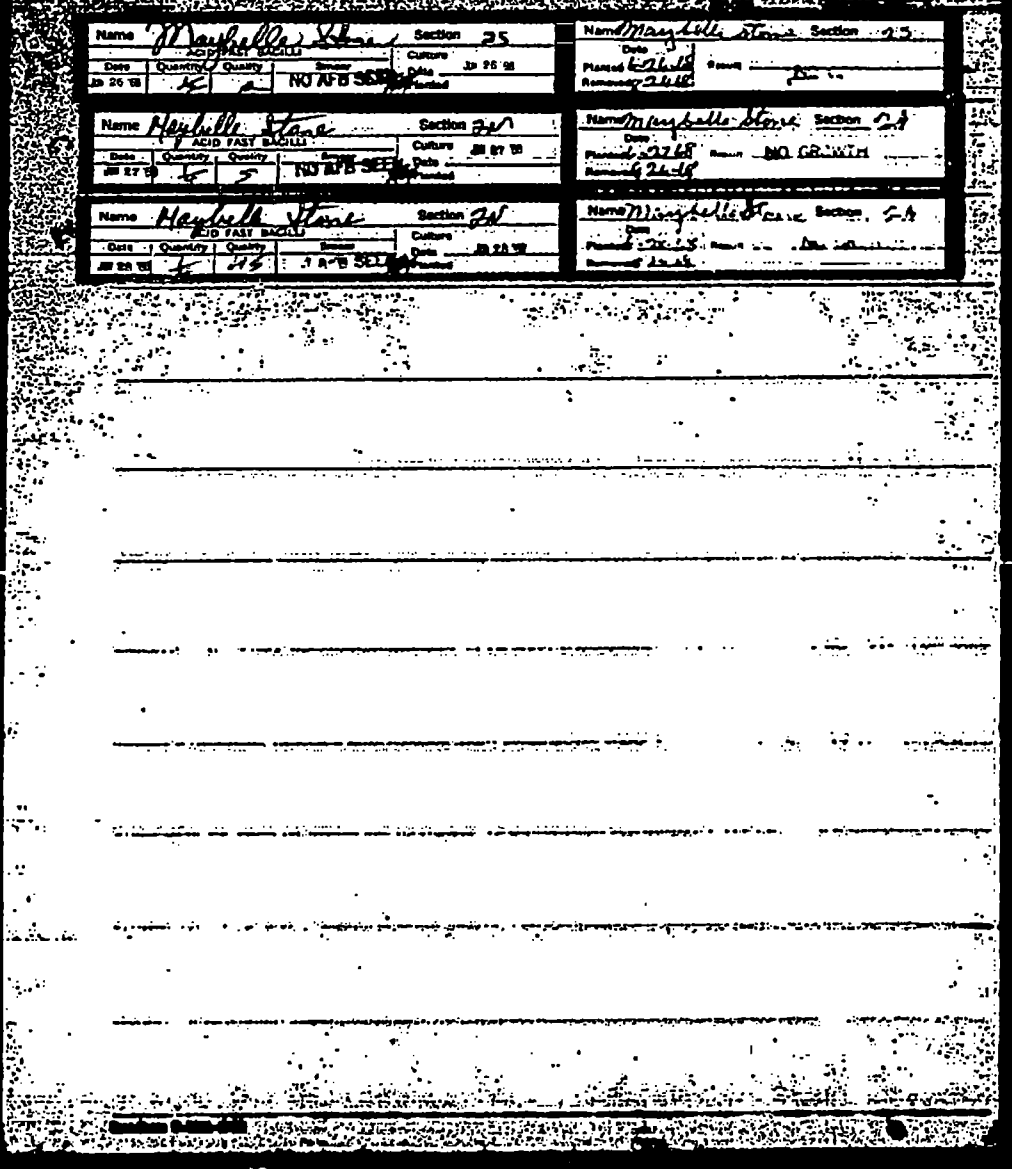
1/16	1/32	1/64	1/128	1/256

Physician
Address

TEST FOR: (Check one) Diagnosis ___ Routine ___ Pre-natal ___ Industrial ___ License ___ Other (Specify) ___

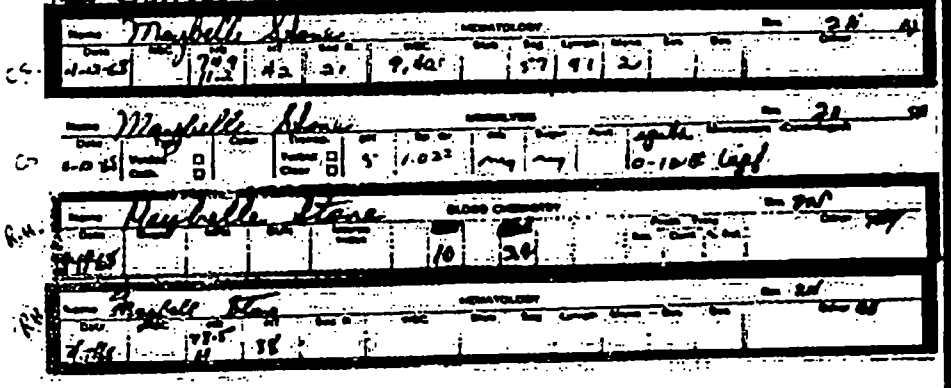
PRESS FIRMLY—Carbon Must Be Legible (See Other Side)

LABORATORY
S. C. SANATORIUM
STATE PARK, S. C.


Name Mayfield Stone
Section 25
ACID FAST BACILLI
Culture
Date
Date Planted
Quantity
Quantity
Smear
Date
Reported
NO AFB SEEN
Name Mayfield Stone
Section 25
Date
Planted 6-24-68
Result
Removed 7-1-68
Name Mayfield Stone
Section 24
ACID FAST BACILLI
Culture
Date
Date Planted
Quantity
Quantity
Smear
NO AFB SEEN
Name Mayfield Stone
Section 24
Date
Planted 6-24-68
Result NO GROWTH
Removed 7-24-68
Name Mayfield Stone
Section 24
ACID FAST BACILLI
Culture
Date
Date Planted
Quantity
Quantity
Smear
NO AFB SEEN
Name Mayfield Stone
Section 24
Date
Planted
Result
Removed

SOUTH CAROLINA SANATORIUM LABORATORY REPORTS

Name Stone, Maybelle Room 221 Record No. 18,844



South Carolina Sanatorium

State Park, S. C.

June 7, 1968

I hereby authorize the authorities of the South Carolina Sanatorium to furnish to the Diamond State Life Insurance Company information concerning my medical history, physical condition and diagnosis.

Mary Nell Glazer Hawkins
(Witness)

Maybelle S. Tozer
(Applicant's signature)

SS-1
Rev. 7-65

Social-Economic Data

Submit in duplicate with application for admission to S. C. Sanatorium, State Park.

Date Taken 4-22-68 Submitted by Sara B. Jackson Title Social worker

I. Personal
Name Stone Maybell Floyd County Sumter
Last First Middle/Maiden
Mailing Address Rt 1 Swanton S.C.
Home Address Route Number or Street City

Birthdate [redacted] Age 23 Race W Sex F Marital Status (M) S W D Sep.

Is Patient a veteran? NO Social Security No. [redacted]

Last grade completed 6th Types of work experience Sewing Room

Last occupation Sewing Room Date last employed 1967

Name of last employer Oxford Mfg Co. Religion Holiness

Name and address of church Pentecostal Holiness

II. Environmental Factors:

A. MEMBERS OF HOUSEHOLD

	Name	Age	Relationship	Occupation	Income
1.	Bobby Stone	30	husband		
2.	Melinda "	5	daughter		
3.	Wayne "	2	son		
4.	Tenny "	5 mo	daughter		
5.					
6.					
7.					

B. Home
Distance to nearest phone (now listed) _____ Phone No. _____
Home owned ___ mortgaged ___ Rent ___ State monthly rental of home _____
Number and kind of rooms: living room ___ dining room ___ kitchen ___
other on premises ___ Number of beds ___ Will be able to give up downstairs bedroom.
Patient's planning for payments _____
Furniture Will not be adequate for living space.
Modern conveniences: screens ___ toilets _____ water supply _____
electricity ___ heating facilities _____ refrigeration _____
washing machine ___ elevation _____ radio ___ other _____
Location of home: farm ___ within city limits _____
Type neighborhood: rural ___ suburban ___ near industrial ___ city center ___

4627

Social-Economic Data

C. How Family Will Manage While Patient is Hospitalized:
How will family be supported: Relatives support children

What plans have been made for care of children? Pat Mother May Floyd
Cares for Malinda - Two others are with relatives -

Will public assistance be needed? Yes _____ No Separated -

Family Member now receiving _____ (give name) Application made? _____ (give date)

Financial assistance application denied ____ pending ____ granted _____

III. How Patient's Need For Personal Items Will Be Met:
Who will supply soap, toothpaste, pajamas, bedroom slippers, rotes, toilet articles, stamps, stationary, and small change while patient is in the hospital? (Name and address) TBA + family

IV. Patient's Reaction to Diagnosis
Who told patient of his diagnosis C H D when April 1968
Patient's reaction upset - cried
Problems which concern patient Long away from children
When was hospitalization recommended April 1968
Patient's physician Dr Harriett

V. Attitudes
(Give in your opinion at this time and may change even before patient's admission to hospital)
What special feelings are displayed by patient and family regarding this illness and hospitalization Anxious to get well + return to children
Do they understand that length of hospitalization is dependent on how he responds to treatment? Yes appears understanding
Does patient have a time limit in mind? No Source
Does the family understand that their attitude will influence the patient's ability to remain in hospital and under treatment?
Will the family be able to write letters or visit often with patient.

VI. Significant Health Factors
Prior illnesses of patient Stroke - "Gut hurt"
Health problems of family Father - gut or liver hurt
Handicaps of patient and/or family Lives at home age - needs care.
Name, number of family or friends who had tuberculosis, currently under care, last X-ray, Where, Status, etc. Lee Hospital
Hospital or Sanatorium in which patient has been treated ____ years
How long has patient been known to County Health Department ____ months

Any additional information you feel will be of interest or help to a physician in understanding patient's personality, please add below and on reverse side.

1) Described doesn't feel dizziness
2) Afraid Left by herself in future.

July 9, 1968

Mrs. Frances H. Douglas
Department of Public Welfare
710 S. Irby Street
Florence, South Carolina

Re: Marshall F. Floyd &
Sissy Floyd's Children

Dear Mrs. Douglas:

Mr. and Mrs. Stone were found to have Pulmonary Tuberculosis and were admitted to this hospital in April, 1968. They are the parents of three children who had to be placed with relatives. They have requested that I write to you with reference to financial assistance for two of the children.

Their daughter, [redacted] is being cared for by the maternal grandparents, Mary and Baker Floyd, who live at Route 1, Scranton, South Carolina. Mr. Floyd, who is a farmer, is unable to work because of inability to use his arm. Mrs. Floyd is a diabetic and unable to work.

The son Wayne, born [illegible], is with the paternal grandparents, Lottie Mae and Melon Stone, who lives in Boston, South Carolina.

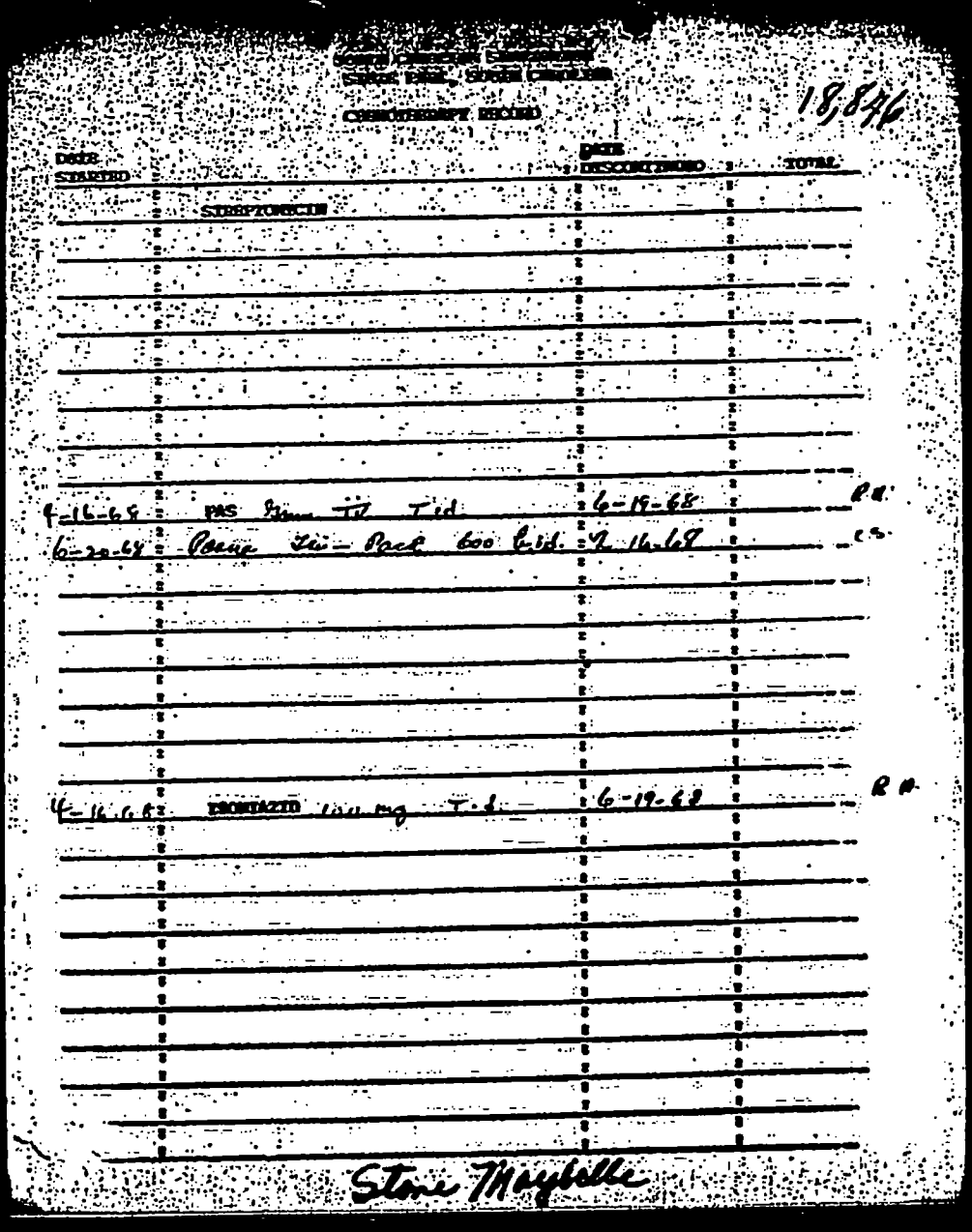
The Stone's stated that application for [illegible] has been made, but no help received as yet. We will appreciate your letting us know the status of the application in order that we can advise our patients. Thank you for your cooperation.

Yours very truly,

Clara [illegible] James (Mrs.)
Social Worker

lmm

cc: Medical Record 2F
Superintendents Office



CHEMOTHERAPY RECORD

1884

DATE STARTED		DATE DISCONTINUED	TOTAL
	STREPTOMYCIN		
4-16-68	PAS 3gm Tid	6-19-68	R.A.
6-20-68	Ponce Tii — Pack 600 C.id.	7-16-68	C.S.
4-16-68	ISONIAZID 100 mg T.i.d.	6-19-68	R.A.

Stone Mayfield

July 18, 1968

Director
Sumter County Health Department
Sumter, South Carolina 29150

Mabell Floyd Stone (WF), Sumter, South Carolina, who was admitted to the South Carolina Sanatorium April 11, 1968, was discharged from the service of Rosario C. Tuscano, M. D., July 16, 1968.

Diagnosis: Tuberculosis, pulmonary, minimal, right. Active (3 months), improved, (Chemotherapy) III.
Sputum negative by smear and culture entire stay in sanatorium with seven unreported cultures.

Complications: None.

Treatment: Bed rest.
Chemotherapy. (PAS grams IV t.i.d. 4-16-68 to 6-19-68; PASNA Tri-pack 600 b.i.d. 6-20-68 to 7-16-68; Isoniazid 100 mgs t.i.d. 4-16-68 to 7-19-68.)

Recommendations: Isoniazid 300 mgs and PAS 12 grams daily for 24 months, then re-evaluate; X-ray and sputum studies every four months; may do usual housework.

For the Medical Director,

(Miss) Marie McMakin
Registrar

fn

cc: E. A. Heise, M. D.
Central Register
X-ray Department

June 7, 1968

I hereby authorize the authorities of the South Carolina Sanatorium to furnish to the Diamond State Life Insurance Company information concerning my medical history, physical condition and diagnosis.

Mary Nell Eleazer Hawkins
(Witness)

Maybelle Stone
(Applicant's signature)

2nd North: Mrs Maybell Stone

CERTIFICATE OF ATTENDING PHYSICIAN

TO BE FILLED IN BY AGENT

Account No. _____

Policy No. _____

Issued By _____ (Agent)

DIAMOND STATE LIFE INSURANCE COMPANY

Wilmington, Delaware

To be furnished without expense to the Insurance Company. Please answer all questions.

The following information is required of the Attending Physician in connection with the disability of:

1. Patient's Full Name Maybell Floyd Stone
2. Address [redacted] (Street) (City) (State)
3. Describe Disability: Pulmonary tuberculosis, minimal, bilateral. Routine chest X-ray because of contact April, 1968. Date of Onset 19
4. Complications: None.
5. Has the Claimant previously suffered from any illness similar to that described above? No according to history.
6. Present Condition: Satisfactory--admitted to sanatorium 4-11-68.
7. Prognosis: Listed as guarded.
8. Nature of operation, if any None in this hospital.
9. Names of physicians who previously treated patient for the above condition: E. A. Heise, M.D., signed application for admission to sanatorium.
10. What conditions, if any, contributed to lengthening the period of disability? Patient has tuberculosis.
11. Give date of first and last consultation or treatment for this injury or sickness:
    First Attended 4-11-68 19 Last Attended 6-7-68 19
12. How many times did you see the patient for this injury or sickness at home? None. At office?
13. If hospitalized give dates: From April 11 19 68 To Still confined.
    Name of Hospital South Carolina Sanatorium, State Park, S. C. 29147
14. Give dates he was TOTALLY DISABLED from performing ANY and EVERY kind of duty pertaining to his occupation:
    From 4-11 19 68 To 6-7 19
15. On what date did you release patient to perform regular duties? Still confined. 19
16. In my opinion, probable further TOTAL disability should not exceed Undetermined. Months

Date June 7 19 68

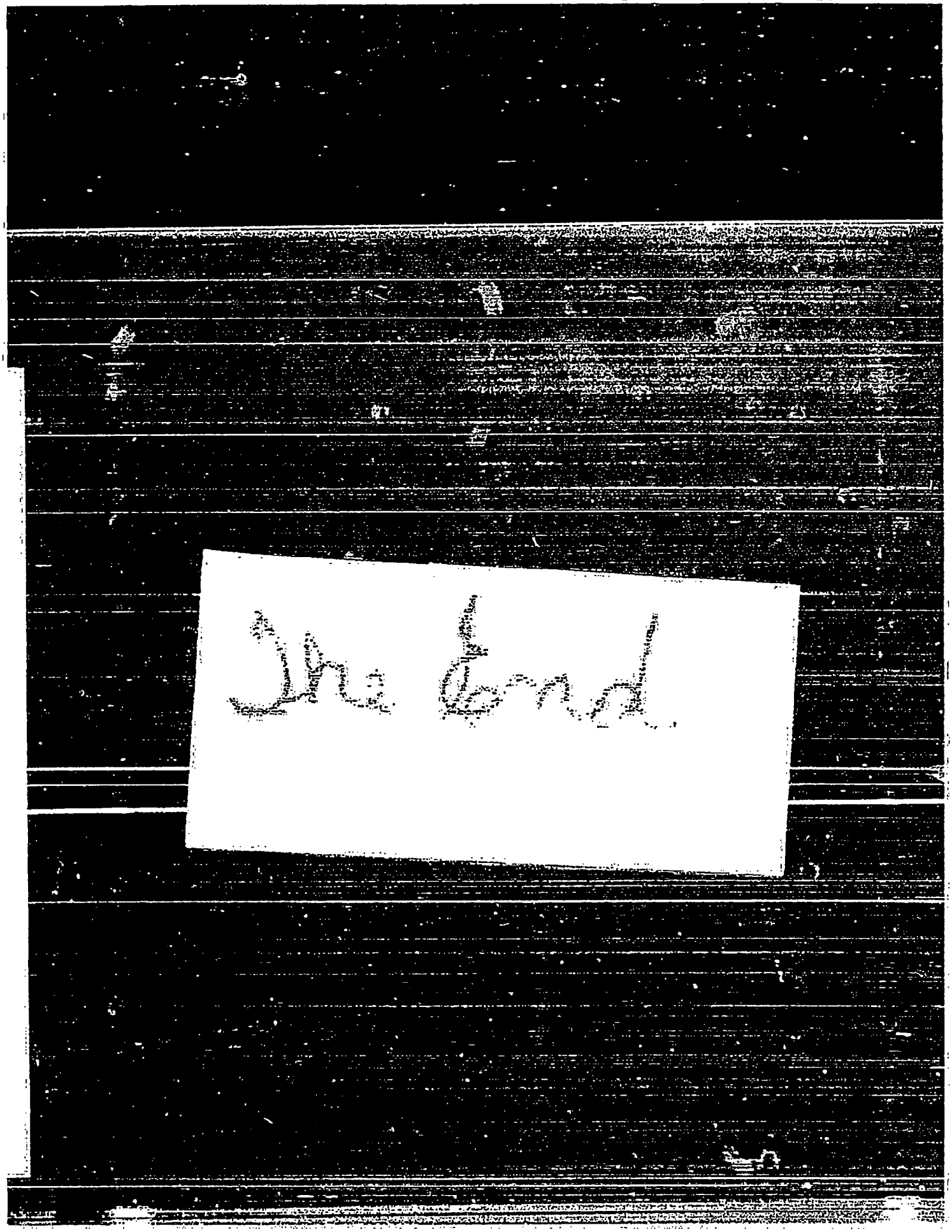
Signed Rosario C. Toscano, Staff Physician

Address South Carolina Sanatorium, State Park, S. C. 29147
(Street and Number) (City and State)

Licensed Physician, State of

BE SURE ALL QUESTIONS HAVE BEEN ANSWERED

DS 1020 Certificate of Attending Physician 10-61


The End

5

AUTHORIZATION FOR RELEASE
OF CONFIDENTIAL INFORMATION AND RECORDS
CONCERNING NEXT OF KIN

I, by this release or a photocopy thereof, authorize ~~and request~~ you to release to my attorneys John H. Blume and Robert Luminack or their designated representative, any and all information and/or records relating to my deceased mother, Maybell Floyd Stone.

This document also authorizes any treating doctors, ~~experts, lawyers, or other~~ persons to discuss otherwise confidential information with the above-mentioned legal representatives. In consideration of such disclosure, I hereby release you (in your individual and/or institutional capacity) from any and all liability arising from the disclosure of otherwise confidential information concerning my mother.

You are specifically authorized above-mentioned legal representatives.

Stone, Maybell – TB Treatment Records - SC Sanatorium

Signed: [signature]
Melinda

Sworn to and subscribed
before me this 11th
day of Feb, 2009

[signature]
NOTARY PUBLIC, STATE OF SOU

My commission expires 6-19-16

SOUTH CAROLINA SANATORIUM

Sumter, S. C.

ADMISSION AND DISCHARGE SHEET

Previous Hospital Nos. _____ Hospital No. 18,846

Full Name Mayfield Stone Address Sumter S.C.

Admission Date 4-11-48 Discharge Date 2-10-49 @ 5 p.m. 9 Days

Age 23 Sex M Color White M. S. W. Classification Sanitarium Religion Methodist

Birthplace Florence S.C. Date of Birth [redacted]

Occupation Harvester Employer Claude Floyd Co. Length Residence in S. C. _____

Date last worked at this occupation _____ Years spent in this occupation _____

Nearest Friend W. T. Floyd (Bro) Address 137 E. Liberty Phone No. 775-R-2

In case of emergency notify _____ Address _____ Phone No. _____

Physician C. A. Heise M.D Address Sumter S.C.

(married) widowed or divorced, husband or wife of Bobby Stone

Father's Name Butler Floyd Birthplace Cross Williamsburg S.C.

Mother's Maiden Name Mary Mims Birthplace Elk City Tallapoosa Ala.

No. of children in the home and their ages (one) 5 months 5 years 7 years

Is Patient a Veteran? No If Yes, What War? _____ Social Security No. 255-72-4221

I promise to follow the instructions in the use of genera while coughing, and the disposal of sputum and agree to abide by the rules, regulations and official requests of the Sanatorium.

Mayfield Stone Patient

J. Colleton Lott Admitting Officer

Height 5'5" In Admission Wt. 123 Discharged Wt. 131 Gain 8 Re Loss _____ lbs.

Diagnosis (Classification) Tuberculosis, Pulmonary, minimal, right

Complications None

Dismissed: Expiration of time _____ With permission _____ Without permission _____ Death _____

Treatment and results Rest and Collapse therapy 3 months. Pneumothorax maintained 100 cc every 3 days for 3 months. Then ... months ... Patient discharged feeling well. Gained 8 lbs. in weight. Has returned to work.

Condition on discharge Clinically cured. Chest X-ray report attached

Reasons for unimprovement _____

Cause of death _____

Autopsy _____ Cause of death, autopsy _____

Date 2/10/49 Signed _____ Attending Physician

Form 1-1-48 (2)

SOUTH CAROLINA SANATORIUM

Sumter, S. C.

ADMISSION AND DISCHARGE SHEET

Previous Hospital No. _____ Hospital No. 18,846

Full Name Mayfield Stone Address Sumter S.C.

Admission Date 4-11-48 Discharge Date 7-16-48 @ 5 p.m. A Day

Age 23 Sex M (W) Race White M. S. W. Citizenship American Religion Methodist

Birthplace Florence (City) (County) S.C. (State) Date of Birth [redacted]

Occupation Horseman Employer Claude Floyd Co. Length Residence in S. C.

Date last worked at this occupation _____ Years spent in this occupation _____

Nearest Friend B. T. Floyd (Bro) Address [redacted] Phone No. 772-M-3

In case of emergency notify _____ Address _____ Phone No. _____

Physician E. A. Heise M.D Address Sumter S.C.

(Married) widowed or divorced, husband or wife of Bobby Stone

Father's Name Beber Floyd Birthplace Cope, Willington S.C.

Mother's Maiden Name Mary Mims Birthplace Effie City, Florence Co.

No. of children in the home and their ages (Bro) 3 months, Lynn, Myers [redacted]

Is Patient a Veteran? Yes If Yes, What War? _____ Social Security No. [redacted]

I promise to follow the instructions in the use of sputum while coughing, and the disposal of sputum and agree to abide by the rules, regulations and official requests of the Sanatorium.

Mayfield Stone Patient

E. A. Heise M.D Admitting Officer

Height 62in. Admission Wt. 123 Discharged Wt. 131 Gain 8 lbs. Loss _____ lbs.

Diagnosis (Classification) Far advanced Ca. Exudative [illegible]

Complications none

Dismissed: Expiration of time _____ With permission _____ Without permission _____ Death _____

Treatment and results Good rest

Chemotherapy 3 months

Recommended that pt. [illegible]

daily x 24 months Pt. [illegible]

[illegible] Gastric tubes for 3 months

May [illegible]

Condition on discharge Incl. Cirrhosis and TB Prognosis guarded

Reasons for unimprovement _____

Cause of death _____

Autopsy _____ Cause of death, autopsy _____

Date 7/16/48 Signed [illegible] Admitting Physician

Form 1-Aug. '46

[redacted]
State Park, S. C.
April 19, 1968

Director
County Health Department
Sumter, South Carolina 29150

Dear Doctor:

The patient named below was admitted to the South Carolina Sanatorium April 11, 1968.

Russell Floyd Stone (WM)
[redacted]

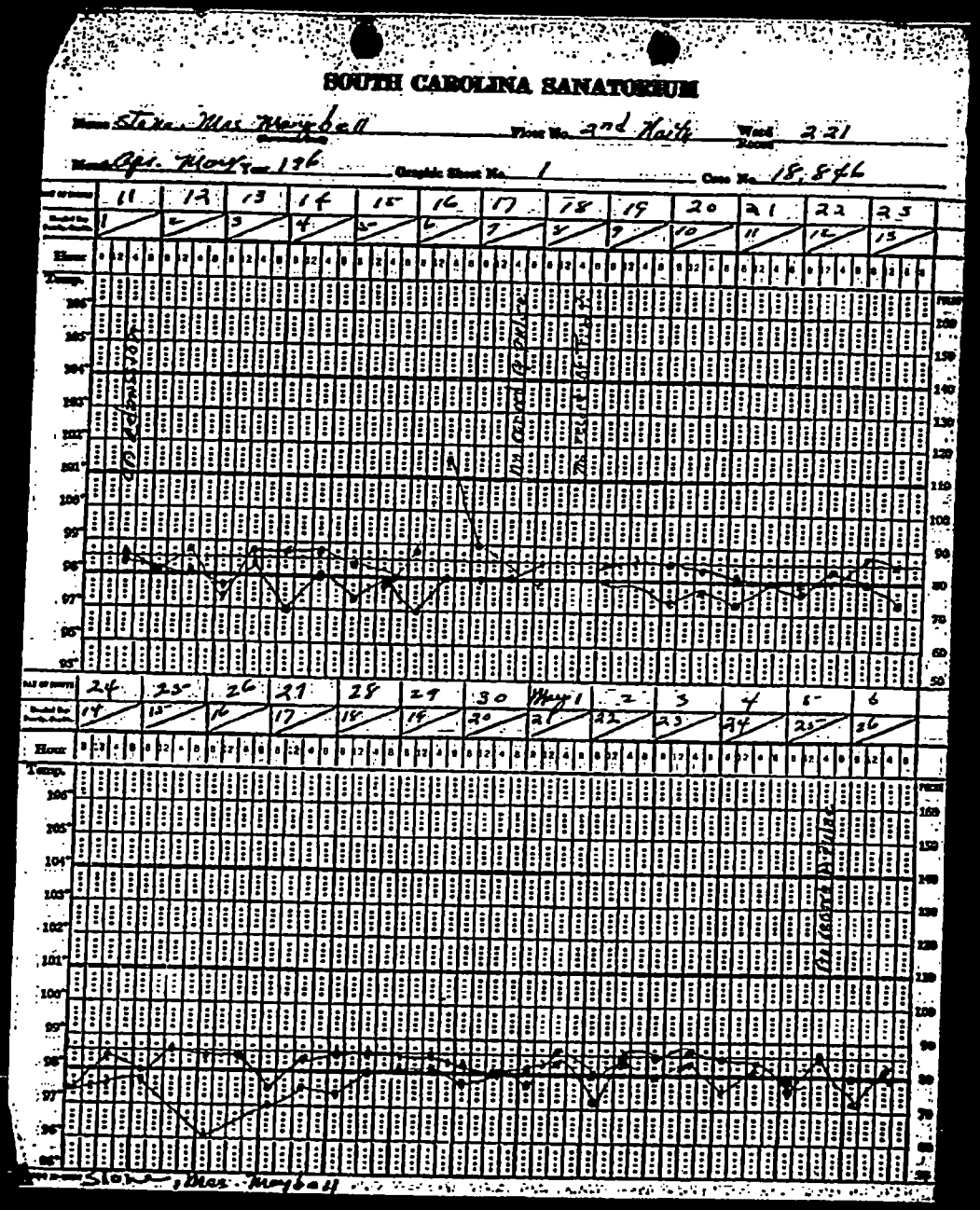
Date of Birth: [redacted]

The application for admission was signed by E. A. Baker, M. D.
Sumter, S. C.

Very truly yours,

fm
enc Central Register

(Miss) Marie Mobley
Registrar



SOUTH CAROLINA SANATORIUM

Name Stein, Mrs Maybell Floor No. 2nd North Ward 221

Age Occ. Mont Tem 136 Graphic Sheet No. 1 Case No. 15,846

11 12 13 14 15 16 17 18 19 20 21 22 23

24 25 26 27 28 29 30 May 1 2 3 4 5 6

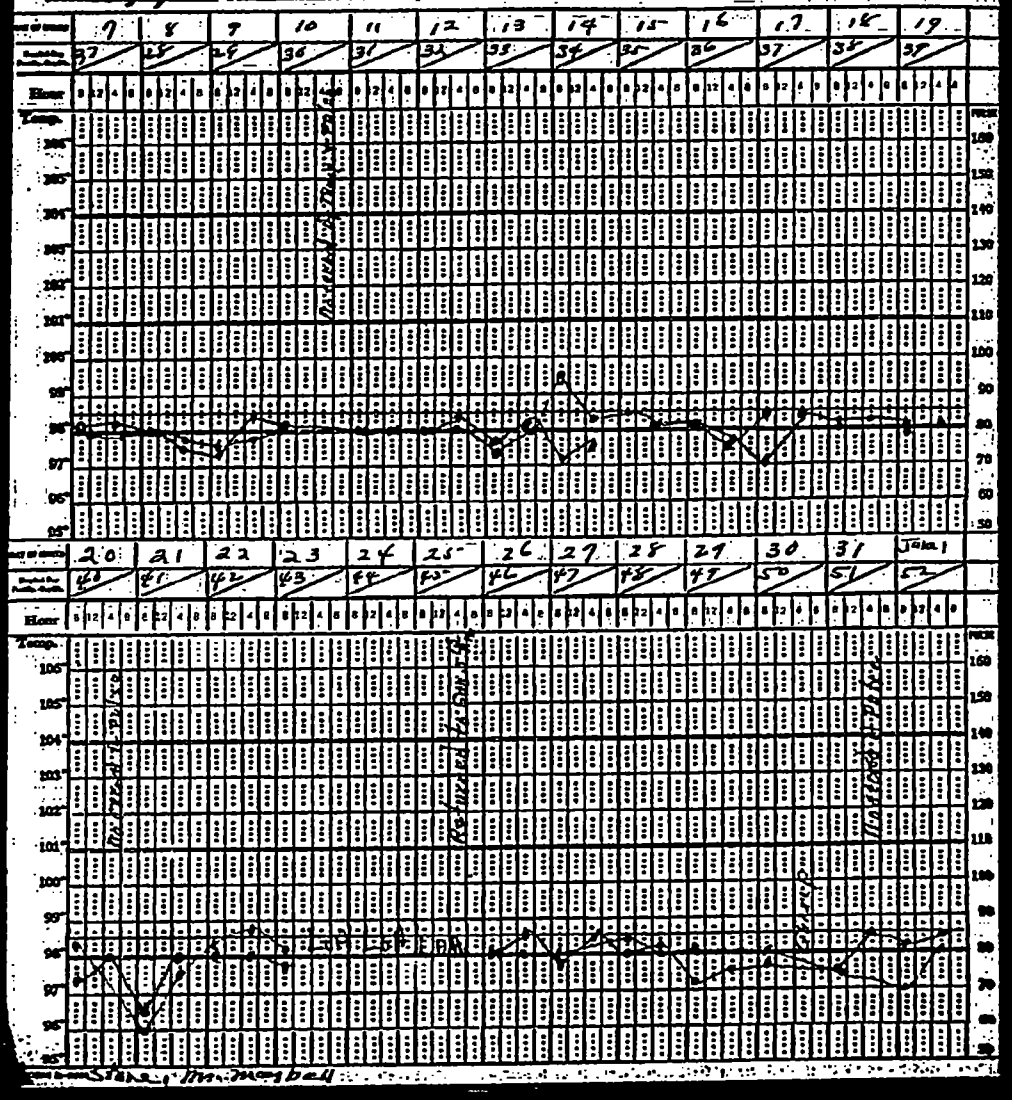
Temp.

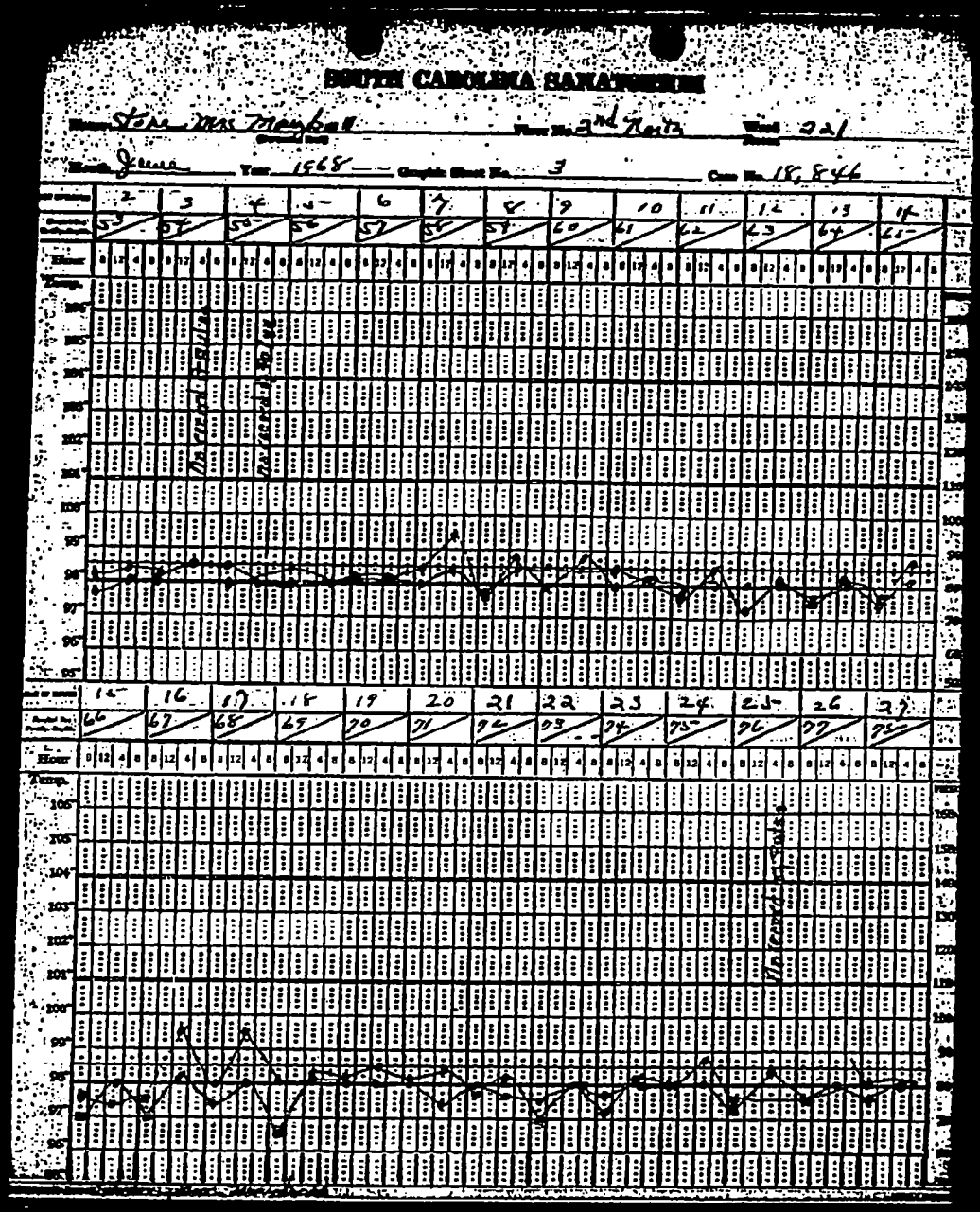
Stein, Mrs Maybell

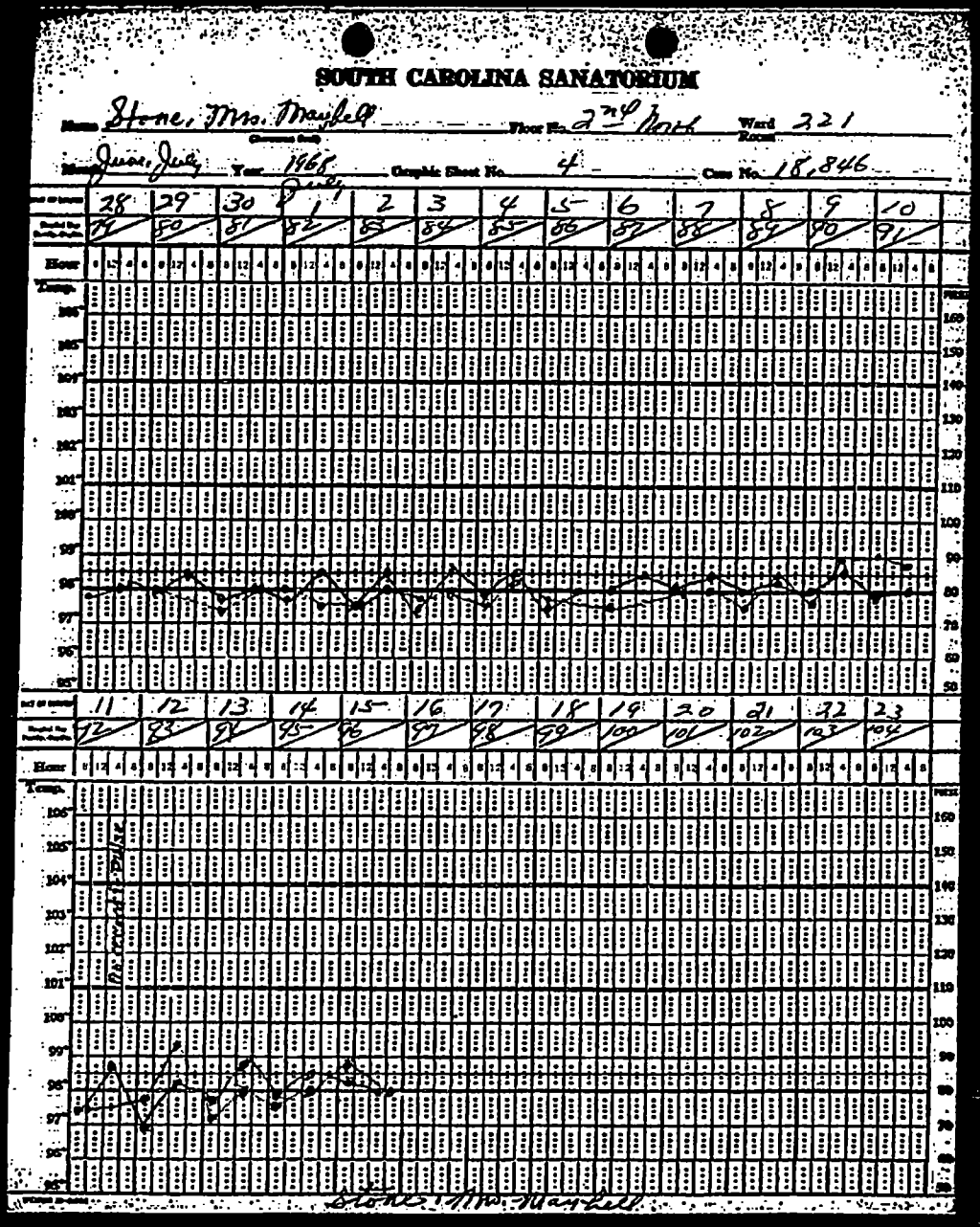
SOUTH CAROLINA SANATORIUM

Name Stone, Mrs. Maybell Floor No. 2nd North Ward Room 221

Month May June Year 1968 Graphic Sheet No. 2 Case No. 18,846




SOUTH CAROLINA SANATORIUM
June
1968
3
18,846
Normal Temperature
Normal Pulse Rate
Normal Respiration Rate



SOUTH CAROLINA SANATORIUM

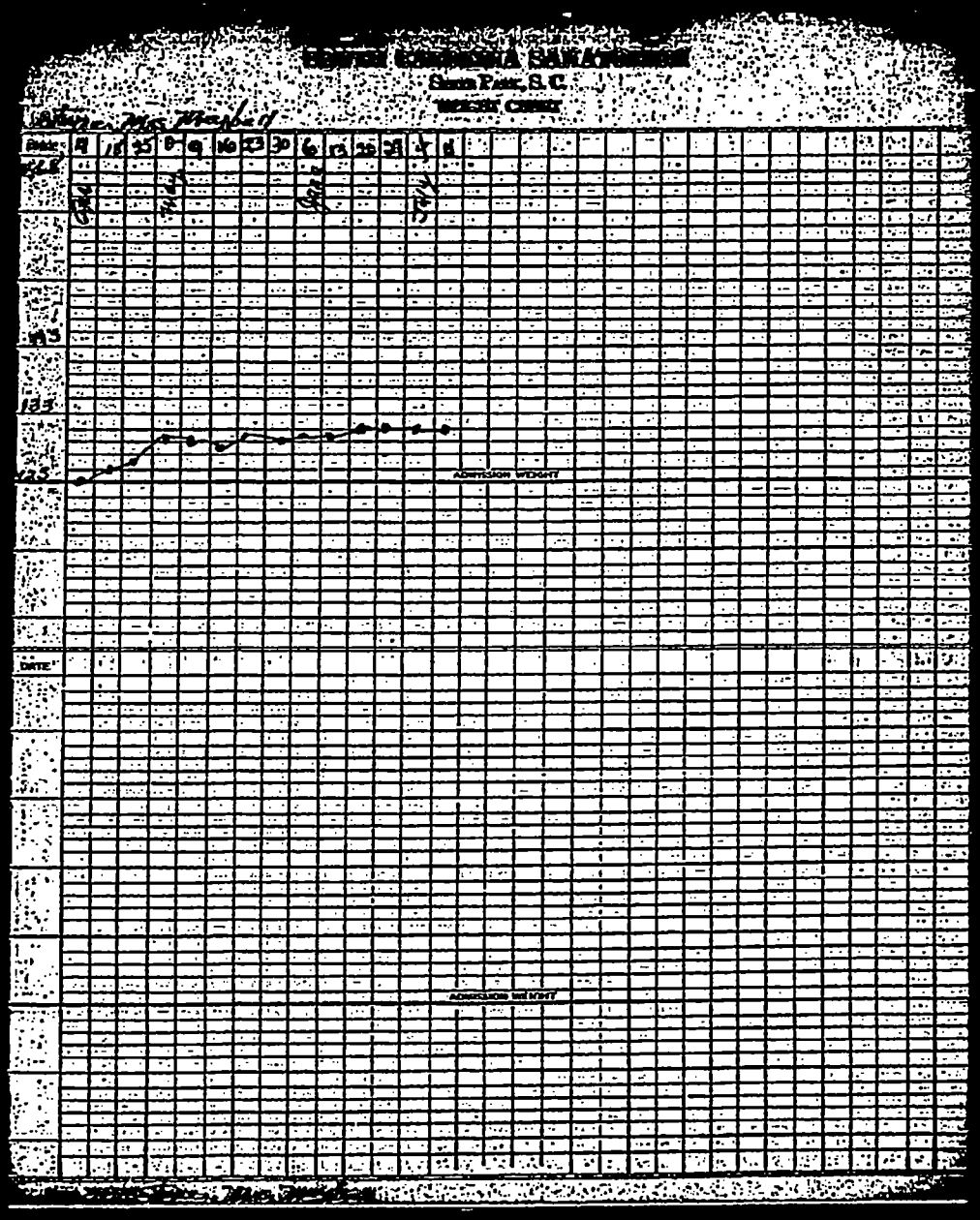
Name Stone, Mrs. Mayfield Floor No. 2nd Floor Ward Room 321

Month June, July Year 1968 Graphic Sheet No. 4 Case No. 18,846

	28	29	30	1	2	3	4	5	6	7	8	9	10
Pulse	79	80	81	82	83	84	85	86	87	88	89	90	91

	11	12	13	14	15	16	17	18	19	20	21	22	23
Pulse	92	93	94	95	96	97	98	99	100	101	102	103	104

Stone, Mrs. Mayfield


Sumter, S.C.
WEIGHT CHART
DATE
ADMISSION WEIGHT

SOUTH CAROLINA SANATORIUM

Stone, Maybelle

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
4-11-68	3:05	Pt. admitted to		8-1	INH 100 mg. RH
		Hosp. fr. Dr. Tosca		6pm	PAS 5gm IV
		Clinic		6pm	Drink 10 mg (BA)
		Condition fairly	4-20-68	8-1	PAS 5gm IV CA
		good		8-1	INH 100 mg. CA
		Dr. Tosca notified		10am	Hilum L (Ant. Hilum)
		Temp 98.4 Pulse 86			Mass) Visited for on
		Resp 22			Chem & Pneumo RH
	6:30	Except sinuses		6pm	PAS 5gm IV
		clear good		6pm	Drink 10 mg (BA)
		J. Calhoun	4-21-68	8-1	PAS 5gm IV RH
4-12-68	6:15 am	Cepacol for headache		8-1	INH 100 mg. RH
		good A Good Night (BH		6pm	PAS 5gm IV
4-12-68	8:20 am	To Dale X-Ray (BA)		6pm	Drink 10 mg (BA)
	7-11	No Complaints (BH	4-22-68	8-1	PAS 5gm IV (BA)
	8am	Placed in Isolation RH		8-1	INH 100 mg PO
4-14-68	6:30 am	Aspirin gr X headache		6pm	PAS 5gm IV
4-16-68	6pm	PAS 5gm IV (21 mgs)		6pm	Drink 10 mg (BA)
	9:00 am	Drink 10 mg (BA)		9:00 pm	Skin test is some what
4-17-68	6:15 am	Aspirin gr X headache (2 mgs)			Reacted. Dosage was 0.1cc
4-17-68	8-1	PAS 5gm IV RH			is Taking of Isolation
	8-1	INH 100 mg. RH			Program
	6pm	PAS 5gm IV	4-23-68	8-1	PAS 5gm IV RH
	6pm	Drink 10 mg (BA)		8-1	INH 100 mg. RH
4-18-68	8-1	PAS 5gm IV CA		6pm	PAS 5gm IV CA
	8-1	INH 100 mg CA		6pm	INH 100 mg. CA
	6pm	PAS 5gm IV	4-24-68	8-1	PAS 5gm IV RH
	6pm	Drink 10 mg (BA)		8-1	INH 100 mg. RH
4-19-68	8-1	PAS 5gm IV RH			Antrum - Bottom 1/3 RH

SOUTH CAROLINA SANATORIUM

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
4-24-68	6pm	PAS-Gm IV CA	4-30-68	8-1	PAS Gm IV RH.
	6pm	INH 100 mg CA		8-1	INH 100 mg RH.
4-25-68	8-1	PAS- Gm IV PO		6pm	PAS Gm IV NPH
	8-1	INH- 100 mg (CS)		6pm	INH 100 mg NPH
	6PM	PAS Gm IV	5-1-68	8-1	PAS Gm IV RH.
	6pm	INH 100 mg BA)		8-1	INH 100 mg. RH.
4-26-68	8-1	PAS- Gm IV PO		6pm	PAS Gm IV NPH
	8-1	INH 100mg (CS)		6pm	INH 100 mg NPH
	6 PM	PAS Gm IV	5-2-68	8-1	PAS Gm IV RH.
	6pm	INH 100 mg (BA)		8-1	INH 100 mg. RH.
4-27-68	8-1	PAS- Gm IV PO		6PM	PAS Gm IV
	8-1	INH 100mg PO		6pm	INH 100 mg BA)
	6 PM	PAS. Gm IV	5-3-68	8-1	PAS Gm IV RH.
	6 PM	INH-100 mg (BA)		8-1	INH 100 mg. RH.
4-28-68	8-1	PAS- Gm IV PO		6PM	PAS Gm IV
	8-1	INH 100mg (CS)		6pm	INH 100 mg BA)
	6PM	PAS Gm IV		9 PM	[illegible] for
	6pm	INH 100 mg (BA)			Pain in leg BA)
	8:30 PM	Has Pt. pain de-	5-4-68	8-1	PAS Gm IV RH.
	"	Room to ring Call		8-1	INH 100 mg. RH.
		at night as [illegible]		6PM	PAS Gm IV
		Pt in room & has		6PM	INH. 100 mg BA)
		Keeps her upset (BA)		10 PM	Nurse Comp for
4-29-68	8-1	PAS- Gm IV PO			Head Pain in leg (BA)
	8-1	INH- 100 mg (CS)	5-5-68	8-1	PAS Gm IV RH.
	3:30 PM	Pt. turned [illegible]		8-1	INH 100 mg. RH.
		Turned (BA)		12:50 PM	G.I.C. for IV for
	6PM	PAS. Gm IV			headaches BA.
	6PM	INH. 100 mg (BA)		6PM	PAS Gm IV BA)

Name Stone, Mrs. Maybelle Sheet No. 2

SOUTH CAROLINA SANATORIUM

Date	Hour	Drugs and Remarks
5-5-68	6 pm	INH 100 mg (PAS)
5-6-68	11:35 am	Complaining of legs aching -
		Aspirin gr X requested. Says
		Aspirin does not help. Gone R.H.
5-6-68	8-1	PAS 4gm IV R.H.
	8-1	INH 100 mg. R.H.
	11 pm	Librium 10 mg. R.H.
		Complains of pain in legs
	6 am	PAS Gm IV HKH
	6 am	INH 100 mg HKH
	6 pm	Librium 10 mg HKH
	9 am	Darvon Compound : HKH
		Complaining of legs
		hurting. HKH.
5-7-68	8-1	PAS 4gm IV R.H.
	8-1	INH 100 mg. R.H.
	8-1	Librium 10 mg. R.H.
	6 am	PAS 4gm IV
	"	INH 100 mg
	"	Librium 10 mg (PAS)
	9 am	Darvon Comp 1 (PAS)
5-8-68	8-1	PAS 4gm IV R.H.
	8-1	INH 100 mg R.H.
	8-1	Librium 10 mg. R.H.
		Dental Report - Exam.
	6 pm	PAS 4gm IV
	6 pm	INH 100 mg
	6 pm	Librium 10 mg (PAS)
	6 pm	

Date	Hour	Drugs and Remarks
5-9-68	8-1	PAS 4gm IV (PAS)
	8-1	INH 100 mg (PAS)
	8-1	Librium 10 mg (PAS)
	6 pm	PAS 4gm IV
	6 pm	INH 100 mg C.A.
	6 pm	Librium 10 mg C.A.
5-10-68	8-1	PAS 4gm IV (PAS)
	8-1	INH 100 mg (PAS)
	8-1	Librium 10 mg (PAS)
	6 am	PAS 4gm IV HKH
	6 am	INH 100 mg HKH
	6 am	Librium 10 mg HKH
5-11-68	8-1	PAS 4gm IV (PAS)
	8-1	INH 100 mg (PAS)
	8-1	Librium 10 mg (PAS)
	6 am	PAS 4gm IV HKH
	6 am	INH 100 mg HKH
	6 am	Librium 10 mg HKH
5-12-68	8-1	PAS 4gm IV (PAS)
	8-1	INH 100 mg (PAS)
	8-1	Librium 10 mg (PAS)
	6 am	PAS 4gm IV HKH
	6 am	INH 100 mg HKH
	6 am	Librium 10 mg HKH
5-13-68	8-1	PAS 4gm IV (PAS)
	8-1	INH 100 mg (PAS)
	8-1	Librium 10 mg (PAS)
	6 pm	PAS 4gm IV (PAS)
	6 pm	INH 100 mg (PAS)

Name Stone, Jim Marvin

Sheet No. 3

SOUTH CAROLINA SANATORIUM

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
5-13-68 (cont.)	6 PM	Librium 10 mg (BA)	5-16-68	8-1	PAS IV 8 am
	9 PM	Darvon Comp for leg Pain			INH 100 mg. SIC
5-14-68	8-1	PAS 8 am IV R.H.		6 PM	Librium 10 mg
	8-1	INH 100 mg. R.H.		6 PM	PAS. 8 am IV
	8-1	Librium 10 mg. R.H.		10 PM	INH 100 mg (BA)
	6 PM	PAS. 8 am IV	5-17-68	8-1	Librium 10 mg.
	6 PM	INH. 100 mg			PAS IV 8 am
	6 PM	Librium 10 mg (BA)			INH 100 mg. SIC
5-15-68	8-1	PAS. 8 am IV (SA)		6 PM	PAS 8 am IV
	8-1	INH 100 mg (SA)		6 PM	INH 100 mg (BA)
	8-1	Librium 10 mg (SA)	5-18-68	8-1	PAS. 8 am IV (SA)
	9 AM	To dental office (SA)		8-1	INH 100 mg (SA)
		dental report X-rayed		8-1	Librium 10 mg (SA)
	6 PM	INH 100 mg		6 PM	PAS. 8 am IV
	6 PM	PAS. 8 am IV		6 PM	INH 100 mg (BA)
	6 PM	Librium 10 mg (BA)		6 PM	Librium 10 mg (BA)
5-16-68	8-1	PAS 8 am IV R.H.	5-19-68	8-1	PAS. 8 am IV (SA)
	8-1	INH 100 mg. R.H.		8-1	INH 100 mg (SA)
	8-1	Librium 10 mg. R.H.		8-1	Librium 10 mg (SA)
	6 PM	PAS. 8 am IV		6 PM	PAS. 8 am IV
	6 PM	INH 100 mg		6 PM	INH 100 mg
	6 PM	Librium 10 mg (BA)		6 PM	Librium 10 mg (BA)
5-17-68	8-1	PAS 8 am IV OS	5-20-68	8-1	PAS. 8 am IV (SA)
	8-1	INH 100 mg OS		8-1	INH 100 mg (SA)
	8-1	Librium 10 mg OS		8-1	Librium 10 mg (SA)
	6 PM	PAS 8 am IV		6 PM	PAS 8 am IV SIC
	"	INH 100 mg		6 PM	INH 100 mg SIC
	"	Librium 10 mg (BA)		6 PM	Librium 10 mg SIC

Name Stone, Miss Douglas — Sheet No. 4

SOUTH CAROLINA SANATORIUM

Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
5-23-68	8-1	PAS- Gms IV (ES)	5-29-68	8-1	PAS IV Gms.
	8-1	INH- 100mg (ES)			INH 100 mg.
	8-1	Librium 10mg (ES)			PAS IV Gms.
	12 Noon	Home on 3 day pass (ES)			Librium 10 mg.
	6 PM	PAS Gm IV			Etc
		INH 100 mg PO		12 Noon	APA Tab. II CA
5-25-68	3:15 PM	Returned to Duty (BAS)		4 PM	Pass Taken Overnight
	6 PM	PAS Gm IV			Custody to Jail -
	6 PM	INH 100 mg			Guard in Room to
	6 PM	Librium 10mg BAS			Prevent BAS
5-26-68	8-1	PAS- Gms IV (ES)		6 PM	PAS Gm IV
	8-1	INH- 100mg (ES)			INH 100mg BAS
	8-1	Librium 10mg (ES)		9 PM	Valium Given for pain
	6 PM	PAS Gm IV			in face. BAS
	6 PM	INH 100mg	5-30-68	8-1	PAS Gm IV CA
	6 PM	Librium 10mg BAS		8-1	INH 100 mg. CA
5-27-68	8-1	PAS- Gms IV (ES)		8-1	Librium 10 mg CA
	8-1	INH- 100mg (ES)		6 PM	PAS Gm IV (BC
	8-1	Librium 10 mg (ES)		6 PM	INH 100 mg (BC
	6 PM	PAS Gm IV	5-31-68	8-1	PAS Gm IV (DR)
	6 PM	INH 100 mg		8-1	Librium 10 mg (DR)
	6 PM	Librium 10mg (BAS		8-1	INH 100 mg (DR)
5-28-68	8-1	PAS- Gms IV (ES)		10 AM	PAS Gm IV CA
	8-1	INH 100 mg (ES)		6 PM	INH 100 mg CA
	8-1	Librium 10mg (ES)		6 PM	Librium 10 mg. CA
	6 PM	Librium 10mg	6-1-68	8-1	PAS Gm IV CA
	6 PM	PAS Gm IV		8-1	INH 100 mg CA
	6 PM	INH 100 mg (BAS		8-1	Librium 10 mg CA
Form 6-Gen-52		Name Jones, Doris Gladys			Sheet No. 5

SOUTH CAROLINA SANATORIUM

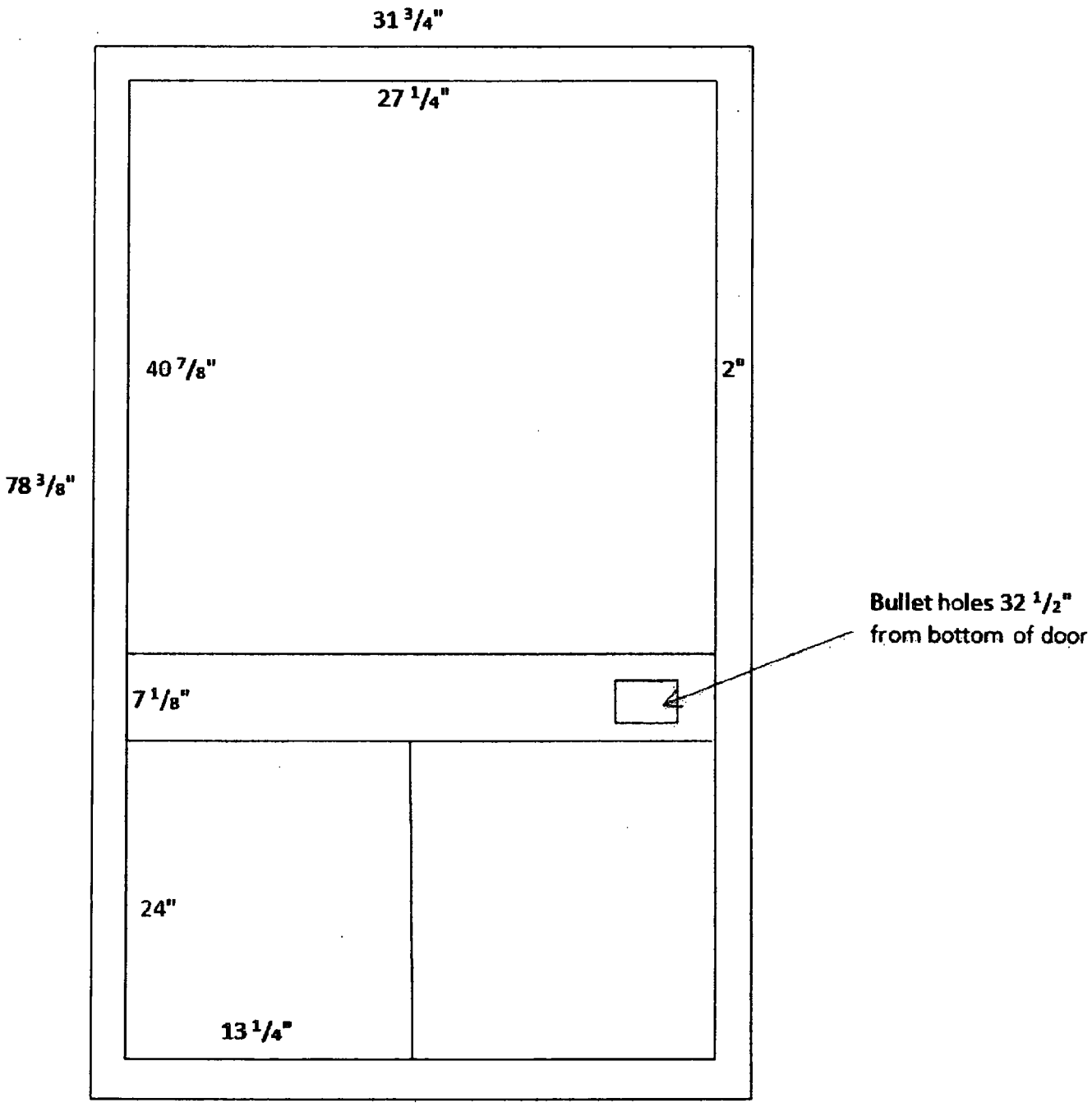
Date	Hour	Drugs and Remarks	Date	Hour	Drugs and Remarks
6-1-68	6 pm	PAS Gm IV	6-1-68	8-1	PAS- Gm IV (S)
	6	INH 100 mg		8-1	INH- 100mgs (S)
	6	Librium 10mg (CA)		8-1	Librium 10 mgs (S)
6-2-68	8-1	PAS Gm IV CA	6-6-68	6 pm	PAS Gm IV
	8-1	INH 100 mg CA		6	INH 100 mg
	8-1	Librium 10mg CA		6	Librium 10 mg (FC)
	6 pm	PAS Gm IV	6-7-68	8-1	PAS- Gm IV (S)
	6	INH 100 mg		8-1	INH- 100mg (S)
	6	Librium 10mg (BA)		8-1	Librium 10mgs (S)
6-3-68	8-1	PAS- Gm IV (S)		6 pm	PAS Gm IV HEK
	8-1	INH- 100mgs (S)		6	INH 100mg HEK
	8-1	Librium 10mgs (S)		6	Librium 10mg HEK
	6 pm	PAS Gm IV	6-8-68	8-1	PAS- Gm IV (S)
	6	INH 100 mg (BA)		8-1	INH- 100mgs (S)
	6	Librium 10mg (BA)		8-1	Librium 10mgs (S)
6-4-68	8-1	PAS- Gm IV (S)		6 pm	PAS Gm IV HEK
	8-1	INH- 100mgs (S)		6	INH 100mg HEK
	8-1	Librium 10 mgs (S)		6	Librium 10mg HEK
	6 pm	PAS Gm IV	6-9-68	8-1	PAS- Gm IV (S)
	6	INH 100 mg		8-1	INH- 100mgs (S)
	6	Librium 10mg (BA)		8-1	Librium 10mgs (S)
6-5-68	8-1	PAS- Gm IV (S)		6 pm	PAS Gm IV HEK
	8-1	INH- 100 mgs (S)		6	INH 100mg HEK
	8-1	Librium 10 mgs (S)		6	Librium 10mg HEK
	9 pm	To dental office	6-10-68	8-1	Librium 10 mgs - Stop
		Checked (S)			PAS Tuesday Stop
	6 pm	PAS Gm IV			INH 100 mgs Stop
	6	INH 100 mg (BA)		11 am	DPCNA w/ fillings CA
	6	Librium 10mg (BA)		6 pm	Rx Vac Hour

Form 4—3261—11-67 Name [illegible] Sheet No. 6

SOUTH CAROLINA SANATORIUM

Date	Hour	Drugs and Remarks		Date	Hour	Drugs and Remarks	
6-10-68	6 PM	Sodium mgs Stk			6 PM	Librium 10 mgs Stk	
6-11-68	8-1	PAS Gms IV	R.H.	6-16-68	8-1	PAS- Gms IV (QS)	
	8-1	INH 100 mg.	R.H.		8-1	INH - 100 mgs (QS)	
	8-1	Librium 10 mg	R.H.		8-1	Librium 10 mgs (QS)	
	6 PM	Sodium mgs Stk.			6 PM	Na Pas Gms IV Stk	
	6 PM	Na PAS Gms IV Stk.			6 PM	Sodium 100 mgs Stk	
	6 PM	Librium 10 mgs Stk.			6 PM	Librium 10 mgs Stk	
6-12-68	8-1	PAS Gms IV	R.H.	6-17-68	8-1	PAS- Gms IV QS	
	8-1	INH 100 mg.	R.H.		8-1	INH- 100 mgs QS	
	8-1	Librium 10 mg	R.H.		8-1	Librium 10 mgs QS	
	6 00	PAS Gms IV I&H			6 00	PAS Gms IV I&H	
	6 00	INH 100 mg I&H			6 00	INH 100 mg I&H	
	6 00	Librium 10 mg I&H			6 00	Librium 10 mg I&H	
6-13-68	8-1	PAS Gms IV	R.H.	6-18-68	8-1	PAS Gms IV	R.H.
	8-1	INH 100 mg.	R.H.		8-1	INH 100 mg.	R.H.
	8-1	Librium 10 mg.	R.H.		8-1	Librium 10 mg.	R.H.
	6 00	PAS Gms IV I&H			6 00	PAS Gms IV I&H	
	6 00	INH 100 mg I&H			6 00	INH 100 mg I&H	
	6 00	Librium 10 mg I&H			6 00	Librium 10 mg I&H	
6-14-68	8-1	PAS Gms IV	R.H.	6-19-68	8-1	PAS Gms IV	C.A.
	8-1	INH 100 mg.	R.H.		8-1	INH 100 mg	C.A.
	8-1	Librium 10 mg	R.H.		8-1	Librium 10 mg	C.A.
	6 PM	Na Pas Gms IV	Stk		6 00	PAS Gms IV I&H	
	6 PM	Sodium 100 mgs	Stk		6 00	INH 100 mg I&H	
6-15-68	8-1	PAS- Gms IV (QS)			6 00	Librium 10 mg I&H	
	8-1	INH - 100 mgs (QS)		6-19-68	11 P.M.	Ri-pan 2 for headache (10 MG)	
	8-1	Librium 10 mgs (CS)		6-20-68	8 AM.	Pacas Tic-Bex 600	R.H.
	6 PM	Na Pas Gms IV	Stk		8-1	Librium 10 mg.	R.H.
	6 PM	Sodium 100 mgs	Stk		5 00	Way Pace Church privilege	
Name		Wine Mas			Check No.		

Ruth Griffith's Screen Door



HAROLD C. MORGAN, M.D.
CONSULTANT IN GENERAL AND FORENSIC PSYCHIATRY

[illegible] BLANDING STREET, SUITE B-A
COLUMBIA, SOUTH CAROLINA 29201

TELEPHONE
(803) 256-0500

DATE: 1-25-97

FAX NUMBER 803-772-6727

TO: James H. Babb

RE: Stone

FROM: HAROLD C. MORGAN, M.D.

SENDER NO. 803-771-7679

NUMBER OF PAGES TO FOLLOW: 2

If you do not receive any of these pages please contact sender at 803-256-0500.

HAROLD C. MORGAN, M.D.
CONSULTANT IN GENERAL AND FORENSIC PSYCHIATRY

1118 BLANDING STREET, SUITE B-A
COLUMBIA, SOUTH CAROLINA 29201

TELEPHONE
(803) 256-0600

FAX 803-775-6727

Draft

January 25, 1997

James H. Babb, Esq.
P.O. Box 8098
Sumter, South Carolina 29150

Re: Bobby Wayne Stone.

Dear Mr. Babb:

In regard to the question of adaptability to prison, the best predictor of that is the defendant's behavior in prison in the past. I have not seen those records but if Mr. Stone was able to adapt adequately in the past he is likely to adapt even better now because he is older and not as likely to have the energy to act out as much as when younger.

Mr. Stone denied that he had any problems in prison and denied any prior history of violent behavior. If that information is accurate that predicts a better adjustment to prison. On the other hand, psychological testing here reveals an antisocial personality structure and suggests that he has problems with authority figures. To the extent that he is rebellious and seeks immediate gratification of his urges he is likely to have problems with incarceration. He falls into a group that is neither model prisoner nor trouble maker. In short, I expect that he could adapt about as well as the average inmate.

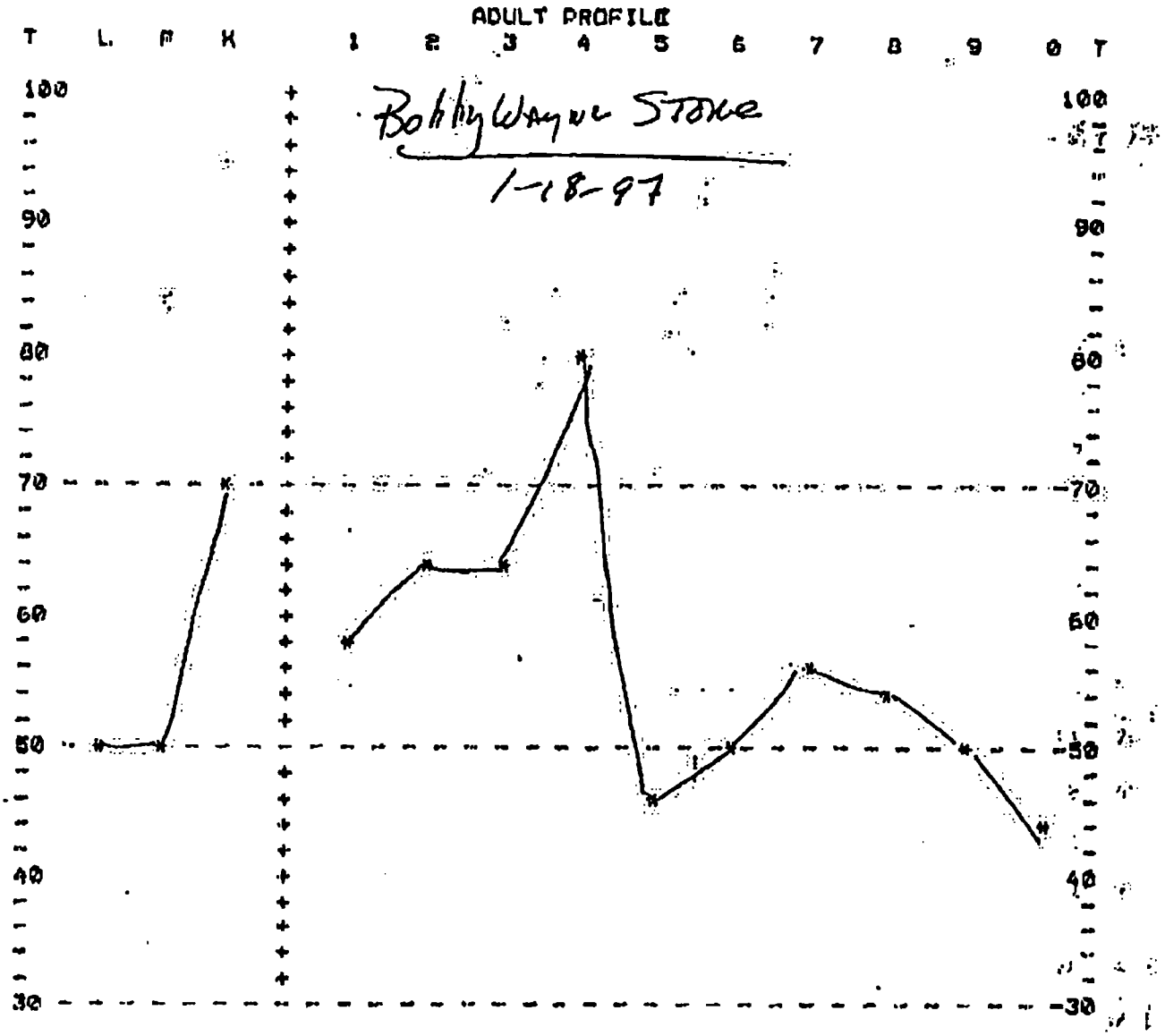
I hope that this information will be helpful; if you have any questions please contact me.

Yours very truly,

Harold C. Morgan, M.D.
Diplomate, American Board of Psychiatry and Neurology
Diplomate, American Board of Forensic Psychiatry
Clinical Professor of Psychiatry
University of South Carolina School of Medicine

HCM/jg

PS: For your information a copy of the computer generated report of the psychological testing with the Minnesota Multiphasic Personality Inventory (MMPI) is enclosed.



/#				1	2	3	4	5	6	7	8	9	0
SCL	L	F	K	HS	D	HY	PD	MF	PA	PT	SC	MA	SI
RAW	4	3	23	14	22	24	32	19	8	26	24	17	20
T&C	50	50	69	57	63	54	81	47	50	56	54	50	45

RANKING		SCALE	4	3	2	1	7	8	6	9	5	0
	T	SCORE	81	64	63	57	56	54	50	50	47	45

This person answered 557 items and the validity configuration indicates a valid profile in subject who tends to present self in positive light. May reflect good ego or resistance. Configural analysis of the patient's responses and studies of people with similar response patterns suggests that these individuals are angry, rebellious and unconventional. Impulsiveness, poor social judgement, & limited frustration tolerance are characteristics. They are typically extroverted and energetic, but often lack definite goals and have superficial relationships with other people. Marital difficulties, a poor work history, substance abuse, and sexual acting-out are common problems. Common diagnoses : conduct disorder. These individuals lack insight and generally disregard the consequences of their behavior. Their behavior patterns are resistant to change and they generally do not profit from experience (including psychotherapy). The

JAMES H. BABB
ATTORNEY AT LAW

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SUMTER, SC 29150-1002

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RESIDENCE: (803) 481-0183
EMERGENCY: (803) 436-5719

Dr. Harold C. Morgan, M.D.
Psychiatric Consultants, P.A.
1116 Blanding Street, Suite 2-A
Columbia, South Carolina 29201

January 17, 1997

RE: State -vs- Bobby Wayne Stone

Dear Dr. Morgan:

This letter is to confirm that you have been retained by me for purposes of evaluating Defendant Bobby Wayne Stone who stands accused of Murder, 1st Degree Burglary, and Possession of a Weapon During the Commission of a Violent Crime. This is a capital case.

Your willingness to evaluate Mr. Stone upon my verbal assurances and prior to receipt of a certified true copy of an Order authorizing the payment for your services is greatly appreciated. In that regard, I did obtain verbal authorization for the evaluation from the Judge's Office, which was given after my advising that your fee for the evaluation itself would probably be $1,500.00 to $2,000.00 depending upon the time required and that normally your testimony brings the total bill to $3,500.00 to $4,000.00 depending of course upon how much court time is involved.

As we discussed, my office is in Sumter. Judge Dennis is in Beaufort this week. We will begin selecting a jury in Georgetown on Monday; and, once selected the trial itself will be in Sumter. Obviously this creates certain logistical difficulties insofar as obtaining signatures and filing documents with appropriate clerk of court are concerned. I will however, attempt to present a written Order to the Judge and get a copy to you just as soon as possible. With the highest of personal and professional regards,

Sincerely,

James H. Babb

JHB/jb

Turkey Creek Site

Expanded Site Inspection

Sumter County

SC0 002 408 367

Prepared by: Robert Cole
Reviewed by: Jonathan McInnis
Site Assessment Section
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Date: June 28, 2003

TABLE OF CONTENTS

I. SCOPE OF WORK 1

II. INTRODUCTION/EXECUTIVE SUMMARY 1

III. SITE DESCRIPTION, HISTORY AND WASTE CHARACTERISTICS 2

A. Ownership History 2
B. Site Description 2
C. Operational History and Waste Characteristics 4

IV. GROUNDWATER PATHWAY 9

V. SURFACE WATER 9

A. Regional Characteristics 9
B. Surface Water Targets 10
C. Analytical Results 10

VI. SOIL EXPOSURE & AIR PATHWAYS 11

VII. SUMMARY AND CONCLUSIONS 11

VIII. REFERENCES 12

I. SCOPE OF WORK

Under authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Site Assessment Section of the South Carolina Department of Health and Environmental Control (SCDHEC) conducted an Expanded Site Assessment (ESI) at the Turkey Creek site in Sumter County, South Carolina. The purpose of this investigation was to assess the potential threat posed to human health and the environment and to determine the need for additional CERCLA/SARA or other appropriate action. The scope of the investigation included a review of available file information, and a site reconnaissance/sampling trip. As part of this investigation, more than 60 samples were screened for metals using x-ray fluorescence and for mercury. Additional samples were submitted for laboratory analysis. Eighteen soil/sediment samples were collected from sediments of Turkey Creek and its floodplain, or from dredging spoils deposited along the banks of the creek. Five water samples of Turkey Creek were also collected.

II. INTRODUCTION/EXECUTIVE SUMMARY

The Turkey Creek site is located in the city of Sumter, South Carolina, near the eastern edge of the town. The site consists of contaminated sediment in Turkey Creek and its floodplain. The source of the contamination is not known, but several industries located in Sumter discharged wastewater to Turkey Creek for many years. A property owner along Turkey Creek filed a lawsuit in the early 1970's charging Santee Print Works, Georgia Pacific, Southern Coatings & Chemical Company, and Cover Manufacturing for the pollution of his property. Discharged waste was present in creek water that overflowed onto the property. The court ruled in the plaintiffs favor. The South Carolina Pollution Control Authority also ordered numerous industries to improve their discharges to the creek, including Santee Print Works (1967), Fulton Chemical (1970), Williams Furniture (1970), Southern Coatings (1970), and Cover Manufacturing (1970).

The SCDHEC, and the US Army Corps of Engineers (USACE) have performed sediment sampling of the waterways near Sumter, including Turkey Creek. Sampling occurred during the 1980's and 1990's. Analysis of the data revealed elevated concentrations of inorganic contaminants in sediment samples.

Sampling for this investigation included more than 60 samples, which were screened for metals using x-ray fluorescence and for mercury. An additional eighteen soil/sediment samples and five water samples were collected for laboratory analysis. The soil samples were collected from sediments of Turkey Creek and its floodplain, or from dredging spoils deposited along the banks of the creek. The five water samples were collected from Turkey Creek.

Review of the data found every metal analyzed for was detected at elevated levels in at least one soil/sediment sample, including: aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, cyanide, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc. Numerous PAHs were also

detected at elevated concentrations in samples collected from the creek sediment, spoils, and floodplain. VOC's and pesticides/herbicides were detected in a few samples, although with the exception of one or two samples, the concentrations were relatively low. Only one slightly elevated parameter was detected in one of the five water samples.

The groundwater pathway has not been evaluated. The site is located along Turkey Creek and its floodplain and few groundwater targets are located in close proximity to the creek. Direct contact with the waste, although unlikely, is possible due to elevated concentrations detected in the spoil piles along the creek bank. Turkey Creek is a fishery and discharges into the Pocataligo Swamp, which is also a fishery.

Due to the elevated concentrations of metals, PAHs, VOCs and pesticide/herbicides that were found in the Turkey Creek sediment, floodplain, and spoils, the site is given a high priority for additional federal Superfund activity.

III. SITE DESCRIPTION, HISTORY AND WASTE CHARACTERISTICS

A. Ownership History

The site is comprised of contaminated sediment, spoils, and the floodplain of Turkey Creek. The only ownership information obtained was for the lower portion of the creeks floodplain (those areas south of the US Highway 521. Part of this property was in the process of being sold at the time of this investigation, but the primary owner was:

Ruby McGowan
803-481-8122 (Ref. 5)

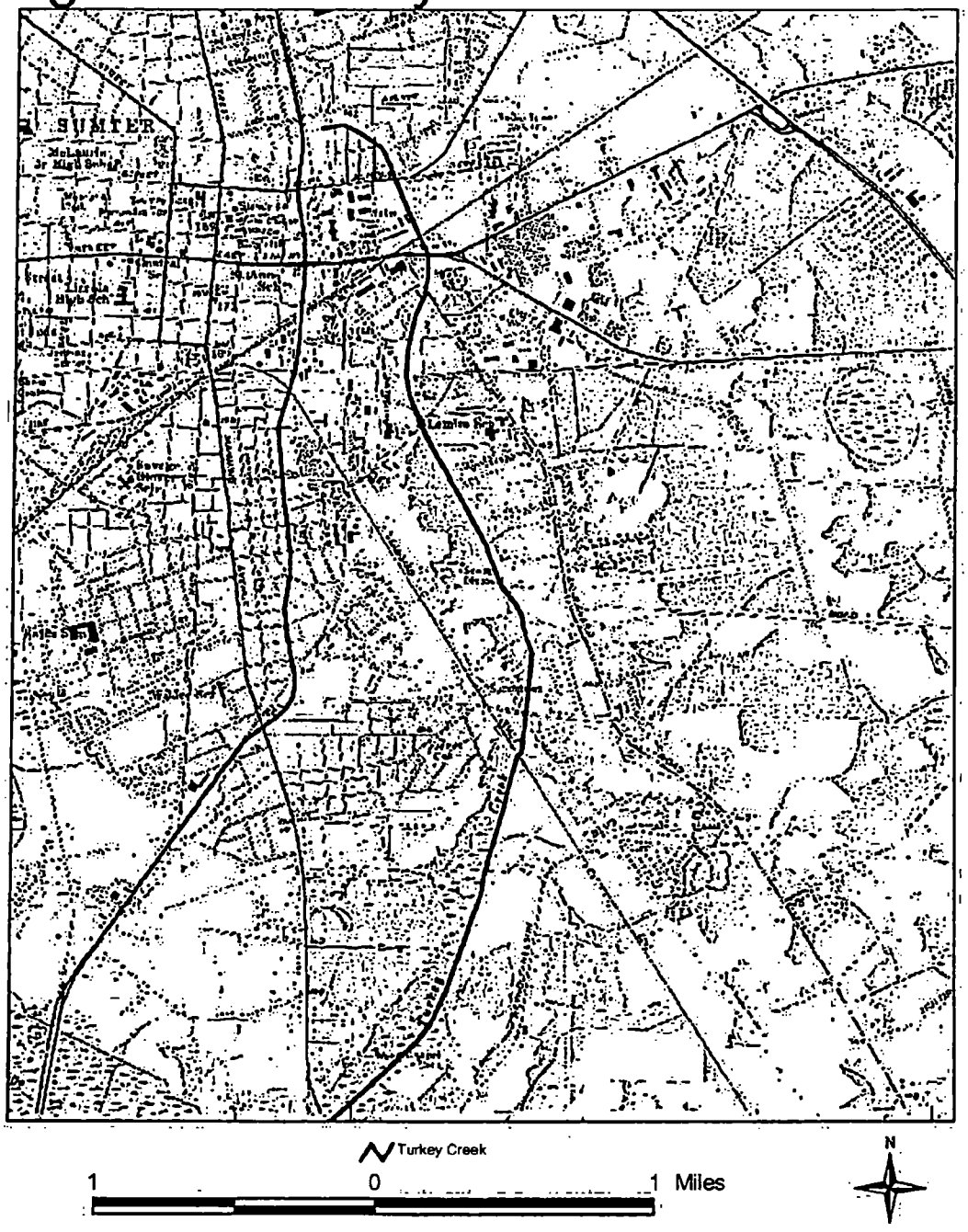
B. Site Description

The site consists of contaminated sediment in Turkey Creek and its floodplain. The site is located in Sumter County, S.C., at the southern edge of the city of Sumter. Single point coordinates are not sufficient to characterize the location of the site, but for the purposes of this report the location of the sampling conducted during the 2001 PA-SI will be used for the site coordinates.

33 degrees, 52 minutes, 16 seconds latitude
080 degrees, 20 minutes, 15 seconds longitude
(Ref. 3)

See page 3 for a map of the site location.

Figure 1 - Turkey Creek Site Location



C. Operational History and Waste Characteristics

As early as the late 1970's, there has been concern over the Pocataligo River Swamp system. Prior to 1950, the river-swamp system was used extensively as a recreational water body. Part of the headwaters of the river-swamp system, Pocalla Springs, was once a well-known health resort visited by people from across the state and country. Beginning in the 1950s, the swamp served as a dumping ground for domestic and industrial wastes, including domestic sewage and industrial discharges into Turkey Creek (Ref. 6).

A property owner along Turkey Creek filed a lawsuit in the early 1970's charging Santee Print Works, Georgia Pacific, Southern Coatings & Chemical Company, and Cover Manufacturing for the pollution of his property. Discharged waste was present in creek water that overflowed onto the property. The court ruled in the plaintiffs favor (Ref. 7). The South Carolina Pollution Control Authority also ordered numerous industries to improve their discharges to the creek, including Santee Print Works (1967), Fulton Chemical (1970), Williams Furniture (1970), Southern Coatings (1970), and Cover Manufacturing (1970) (Ref. 8).

Flooding of the creek has also been an historical problem in the waterway. A flood control project undertaken by the USACE in the 1970's altered the flow of Turkey Creek, and dredging displaced large amounts of sediment. Some or all of the dredged sediment has been placed on the banks of the creek (Ref. 6).

SCDHEC and the USACE have performed sediment sampling of the waterways near the Pocataligo Swamp, including Turkey Creek. The USACE collected sediment and fish tissue samples from Turkey Creek in 1981. Analysis of the sediment data revealed elevated concentrations of lead, mercury, copper, zinc, and oil and grease. The fish tissue data found elevated mercury, although all the samples were below the FDA limit (at the time) of 1 ppm (Ref. 6).

SCDHEC conducted additional sampling from Turkey Creek in 1986 of surface and subsurface sediment and fish tissue. Analysis of the data found slightly elevated levels of copper and lead in core samples and fish tissue levels of mercury below the FDA limit of 1 ppm. The level of mercury (0.45 ppm) was considered "not uncommon" for bowfin samples collected from black water systems (Ref. 9).

As part of a response to a complaint, the USEPA and SCDHEC conducted a PA/SI in the lower reaches of Turkey Creek in 1999. A limited number of subsurface sediment samples were collected from the floodplain of the creek below US Highway 521. See the following table (Table I) for a summary of the metals analytical data.

Table I – Selected Analytical Data From the 1999 PA/SI

Turkey Creek Site
All results in ppm (mg/kg)

	TC-001-SD Control	TC-002-SD	TC-003-SD	TC-004-SD	TC-005-SD
aluminum	3700 J	2700 J	15000 J	11000 J	1300 J
antimony	1.3 UJ	2.2 UJ	370 J	130 J	0.89 UJ
arsenic	1.4 U	1.3 U	10	9.9	0.94 U
barium	41	41	240	240	12
beryllium	0.27 J	0.39 J	2.5 J	2.8 J	0.09 J
chromium	4.2 J	26 J	530 J	240 J	1.4 J
copper	35 J	120 J	810 J	640 J	12 J
lead	17 J	57 J	810 J	430 J	3.7 J
magnesium	170	160	770	590	42
manganese	16 J	23 J	81 J	50 J	2.6 J
mercury	0.08 U	0.1 U	3.2	1.2	0.06 U
nickel	2.1 J	1.6 J	13 J	13 J	0.79 U
silver	0.26 U	0.35 UJ	4.7 J	3.5 J	0.18 U
vanadium	5.3 J	3.9 J	32	42	1.6 J
zinc	40 J	60 J	770 J	490 J	7.7 J

Key
J – Estimated concentration
U – Not detected

Samples collected for this ESI encompassed the length of Turkey Creek, from near the headwaters in downtown Sumter, to near the confluence with the Pocataligo River. More than 60 sediment and spoil pile samples were collected from the creek and floodplain. The samples were screened for metals using x-ray fluorescence. The samples were also field analyzed for mercury. The data obtained from the screening samples was used to determine sample locations for an additional eighteen soil/sediment samples and five water samples collected for fixed-laboratory analysis. These sample locations are shown in Figure 2 on page 6.

Selected data from these samples is shown in Tables II and III on pages 7 and 8.

Figure 2 - Sample Locations
Turkey Creek Site

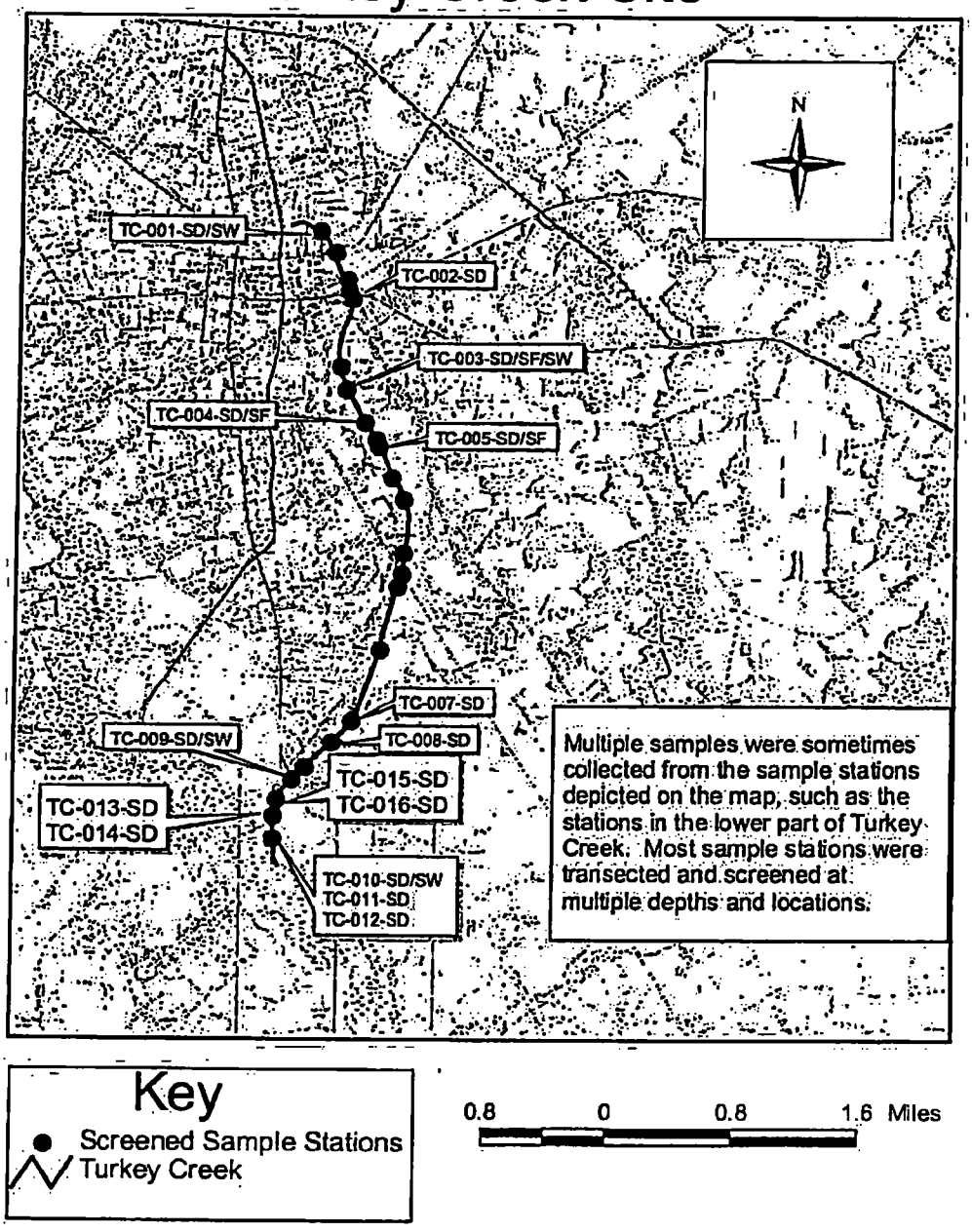


Table III

0059D	TC007SD	TC008SD	TC009SD	TC010SD	TC011SD	TC012SD	TC012SF	TC013SD	TC014SD	TC015SD	TC016SD
30	19	32	28	22	65	69		42	59	46	41
0 U	410 U	490 U	460 U	420 U	9400 U	11000 U	NR	5700 U	8000 U	6100 U	560 U
0 U	410 U	490 U	460 U	420 U	9400 U	11000 U	NR	5700 U	8000 U	6100 U	560 U
0 U	410 U	490 U	460 U	420 U	9400 U	11000 U	NR	5700 U	8000 U	6100 U	560 U
0 U	410 U	370 J	460 U	420 U	9400 U	11000 U	NR	5700 U	8000 U	6100 U	560 U
0 U	410 U	490 U	460 U	420 U	9400 U	11000 U	NR	5700 U	8000 U	6100 U	560 U
0 U	410 U	840	460 U	420 U	9400 U	11000 U	NR	5700 U	3400 J	6100 U	560 U
J	410 U	570	460 U	420 U	9400 U	11000 U	NR	3700 J	5000 J	7000	820
0 U	410 U	490 U	460 U	420 U	9400 U	11000 U	NR	5700 U	8000 U	6100 U	160 J
J	410 U	670	460 U	420 U	9400 U	11000 U	NR	1900 J	7200 J	2700 J	290 J
J	410 U	490 U	460 U	420 U	9400 U	11000 U	NR	5700 U	8000 U	6100 U	110 J
0	410 U	1500	150 J	49 J	1200 J	1400 J	NR	6000	13000	13000	980
0	410 U	1700	170 J	48 J	1900 J	2200 J	NR	7800	12000	15000	1300
0 J	410 UJ	700	80 J	420 U	1300 J	11000 U	NR	4800 J	6200 J	7200	540 J
0	410 U	1300	160 J	73 J	2800 J	2300 J	NR	7700	14000	14000	1200
0	410 U	1700	180 J	67 J	2200 J	2200 J	NR	11000	16000	20000	1300
J	410 U	490 U	460 U	420 U	9400 U	11000 U	NR	5700 U	8000 U	6100 U	560 U
00	410 U	7100	460 U	420 U	21000	20000	NR	5700 U	10000	6100 U	560 U
0 U	410 U	490 U	460 U	420 U	9400 U	11000 U	NR	5700 U	8000 U	6100 U	560 U
U	410 U	490 U	460 U	420 U	9400 U	11000 U	NR	5700 U	8000 U	6100 U	560 U
0	410 U	1500	170 J	57 J	1700 J	2000 J	NR	7000	13000	14000	1000
0 J	410 UJ	240 J	460 U	420 U	9400 U	11000 U	NR	1500 J	1900 J	2500 J	220 J
0 U	410 U	140 J	460 U	420 U	9400 U	11000 U	NR	5700 U	8000 U	6100 U	560 U
00 J	410 UJ	970 J	460 UJ	420 UJ	9400 UJ	11000 UJ	NR	5700 UJ	8000 UJ	6100 UJ	560 UJ
00	410 J	2200	210 J	73 J	1100 J	1400 J	NR	4800 J	24000	11000	800
0 U	410 U	790	460 U	420 U	9400 U	11000 U	NR	5700 U	3500 J	6100 U	560 U
0 J	410 UJ	810	100 J	47 J	1600 J	1400 J	NR	5400 J	6900 J	8700	680
0 U	410 U	100 J	460 U	420 U	9400 U	11000 U	NR	5700 U	8000 U	6100 U	560 U
0 J	410 U	2100	96 J	420 U	9400 U	11000 U	NR	2200 J	9600	2700 J	290 J
00	410 J	1600	280 J	84 J	2600 J	3300 J	NR	8600	36000	16000	1300

Additional analytical data includes VOCs, pesticide/herbicides and PCBs. Acetone was detected in all but three samples, but not in the control or blank. The concentrations ranged from low "J" detections to 560 ppb. Other VOCs detected (and their highest concentrations and sample locations) include:

carbon disulfide	(17 ppb; TC-005-SD)	methyl ethyl ketone	(140 J ppb; TC-012-SD)
cyclohexane	(35 ppb; TC-008-SD)	methylcyclohexane	(120 ppb; TC-008-SD)
isopropylbenzene	(630 ppb; TC-008-SD)	total xylenes	(24 ppb; TC-008-SD)

Pesticide/herbicide detections were also negligible for most locations except for the following:

TC-003-SF, TC-011-SD, TC-012-SD, TC-013-SD

Concentrations of DDD, DDT, DDE, alpha-chlordane, gamma-chlordane, dieldrin, and endrin aldehyde all ranged into the hundreds of parts per billion in at least one of the samples listed above. It is notable that TC-003-SF was collected from spoils along the edge of the creek, and the other samples were sediment samples collected from subsurface sediment in the floodplain of the lower portions of the creek (Ref. 4, 10).

The five water samples were found to have no significant detections, except for a slight increase in manganese in TC-003-SW.

IV. GROUNDWATER PATHWAY

The groundwater pathway has not been evaluated. The site is located along Turkey Creek and its floodplain and few groundwater targets are located in close proximity to the creek (Ref. 3).

V. SURFACE WATER PATHWAY

A. Regional Characteristics

The headwaters of Turkey Creek originate in the city of Sumter. This area of the state lies within the Middle Coastal Plain physiographic province (Ref. 11). Streamflow in this area of the state is supported primarily by rainfall (Ref. 11). Based on observations made during the reconnaissance and sampling of the site, and on the amount of drainage area that feeds into the creek, the flow is estimated to be between 10 and 100 cubic feet per second (cfs) (Ref. 3). Turkey Creek converges with the Pocataligo River approximately 4.5 miles downstream from the stream's headwaters (Ref. 3). The Pocataligo River flows for fifteen miles after the convergence with Turkey Creek, completing the target distance limit. The flow of the Pocataligo River is estimated to be between 100 and 1000 cfs. The two-year, 24-hour rainfall maximum for the center of Sumter County is 3.8 inches (Ref. 12).

B. Surface Water Targets

Turkey Creek is a known fishery, at least in the lower portions of the creek. People were seen fishing at the US Highway 521 bridge during the recon and sampling events for this investigation (Ref. 10). The Pocataligo River is a fishery and recreational water body (Ref. 13). Wetlands line the lower third of Turkey Creek and the entire length of the Pocataligo River (Ref. 3).

C. Analytical Results

SCDHEC and the USACE performed sediment sampling of the waterways near the Pocataligo Swamp, including Turkey Creek, on two separate occasions in the 1980s. The USACE collected sediment and fish tissue samples from Turkey Creek in 1981. Analysis of the sediment data revealed elevated concentrations of lead, mercury, copper, zinc, and oil and grease. The fish tissue data found elevated mercury, although all the samples were below the FDA limit (at the time) of 1 ppm (Ref. 6).

SCDHEC conducted additional sampling from Turkey Creek in 1986 of surface and subsurface sediment and fish tissue. Analysis of the data found slightly elevated levels of copper and lead in core samples and fish tissue levels of mercury below the FDA limit of 1 ppm. The level of mercury (0.45 ppm) was considered "not uncommon" for bowfin samples collected from black water systems (Ref. 9).

Soil/sediment samples collected for this investigation found elevated metals, PAHs, VOCs, and pesticide/herbicides in samples from the creek, the floodplain of the creek, and from spoils along the edge of the creek (Ref. 4). The data is summarized in Table II and III of this report.

VI. SOIL EXPOSURE PATHWAY & AIR PATHWAY

Contamination was detected in the spoils from dredging that have been placed along the edge of the creek. Elevated concentrations of metals, PAHs, and pesticide/herbicides were found in soil samples. The areas of spoil deposition are accessible due to paths or roads along the edge of the creek. Several distinct footpaths were noted leading from apartment complexes across the creek and through areas of spoil disposal (Ref. 10).

The entire city of Sumter lies within the four-mile radius of the site (Ref. 3). Based on the 2000 census figures of 1491 people per square mile in the city of Sumter, and 157 people per square mile in the county of Sumter, the total population within the four-mile radius is estimated to be just greater than 50,000. The total one-mile radius population is estimated to be just over 10,000 (Ref. 3, 14). For the Hazard Ranking System Nearby Population Threat, the 0 to ¼ mile population is estimated to be in the 1001 to 3000 range. The ¼ to ½ mile, and ½ to 1 mile populations are both estimated to be in the 3001 to 10,000 range.

VII. SUMMARY AND CONCLUSIONS

Sampling for this investigation included more than 60 samples, which were screened for metals using x-ray fluorescence and for mercury. An additional eighteen soil/sediment samples and five water samples were collected for laboratory analysis. The soil samples were collected from sediments of Turkey Creek and its floodplain, or from dredging spoils deposited along the banks of the creek. The five water samples were collected from Turkey Creek.

Review of the data found every metal analyzed for was detected at elevated levels in at least one soil/sediment sample, including: aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, cyanide, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc. Numerous PAHs were also detected at elevated concentrations in samples collected from the creek sediment, spoils, and floodplain. VOC's and pesticides/herbicides were detected in a few samples, although with the exception of one or two samples, the concentrations were relatively low. Only one slightly elevated parameter was detected in one of the five water samples.

The groundwater pathway has not been evaluated. The site is located along Turkey Creek and its floodplain and few groundwater targets are located in close proximity to the creek. Direct contact with the waste, although unlikely, is possible due to elevated concentrations detected in the spoil piles along the creek bank. Turkey Creek is a fishery and discharges into the Pocataligo Swamp, which is also a fishery.

Due to the elevated concentrations of metals, PAHs, VOCs and pesticide/herbicides that were found in the Turkey Creek sediment, floodplain, and spoils, the site is given a high priority for additional federal Superfund activity.

VIII. REFERENCES

1. Federal Register, 40 CFR part 300. Hazard Ranking System Final Rule. December 14, 1990. Available at SCDHEC.

2. Superfund Chemical Data Matrix. June 1997. Available at SCDHEC.

3. USGS Topographic Maps, 7.5 minute series

Sumter East, SC	1982
Sumter West, SC	1982
Dalzell, SC	1988
Privateer, SC	1983

4. Analytical Data for the Turkey Creek site. Sampled the week of June 11, 2002. Data Released from EPA Region IV - Science & Ecosystem Support Division June 2002. Copy attached.

5. Robert Cole, SCDHEC. Turkey Creek ESI Sampling Plan. May 23, 2002. Copy attached.

6. US Army Corps of Engineers. Special Report – Pocotaligo Swamp Sumter County, South Carolina. 1982. Copy attached.

7. Terry Tanner, USEPA. CERCLA Site Discovery Memorandum for Turkey Creek. July 10, 1998. Copy attached.

8. List of SC Pollution Control Authority Orders for industries discharging to Turkey Creek. Copy attached.

9. Harry Gaymon, SCDHEC. Pocotaligo River Basin – Turkey Creek Study. January 8, 1987. Copy attached.

10. SCDHEC Field Notes for recon and sampling activities at the Turkey Creek site. May and June 2002. Copy attached.

11. South Carolina Water Resources Commission. South Carolina State Water Assessment. September 1983. Available at SCDHEC.

12. SC Water Resources Commission. State Climatologist. Maximum Rainfall Intensity Data. Available at SCDHEC.

13. South Carolina Water Resources Commission. South Carolina Rivers Assessment. September 1988. Available at SCDHEC.

14. US Census Bureau Data for South Carolina. Available at: http://www.census.gov/census2000/states/sc.html .

ref. 4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

MEMORANDUM

RECEIVED

JUN 26 2002

DIVISION OF SITE
ASSESSMENT & REMEDIATION

Date: 06/17/2002

Subject: Results of VOLATILES Sample Analysis
02-0748 Turkey Creek
Sumter, SC

From: Allen, Frank

To: Tanner, Terry

CC: Jonathan McInnis
SCDHEC

Thru: Cosgrove, Bill
Chief,Organic Chemistry Section
Analytical Support Branch

Attached are the results of analysis of samples collected as part of the subject project. If you have any questions, please contact me.

ATTACHMENT

VOLATILES SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 06/17/2002 15:01

Sample 5791 FY 2002 Project: 02-0748
VOLATILES SCAN
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: 001-SW / TC
Media: SURFACE WATER

Produced by: Allen, Frank
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:05
Ending:

RESULTS	UNITS	ANALYTE
1.0U	UG/L	DICHLORODIFLUOROMETHANE
1.0U	UG/L	CHLOROMETHANE
1.0U	UG/L	BROMOMETHANE
1.0U	UG/L	VINYL CHLORIDE
1.0U	UG/L	CHLOROETHANE
1.0U	UG/L	TRICHLOROFLUOROMETHANE (FREON 11)
1.0U	UG/L	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
1.0U	UG/L	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
1.0U	UG/L	METHYLENE CHLORIDE
0.52AJ	UG/L	METHYL T-BUTYL ETHER (MTBE)
25.U	UG/L	ACETONE
2.5U	UG/L	CARBON DISULFIDE
5.0U	UG/L	METHYL ACETATE
1.0U	UG/L	1,1-DICHLOROETHANE
1.0U	UG/L	CIS-1,2-DICHLOROETHENE
1.0U	UG/L	2,2-DICHLOROPROPANE
12.U	UG/L	METHYL ETHYL KETONE
1.0U	UG/L	BROMOCHLOROMETHANE
1.0U	UG/L	TRANS-1,2-DICHLOROETHENE
1.0U	UG/L	CHLOROFORM
1.0U	UG/L	1,2-DICHLOROETHANE
1.0U	UG/L	1,1,1-TRICHLOROETHANE
1.0U	UG/L	CYCLOHEXANE
1.0U	UG/L	1,1-DICHLOROPROPENE
1.0U	UG/L	CARBON TETRACHLORIDE
1.0U	UG/L	BROMODICHLOROMETHANE
2.5U	UG/L	METHYL ISOBUTYL KETONE
1.0U	UG/L	1,2-DICHLOROPROPANE
1.0U	UG/L	METHYLCYCLOHEXANE
1.0U	UG/L	DIBROMOMETHANE
1.0U	UG/L	TRANS-1,3-DICHLOROPROPENE
1.0U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
1.0U	UG/L	BENZENE
1.0U	UG/L	DIBROMOCHLOROMETHANE
1.0U	UG/L	1,1,2-TRICHLOROETHANE

RESULTS	UNITS	ANALYTE
1.0U	UG/L	CIS-1,3-DICHLOROPROPENE
1.0U	UG/L	BROMOFORM
1.0U	UG/L	BROMOBENZENE
1.0U	UG/L	1,1,2,2-TETRACHLOROETHANE
1.0U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
1.0U	UG/L	1,3-DICHLOROPROPANE
2.5U	UG/L	METHYL BUTYL KETONE
1.0U	UG/L	TOLUENE
1.0U	UG/L	CHLOROBENZENE
1.0U	UG/L	1,1,1,2-TETRACHLOROETHANE
1.0U	UG/L	ETHYL BENZENE
1.0U	UG/L	(M- AND/OR P-)XYLENE
1.0U	UG/L	O-XYLENE
1.0U	UG/L	STYRENE
1.0U	UG/L	1,2,3-TRICHLOROPROPANE
1.0U	UG/L	O-CHLOROTOLUENE
1.0U	UG/L	P-CHLOROTOLUENE
1.0U	UG/L	1,3-DICHLOROBENZENE
1.0U	UG/L	1,4-DICHLOROBENZENE
1.0U	UG/L	1,2-DICHLOROBENZENE
1.0U	UG/L	1,2-DIBROMOETHANE (EDB)
1.0U	UG/L	ISOPROPYLBENZENE
1.0U	UG/L	N-PROPYLBENZENE
1.0U	UG/L	1,3,5-TRIMETHYLBENZENE
1.0U	UG/L	TERT-BUTYLBENZENE
1.0U	UG/L	1,2,4-TRIMETHYLBENZENE
1.0U	UG/L	SEC-BUTYLBENZENE
1.0U	UG/L	P-ISOPROPYLTOLUENE
1.0U	UG/L	N-BUTYLBENZENE
1.0U	UG/L	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
1.0U	UG/L	1,2,4-TRICHLOROBENZENE
1.0U	UG/L	HEXACHLORO-1,3-BUTADIENE
1.0U	UG/L	1,2,3-TRICHLOROBENZENE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 06/17/2002 15:01

Sample 5792 FY 2002 Project: 02-0748
VOLATILES SCAN
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: 003-SW / TC
Media: SURFACE WATER

Produced by: Allen, Frank
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 11:00
Ending:

RESULTS	UNITS	ANALYTE
1.0U	UG/L	DICHLORODIFLUOROMETHANE
1.0U	UG/L	CHLOROMETHANE
1.0U	UG/L	BROMOMETHANE
1.0U	UG/L	VINYL CHLORIDE
1.0U	UG/L	CHLOROETHANE
1.0U	UG/L	TRICHLOROFLUOROMETHANE (FREON 11)
1.0U	UG/L	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
1.0U	UG/L	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
1.0U	UG/L	METHYLENE CHLORIDE
1.0U	UG/L	METHYL T-BUTYL ETHER (MTBE)
25.U	UG/L	ACETONE
2.5U	UG/L	CARBON DISULFIDE
5.0U	UG/L	METHYL ACETATE
1.0U	UG/L	1,1-DICHLOROETHANE
1.0U	UG/L	CIS-1,2-DICHLOROETHENE
1.0U	UG/L	2,2-DICHLOROPROPANE
12.U	UG/L	METHYL ETHYL KETONE
1.0U	UG/L	BROMOCHLOROMETHANE
1.0U	UG/L	TRANS-1,2-DICHLOROETHENE
1.0U	UG/L	CHLOROFORM
1.0U	UG/L	1,2-DICHLOROETHANE
1.0U	UG/L	1,1,1-TRICHLOROETHANE
1.0U	UG/L	CYCLOHEXANE
1.0U	UG/L	1,1-DICHLOROPROPENE
1.0U	UG/L	CARBON TETRACHLORIDE
1.0U	UG/L	BROMODICHLOROMETHANE
2.5U	UG/L	METHYL ISOBUTYL KETONE
1.0U	UG/L	1,2-DICHLOROPROPANE
1.0U	UG/L	METHYLCYCLOHEXANE
1.0U	UG/L	DIBROMOMETHANE
1.0U	UG/L	TRANS-1,3-DICHLOROPROPENE
1.0U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
1.0U	UG/L	BENZENE
1.0U	UG/L	DIBROMOCHLOROMETHANE
1.0U	UG/L	1,1,2-TRICHLOROETHANE

RESULTS	UNITS	ANALYTE
1.0U	UG/L	CIS-1,3-DICHLOROPROPENE
1.0U	UG/L	BROMOFORM
1.0U	UG/L	BROMOBENZENE
1.0U	UG/L	1,1,2,2-TETRACHLOROETHANE
1.0U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
1.0U	UG/L	1,3-DICHLOROPROPANE
2.5U	UG/L	METHYL BUTYL KETONE
1.0U	UG/L	TOLUENE
1.0U	UG/L	CHLOROBENZENE
1.0U	UG/L	1,1,1,2-TETRACHLOROETHANE
1.0U	UG/L	ETHYL BENZENE
1.0U	UG/L	(M- AND/OR P-)XYLENE
1.0U	UG/L	O-XYLENE
1.0U	UG/L	STYRENE
1.0U	UG/L	1,2,3-TRICHLOROPROPANE
1.0U	UG/L	O-CHLOROTOLUENE
1.0U	UG/L	P-CHLOROTOLUENE
1.0U	UG/L	1,3-DICHLOROBENZENE
1.0U	UG/L	1,4-DICHLOROBENZENE
1.0U	UG/L	1,2-DICHLOROBENZENE
1.0U	UG/L	1,2-DIBROMOETHANE (EDB)
1.0U	UG/L	ISOPROPYLBENZENE
1.0U	UG/L	N-PROPYLBENZENE
1.0U	UG/L	1,3,5-TRIMETHYLBENZENE
1.0U	UG/L	TERT-BUTYLBENZENE
1.0U	UG/L	1,2,4-TRIMETHYLBENZENE
1.0U	UG/L	SEC-BUTYLBENZENE
1.0U	UG/L	P-ISOPROPYLTOLUENE
1.0U	UG/L	N-BUTYLBENZENE
1.0U	UG/L	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
1.0U	UG/L	1,2,4-TRICHLOROBENZENE
1.0U	UG/L	HEXACHLORO-1,3-BUTADIENE
1.0U	UG/L	1,2,3-TRICHLOROBENZENE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 06/17/2002 15:01

Sample 5793 FY 2002 Project: 02-0748
VOLATILES SCAN
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: 009-SW / TC
Media: SURFACE WATER

Produced by: Allen, Frank
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 16:40
Ending:

RESULTS	UNITS	ANALYTE
1.0U	UG/L	DICHLORODIFLUOROMETHANE
1.0U	UG/L	CHLOROMETHANE
1.0U	UG/L	BROMOMETHANE
1.0U	UG/L	VINYL CHLORIDE
1.0U	UG/L	CHLOROETHANE
1.0U	UG/L	TRICHLOROFLUOROMETHANE (FREON 11)
1.0U	UG/L	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
1.0U	UG/L	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
1.0U	UG/L	METHYLENE CHLORIDE
1.0U	UG/L	METHYL T-BUTYL ETHER (MTBE)
25.U	UG/L	ACETONE
2.5U	UG/L	CARBON DISULFIDE
5.0U	UG/L	METHYL ACETATE
1.0U	UG/L	1,1-DICHLOROETHANE
1.0U	UG/L	CIS-1,2-DICHLOROETHENE
1.0U	UG/L	2,2-DICHLOROPROPANE
12.U	UG/L	METHYL ETHYL KETONE
1.0U	UG/L	BROMOCHLOROMETHANE
1.0U	UG/L	TRANS-1,2-DICHLOROETHENE
1.0U	UG/L	CHLOROFORM
1.0U	UG/L	1,2-DICHLOROETHANE
1.0U	UG/L	1,1,1-TRICHLOROETHANE
1.0U	UG/L	CYCLOHEXANE
1.0U	UG/L	1,1-DICHLOROPROPENE
1.0U	UG/L	CARBON TETRACHLORIDE
1.0U	UG/L	BROMODICHLOROMETHANE
2.5U	UG/L	METHYL ISOBUTYL KETONE
1.0U	UG/L	1,2-DICHLOROPROPANE
1.0U	UG/L	METHYLCYCLOHEXANE
1.0U	UG/L	DIBROMOMETHANE
1.0U	UG/L	TRANS-1,3-DICHLOROPROPENE
1.0U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
1.0U	UG/L	BENZENE
1.0U	UG/L	DIBROMOCHLOROMETHANE
1.0U	UG/L	1,1,2-TRICHLOROETHANE

RESULTS	UNITS	ANALYTE
1.0U	UG/L	CIS-1,3-DICHLOROPROPENE
1.0U	UG/L	BROMOFORM
1.0U	UG/L	BROMOBENZENE
1.0U	UG/L	1,1,2,2-TETRACHLOROETHANE
1.0U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
1.0U	UG/L	1,3-DICHLOROPROPANE
2.5U	UG/L	METHYL BUTYL KETONE
1.0U	UG/L	TOLUENE
1.0U	UG/L	CHLOROBENZENE
1.0U	UG/L	1,1,1,2-TETRACHLOROETHANE
1.0U	UG/L	ETHYL BENZENE
1.0U	UG/L	(M- AND/OR P-)XYLENE
1.0U	UG/L	O-XYLENE
1.0U	UG/L	STYRENE
1.0U	UG/L	1,2,3-TRICHLOROPROPANE
1.0U	UG/L	O-CHLOROTOLUENE
1.0U	UG/L	P-CHLOROTOLUENE
1.0U	UG/L	1,3-DICHLOROBENZENE
1.0U	UG/L	1,4-DICHLOROBENZENE
1.0U	UG/L	1,2-DICHLOROBENZENE
1.0U	UG/L	1,2-DIBROMOETHANE (EDB)
1.0U	UG/L	ISOPROPYLBENZENE
1.0U	UG/L	N-PROPYLBENZENE
1.0U	UG/L	1,3,5-TRIMETHYLBENZENE
1.0U	UG/L	TERT-BUTYLBENZENE
1.0U	UG/L	1,2,4-TRIMETHYLBENZENE
1.0U	UG/L	SEC-BUTYLBENZENE
1.0U	UG/L	P-ISOPROPYLTOLUENE
1.0U	UG/L	N-BUTYLBENZENE
1.0U	UG/L	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
1.0U	UG/L	1,2,4-TRICHLOROBENZENE
1.0U	UG/L	HEXACHLORO-1,3-BUTADIENE
1.0U	UG/L	1,2,3-TRICHLOROBENZENE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 06/17/2002 15:01

Sample 5794 FY 2002 Project: 02-0748

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: 010-SW / TC

Media: SURFACE WATER

Produced by: Allen, Frank

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:05

Ending:

RESULTS	UNITS	ANALYTE
1.0U	UG/L	DICHLORODIFLUOROMETHANE
1.0U	UG/L	CHLOROMETHANE
1.0U	UG/L	BROMOMETHANE
1.0U	UG/L	VINYL CHLORIDE
1.0U	UG/L	CHLOROETHANE
1.0U	UG/L	TRICHLOROFLUOROMETHANE (FREON 11)
1.0U	UG/L	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
1.0U	UG/L	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
1.0U	UG/L	METHYLENE CHLORIDE
1.0U	UG/L	METHYL T-BUTYL ETHER (MTBE)
25.U	UG/L	ACETONE
2.5U	UG/L	CARBON DISULFIDE
5.0U	UG/L	METHYL ACETATE
1.0U	UG/L	1,1-DICHLOROETHANE
1.0U	UG/L	CIS-1,2-DICHLOROETHENE
1.0U	UG/L	2,2-DICHLOROPROPANE
12.U	UG/L	METHYL ETHYL KETONE
1.0U	UG/L	BROMOCHLOROMETHANE
1.0U	UG/L	TRANS-1,2-DICHLOROETHENE
1.0U	UG/L	CHLOROFORM
1.0U	UG/L	1,2-DICHLOROETHANE
1.0U	UG/L	1,1,1-TRICHLOROETHANE
1.0U	UG/L	CYCLOHEXANE
1.0U	UG/L	1,1-DICHLOROPROPENE
1.0U	UG/L	CARBON TETRACHLORIDE
1.0U	UG/L	BROMODICHLOROMETHANE
2.5U	UG/L	METHYL ISOBUTYL KETONE
1.0U	UG/L	1,2-DICHLOROPROPANE
1.0U	UG/L	METHYLCYCLOHEXANE
1.0U	UG/L	DIBROMOMETHANE
1.0U	UG/L	TRANS-1,3-DICHLOROPROPENE
1.0U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
1.0U	UG/L	BENZENE
1.0U	UG/L	DIBROMOCHLOROMETHANE
1.0U	UG/L	1,1,2-TRICHLOROETHANE

RESULTS	UNITS	ANALYTE
1.0U	UG/L	CIS-1,3-DICHLOROPROPENE
1.0U	UG/L	BROMOFORM
1.0U	UG/L	BROMOBENZENE
1.0U	UG/L	1,1,2,2-TETRACHLOROETHANE
1.0U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
1.0U	UG/L	1,3-DICHLOROPROPANE
2.5U	UG/L	METHYL BUTYL KETONE
1.0U	UG/L	TOLUENE
1.0U	UG/L	CHLOROBENZENE
1.0U	UG/L	1,1,1,2-TETRACHLOROETHANE
1.0U	UG/L	ETHYL BENZENE
1.0U	UG/L	(M- AND/OR P-)XYLENE
1.0U	UG/L	O-XYLENE
1.0U	UG/L	STYRENE
1.0U	UG/L	1,2,3-TRICHLOROPROPANE
1.0U	UG/L	O-CHLOROTOLUENE
1.0U	UG/L	P-CHLOROTOLUENE
1.0U	UG/L	1,3-DICHLOROBENZENE
1.0U	UG/L	1,4-DICHLOROBENZENE
1.0U	UG/L	1,2-DICHLOROBENZENE
1.0U	UG/L	1,2-DIBROMOETHANE (EDB)
1.0U	UG/L	ISOPROPYLBENZENE
1.0U	UG/L	N-PROPYLBENZENE
1.0U	UG/L	1,3,5-TRIMETHYLBENZENE
1.0U	UG/L	TERT-BUTYLBENZENE
1.0U	UG/L	1,2,4-TRIMETHYLBENZENE
1.0U	UG/L	SEC-BUTYLBENZENE
1.0U	UG/L	P-ISOPROPYLTOLUENE
1.0U	UG/L	N-BUTYLBENZENE
1.0U	UG/L	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
1.0U	UG/L	1,2,4-TRICHLOROBENZENE
1.0U	UG/L	HEXACHLORO-1,3-BUTADIENE
1.0U	UG/L	1,2,3-TRICHLOROBENZENE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 06/17/2002 15:01

Sample 5795 FY 2002 Project: 02-0748

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: 017-SW / TC

Media: SURFACE WATER

Produced by: Allen, Frank

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 14:30

Ending:

RESULTS	UNITS	ANALYTE
1.0U	UG/L	DICHLORODIFLUOROMETHANE
1.0U	UG/L	CHLOROMETHANE
1.0U	UG/L	BROMOMETHANE
1.0U	UG/L	VINYL CHLORIDE
1.0U	UG/L	CHLOROETHANE
1.0U	UG/L	TRICHLOROFLUOROMETHANE (FREON 11)
1.0U	UG/L	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
1.0U	UG/L	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
1.0U	UG/L	METHYLENE CHLORIDE
1.0U	UG/L	METHYL T-BUTYL ETHER (MTBE)
35.J	UG/L	ACETONE
2.5U	UG/L	CARBON DISULFIDE
5.0U	UG/L	METHYL ACETATE
1.0U	UG/L	1,1-DICHLOROETHANE
1.0U	UG/L	CIS-1,2-DICHLOROETHENE
1.0U	UG/L	2,2-DICHLOROPROPANE
12.U	UG/L	METHYL ETHYL KETONE
1.0U	UG/L	BROMOCHLOROMETHANE
1.0U	UG/L	TRANS-1,2-DICHLOROETHENE
1.0U	UG/L	CHLOROFORM
1.0U	UG/L	1,2-DICHLOROETHANE
1.0U	UG/L	1,1,1-TRICHLOROETHANE
1.0U	UG/L	CYCLOHEXANE
1.0U	UG/L	1,1-DICHLOROPROPENE
1.0U	UG/L	CARBON TETRACHLORIDE
1.0U	UG/L	BROMODICHLOROMETHANE
2.5U	UG/L	METHYL ISOBUTYL KETONE
1.0U	UG/L	1,2-DICHLOROPROPANE
1.0U	UG/L	METHYLCYCLOHEXANE
1.0U	UG/L	DIBROMOMETHANE
1.0U	UG/L	TRANS-1,3-DICHLOROPROPENE
1.0U	UG/L	TRICHLOROETHENE (TRICHLOROETHYLENE)
1.0U	UG/L	BENZENE
1.0U	UG/L	DIBROMOCHLOROMETHANE
1.0U	UG/L	1,1,2-TRICHLOROETHANE

RESULTS	UNITS	ANALYTE
1.0U	UG/L	CIS-1,3-DICHLOROPROPENE
1.0U	UG/L	BROMOFORM
1.0U	UG/L	BROMOBENZENE
1.0U	UG/L	1,1,2,2-TETRACHLOROETHANE
1.0U	UG/L	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
1.0U	UG/L	1,3-DICHLOROPROPANE
2.5U	UG/L	METHYL BUTYL KETONE
1.0U	UG/L	TOLUENE
1.0U	UG/L	CHLOROBENZENE
1.0U	UG/L	1,1,1,2-TETRACHLOROETHANE
1.0U	UG/L	ETHYL BENZENE
1.0U	UG/L	(M- AND/OR P-)XYLENE
1.0U	UG/L	O-XYLENE
1.0U	UG/L	STYRENE
1.0U	UG/L	1,2,3-TRICHLOROPROPANE
1.0U	UG/L	O-CHLOROTOLUENE
1.0U	UG/L	P-CHLOROTOLUENE
1.0U	UG/L	1,3-DICHLOROBENZENE
1.0U	UG/L	1,4-DICHLOROBENZENE
1.0U	UG/L	1,2-DICHLOROBENZENE
1.0U	UG/L	1,2-DIBROMOETHANE (EDB)
1.0U	UG/L	ISOPROPYLBENZENE
1.0U	UG/L	N-PROPYLBENZENE
1.0U	UG/L	1,3,5-TRIMETHYLBENZENE
1.0U	UG/L	TERT-BUTYLBENZENE
1.0U	UG/L	1,2,4-TRIMETHYLBENZENE
1.0U	UG/L	SEC-BUTYLBENZENE
1.0U	UG/L	P-ISOPROPYLTOLUENE
1.0U	UG/L	N-BUTYLBENZENE
1.0U	UG/L	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
1.0U	UG/L	1,2,4-TRICHLOROBENZENE
1.0U	UG/L	HEXACHLORO-1,3-BUTADIENE
1.0U	UG/L	1,2,3-TRICHLOROBENZENE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

MEMORANDUM

Date: 07/24/2002

Subject: Results of PESTICIDES/PCB Sample Analysis
02-0753 Turkey Creek
Sumter, SC

From: McConney, John

To: Tanner, Terry

CC: Jonathan McInnis
SCDHEC

Thru: QA Office

RECEIVED
JUL 2 6 2002
DIVISION OF SITE
ASSESSMENT & REMEDIATION

Attached are the results of analysis of samples collected as part of the subject project. If you have any questions, please contact me.

ATTACHMENT

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
VOA			
5928,5930-5932, 5934-5940,5942, 5944-5950	dichlorodifluoromethane, chloromethane, vinyl chloride, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, 1,2-dibromo-3-chloropropane	J	erratic continuing calibration response factor
5931,5940	carbon disulfide	J	< quantitation limit
5939	carbon disulfide, benzene,	J	< quantitation limit
5945	methylcyclohexane	J	< quantitation limit
BNA			
5928,5930,5934-5938	hexachlorocyclopentadiene, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, di-n-octylphthalate, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	erratic continuing calibration response factor
5928	phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5929,5931,5933, 5939-5949	di-n-octylphthalate	J	erratic continuing calibration response factor
5930	4-chloro-3-methylphenol, acenaphthene, 2,4-dinitrotoluene, pentachlorophenol, phenanthrene, fluoranthene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5931	benzaldehyde, 4-methylphenol, acenaphthylene, acenaphthene, dibenzofuran, fluorene, anthracene, carbazole, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5932	hexachlorocyclopentadiene	J	erratic continuing calibration response factor

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
5932	2-methylnaphthalene, 1,1'-biphenyl, acenaphthene, dibenzofuran, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5934	acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, benzo(a)anthracene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5935	phenanthrene, anthracene, carbazole, benzo(a)anthracene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5936	benzaldehyde, 2,2'-oxybis(1-chloropropane), acenaphthylene, phenanthene, anthracene, carbazole, dibenzo(a,h)anthracene	J	< quantitation limit
5937	caprolactam, acenaphthylene, phenanthrene, anthracene, carbazole, dibenzo(a,h)anthracene	J	< quantitation limit
5938	fluoranthene, pyrene	J	< quantitation limit
5939	naphthalene, 2-methylnaphthalene, dibenzofuran, dibenzo(a,h)anthracene	J	< quantitation limit
5940	phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluroanthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benzo(g,h,i)perylene	J	< quantitation limit
5942	fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluroanthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene	J	< quantitation limit

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID: Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
5944	fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluroanthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benzo(g,h,i)perylene	J	< quantitation limit
5945	fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluroanthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene	J	< quantitation limit
5946	acenaphthylene, phenanthrene, anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5947	acenaphthylene, acenaphthene, fluorene, anthracene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5948	phenanthrene, anthracene, dibenzo(a,h)anthracene	J	< quantitation limit
5949	benzaldehyde, acetophenone, phenanthrene, anthracene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
PEST			
5928,5930-5932, 5934-5940,5942, 5944-5949	all compounds	J	exceeded holding times
5928	4,4'-DDD	J,N	< quantitation limit, difference in columns
5931	dieldrin, alpha-chlordane, gamma-chlordane	J	high surrogate recovery
5931	dieldrin, alpha-chlordane	N	difference in columns
5932	endosulfan sulfate, 4,4'-DDT, endrin aldehyde	J	high surrogate recovery, outside calibration range

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
5932	endosulfan II, endosulfan sulfate, gamma-chlordane	N	difference in columns
5934	alpha-chlordane	N	difference in columns
5935,5936,5939	4,4'-DDE, 4,4'-DDD, alpha-chlordane, gamma-chlordane	J	high surrogate recovery
5935,5936	alpha-chlordane	N	difference in columns
5936	4,4'-DDE	J	< quantitation limit
5937	dieldrin, 4,4'-DDE, 4,4'-DDD, gamma-chlordane	J	high surrogate recovery
5937,5940	dieldrin	N	difference in columns
5939	4,4'-DDE, alpha-chlordane	N	difference in columns
5944	4,4'-DDE, 4,4'-DDD	C	GC/MS confirmed
5944	alpha-chlordane	N	difference in columns
5945	dieldrin, 4,4'-DDE, endrin, endosulfan sulfate	J,N	high surrogate recovery, difference in columns
5945	4,4'-DDD	C	GC/MS confirmed
5946	endosulfan sulfate, endrin aldehyde	J	high surrogate recovery
5946	endosulfan sulfate, endrin aldehyde, alpha-chlordane, gamma-chlordane	N	difference in columns
5947	4,4'-DDE, endosulfan sulfate, endrin ketone, endrin aldehyde, alpha-chlordane, gamma-chlordane	J	high surrogate recovery
5947	4,4'-DDE, endosulfan sulfate, endrin ketone, alpha-chlordane, gamma-chlordane	N	difference in columns
5948	4,4'-DDD, endrin ketone, endrin aldehyde, gamma-chlordane	J	high surrogate recovery
5948	4,4'-DDD, endrin ketone, endrin aldehyde	N	difference in columns

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
5948	gamma-chlordane	J	out of calibration range
5949	gamma-chlordane	J	high surrogate recovery

PESTICIDES/PCB SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — **Production Date: 07/24/2002 08:14**

Sample 5928 FY 2002 Project: 02-0753
PESTICIDES SCAN
Facility: Turkey Creek — Sumter, SC
Program: SF
Id/Station: TC001SD /
Media: SEDIMENT
Case No: 30588
MD No: 1C97
D No: 1C97
Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:00
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.0UJ	UG/KG	ALPHA-BHC
2.0UJ	UG/KG	BETA-BHC
2.0UJ	UG/KG	DELTA-BHC
2.0UJ	UG/KG	GAMMA-BHC (LINDANE)
2.0UJ	UG/KG	HEPTACHLOR
2.0UJ	UG/KG	ALDRIN
2.0UJ	UG/KG	HEPTACHLOR EPOXIDE
2.0UJ	UG/KG	ENDOSULFAN I (ALPHA)
3.9UJ	UG/KG	DIELDRIN
3.9UJ	UG/KG	4,4'-DDE (P,P'-DDE)
3.9UJ	UG/KG	ENDRIN
3.9UJ	UG/KG	ENDOSULFAN II (BETA)
3.4JN	UG/KG	4,4'-DDD (P,P'-DDD)
3.9UJ	UG/KG	ENDOSULFAN SULFATE
3.9UJ	UG/KG	4,4'-DDT (P,P'-DDT)
20UJ	UG/KG	METHOXYCHLOR
3.9UJ	UG/KG	ENDRIN KETONE
3.9UJ	UG/KG	ENDRIN ALDEHYDE
2.3UJ	UG/KG	ALPHA-CHLORDANE /2
2.3UJ	UG/KG	GAMMA-CHLORDANE /2
200UJ	UG/KG	TOXAPHENE
39UJ	UG/KG	PCB-1016 (AROCLOR 1016)
80UJ	UG/KG	PCB-1221 (AROCLOR 1221)
39UJ	UG/KG	PCB-1232 (AROCLOR 1232)
39UJ	UG/KG	PCB-1242 (AROCLOR 1242)
39UJ	UG/KG	PCB-1248 (AROCLOR 1248)
39UJ	UG/KG	PCB-1254 (AROCLOR 1254)
39UJ	UG/KG	PCB-1260 (AROCLOR 1260)
16	%	% MOISTURE

EXCESSIVE HOLDING TIME

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
Q-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms. 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 07/24/2002 08:14

Sample 5929 FY 2002 Project: 02-0753
PESTICIDES SCAN
Facility: Turkey Creek — Sumter, SC
Program: SF
Id/Station: TC001SW /
Media: SURFACE WATER
Case No: 30588
MD No: 1C98
D No: 1C98
Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:05
Ending:

RESULTS	UNITS	ANALYTE
0.050U	UG/L	ALPHA-BHC
0.050U	UG/L	BETA-BHC
0.050U	UG/L	DELTA-BHC
0.050U	UG/L	GAMMA-BHC (LINDANE)
0.050U	UG/L	HEPTACHLOR
0.050U	UG/L	ALDRIN
0.050U	UG/L	HEPTACHLOR EPOXIDE
0.050U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDOSULFAN SULFATE
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE
0.10U	UG/L	ENDRIN ALDEHYDE
0.050U	UG/L	ALPHA-CHLORDANE /2
0.050U	UG/L	GAMMA-CHLORDANE /2
5.0U	UG/L	TOXAPHENE
1.0U	UG/L	PCB-1016 (AROCLOR 1016)
2.0U	UG/L	PCB-1221 (AROCLOR 1221)
1.0U	UG/L	PCB-1232 (AROCLOR 1232)
1.0U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)

A-average value, NA-not analyzed, NAI-interferences, J-estimated value, N-presumptive evidence of presence of material;
B-actual value is known to be less than value given, L-actual value is known to be greater than value given, U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable, compound may or may not be present, resampling and reanalysis is necessary for verification.
X-confirmed by gcms; 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5930 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC002SD /

Media: SEDIMENT

Case No: 30588

MD No: 1C99

D No: 1C99

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:25

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.5UJ	UG/KG	ALPHA-BHC
2.5UJ	UG/KG	BETA-BHC
2.5UJ	UG/KG	DELTA-BHC
2.5UJ	UG/KG	GAMMA-BHC (LINDANE)
2.5UJ	UG/KG	HEPTACHLOR
2.5UJ	UG/KG	ALDRIN
2.5UJ	UG/KG	HEPTACHLOR EPOXIDE
2.5UJ	UG/KG	ENDOSULFAN I (ALPHA)
4.9UJ	UG/KG	DIELDRIN
4.9UJ	UG/KG	4,4'-DDE (P,P'-DDE)
4.9UJ	UG/KG	ENDRIN
4.9UJ	UG/KG	ENDOSULFAN II (BETA)
4.9UJ	UG/KG	4,4'-DDD (P,P'-DDD)
4.9UJ	UG/KG	ENDOSULFAN SULFATE
4.9UJ	UG/KG	4,4'-DDT (P,P'-DDT)
25UJ	UG/KG	METHOXYCHLOR
4.9UJ	UG/KG	ENDRIN KETONE
4.9UJ	UG/KG	ENDRIN ALDEHYDE
2.5UJ	UG/KG	ALPHA-CHLORDANE /2
2.5UJ	UG/KG	GAMMA-CHLORDANE /2
250UJ	UG/KG	TOXAPHENE
49UJ	UG/KG	PCB-1016 (AROCLOR 1016)
99UJ	UG/KG	PCB-1221 (AROCLOR 1221)
49UJ	UG/KG	PCB-1232 (AROCLOR 1232)
49UJ	UG/KG	PCB-1242 (AROCLOR 1242)
49UJ	UG/KG	PCB-1248 (AROCLOR 1248)
49UJ	UG/KG	PCB-1254 (AROCLOR 1254)
49UJ	UG/KG	PCB-1260 (AROCLOR 1260)
32	%	% MOISTURE

EXCESSIVE HOLDING TIME

A-average value, NA-not analyzed. NAI-interferences. J-estimated value, N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms; 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5931 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC003SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA0 Inorg Contractor: SENTIN

D No: 1CA0 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 12:00

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.7UJ	UG/KG	ALPHA-BHC
2.7UJ	UG/KG	BETA-BHC
2.7UJ	UG/KG	DELTA-BHC
2.7UJ	UG/KG	GAMMA-BHC (LINDANE)
2.7UJ	UG/KG	HEPTACHLOR
2.7UJ	UG/KG	ALDRIN
2.7UJ	UG/KG	HEPTACHLOR EPOXIDE
2.7UJ	UG/KG	ENDOSULFAN I (ALPHA)
6.1JN	UG/KG	DIELDRIN
5.2UJ	UG/KG	4,4'-DDE (P,P'-DDE)
5.2UJ	UG/KG	ENDRIN
5.2UJ	UG/KG	ENDOSULFAN II (BETA)
6.9UJ	UG/KG	4,4'-DDD (P,P'-DDD)
6,4UJ	UG/KG	ENDOSULFAN SULFATE
14UJ	UG/KG	4,4'-DDT (P,P'-DDT)
27UJ	UG/KG	METHOXYCHLOR
5.2UJ	UG/KG	ENDRIN KETONE
5.2UJ	UG/KG	ENDRIN ALDEHYDE
29NJ	UG/KG	ALPHA-CHLORDANE /2
26J	UG/KG	GAMMA-CHLORDANE /2
270UJ	UG/KG	TOXAPHENE
52UJ	UG/KG	PCB-1016 (AROCLOR 1016)
100UJ	UG/KG	PCB-1221 (AROCLOR 1221)
52UJ	UG/KG	PCB-1232 (AROCLOR 1232)
52UJ	UG/KG	PCB-1242 (AROCLOR 1242)
52UJ	UG/KG	PCB-1248 (AROCLOR 1248)
52UJ	UG/KG	PCB-1254 (AROCLOR 1254)
52UJ	UG/KG	PCB-1260 (AROCLOR 1260)
36	%	% MOISTURE

EXCESSIVE HOLDING TIME

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present, resampling and reanalysis is necessary for verification.
X-confirmed by gcms; 1 when no value is reported, see chlordane constituents 2,constituents or metabolites of technical chlordane

4687

PESTICIDES/PCB SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5932 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC003SF /

Media: SURFACE SOIL (0" - 12")

Case No: 30588

MD No: 1CA1

D No: 1CA1

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:15

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.9UJ	UG/KG	ALPHA-BHC
1.9UJ	UG/KG	BETA-BHC
1.9UJ	UG/KG	DELTA-BHC
1.9UJ	UG/KG	GAMMA-BHC (LINDANE)
1.9UJ	UG/KG	HEPTACHLOR
1.9UJ	UG/KG	ALDRIN
1.9UJ	UG/KG	HEPTACHLOR EPOXIDE
1.9UJ	UG/KG	ENDOSULFAN I (ALPHA)
3.8UJ	UG/KG	DIELDRIN
9.9UJ	UG/KG	4,4'-DDE (P,P'-DDE)
130UJ	UG/KG	ENDRIN
180NJ	UG/KG	ENDOSULFAN II (BETA)
240J	UG/KG	4,4'-DDD (P,P'-DDD)
250JN	UG/KG	ENDOSULFAN SULFATE
170J	UG/KG	4,4'-DDT (P,P'-DDT)
19UJ	UG/KG	METHOXYCHLOR
58UJ	UG/KG	ENDRIN KETONE
270J	UG/KG	ENDRIN ALDEHYDE
1.9UJ	UG/KG	ALPHA-CHLORDANE /2
480NJ	UG/KG	GAMMA-CHLORDANE /2
190UJ	UG/KG	TOXAPHENE
38UJ	UG/KG	PCB-1016 (AROCLOR 1016)
76UJ	UG/KG	PCB-1221 (AROCLOR 1221)
38UJ	UG/KG	PCB-1232 (AROCLOR 1232)
38UJ	UG/KG	PCB-1242 (AROCLOR 1242)
38UJ	UG/KG	PCB-1248 (AROCLOR 1248)
38UJ	UG/KG	PCB-1254 (AROCLOR 1254)
38UJ	UG/KG	PCB-1260 (AROCLOR 1260)
12	%	% MOISTURE

EXCESSIVE HOLDING TIME

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

4688

PESTICIDE/PCB SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 07/24/2002 08:14

Sample 5933 FY 2002 Project: 02-0753
PESTICIDES SCAN
Facility: Turkey Creek — Sumter, SC
Program: SF
Id/Station: TC003SW /
Media: SURFACE WATER
Case No: 30588
MD No: 1CA2
D No: 1CA2
Inorg Contractor: SENTIN
Org Contractor: LIBRTY
Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 11:00
Ending:

RESULTS	UNITS	ANALYTE
0.050U	UG/L	ALPHA-BHC
0.050U	UG/L	BETA-BHC
0.050U	UG/L	DELTA-BHC
0.050U	UG/L	GAMMA-BHC (LINDANE)
0.050U	UG/L	HEPTACHLOR
0.050U	UG/L	ALDRIN
0.050U	UG/L	HEPTACHLOR EPOXIDE
0.050U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDOSULFAN SULFATE
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE
0.10U	UG/L	ENDRIN ALDEHYDE
0.050U	UG/L	ALPHA-CHLORDANE /2
0.050U	UG/L	GAMMA-CHLORDANE /2
5.0U	UG/L	TOXAPHENE
1.0U	UG/L	PCB-1016 (AROCLOR 1016)
2.0U	UG/L	PCB-1221 (AROCLOR 1221)
1.0U	UG/L	PCB-1232 (AROCLOR 1232)
1.0U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5934 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC004SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA3 Inorg Contractor: SENTIN

D No: 1CA3 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:30

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.2UJ	UG/KG	ALPHA-BHC
2.2UJ	UG/KG	BETA-BHC
2.2UJ	UG/KG	DELTA-BHC
2.2UJ	UG/KG	GAMMA-BHC (LINDANE)
2.2UJ	UG/KG	HEPTACHLOR
2.2UJ	UG/KG	ALDRIN
2.2UJ	UG/KG	HEPTACHLOR EPOXIDE
2.2UJ	UG/KG	ENDOSULFAN I (ALPHA)
4.2UJ	UG/KG	DIELDRIN
4.2UJ	UG/KG	4,4'-DDE (P,P'-DDE)
4.2UJ	UG/KG	ENDRIN
4.2UJ	UG/KG	ENDOSULFAN II (BETA)
9.1J	UG/KG	4,4'-DDD (P,P'-DDD)
4.2UJ	UG/KG	ENDOSULFAN SULFATE
4.2UJ	UG/KG	4,4'-DDT (P,P'-DDT)
22UJ	UG/KG	METHOXYCHLOR
4.2UJ	UG/KG	ENDRIN KETONE
4.2UJ	UG/KG	ENDRIN ALDEHYDE
6.0NJ	UG/KG	ALPHA-CHLORDANE /2
4.9J	UG/KG	GAMMA-CHLORDANE /2
220UJ	UG/KG	TOXAPHENE
42UJ	UG/KG	PCB-1016 (AROCLOR 1016)
85UJ	UG/KG	PCB-1221 (AROCLOR 1221)
42UJ	UG/KG	PCB-1232 (AROCLOR 1232)
42UJ	UG/KG	PCB-1242 (AROCLOR 1242)
42UJ	UG/KG	PCB-1248 (AROCLOR 1248)
42UJ	UG/KG	PCB-1254 (AROCLOR 1254)
42UJ	UG/KG	PCB-1260 (AROCLOR 1260)
21	%	% MOISTURE

EXCESSIVE HOLDING TIME

A-average value, NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms. 1:when no value is reported, see chlordane constituents, 2:constituents or metabolites of technical chlordane

PESTICIDE/PCB SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5935 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC004SF /

Media: SURFACE SOIL (0" - 12")

Case No: 30588

MD No: 1CA4

D No: 1CA4

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.7UJ	UG/KG	ALPHA-BHC
1.7UJ	UG/KG	BETA-BHC
1.7UJ	UG/KG	DELTA-BHC
1.7UJ	UG/KG	GAMMA-BHC (LINDANE)
1.7UJ	UG/KG	HEPTACHLOR
1.7UJ	UG/KG	ALDRIN
1.7UJ	UG/KG	HEPTACHLOR EPOXIDE
1.7UJ	UG/KG	ENDOSULFAN I (ALPHA)
5.6UJ	UG/KG	DIELDRIN
6.3J	UG/KG	4,4'-DDE (P,P'-DDE)
3.4UJ	UG/KG	ENDRIN
3.4UJ	UG/KG	ENDOSULFAN II (BETA)
30J	UG/KG	4,4'-DDD (P,P'-DDD)
3.5UJ	UG/KG	ENDOSULFAN SULFATE
4.5UJ	UG/KG	4,4'-DDT (P,P'-DDT)
17UJ	UG/KG	METHOXYCHLOR
3.4UJ	UG/KG	ENDRIN KETONE
3.4UJ	UG/KG	ENDRIN ALDEHYDE
17NJ	UG/KG	ALPHA-CHLORDANE /2
17J	UG/KG	GAMMA-CHLORDANE /2
170UJ	UG/KG	TOXAPHENE
34UJ	UG/KG	PCB-1016 (AROCLOR 1016)
68UJ	UG/KG	PCB-1221 (AROCLOR 1221)
34UJ	UG/KG	PCB-1232 (AROCLOR 1232)
34UJ	UG/KG	PCB-1242 (AROCLOR 1242)
34UJ	UG/KG	PCB-1248 (AROCLOR 1248)
34UJ	UG/KG	PCB-1254 (AROCLOR 1254)
34UJ	UG/KG	PCB-1260 (AROCLOR 1260)
2	%	% MOISTURE

EXCESSIVE HOLDING TIME

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
U-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
Y-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — **Production Date: 07/24/2002 08:14**

Sample 5936 FY 2002 Project: 02-0753
PESTICIDES SCAN
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC005SD /
Media: SEDIMENT
Case No: 30588
MD No: 1CA5
D No: 1CA5
Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.6UJ	UG/KG	ALPHA-BHC
2.6UJ	UG/KG	BETA-BHC
2.6UJ	UG/KG	DELTA-BHC
2.6UJ	UG/KG	GAMMA-BHC (LINDANE)
2.6UJ	UG/KG	HEPTACHLOR
2.6UJ	UG/KG	ALDRIN
2.6UJ	UG/KG	HEPTACHLOR EPOXIDE
2.6UJ	UG/KG	ENDOSULFAN I (ALPHA)
5.1UJ	UG/KG	DIELDRIN
4.7J	UG/KG	4,4'-DDE (P,P'-DDE)
5.1UJ	UG/KG	ENDRIN
5.1UJ	UG/KG	ENDOSULFAN II (BETA)
25J	UG/KG	4,4'-DDD (P,P'-DDD)
5.1UJ	UG/KG	ENDOSULFAN SULFATE
6.2UJ	UG/KG	4,4'-DDT (P,P'-DDT)
26UJ	UG/KG	METHOXYCHLOR
5.1UJ	UG/KG	ENDRIN KETONE
5.1UJ	UG/KG	ENDRIN ALDEHYDE
12NJ	UG/KG	ALPHA-CHLORDANE /2
12J	UG/KG	GAMMA-CHLORDANE /2
260UJ	UG/KG	TOXAPHENE
51UJ	UG/KG	PCB-1016 (AROCLOR 1016)
100UJ	UG/KG	PCB-1221 (AROCLOR 1221)
51UJ	UG/KG	PCB-1232 (AROCLOR 1232)
51UJ	UG/KG	PCB-1242 (AROCLOR 1242)
51UJ	UG/KG	PCB-1248 (AROCLOR 1248)
51UJ	UG/KG	PCB-1254 (AROCLOR 1254)
51UJ	UG/KG	PCB-1260 (AROCLOR 1260)
35	%	% MOISTURE

EXCESSIVE HOLDING TIME

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected; the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — **Production Date: 07/24/2002 08:14**

Sample 5937 FY 2002 Project: 02-0753
PESTICIDES SCAN
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC005SF /
Media: SURFACE SOIL (0" - 12")
Case No: 30588
MD No: 1CA6
D No: 1CA6
Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:00
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1.8UJ	UG/KG	ALPHA-BHC
1.8UJ	UG/KG	BETA-BHC
1.8UJ	UG/KG	DELTA-BHC
1.8UJ	UG/KG	GAMMA-BHC (LINDANE)
1.8UJ	UG/KG	HEPTACHLOR
1.8UJ	UG/KG	ALDRIN
1.8UJ	UG/KG	HEPTACHLOR EPOXIDE
1.8UJ	UG/KG	ENDOSULFAN I (ALPHA)
5.5NJ	UG/KG	DIELDRIN
9.9J	UG/KG	4,4'-DDE (P,P'-DDE)
3.6UJ	UG/KG	ENDRIN
3.6UJ	UG/KG	ENDOSULFAN II (BETA)
27J	UG/KG	4,4'-DDD (P,P'-DDD)
4.4UJ	UG/KG	ENDOSULFAN SULFATE
7.7UJ	UG/KG	4,4'-DDT (P,P'-DDT)
18UJ	UG/KG	METHOXYCHLOR
3.6UJ	UG/KG	ENDRIN KETONE
3.6UJ	UG/KG	ENDRIN ALDEHYDE
18UJ	UG/KG	ALPHA-CHLORDANE /2
16J	UG/KG	GAMMA-CHLORDANE /2
180UJ	UG/KG	TOXAPHENE
36UJ	UG/KG	PCB-1016 (AROCLOR 1016)
73UJ	UG/KG	PCB-1221 (AROCLOR 1221)
36UJ	UG/KG	PCB-1232 (AROCLOR 1232)
36UJ	UG/KG	PCB-1242 (AROCLOR 1242)
36UJ	UG/KG	PCB-1248 (AROCLOR 1248)
36UJ	UG/KG	PCB-1254 (AROCLOR 1254)
36UJ	UG/KG	PCB-1260 (AROCLOR 1260)
8	%	% MOISTURE

A-average value, NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — **Production Date: 07/24/2002 08:14**

Sample 5938 FY 2002 Project: 02-0753
PESTICIDES SCAN
Facility: Turkey Creek — Sumter, SC
Program: SF
Id/Station: TC007SD /
Media: SEDIMENT
Case No: 30588
MD No: 1CA7
D No: 1CA7
Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 11:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.1UJ	UG/KG	ALPHA-BHC
2.1UJ	UG/KG	BETA-BHC
2.1UJ	UG/KG	DELTA-BHC
2.1UJ	UG/KG	GAMMA-BHC (LINDANE)
2.1UJ	UG/KG	HEPTACHLOR
2.1UJ	UG/KG	ALDRIN
2.1UJ	UG/KG	HEPTACHLOR EPOXIDE
2.1UJ	UG/KG	ENDOSULFAN I (ALPHA)
4.1UJ	UG/KG	DIELDRIN
4.1UJ	UG/KG	4,4'-DDE (P,P'-DDE)
4.1UJ	UG/KG	ENDRIN
4.1UJ	UG/KG	ENDOSULFAN II (BETA)
4.1UJ	UG/KG	4,4'-DDD (P,P'-DDD)
4.1UJ	UG/KG	ENDOSULFAN SULFATE
4.1UJ	UG/KG	4,4'-DDT (P,P'-DDT)
21UJ	UG/KG	METHOXYCHLOR
4.1UJ	UG/KG	ENDRIN KETONE
4.1UJ	UG/KG	ENDRIN ALDEHYDE
2.1UJ	UG/KG	ALPHA-CHLORDANE /2
2.1UJ	UG/KG	GAMMA-CHLORDANE /2
210UJ	UG/KG	TOXAPHENE
41UJ	UG/KG	PCB-1016 (AROCLOR 1016)
83UJ	UG/KG	PCB-1221 (AROCLOR 1221)
41UJ	UG/KG	PCB-1232 (AROCLOR 1232)
41UJ	UG/KG	PCB-1242 (AROCLOR 1242)
41UJ	UG/KG	PCB-1248 (AROCLOR 1248)
41UJ	UG/KG	PCB-1254 (AROCLOR 1254)
41UJ	UG/KG	PCB-1260 (AROCLOR 1260)
19	%	% MOISTURE

EXCESSIVE HOLDING TIME

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
C-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDE OD SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5939 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC008SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA8

D No: 1CA8

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:55

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.5UJ	UG/KG	ALPHA-BHC
2.5UJ	UG/KG	BETA-BHC
2.5UJ	UG/KG	DELTA-BHC
2.5UJ	UG/KG	GAMMA-BHC (LINDANE)
2.5UJ	UG/KG	HEPTACHLOR
2.5UJ	UG/KG	ALDRIN
2.5UJ	UG/KG	HEPTACHLOR EPOXIDE
2.5UJ	UG/KG	ENDOSULFAN I (ALPHA)
4.9UJ	UG/KG	DIELDRIN
33NJ	UG/KG	4,4'-DDE (P,P'-DDE)
4.9UJ	UG/KG	ENDRIN
4.9UJ	UG/KG	ENDOSULFAN II (BETA)
38J	UG/KG	4,4'-DDD (P,P'-DDD)
9.1UJ	UG/KG	ENDOSULFAN SULFATE
4.9UJ	UG/KG	4,4'-DDT (P,P'-DDT)
25UJ	UG/KG	METHOXYCHLOR
4.9UJ	UG/KG	ENDRIN KETONE
4.9UJ	UG/KG	ENDRIN ALDEHYDE
15NJ	UG/KG	ALPHA-CHLORDANE /2
14J	UG/KG	GAMMA-CHLORDANE /2
250UJ	UG/KG	TOXAPHENE
49UJ	UG/KG	PCB-1016 (AROCLOR 1016)
99UJ	UG/KG	PCB-1221 (AROCLOR 1221)
49UJ	UG/KG	PCB-1232 (AROCLOR 1232)
49UJ	UG/KG	PCB-1242 (AROCLOR 1242)
49UJ	UG/KG	PCB-1248 (AROCLOR 1248)
49UJ	UG/KG	PCB-1254 (AROCLOR 1254)
49UJ	UG/KG	PCB-1260 (AROCLOR 1260)
32	%	% MOISTURE

EXCESSIVE HOLDING TIME

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
X-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5940 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC009SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA9 Inorg Contractor: SENTIN

D No: 1CA9 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.4UJ	UG/KG	ALPHA-BHC
2.4UJ	UG/KG	BETA-BHC
2.4UJ	UG/KG	DELTA-BHC
2.4UJ	UG/KG	GAMMA-BHC (LINDANE)
2.4UJ	UG/KG	HEPTACHLOR
2.4UJ	UG/KG	ALDRIN
2.4UJ	UG/KG	HEPTACHLOR EPOXIDE
2.4UJ	UG/KG	ENDOSULFAN I (ALPHA)
4.6UJ	UG/KG	DIELDRIN
6.7NJ	UG/KG	4,4'-DDE (P,P'-DDE)
4.6UJ	UG/KG	ENDRIN
4.6UJ	UG/KG	ENDOSULFAN II (BETA)
4.7J	UG/KG	4,4'-DDD (P,P'-DDD)
4.6UJ	UG/KG	ENDOSULFAN SULFATE
4.6UJ	UG/KG	4,4'-DDT (P,P'-DDT)
24UJ	UG/KG	METHOXYCHLOR
4.6UJ	UG/KG	ENDRIN KETONE
4.6UJ	UG/KG	ENDRIN ALDEHYDE
2.4UJ	UG/KG	ALPHA-CHLORDANE /2
2.4UJ	UG/KG	GAMMA-CHLORDANE /2
240UJ	UG/KG	TOXAPHENE
46UJ	UG/KG	PCB-1016 (AROCLOR 1016)
93UJ	UG/KG	PCB-1221 (AROCLOR 1221)
46UJ	UG/KG	PCB-1232 (AROCLOR 1232)
46UJ	UG/KG	PCB-1242 (AROCLOR 1242)
46UJ	UG/KG	PCB-1248 (AROCLOR 1248)
46UJ	UG/KG	PCB-1254 (AROCLOR 1254)
46UJ	UG/KG	PCB-1260 (AROCLOR 1260)
28	%	% MOISTURE

EXCESSIVE HOLDING TIME.

-average value; NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — **Production Date: 07/24/2002 08:14**

Sample 5941 FY 2002 Project: 02-0753
PESTICIDES SCAN
Facility: Turkey Creek — Sumter, SC
Program: SF
Id/Station: TC009SW /
Media: SURFACE WATER
Case No: 30588
MD No: 1CB0
D No: 1CB0
Inorg Contractor: SENTIN
Org Contractor: LIBRTY
Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 16:40
Ending:

RESULTS	UNITS	ANALYTE
0.050U	UG/L	ALPHA-BHC
0.050U	UG/L	BETA-BHC
0.050U	UG/L	DELTA-BHC
0.050U	UG/L	GAMMA-BHC (LINDANE)
0.050U	UG/L	HEPTACHLOR
0.050U	UG/L	ALDRIN
0.050U	UG/L	HEPTACHLOR EPOXIDE
0.050U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDOSULFAN SULFATE
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE
0.10U	UG/L	ENDRIN ALDEHYDE
0.050U	UG/L	ALPHA-CHLORDANE /2
0.050U	UG/L	GAMMA-CHLORDANE /2
5.0U	UG/L	TOXAPHENE
1.0U	UG/L	PCB-1016 (AROCLOR 1016)
2.0U	UG/L	PCB-1221 (AROCLOR 1221)
1.0U	UG/L	PCB-1232 (AROCLOR 1232)
1.0U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. >-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
X-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
Y-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDE/PCB SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5942 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC010SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB1

D No: 1CB1

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:10

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.2UJ	UG/KG	ALPHA-BHC
2.2UJ	UG/KG	BETA-BHC
2.2UJ	UG/KG	DELTA-BHC
2.2UJ	UG/KG	GAMMA-BHC (LINDANE)
2.2UJ	UG/KG	HEPTACHLOR
2.2UJ	UG/KG	ALDRIN
2.2UJ	UG/KG	HEPTACHLOR EPOXIDE
2.2UJ	UG/KG	ENDOSULFAN I (ALPHA)
4.2UJ	UG/KG	DIELDRIN
4.2UJ	UG/KG	4,4'-DDE (P,P'-DDE)
4.2UJ	UG/KG	ENDRIN
4.2UJ	UG/KG	ENDOSULFAN II (BETA)
4.2UJ	UG/KG	4,4'-DDD (P,P'-DDD)
4.2UJ	UG/KG	ENDOSULFAN SULFATE
4.2UJ	UG/KG	4,4'-DDT (P,P'-DDT)
22UJ	UG/KG	METHOXYCHLOR
4.2UJ	UG/KG	ENDRIN KETONE
4.2UJ	UG/KG	ENDRIN ALDEHYDE
2.2UJ	UG/KG	ALPHA-CHLORDANE /2
2.2UJ	UG/KG	GAMMA-CHLORDANE /2
220UJ	UG/KG	TOXAPHENE
42UJ	UG/KG	PCB-1016 (AROCLOR 1016)
86UJ	UG/KG	PCB-1221 (AROCLOR 1221)
42UJ	UG/KG	PCB-1232 (AROCLOR 1232)
42UJ	UG/KG	PCB-1242 (AROCLOR 1242)
42UJ	UG/KG	PCB-1248 (AROCLOR 1248)
42UJ	UG/KG	PCB-1254 (AROCLOR 1254)
42UJ	UG/KG	PCB-1260 (AROCLOR 1260)
22	%	% MOISTURE

EXCESSIVE HOLDING TIME

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5943 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC010SW /

Media: SURFACE WATER

Case No: 30588

MD No: 1CB2

D No: 1CB2

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:05

Ending:

RESULTS	UNITS	ANALYTE
0.050U	UG/L	ALPHA-BHC
0.050U	UG/L	BETA-BHC
0.050U	UG/L	DELTA-BHC
0.050U	UG/L	GAMMA-BHC (LINDANE)
0.050U	UG/L	HEPTACHLOR
0.050U	UG/L	ALDRIN
0.050U	UG/L	HEPTACHLOR EPOXIDE
0.050U	UG/L	ENDOSULFAN I (ALPHA)
0.10U	UG/L	DIELDRIN
0.10U	UG/L	4,4'-DDE (P,P'-DDE)
0.10U	UG/L	ENDRIN
0.10U	UG/L	ENDOSULFAN II (BETA)
0.10U	UG/L	4,4'-DDD (P,P'-DDD)
0.10U	UG/L	ENDOSULFAN SULFATE
0.10U	UG/L	4,4'-DDT (P,P'-DDT)
0.50U	UG/L	METHOXYCHLOR
0.10U	UG/L	ENDRIN KETONE
0.10U	UG/L	ENDRIN ALDEHYDE
0.050U	UG/L	ALPHA-CHLORDANE /2
0.050U	UG/L	GAMMA-CHLORDANE /2
5.0U	UG/L	TOXAPHENE
1.0U	UG/L	PCB-1016 (AROCLOR 1016)
2.0U	UG/L	PCB-1221 (AROCLOR 1221)
1.0U	UG/L	PCB-1232 (AROCLOR 1232)
1.0U	UG/L	PCB-1242 (AROCLOR 1242)
1.0U	UG/L	PCB-1248 (AROCLOR 1248)
1.0U	UG/L	PCB-1254 (AROCLOR 1254)
1.0U	UG/L	PCB-1260 (AROCLOR 1260)

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
-confirmed by gcms; 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

PESTICIDE OC SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5944 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC011SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB3

D No: 1CB3

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 14:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
4.9UJ	UG/KG	ALPHA-BHC
4.9UJ	UG/KG	BETA-BHC
4.9UJ	UG/KG	DELTA-BHC
4.9UJ	UG/KG	GAMMA-BHC (LINDANE)
4.9UJ	UG/KG	HEPTACHLOR
4.9UJ	UG/KG	ALDRIN
4.9UJ	UG/KG	HEPTACHLOR EPOXIDE
4.9UJ	UG/KG	ENDOSULFAN I (ALPHA)
190J	UG/KG	DIELDRIN
480CJ	UG/KG	4,4'-DDE (P,P'-DDE)
9.4UJ	UG/KG	ENDRIN
9.4UJ	UG/KG	ENDOSULFAN II (BETA)
520CJ	UG/KG	4,4'-DDD (P,P'-DDD)
26J	UG/KG	ENDOSULFAN SULFATE
9.4UJ	UG/KG	4,4'-DDT (P,P'-DDT)
49UJ	UG/KG	METHOXYCHLOR
9.4UJ	UG/KG	ENDRIN KETONE
9.4UJ	UG/KG	ENDRIN ALDEHYDE
210NJ	UG/KG	ALPHA-CHLORDANE /2
170J	UG/KG	GAMMA-CHLORDANE /2
490UJ	UG/KG	TOXAPHENE
94UJ	UG/KG	PCB-1016 (AROCLOR 1016)
190UJ	UG/KG	PCB-1221 (AROCLOR 1221)
94UJ	UG/KG	PCB-1232 (AROCLOR 1232)
94UJ	UG/KG	PCB-1242 (AROCLOR 1242)
94UJ	UG/KG	PCB-1248 (AROCLOR 1248)
94UJ	UG/KG	PCB-1254 (AROCLOR 1254)
94UJ	UG/KG	PCB-1260 (AROCLOR 1260)
65	%	% MOISTURE

XCESSIVE HOLDING TIME

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

4700

PESTICIDES/PCB SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — **Production Date: 07/24/2002 08:14**

Sample 5945 FY 2002 Project: 02-0753
PESTICIDES SCAN
Facility: Turkey Creek — Sumter, SC
Program; SF
Id/Station: TC012SD /
Media: SEDIMENT
Case No: 30588
MD No: 1CB4
D No: 1CB4
Inorg Contractor: SENTIN
Org Contractor: LIBRTY
Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 14:40
Ending:
DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5.5UJ	UG/KG	ALPHA-BHC
5.5UJ	UG/KG	BETA-BHC
5.5UJ	UG/KG	DELTA-BHC
5.5UJ	UG/KG	GAMMA-BHC (LINDANE)
5.5UJ	UG/KG	HEPTACHLOR
5.5UJ	UG/KG	ALDRIN
5.5UJ	UG/KG	HEPTACHLOR EPOXIDE
5.5UJ	UG/KG	ENDOSULFAN I (ALPHA)
31NJ	UG/KG	DIELDRIN
98NJ	UG/KG	4,4'-DDE (P,P'-DDE)
13NJ	UG/KG	ENDRIN
11UJ	UG/KG	ENDOSULFAN II (BETA)
370CJ	UG/KG	4,4'-DDD (P,P'-DDD)
15NJ	UG/KG	ENDOSULFAN SULFATE
11UJ	UG/KG	4,4'-DDT (P,P'-DDT)
55UJ	UG/KG	METHOXYCHLOR
11UJ	UG/KG	ENDRIN KETONE
11UJ	UG/KG	ENDRIN ALDEHYDE
74UJ	UG/KG	ALPHA-CHLORDANE /2
130J	UG/KG	GAMMA-CHLORDANE /2
550UJ	UG/KG	TOXAPHENE
110UJ	UG/KG	PCB-1016 (AROCLOR 1016)
220UJ	UG/KG	PCB-1221 (AROCLOR 1221)
110UJ	UG/KG	PCB-1232 (AROCLOR 1232)
110UJ	UG/KG	PCB-1242 (AROCLOR 1242)
110UJ	UG/KG	PCB-1248 (AROCLOR 1248)
110UJ	UG/KG	PCB-1254 (AROCLOR 1254)
110UJ	UG/KG	PCB-1260 (AROCLOR 1260)
69	%	% MOISTURE

EXCESSIVE HOLDING TIME

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
Y-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

4701

PESTICIDE/PCB SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5946 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC013SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB5

D No: 1CB5

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.9UJ	UG/KG	ALPHA-BHC
2.9UJ	UG/KG	BETA-BHC
2.9UJ	UG/KG	DELTA-BHC
2.9UJ	UG/KG	GAMMA-BHC (LINDANE)
20UJ	UG/KG	HEPTACHLOR
2.9UJ	UG/KG	ALDRIN
2.9UJ	UG/KG	HEPTACHLOR EPOXIDE
2.9UJ	UG/KG	ENDOSULFAN I (ALPHA)
51UJ	UG/KG	DIELDRIN
200J	UG/KG	4,4'-DDE (P,P'-DDE)
18UJ	UG/KG	ENDRIN
5.7UJ	UG/KG	ENDOSULFAN II (BETA)
300J	UG/KG	4,4'-DDD (P,P'-DDD)
25NJ	UG/KG	ENDOSULFAN SULFATE
34UJ	UG/KG	4,4'-DDT (P,P'-DDT)
31UJ	UG/KG	METHOXYCHLOR
27UJ	UG/KG	ENDRIN KETONE
7.4NJ	UG/KG	ENDRIN ALDEHYDE
82NJ	UG/KG	ALPHA-CHLORDANE /2
83NJ	UG/KG	GAMMA-CHLORDANE /2
290UJ	UG/KG	TOXAPHENE
57UJ	UG/KG	PCB-1016 (AROCLOR 1016)
120UJ	UG/KG	PCB-1221 (AROCLOR 1221)
57UJ	UG/KG	PCB-1232 (AROCLOR 1232)
57UJ	UG/KG	PCB-1242 (AROCLOR 1242)
57UJ	UG/KG	PCB-1248 (AROCLOR 1248)
57UJ	UG/KG	PCB-1254 (AROCLOR 1254)
57UJ	UG/KG	PCB-1260 (AROCLOR 1260)
42	%	% MOISTURE

EXCESSIVE HOLDING TIME

-average value. NA-not analyzed. NAI-interferences. J-estimated value, N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present.. resampling and reanalysis is necessary for verification.
-confirmed by gcms: 1.when no value is reported, see chlordane constituents. 2.constituents or metabolites of technical chlordane

PESTICIDES/PCB SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5947 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC014SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB6

D No: 1CB6

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:50

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10UJ	UG/KG	ALPHA-BHC
4.1UJ	UG/KG	BETA-BHC
4.1UJ	UG/KG	DELTA-BHC
4.1UJ	UG/KG	GAMMA-BHC (LINDANE)
17UJ	UG/KG	HEPTACHLOR
4.1UJ	UG/KG	ALDRIN
4.1UJ	UG/KG	HEPTACHLOR EPOXIDE
4.1UJ	UG/KG	ENDOSULFAN I (ALPHA)
10UJ	UG/KG	DIELDRIN
89NJ	UG/KG	4,4'-DDE (P,P'-DDE)
15UJ	UG/KG	ENDRIN
8.0UJ	UG/KG	ENDOSULFAN II (BETA)
150NJ	UG/KG	4,4'-DDD (P,P'-DDD)
39NJ	UG/KG	ENDOSULFAN SULFATE
8.0UJ	UG/KG	4,4'-DDT (P,P'-DDT)
41UJ	UG/KG	METHOXYCHLOR
35NJ	UG/KG	ENDRIN KETONE
58J	UG/KG	ENDRIN ALDEHYDE
8.5NJ	UG/KG	ALPHA-CHLORDANE /2
41NJ	UG/KG	GAMMA-CHLORDANE /2
410UJ	UG/KG	TOXAPHENE
80UJ	UG/KG	PCB-1016 (AROCLOR 1016)
160UJ	UG/KG	PCB-1221 (AROCLOR 1221)
80UJ	UG/KG	PCB-1232 (AROCLOR 1232)
80UJ	UG/KG	PCB-1242 (AROCLOR 1242)
80UJ	UG/KG	PCB-1248 (AROCLOR 1248)
80UJ	UG/KG	PCB-1254 (AROCLOR 1254)
80UJ	UG/KG	PCB-1260 (AROCLOR 1260)
59	%	% MOISTURE

XCESSIVE HOLDING TIME

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chlordane

Sample 5948 FY 2002 Project: 02-0753 **Production Date: 07/24/2002 08:14**

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC015SD /
Media: SEDIMENT

Case No: 30588
MD No: 1CB7
D No: 1CB7

Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 16:00
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
3.1UJ	UG/KG	ALPHA-BHC
3.1UJ	UG/KG	BETA-BHC
3.1UJ	UG/KG	DELTA-BHC
3.1UJ	UG/KG	GAMMA-BHC (LINDANE)
9.5UJ	UG/KG	HEPTACHLOR
3.1UJ	UG/KG	ALDRIN
3.1UJ	UG/KG	HEPTACHLOR EPOXIDE
3.1UJ	UG/KG	ENDOSULFAN I (ALPHA)
6.1UJ	UG/KG	DIELDRIN
22UJ	UG/KG	4,4'-DDE (P,P'-DDE)
15UJ	UG/KG	ENDRIN
6.1UJ	UG/KG	ENDOSULFAN II (BETA)
18NJ	UG/KG	4,4'-DDD (P,P'-DDD)
6.1UJ	UG/KG	ENDOSULFAN SULFATE
21UJ	UG/KG	4,4'-DDT (P,P'-DDT)
91UJ	UG/KG	METHOXYCHLOR
56NJ	UG/KG	ENDRIN KETONE
41NJ	UG/KG	ENDRIN ALDEHYDE
3.2UJ	UG/KG	ALPHA-CHLORDANE /2
120J	UG/KG	GAMMA-CHLORDANE /2
310UJ	UG/KG	TOXAPHENE
61UJ	UG/KG	PCB-1016 (AROCLOR 1016)
120UJ	UG/KG	PCB-1221 (AROCLOR 1221)
61UJ	UG/KG	PCB-1232 (AROCLOR 1232)
61UJ	UG/KG	PCB-1242 (AROCLOR 1242)
61UJ	UG/KG	PCB-1248 (AROCLOR 1248)
61UJ	UG/KG	PCB-1254 (AROCLOR 1254)
61UJ	UG/KG	PCB-1260 (AROCLOR 1260)
46	%	% MOISTURE

:XCESSIVE HOLDING TIME

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
-confirmed by gcms: 1.when no value is reported, see chlordane constituents 2.constituents or metabolites of technical chloidane

PESTICIDES/PCB SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5949 FY 2002 Project: 02-0753

PESTICIDES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC016SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB8

D No: 1CB8

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:30

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2.9UJ	UG/KG	ALPHA-BHC
2.9UJ	UG/KG	BETA-BHC
2.9UJ	UG/KG	DELTA-BHC
2.9UJ	UG/KG	GAMMA-BHC (LINDANE)
2.9UJ	UG/KG	HEPTACHLOR
2.9UJ	UG/KG	ALDRIN
2.9UJ	UG/KG	HEPTACHLOR EPOXIDE
2.9UJ	UG/KG	ENDOSULFAN I (ALPHA)
5.6UJ	UG/KG	DIELDRIN
5.8UJ	UG/KG	4,4'-DDE (P,P'-DDE)
5.6UJ	UG/KG	ENDRIN
5.6UJ	UG/KG	ENDOSULFAN II (BETA)
5.6UJ	UG/KG	4,4'-DDD (P,P'-DDD)
5.6UJ	UG/KG	ENDOSULFAN SULFATE
5.6UJ	UG/KG	4,4'-DDT (P,P'-DDT)
29UJ	UG/KG	METHOXYCHLOR
5.6UJ	UG/KG	ENDRIN KETONE
5.6UJ	UG/KG	ENDRIN ALDEHYDE
4.1UJ	UG/KG	ALPHA-CHLORDANE /2
10J	UG/KG	GAMMA-CHLORDANE /2
290UJ	UG/KG	TOXAPHENE
56UJ	UG/KG	PCB-1016 (AROCLOR 1016)
110UJ	UG/KG	PCB-1221 (AROCLOR 1221)
56UJ	UG/KG	PCB-1232 (AROCLOR 1232)
56UJ	UG/KG	PCB-1242 (AROCLOR 1242)
56UJ	UG/KG	PCB-1248 (AROCLOR 1248)
56UJ	UG/KG	PCB-1254 (AROCLOR 1254)
56UJ	UG/KG	PCB-1260 (AROCLOR 1260)
41	%	% MOISTURE

EXCESSIVE HOLDING TIME

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.
-confirmed by gcms: 1 when no value is reported, see chlordane constituents 2 constituents or metabolites of technical chlordane

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

MEMORANDUM

RECEIVED
JUL 2 6 2002
DIVISION OF SITE
ASSESSMENT & REMEDIATION

Date: 07/24/2002

Subject: Results of VOLATILES Sample Analysis
02-0753 Turkey Creek
Sumter, SC

From: McConney, John

To: Tanner, Terry

CC: Jonathan McInnis
SCDHEC

Thru: QA Office

Attached are the results of analysis of samples collected as part of the subject project. If you have any questions, please contact me.

ATTACHMENT

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
VOA			
5928,5930-5932, 5934-5940,5942, 5944-5950	dichlorodifluoromethane, chloromethane, vinyl chloride, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, 1,2-dibromo-3-chloropropane	J	erratic continuing calibration response factor
5931,5940	carbon disulfide	J	< quantitation limit
5939	carbon disulfide, benzene,	J	< quantitation limit
5945	methylcyclohexane	J	< quantitation limit
BNA			
5928,5930,5934-5938	hexachlorocyclopentadiene, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, di-n-octylphthalate, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	erratic continuing calibration response factor
5928	phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5929,5931,5933, 5939-5949	di-n-octylphthalate	J	erratic continuing calibration response factor
5930	4-chloro-3-methylphenol, acenaphthene, 2,4-dinitrotoluene, pentachlorophenol, phenanthrene, fluoranthene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5931	benzaldehyde, 4-methylphenol, acenaphthylene, acenaphthene, dibenzofuran, fluorene, anthracene, carbazole, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5932	hexachlorocyclopentadiene	J	erratic continuing calibration response factor

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
5932	2-methylnaphthalene, 1,1'-biphenyl, acenaphthene, dibenzofuran, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5934	acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, benzo(a)anthracene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5935	phenanthrene, anthracene, carbazole, benzo(a)anthracene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5936	benzaldehyde, 2,2'-oxybis(1-chloropropane), acenaphthylene, phenanthene, anthracene, carbazole, dibenzo(a,h)anthracene	J	< quantitation limit
5937	caprolactam, acenaphthylene, phenanthrene, anthracene, carbazole, dibenzo(a,h)anthracene	J	< quantitation limit
5938	fluoranthene, pyrene	J	< quantitation limit
5939	naphthalene, 2-methylnaphthalene, dibenzofuran, dibenzo(a,h)anthracene	J	< quantitation limit
5940	phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluroanthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benzo(g,h,i)perylene	J	< quantitation limit
5942	fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluroanthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene	J	< quantitation limit

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID: Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
5944	fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluroanthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benzo(g,h,i)perylene	J	< quantitation limit
5945	fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluroanthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene	J	< quantitation limit
5946	acenaphthylene, phenanthrene, anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5947	acenaphthylene, acenaphthene, fluorene, anthracene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5948	phenanthrene, anthracene, dibenzo(a,h)anthracene	J	< quantitation limit
5949	benzaldehyde, acetophenone, phenanthrene, anthracene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
PEST			
5928,5930-5932, 5934-5940,5942, 5944-5949	all compounds	J	exceeded holding times
5928	4,4'-DDD	J,N	< quantitation limit, difference in columns
5931	dieldrin, alpha-chlordane, gamma-chlordane	J	high surrogate recovery
5931	dieldrin, alpha-chlordane	N	difference in columns
5932	endosulfan sulfate, 4,4'-DDT, endrin aldehyde	J	high surrogate recovery, outside calibration range

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
5932	endosulfan II, endosulfan sulfate, gamma-chlordane	N	difference in columns
5934	alpha-chlordane	N	difference in columns
5935,5936,5939	4,4'-DDE, 4,4'-DDD, alpha-chlordane, gamma-chlordane	J	high surrogate recovery
5935,5936	alpha-chlordane	N	difference in columns
5936	4,4'-DDE	J	< quantitation limit
5937	dieldrin, 4,4'-DDE, 4,4'-DDD, gamma-chlordane	J	high surrogate recovery
5937,5940	dieldrin	N	difference in columns
5939	4,4'-DDE, alpha-chlordane	N	difference in columns
5944	4,4'-DDE, 4,4'-DDD	C	GC/MS confirmed
5944	alpha-chlordane	N	difference in columns
5945	dieldrin, 4,4'-DDE, endrin, endosulfan sulfate	J,N	high surrogate recovery, difference in columns
5945	4,4'-DDD	C	GC/MS confirmed
5946	endosulfan sulfate, endrin aldehyde	J	high surrogate recovery
5946	endosulfan sulfate, endrin aldehyde, alpha-chlordane, gamma-chlordane	N	difference in columns
5947	4,4'-DDE, endosulfan sulfate, endrin ketone, endrin aldehyde, alpha-chlordane, gamma-chlordane	J	high surrogate recovery
5947	4,4'-DDE, endosulfan sulfate, endrin ketone, alpha-chlordane, gamma-chlordane	N	difference in columns
5948	4,4'-DDD, endrin ketone, endrin aldehyde, gamma-chlordane	J	high surrogate recovery
948	4,4'-DDD, endrin ketone, endrin aldehyde	N	difference in columns

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
5948	gamma-chlordane	J	out of calibration range
5949	gamma-chlordane	J	high surrogate recovery

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5928 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC001SD /

Media: SEDIMENT

Case No: 30588

MD No: 1C97 Inorg Contractor: SENTIN

D No: 1C97 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:00

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10UJ	UG/KG	DICHLORODIFLUOROMETHANE
10UJ	UG/KG	CHLOROMETHANE
10UJ	UG/KG	VINYL CHLORIDE
10U	UG/KG	BROMOMETHANE
10U	UG/KG	CHLOROETHANE
10U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
10U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
10U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
10U	UG/KG	ACETONE
10U	UG/KG	CARBON DISULFIDE
10U	UG/KG	METHYL ACETATE
10U	UG/KG	METHYLENE CHLORIDE
10U	UG/KG	TRANS-1,2-DICHLOROETHENE
10U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
10U	UG/KG	1,1-DICHLOROETHANE
10U	UG/KG	CIS-1,2-DICHLOROETHENE
10UJ	UG/KG	METHYL ETHYL KETONE
10U	UG/KG	CHLOROFORM
10U	UG/KG	1,1,1-TRICHLOROETHANE
10U	UG/KG	CYCLOHEXANE
10U	UG/KG	CARBON TETRACHLORIDE
10U	UG/KG	BENZENE
10U	UG/KG	1,2-DICHLOROETHANE
10U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	UG/KG	METHYLCYCLOHEXANE
10U	UG/KG	1,2-DICHLOROPROPANE
10U	UG/KG	BROMODICHLOROMETHANE
10U	UG/KG	CIS-1,3-DICHLOROPROPENE
10UJ	UG/KG	METHYL ISOBUTYL KETONE
10U	UG/KG	TOLUENE
10U	UG/KG	TRANS-1,3-DICHLOROPROPENE
10U	UG/KG	1,1,2-TRICHLOROETHANE
10U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10UJ	UG/KG	METHYL BUTYL KETONE
10U	UG/KG	DIBROMOCHLOROMETHANE
10U	UG/KG	1,2-DIBROMOETHANE (EDB)
10U	UG/KG	CHLOROBENZENE
10U	UG/KG	ETHYL BENZENE
10U	UG/KG	TOTAL XYLENES
10U	UG/KG	STYRENE
10U	UG/KG	BROMOFORM
10U	UG/KG	ISOPROPYLBENZENE
10U	UG/KG	1,1,2,2-TETRACHLOROETHANE
10U	UG/KG	1,3-DICHLOROBENZENE
10U	UG/KG	1,4-DICHLOROBENZENE
10U	UG/KG	1,2-DICHLOROBENZENE
10UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
10U	UG/KG	1,2,4-TRICHLOROBENZENE
16	%	% MOISTURE

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5930 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC002SD /

Media: SEDIMENT

Case No: 30588

MD No: 1C99

D No: 1C99

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:25

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10UJ	UG/KG	DICHLORODIFLUOROMETHANE
10UJ	UG/KG	CHLOROMETHANE
10UJ	UG/KG	VINYL CHLORIDE
10U	UG/KG	BROMOMETHANE
10U	UG/KG	CHLOROETHANE
10U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
10U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
10U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
13	UG/KG	ACETONE
10U	UG/KG	CARBON DISULFIDE
10U	UG/KG	METHYL ACETATE
10U	UG/KG	METHYLENE CHLORIDE
10U	UG/KG	TRANS-1,2-DICHLOROETHENE
10U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
10U	UG/KG	1,1-DICHLOROETHANE
10U	UG/KG	CIS-1,2-DICHLOROETHENE
10UJ	UG/KG	METHYL ETHYL KETONE
10U	UG/KG	CHLOROFORM
10U	UG/KG	1,1,1-TRICHLOROETHANE
10U	UG/KG	CYCLOHEXANE
10U	UG/KG	CARBON TETRACHLORIDE
10U	UG/KG	BENZENE
10U	UG/KG	1,2-DICHLOROETHANE
10U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	UG/KG	METHYLCYCLOHEXANE
10U	UG/KG	1,2-DICHLOROPROPANE
10U	UG/KG	BROMODICHLOROMETHANE
10U	UG/KG	CIS-1,3-DICHLOROPROPENE
10UJ	UG/KG	METHYL ISOBUTYL KETONE
10U	UG/KG	TOLUENE
10U	UG/KG	TRANS-1,3-DICHLOROPROPENE
10U	UG/KG	1,1,2-TRICHLOROETHANE
10U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10UJ	UG/KG	METHYL BUTYL KETONE
10U	UG/KG	DIBROMOCHLOROMETHANE
10U	UG/KG	1,2-DIBROMOETHANE (EDB)
10U	UG/KG	CHLOROBENZENE
10U	UG/KG	ETHYL BENZENE
10U	UG/KG	TOTAL XYLENES
10U	UG/KG	STYRENE
10U	UG/KG	BROMOFORM
10U	UG/KG	ISOPROPYLBENZENE
10U	UG/KG	1,1,2,2-TETRACHLOROETHANE
10U	UG/KG	1,3-DICHLOROBENZENE
10U	UG/KG	1,4-DICHLOROBENZENE
10U	UG/KG	1,2-DICHLOROBENZENE
10UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
10U	UG/KG	1,2,4-TRICHLOROBENZENE
32	%	% MOISTURE

average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5931 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC003SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA0 Inorg Contractor: SENTIN

D No: 1CA0 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 12:00

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
11UJ	UG/KG	DICHLORODIFLUOROMETHANE
11UJ	UG/KG	CHLOROMETHANE
11UJ	UG/KG	VINYL CHLORIDE
11U	UG/KG	BROMOMETHANE
11U	UG/KG	CHLOROETHANE
11U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
11U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
11U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
120	UG/KG	ACETONE
9J	UG/KG	CARBON DISULFIDE
11U	UG/KG	METHYL ACETATE
11U	UG/KG	METHYLENE CHLORIDE
11U	UG/KG	TRANS-1,2-DICHLOROETHENE
11U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
11U	UG/KG	1,1-DICHLOROETHANE
11U	UG/KG	CIS-1,2-DICHLOROETHENE
11UJ	UG/KG	METHYL ETHYL KETONE
11U	UG/KG	CHLOROFORM
11U	UG/KG	1,1,1-TRICHLOROETHANE
11U	UG/KG	CYCLOHEXANE
11U	UG/KG	CARBON TETRACHLORIDE
11U	UG/KG	BENZENE
11U	UG/KG	1,2-DICHLOROETHANE
11U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
11U	UG/KG	METHYLCYCLOHEXANE
11U	UG/KG	1,2-DICHLOROPROPANE
11U	UG/KG	BROMODICHLOROMETHANE
11U	UG/KG	CIS-1,3-DICHLOROPROPENE
11UJ	UG/KG	METHYL ISOBUTYL KETONE
11U	UG/KG	TOLUENE
11U	UG/KG	TRANS-1,3-DICHLOROPROPENE
11U	UG/KG	1,1,2-TRICHLOROETHANE
11U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
11UJ	UG/KG	METHYL BUTYL KETONE
11U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
11U	UG/KG	1,2-DIBROMOETHANE (EDB)
11U	UG/KG	CHLOROBENZENE
11U	UG/KG	ETHYL BENZENE
11U	UG/KG	TOTAL XYLENES
11U	UG/KG	STYRENE
11U	UG/KG	BROMOFORM
11U	UG/KG	ISOPROPYLBENZENE
11U	UG/KG	1,1,2,2-TETRACHLOROETHANE
11U	UG/KG	1,3-DICHLOROBENZENE
11U	UG/KG	1,4-DICHLOROBENZENE
11U	UG/KG	1,2-DICHLOROBENZENE
11UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
11U	UG/KG	1,2,4-TRICHLOROBENZENE
36	%	% MOISTURE

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
:-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5931 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek
Program: SF
Id/Station: TC003SD /
Media: SEDIMENT

Sumter, SC
Case No: 30588
MD No: 1CA0
D No: 1CA0

Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 12:00
Ending:

RESULTS	UNITS	ANALYTE
210J	UG/KG	18 UNKNOWNS
12NJ	UG/KG	BUTANAL

)ATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5932 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC003SF /

Media: SURFACE SOIL (0" - 12")

Case No: 30588

MD No: 1CA1

D No: 1CA1

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:15

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10UJ	UG/KG	DICHLORODIFLUOROMETHANE
10UJ	UG/KG	CHLOROMETHANE
10UJ	UG/KG	VINYL CHLORIDE
10U	UG/KG	BROMOMETHANE
10U	UG/KG	CHLOROETHANE
10U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
10U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
10U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
39	UG/KG	ACETONE
10U	UG/KG	CARBON DISULFIDE
10U	UG/KG	METHYL ACETATE
10U	UG/KG	METHYLENE CHLORIDE
10U	UG/KG	TRANS-1,2-DICHLOROETHENE
10U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
10U	UG/KG	1,1-DICHLOROETHANE
10U	UG/KG	CIS-1,2-DICHLOROETHENE
10UJ	UG/KG	METHYL ETHYL KETONE
10U	UG/KG	CHLOROFORM
10U	UG/KG	1,1,1-TRICHLOROETHANE
10U	UG/KG	CYCLOHEXANE
10U	UG/KG	CARBON TETRACHLORIDE
10U	UG/KG	BENZENE
10U	UG/KG	1,2-DICHLOROETHANE
10U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	UG/KG	METHYLCYCLOHEXANE
10U	UG/KG	1,2-DICHLOROPROPANE
10U	UG/KG	BROMODICHLOROMETHANE
10U	UG/KG	CIS-1,3-DICHLOROPROPENE
10UJ	UG/KG	METHYL ISOBUTYL KETONE
10U	UG/KG	TOLUENE
10U	UG/KG	TRANS-1,3-DICHLOROPROPENE
10U	UG/KG	1,1,2-TRICHLOROETHANE
10U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10UJ	UG/KG	METHYL BUTYL KETONE
10U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
10U	UG/KG	1,2-DIBROMOETHANE (EDB)
10U	UG/KG	CHLOROBENZENE
10U	UG/KG	ETHYL BENZENE
10U	UG/KG	TOTAL XYLENES
10U	UG/KG	STYRENE
10U	UG/KG	BROMOFORM
10U	UG/KG	ISOPROPYLBENZENE
10U	UG/KG	1,1,2,2-TETRACHLOROETHANE
10U	UG/KG	1,3-DICHLOROBENZENE
10U	UG/KG	1,4-DICHLOROBENZENE
10U	UG/KG	1,2-DICHLOROBENZENE
10UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
10U	UG/KG	1,2,4-TRICHLOROBENZENE
12	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5932 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC003SF /

Media: SURFACE SOIL (0" - 12")

Case No: 30588

MD No: 1CA1

D No: 1CA1

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:15

Ending:

RESULTS	UNITS	ANALYTE
7NJ	UG/KG	AZULENE
10NJ	UG/KG	BENZO [B] THIOPHENE, 6-METHYL-
160NJ	UG/KG	NAPHTHALENE, 2-ETHENYL-
11NJ	UG/KG	NAPHTHALENE, 1-(2-PROPENYL)-
110JN	UG/KG	NAPHTHALENE, 1-ETHYL-(2 ISOMERS)

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable, compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample: 5934 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC004SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA3 Inorg Contractor: SENTIN

D No: 1CA3 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:30

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10UJ	UG/KG	DICHLORODIFLUOROMETHANE
10UJ	UG/KG	CHLOROMETHANE
10UJ	UG/KG	VINYL CHLORIDE
10U	UG/KG	BROMOMETHANE
10U	UG/KG	CHLOROETHANE
10U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
10U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
10U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
14J	UG/KG	ACETONE
10U	UG/KG	CARBON DISULFIDE
10U	UG/KG	METHYL ACETATE
10U	UG/KG	METHYLENE CHLORIDE
10U	UG/KG	TRANS-1,2-DICHLOROETHENE
10U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
10U	UG/KG	1,1-DICHLOROETHANE
10U	UG/KG	CIS-1,2-DICHLOROETHENE
10UJ	UG/KG	METHYL ETHYL KETONE
10U	UG/KG	CHLOROFORM
10U	UG/KG	1,1,1-TRICHLOROETHANE
10U	UG/KG	CYCLOHEXANE
10U	UG/KG	CARBON TETRACHLORIDE
10U	UG/KG	BENZENE
10U	UG/KG	1,2-DICHLOROETHANE
10U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	UG/KG	METHYLCYCLOHEXANE
10U	UG/KG	1,2-DICHLOROPROPANE
10U	UG/KG	BROMODICHLOROMETHANE
10U	UG/KG	CIS-1,3-DICHLOROPROPENE
10UJ	UG/KG	METHYL ISOBUTYL KETONE
10U	UG/KG	TOLUENE
10U	UG/KG	TRANS-1,3-DICHLOROPROPENE
10U	UG/KG	1,1,2-TRICHLOROETHANE
10U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10UJ	UG/KG	METHYL BUTYL KETONE
10U	UG/KG	DIBROMOCHLOROMETHANE
10U	UG/KG	1,2-DIBROMOETHANE (EDB)
10U	UG/KG	CHLOROBENZENE
10U	UG/KG	ETHYL BENZENE
10U	UG/KG	TOTAL XYLENES
10U	UG/KG	STYRENE
10U	UG/KG	BROMOFORM
10U	UG/KG	ISOPROPYLBENZENE
10U	UG/KG	1,1,2,2-TETRACHLOROETHANE
10U	UG/KG	1,3-DICHLOROBENZENE
10U	UG/KG	1,4-DICHLOROBENZENE
10U	UG/KG	1,2-DICHLOROBENZENE
10UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
10U	UG/KG	1,2,4-TRICHLOROBENZENE
21	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 5934 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC004SD /
Media: SEDIMENT
Case No: 30588
MD No: 1CA3
D No: 1CA3
Inorg Contractor: SENTIN
Org Contractor: LIBRTY
Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:30
Ending:

RESULTS	UNITS	ANALYTE
63J	UG/KG	6 UNKNOWN COMPOUNDS
18JN	UG/KG	2 SUBSTITUTED NAPHTHALENES
5NJ	UG/KG	NAPHTHALENE, 1,3-DIMETHYL-
6NJ	UG/KG	NAPHTHALENE, 1-METHYL-

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5935 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC004SF / MD No: 1CA4 Inorg Contractor: SENTIN

Media: SURFACE SOIL (0" - 12") D No: 1CA4 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10UJ	UG/KG	DICHLORODIFLUOROMETHANE
10UJ	UG/KG	CHLOROMETHANE
10UJ	UG/KG	VINYL CHLORIDE
10U	UG/KG	BROMOMETHANE
10U	UG/KG	CHLOROETHANE
10U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
10U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
10U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
91	UG/KG	ACETONE
10U	UG/KG	CARBON DISULFIDE
10U	UG/KG	METHYL ACETATE
10U	UG/KG	METHYLENE CHLORIDE
10U	UG/KG	TRANS-1,2-DICHLOROETHENE
10U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
10U	UG/KG	1,1-DICHLOROETHANE
10U	UG/KG	CIS-1,2-DICHLOROETHENE
12J	UG/KG	METHYL ETHYL KETONE
10U	UG/KG	CHLOROFORM
10U	UG/KG	1,1,1-TRICHLOROETHANE
10U	UG/KG	CYCLOHEXANE
10U	UG/KG	CARBON TETRACHLORIDE
10U	UG/KG	BENZENE
10U	UG/KG	1,2-DICHLOROETHANE
10U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	UG/KG	METHYLCYCLOHEXANE
10U	UG/KG	1,2-DICHLOROPROPANE
10U	UG/KG	BROMODICHLOROMETHANE
10U	UG/KG	CIS-1,3-DICHLOROPROPENE
10UJ	UG/KG	METHYL ISOBUTYL KETONE
10U	UG/KG	TOLUENE
10U	UG/KG	TRANS-1,3-DICHLOROPROPENE
10U	UG/KG	1,1,2-TRICHLOROETHANE
10U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10UJ	UG/KG	METHYL BUTYL KETONE
10U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
10U	UG/KG	1,2-DIBROMOETHANE (EDB)
10U	UG/KG	CHLOROBENZENE
10U	UG/KG	ETHYL BENZENE
10U	UG/KG	TOTAL XYLENES
10U	UG/KG	STYRENE
10U	UG/KG	BROMOFORM
10U	UG/KG	ISOPROPYLBENZENE
10U	UG/KG	1,1,2,2-TETRACHLOROETHANE
10U	UG/KG	1,3-DICHLOROBENZENE
10U	UG/KG	1,4-DICHLOROBENZENE
10U	UG/KG	1,2-DICHLOROBENZENE
10UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
10U	UG/KG	1,2,4-TRICHLOROBENZENE
2	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5936 FY 2002 Project: 02-0753
VOLATILES SCAN
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC005SD /
Media: SEDIMENT
Case No: 30588
MD No: 1CA5
D No: 1CA5
Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
13UJ	UG/KG	DICHLORODIFLUOROMETHANE
13UJ	UG/KG	CHLOROMETHANE
13UJ	UG/KG	VINYL CHLORIDE
13U	UG/KG	BROMOMETHANE
13U	UG/KG	CHLOROETHANE
13U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
13U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
13U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
61	UG/KG	ACETONE
17	UG/KG	CARBON DISULFIDE
13U	UG/KG	METHYL ACETATE
13U	UG/KG	METHYLENE CHLORIDE
13U	UG/KG	TRANS-1,2-DICHLOROETHENE
13U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
13U	UG/KG	1,1-DICHLOROETHANE
13U	UG/KG	CIS-1,2-DICHLOROETHENE
13UJ	UG/KG	METHYL ETHYL KETONE
13U	UG/KG	CHLOROFORM
13U	UG/KG	1,1,1-TRICHLOROETHANE
13U	UG/KG	CYCLOHEXANE
13U	UG/KG	CARBON TETRACHLORIDE
13U	UG/KG	BENZENE
13U	UG/KG	1,2-DICHLOROETHANE
13U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
13U	UG/KG	METHYLCYCLOHEXANE
13U	UG/KG	1,2-DICHLOROPROPANE
13U	UG/KG	BROMODICHLOROMETHANE
13U	UG/KG	CIS-1,3-DICHLOROPROPENE
13UJ	UG/KG	METHYL ISOBUTYL KETONE
13U	UG/KG	TOLUENE
13U	UG/KG	TRANS-1,3-DICHLOROPROPENE
13U	UG/KG	1,1,2-TRICHLOROETHANE
13U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
13UJ	UG/KG	METHYL BUTYL KETONE
13U	UG/KG	DIBROMOCHLOROMETHANE
13U	UG/KG	1,2-DIBROMOETHANE (EDB)
13U	UG/KG	CHLOROBENZENE
13U	UG/KG	ETHYL BENZENE
13U	UG/KG	TOTAL XYLENES
13U	UG/KG	STYRENE
13U	UG/KG	BROMOFORM
13U	UG/KG	ISOPROPYLBENZENE
13U	UG/KG	1,1,2,2-TETRACHLOROETHANE
13U	UG/KG	1,3-DICHLOROBENZENE
13U	UG/KG	1,4-DICHLOROBENZENE
13U	UG/KG	1,2-DICHLOROBENZENE
13UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
13U	UG/KG	1,2,4-TRICHLOROBENZENE
26	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5936 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC005SD /
Media: SEDIMENT

Case No: 30588
MD No: 1CA5
D No: 1CA5

Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:10
Ending:

RESULTS	UNITS	ANALYTE
110J	UG/KG	3 UNKNOWN COMPOUNDS
12J	UG/KG	LABORATORY ARTIFACT
22NJ	UG/KG	1,2,4-TRITHIOLANE

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5937 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC005SF / MD No: 1CA6 Inorg Contractor: SENTIN

Media: SURFACE SOIL (0" - 12") D No: 1CA6 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:00

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10UJ	UG/KG	DICHLORODIFLUOROMETHANE
10UJ	UG/KG	CHLOROMETHANE
10UJ	UG/KG	VINYL CHLORIDE
10U	UG/KG	BROMOMETHANE
10U	UG/KG	CHLOROETHANE
10U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
10U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
10U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
37	UG/KG	ACETONE
10U	UG/KG	CARBON DISULFIDE
10U	UG/KG	METHYL ACETATE
10U	UG/KG	METHYLENE CHLORIDE
10U	UG/KG	TRANS-1,2-DICHLOROETHENE
10U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
10U	UG/KG	1,1-DICHLOROETHANE
10U	UG/KG	CIS-1,2-DICHLOROETHENE
10UJ	UG/KG	METHYL ETHYL KETONE
10U	UG/KG	CHLOROFORM
10U	UG/KG	1,1,1-TRICHLOROETHANE
10U	UG/KG	CYCLOHEXANE
10U	UG/KG	CARBON TETRACHLORIDE
10U	UG/KG	BENZENE
10U	UG/KG	1,2-DICHLOROETHANE
10U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	UG/KG	METHYLCYCLOHEXANE
10U	UG/KG	1,2-DICHLOROPROPANE
10U	UG/KG	BROMODICHLOROMETHANE
10U	UG/KG	CIS-1,3-DICHLOROPROPENE
10UJ	UG/KG	METHYL ISOBUTYL KETONE
10U	UG/KG	TOLUENE
10U	UG/KG	TRANS-1,3-DICHLOROPROPENE
10U	UG/KG	1,1,2-TRICHLOROETHANE
10U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10UJ	UG/KG	METHYL BUTYL KETONE
10U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
10U	UG/KG	1,2-DIBROMOETHANE (EDB)
10U	UG/KG	CHLOROBENZENE
10U	UG/KG	ETHYL BENZENE
10U	UG/KG	TOTAL XYLENES
10U	UG/KG	STYRENE
10U	UG/KG	BROMOFORM
10U	UG/KG	ISOPROPYLBENZENE
10U	UG/KG	1,1,2,2-TETRACHLOROETHANE
10U	UG/KG	1,3-DICHLOROBENZENE
10U	UG/KG	1,4-DICHLOROBENZENE
10U	UG/KG	1,2-DICHLOROBENZENE
10UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
10U	UG/KG	1,2,4-TRICHLOROBENZENE
8	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 07/24/2002 08:14

Sample 5938 FY 2002 Project: 02-0753
VOLATILES SCAN
Facility: Turkey Creek — Sumter, SC
Program: SF — Case No: 30588
Id/Station: TC007SD / — MD No: 1CA7 — Inorg Contractor: SENTIN
Media: SEDIMENT — D No: 1CA7 — Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 11:35
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10UJ	UG/KG	DICHLORODIFLUOROMETHANE
10UJ	UG/KG	CHLOROMETHANE
10UJ	UG/KG	VINYL CHLORIDE
10U	UG/KG	BROMOMETHANE
10U	UG/KG	CHLOROETHANE
10U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
10U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
10U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
10U	UG/KG	ACETONE
10U	UG/KG	CARBON DISULFIDE
10U	UG/KG	METHYL ACETATE
10U	UG/KG	METHYLENE CHLORIDE
10U	UG/KG	TRANS-1,2-DICHLOROETHENE
10U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
10U	UG/KG	1,1-DICHLOROETHANE
10U	UG/KG	CIS-1,2-DICHLOROETHENE
10UJ	UG/KG	METHYL ETHYL KETONE
10U	UG/KG	CHLOROFORM
10U	UG/KG	1,1,1-TRICHLOROETHANE
10U	UG/KG	CYCLOHEXANE
10U	UG/KG	CARBON TETRACHLORIDE
10U	UG/KG	BENZENE
10U	UG/KG	1,2-DICHLOROETHANE
10U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	UG/KG	METHYLCYCLOHEXANE
10U	UG/KG	1,2-DICHLOROPROPANE
10U	UG/KG	BROMODICHLOROMETHANE
10U	UG/KG	CIS-1,3-DICHLOROPROPENE
10UJ	UG/KG	METHYL ISOBUTYL KETONE
10U	UG/KG	TOLUENE
10U	UG/KG	TRANS-1,3-DICHLOROPROPENE
10U	UG/KG	1,1,2-TRICHLOROETHANE
10U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10UJ	UG/KG	METHYL BUTYL KETONE
10U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
10U	UG/KG	1,2-DIBROMOETHANE (EDB)
10U	UG/KG	CHLOROBENZENE
10U	UG/KG	ETHYL BENZENE
10U	UG/KG	TOTAL XYLENES
10U	UG/KG	STYRENE
10U	UG/KG	BROMOFORM
10U	UG/KG	ISOPROPYLBENZENE
10U	UG/KG	1,1,2,2-TETRACHLOROETHANE
10U	UG/KG	1,3-DICHLOROBENZENE
10U	UG/KG	1,4-DICHLOROBENZENE
10U	UG/KG	1,2-DICHLOROBENZENE
10UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
10U	UG/KG	1,2,4-TRICHLOROBENZENE
19	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5939 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC008SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA8 Inorg Contractor: SENTIN

D No: 1CA8 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:55

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
13UJ	UG/KG	DICHLORODIFLUOROMETHANE
13UJ	UG/KG	CHLOROMETHANE
13UJ	UG/KG	VINYL CHLORIDE
13U	UG/KG	BROMOMETHANE
13U	UG/KG	CHLOROETHANE
13U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
13U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
13U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
110	UG/KG	ACETONE
11J	UG/KG	CARBON DISULFIDE
13U	UG/KG	METHYL ACETATE
13U	UG/KG	METHYLENE CHLORIDE
13U	UG/KG	TRANS-1,2-DICHLOROETHENE
13U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
13U	UG/KG	1,1-DICHLOROETHANE
13U	UG/KG	CIS-1,2-DICHLOROETHENE
22J	UG/KG	METHYL ETHYL KETONE
13U	UG/KG	CHLOROFORM
13U	UG/KG	1,1,1-TRICHLOROETHANE
35	UG/KG	CYCLOHEXANE
13U	UG/KG	CARBON TETRACHLORIDE
2J	UG/KG	BENZENE
13U	UG/KG	1,2-DICHLOROETHANE
13U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
120	UG/KG	METHYLCYCLOHEXANE
13U	UG/KG	1,2-DICHLOROPROPANE
13U	UG/KG	BROMODICHLOROMETHANE
13U	UG/KG	CIS-1,3-DICHLOROPROPENE
13UJ	UG/KG	METHYL ISOBUTYL KETONE
13U	UG/KG	TOLUENE
13U	UG/KG	TRANS-1,3-DICHLOROPROPENE
13U	UG/KG	1,1,2-TRICHLOROETHANE
13U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
13UJ	UG/KG	METHYL BUTYL KETONE
13U	UG/KG	DIBROMOCHLOROMETHANE
13U	UG/KG	1,2-DIBROMOETHANE (EDB)
13U	UG/KG	CHLOROBENZENE
13U	UG/KG	ETHYL BENZENE
24	UG/KG	TOTAL XYLENES
13U	UG/KG	STYRENE
13U	UG/KG	BROMOFORM
630	UG/KG	ISOPROPYLBENZENE
13U	UG/KG	1,1,2,2-TETRACHLOROETHANE
13U	UG/KG	1,3-DICHLOROBENZENE
13U	UG/KG	1,4-DICHLOROBENZENE
13U	UG/KG	1,2-DICHLOROBENZENE
13UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
13U	UG/KG	1,2,4-TRICHLOROBENZENE
32	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5939 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC008SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA8

D No: 1CA8

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:55

Ending:

RESULTS	UNITS	ANALYTE
64000J	UG/KG	18 UNKNOWN COMPOUNDS
4600NJ	UG/KG	BENZENE, 1,3-DIETHYL-
12000JN	UG/KG	4 SUBSTITUTED BENZENES
6500NJ	UG/KG	NAPHTHALENE, DECAHYDRO-
5200NJ	UG/KG	BENZENE, 1,2-DIETHYL-
5900NJ	UG/KG	BENZENE, 4-ETHYL-1,2-DIMETHY
2000NJ	UG/KG	ADAMANTANE
1700NJ	UG/KG	NAPHTHALENE, DECAHYDRO-2-MET

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value, NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 07/24/2002 08:14

Sample 5940 FY 2002 Project: 02-0753
VOLATILES SCAN
Facility: Turkey Creek Sumter, SC
Program: SF Case No: 30588
Id/Station: TC009SD / MD No: 1CA9 Inorg Contractor: SENTIN
Media: SEDIMENT D No: 1CA9 Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 16:45
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10UJ	UG/KG	DICHLORODIFLUOROMETHANE
10UJ	UG/KG	CHLOROMETHANE
10UJ	UG/KG	VINYL CHLORIDE
10U	UG/KG	BROMOMETHANE
10U	UG/KG	CHLOROETHANE
10U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
10U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
10U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
25	UG/KG	ACETONE
1J	UG/KG	CARBON DISULFIDE
10U	UG/KG	METHYL ACETATE
10U	UG/KG	METHYLENE CHLORIDE
10U	UG/KG	TRANS-1,2-DICHLOROETHENE
10U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
10U	UG/KG	1,1-DICHLOROETHANE
10U	UG/KG	CIS-1,2-DICHLOROETHENE
10UJ	UG/KG	METHYL ETHYL KETONE
10U	UG/KG	CHLOROFORM
10U	UG/KG	1,1,1-TRICHLOROETHANE
10U	UG/KG	CYCLOHEXANE
10U	UG/KG	CARBON TETRACHLORIDE
10U	UG/KG	BENZENE
10U	UG/KG	1,2-DICHLOROETHANE
10U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	UG/KG	METHYLCYCLOHEXANE
10U	UG/KG	1,2-DICHLOROPROPANE
10U	UG/KG	BROMODICHLOROMETHANE
10U	UG/KG	CIS-1,3-DICHLOROPROPENE
10UJ	UG/KG	METHYL ISOBUTYL KETONE
10U	UG/KG	TOLUENE
10U	UG/KG	TRANS-1,3-DICHLOROPROPENE
10U	UG/KG	1,1,2-TRICHLOROETHANE
10U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10UJ	UG/KG	METHYL BUTYL KETONE
10U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
10U	UG/KG	1,2-DIBROMOETHANE (EDB)
10U	UG/KG	CHLOROBENZENE
10U	UG/KG	ETHYL BENZENE
10U	UG/KG	TOTAL XYLENES
10U	UG/KG	STYRENE
10U	UG/KG	BROMOFORM
10U	UG/KG	ISOPROPYLBENZENE
10U	UG/KG	1,1,2,2-TETRACHLOROETHANE
10U	UG/KG	1,3-DICHLOROBENZENE
10U	UG/KG	1,4-DICHLOROBENZENE
10U	UG/KG	1,2-DICHLOROBENZENE
10UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
10U	UG/KG	1,2,4-TRICHLOROBENZENE
33	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5940 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC009SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA9

D No: 1CA9

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:45

Ending:

RESULTS	UNITS	ANALYTE
88J	UG/KG	15 UNKNOWN COMPOUNDS
8JN	UG/KG	UNKNOWN ALKENE
3NJ	UG/KG	BENZENE, 1,3-DIETHYL-
7NJ	UG/KG	NAPHTHALENE, DECAHYDRO-
3NJ	UG/KG	BENZENE, 1-ETHYL-2,3-DIMETHY

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value, NA-not analyzed, NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5942 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC010SD / MD No: 1CB1 Inorg Contractor: SENTIN

Media: SEDIMENT D No: 1CB1 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:10

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10UJ	UG/KG	DICHLORODIFLUOROMETHANE
10UJ	UG/KG	CHLOROMETHANE
10UJ	UG/KG	VINYL CHLORIDE
10U	UG/KG	BROMOMETHANE
10U	UG/KG	CHLOROETHANE
10U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
10U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
10U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
11	UG/KG	ACETONE
10U	UG/KG	CARBON DISULFIDE
10U	UG/KG	METHYL ACETATE
10U	UG/KG	METHYLENE CHLORIDE
10U	UG/KG	TRANS-1,2-DICHLOROETHENE
10U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
10U	UG/KG	1,1-DICHLOROETHANE
10U	UG/KG	CIS-1,2-DICHLOROETHENE
10UJ	UG/KG	METHYL ETHYL KETONE
10U	UG/KG	CHLOROFORM
10U	UG/KG	1,1,1-TRICHLOROETHANE
10U	UG/KG	CYCLOHEXANE
10U	UG/KG	CARBON TETRACHLORIDE
10U	UG/KG	BENZENE
10U	UG/KG	1,2-DICHLOROETHANE
10U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	UG/KG	METHYLCYCLOHEXANE
10U	UG/KG	1,2-DICHLOROPROPANE
10U	UG/KG	BROMODICHLOROMETHANE
10U	UG/KG	CIS-1,3-DICHLOROPROPENE
10UJ	UG/KG	METHYL ISOBUTYL KETONE
10U	UG/KG	TOLUENE
10U	UG/KG	TRANS-1,3-DICHLOROPROPENE
10U	UG/KG	1,1,2-TRICHLOROETHANE
10U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10UJ	UG/KG	METHYL BUTYL KETONE
10U	UG/KG	DIBROMOCHLOROMETHANE
10U	UG/KG	1,2-DIBROMOETHANE (EDB)
10U	UG/KG	CHLOROBENZENE
10U	UG/KG	ETHYL BENZENE
10U	UG/KG	TOTAL XYLENES
10U	UG/KG	STYRENE
10U	UG/KG	BROMOFORM
10U	UG/KG	ISOPROPYLBENZENE
10U	UG/KG	1,1,2,2-TETRACHLOROETHANE
10U	UG/KG	1,3-DICHLOROBENZENE
10U	UG/KG	1,4-DICHLOROBENZENE
10U	UG/KG	1,2-DICHLOROBENZENE
10UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
10U	UG/KG	1,2,4-TRICHLOROBENZENE
22	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5942 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC010SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB1

D No: 1CB1

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:10

Ending:

RESULTS	UNITS	ANALYTE
240J	UG/KG	23 UNKNOWN COMPOUNDS
24NJ	UG/KG	NAPHTHALENE, DECAHYDRO-, TRA

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value, NA-not analyzed, NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given, L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable, compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5944 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC011SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB3 Inorg Contractor: SENTIN

D No: 1CB3 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 14:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
32UJ	UG/KG	DICHLORODIFLUOROMETHANE
32UJ	UG/KG	CHLOROMETHANE
32UJ	UG/KG	VINYL CHLORIDE
32U	UG/KG	BROMOMETHANE
32U	UG/KG	CHLOROETHANE
32U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
32U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
32U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
110	UG/KG	ACETONE
32U	UG/KG	CARBON DISULFIDE
32U	UG/KG	METHYL ACETATE
32U	UG/KG	METHYLENE CHLORIDE
32U	UG/KG	TRANS-1,2-DICHLOROETHENE
32U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
32U	UG/KG	1,1-DICHLOROETHANE
32U	UG/KG	CIS-1,2-DICHLOROETHENE
32UJ	UG/KG	METHYL ETHYL KETONE
32U	UG/KG	CHLOROFORM
32U	UG/KG	1,1,1-TRICHLOROETHANE
32U	UG/KG	CYCLOHEXANE
32U	UG/KG	CARBON TETRACHLORIDE
32U	UG/KG	BENZENE
32U	UG/KG	1,2-DICHLOROETHANE
32U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
32U	UG/KG	METHYLCYCLOHEXANE
32U	UG/KG	1,2-DICHLOROPROPANE
32U	UG/KG	BROMODICHLOROMETHANE
32U	UG/KG	CIS-1,3-DICHLOROPROPENE
32UJ	UG/KG	METHYL ISOBUTYL KETONE
32U	UG/KG	TOLUENE
32U	UG/KG	TRANS-1,3-DICHLOROPROPENE
32U	UG/KG	1,1,2-TRICHLOROETHANE
32U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
32UJ	UG/KG	METHYL BUTYL KETONE
32U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
32U	UG/KG	1,2-DIBROMOETHANE (EDB)
32U	UG/KG	CHLOROBENZENE
32U	UG/KG	ETHYL BENZENE
32U	UG/KG	TOTAL XYLENES
32U	UG/KG	STYRENE
32U	UG/KG	BROMOFORM
32U	UG/KG	ISOPROPYLBENZENE
32U	UG/KG	1,1,2,2-TETRACHLOROETHANE
32U	UG/KG	1,3-DICHLOROBENZENE
32U	UG/KG	1,4-DICHLOROBENZENE
32U	UG/KG	1,2-DICHLOROBENZENE
32UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
32U	UG/KG	1,2,4-TRICHLOROBENZENE
65	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5944 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek. Sumter, SC

Program: SF

Id/Station: TC011SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB3

D No: 1CB3

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 14:45

Ending:

RESULTS	UNITS	ANALYTE
190J	UG/KG	8 UNKNOWN COMPOUNDS

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable, compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5945 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC012SD / MD No: 1CB4 Inorg Contractor: SENTIN

Media: SEDIMENT D No: 1CB4 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 14:40

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
51UJ	UG/KG	DICHLORODIFLUOROMETHANE
51UJ	UG/KG	CHLOROMETHANE
51UJ	UG/KG	VINYL CHLORIDE
51U	UG/KG	BROMOMETHANE
51U	UG/KG	CHLOROETHANE
51U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
51U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
51U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
560	UG/KG	ACETONE
51U	UG/KG	CARBON DISULFIDE
51U	UG/KG	METHYL ACETATE
51U	UG/KG	METHYLENE CHLORIDE
51U	UG/KG	TRANS-1,2-DICHLOROETHENE
51U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
51U	UG/KG	1,1-DICHLOROETHANE
51U	UG/KG	CIS-1,2-DICHLOROETHENE
140J	UG/KG	METHYL ETHYL KETONE
51U	UG/KG	CHLOROFORM
51U	UG/KG	1,1,1-TRICHLOROETHANE
51U	UG/KG	CYCLOHEXANE
51U	UG/KG	CARBON TETRACHLORIDE
51U	UG/KG	BENZENE
51U	UG/KG	1,2-DICHLOROETHANE
51U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
26J	UG/KG	METHYLCYCLOHEXANE
51U	UG/KG	1,2-DICHLOROPROPANE
51U	UG/KG	BROMODICHLOROMETHANE
51U	UG/KG	CIS-1,3-DICHLOROPROPENE
51UJ	UG/KG	METHYL ISOBUTYL KETONE
51U	UG/KG	TOLUENE
51U	UG/KG	TRANS-1,3-DICHLOROPROPENE
51U	UG/KG	1,1,2-TRICHLOROETHANE
51U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
51UJ	UG/KG	METHYL BUTYL KETONE
51U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
51U	UG/KG	1,2-DIBROMOETHANE (EDB)
51U	UG/KG	CHLOROBENZENE
51U	UG/KG	ETHYL BENZENE
51U	UG/KG	TOTAL XYLENES
51U	UG/KG	STYRENE
51U	UG/KG	BROMOFORM
51U	UG/KG	ISOPROPYLBENZENE
51U	UG/KG	1,1,2,2-TETRACHLOROETHANE
51U	UG/KG	1,3-DICHLOROBENZENE
51U	UG/KG	1,4-DICHLOROBENZENE
51U	UG/KG	1,2-DICHLOROBENZENE
51UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
51U	UG/KG	1,2,4-TRICHLOROBENZENE
69	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5945 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC012SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB4

D No: 1CB4

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 14:40

Ending:

RESULTS	UNITS	ANALYTE
160000J	UG/KG	25 UNKNOWN COMPOUNDS
12000NJ	UG/KG	NAPHTHALENE, DECAHYDRO-, TRA
3800JN	UG/KG	SUBSTITUTED BENZENE
6600NJ	UG/KG	CYCLOHEXANONE, 5-METHYL-2-(1
4100NJ	UG/KG	1-ADAMANTYL BROMOMETHYL KETO
5000NJ	UG/KG	NAPHTHALENE, DECAHYDRO-2-MET

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5946 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC013SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB5 Inorg Contractor: SENTIN

D No: 1CB5 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
19UJ	UG/KG	DICHLORODIFLUOROMETHANE
19UJ	UG/KG	CHLOROMETHANE
19UJ	UG/KG	VINYL CHLORIDE
19U	UG/KG	BROMOMETHANE
19U	UG/KG	CHLOROETHANE
19U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
19U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
19U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
91	UG/KG	ACETONE
19U	UG/KG	CARBON DISULFIDE
19U	UG/KG	METHYL ACETATE
19U	UG/KG	METHYLENE CHLORIDE
19U	UG/KG	TRANS-1,2-DICHLOROETHENE
19U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
19U	UG/KG	1,1-DICHLOROETHANE
19U	UG/KG	CIS-1,2-DICHLOROETHENE
19UJ	UG/KG	METHYL ETHYL KETONE
19U	UG/KG	CHLOROFORM
19U	UG/KG	1,1,1-TRICHLOROETHANE
19U	UG/KG	CYCLOHEXANE
19U	UG/KG	CARBON TETRACHLORIDE
19U	UG/KG	BENZENE
19U	UG/KG	1,2-DICHLOROETHANE
19U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
19U	UG/KG	METHYLCYCLOHEXANE
19U	UG/KG	1,2-DICHLOROPROPANE
19U	UG/KG	BROMODICHLOROMETHANE
19U	UG/KG	CIS-1,3-DICHLOROPROPENE
19UJ	UG/KG	METHYL ISOBUTYL KETONE
19U	UG/KG	TOLUENE
19U	UG/KG	TRANS-1,3-DICHLOROPROPENE
19U	UG/KG	1,1,2-TRICHLOROETHANE
19U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
19UJ	UG/KG	METHYL BUTYL KETONE
19U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
19U	UG/KG	1,2-DIBROMOETHANE (EDB)
19U	UG/KG	CHLOROBENZENE
19U	UG/KG	ETHYL BENZENE
19U	UG/KG	TOTAL XYLENES
19U	UG/KG	STYRENE
19U	UG/KG	BROMOFORM
19U	UG/KG	ISOPROPYLBENZENE
19U	UG/KG	1,1,2,2-TETRACHLOROETHANE
19U	UG/KG	1,3-DICHLOROBENZENE
19U	UG/KG	1,4-DICHLOROBENZENE
19U	UG/KG	1,2-DICHLOROBENZENE
19UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
19U	UG/KG	1,2,4-TRICHLOROBENZENE
42	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5947 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC014SD / MD No: 1CB6 Inorg Contractor: SENTIN

Media: SEDIMENT D No: 1CB6 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:50

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
30UJ	UG/KG	DICHLORODIFLUOROMETHANE
30UJ	UG/KG	CHLOROMETHANE
30UJ	UG/KG	VINYL CHLORIDE
30U	UG/KG	BROMOMETHANE
30U	UG/KG	CHLOROETHANE
30U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
30U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
30U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
140	UG/KG	ACETONE
30U	UG/KG	CARBON DISULFIDE
30U	UG/KG	METHYL ACETATE
30U	UG/KG	METHYLENE CHLORIDE
30U	UG/KG	TRANS-1,2-DICHLOROETHENE
30U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
30U	UG/KG	1,1-DICHLOROETHANE
30U	UG/KG	CIS-1,2-DICHLOROETHENE
30UJ	UG/KG	METHYL ETHYL KETONE
30U	UG/KG	CHLOROFORM
30U	UG/KG	1,1,1-TRICHLOROETHANE
30U	UG/KG	CYCLOHEXANE
30U	UG/KG	CARBON TETRACHLORIDE
30U	UG/KG	BENZENE
30U	UG/KG	1,2-DICHLOROETHANE
30U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
30U	UG/KG	METHYLCYCLOHEXANE
30U	UG/KG	1,2-DICHLOROPROPANE
30U	UG/KG	BROMODICHLOROMETHANE
30U	UG/KG	CIS-1,3-DICHLOROPROPENE
30UJ	UG/KG	METHYL ISOBUTYL KETONE
30U	UG/KG	TOLUENE
30U	UG/KG	TRANS-1,3-DICHLOROPROPENE
30U	UG/KG	1,1,2-TRICHLOROETHANE
30U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
30UJ	UG/KG	METHYL BUTYL KETONE
30U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
30U	UG/KG	1,2-DIBROMOETHANE (EDB)
30U	UG/KG	CHLOROBENZENE
30U	UG/KG	ETHYL BENZENE
30U	UG/KG	TOTAL XYLENES
30U	UG/KG	STYRENE
30U	UG/KG	BROMOFORM
30U	UG/KG	ISOPROPYLBENZENE
30U	UG/KG	1,1,2,2-TETRACHLOROETHANE
30U	UG/KG	1,3-DICHLOROBENZENE
30U	UG/KG	1,4-DICHLOROBENZENE
30U	UG/KG	1,2-DICHLOROBENZENE
30UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
30U	UG/KG	1,2,4-TRICHLOROBENZENE
59	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5947 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC014SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB6

D No: 1CB6

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:50

Ending:

RESULTS	UNITS	ANALYTE
8100J	UG/KG	26 UNKNOWN COMPOUNDS
600NJ	UG/KG	NAPHTHALENE, DECAHYDRO-, TRA
170NJ	UG/KG	ADAMANTANE
270NJ	UG/KG	PULEGONE
230NJ	UG/KG	NAPHTHALENE, DECAHYDRO-2-MET

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value, NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5948 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC015SD / MD No: 1CB7 Inorg Contractor: SENTIN

Media: SEDIMENT D No: 1CB7 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:00

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
19UJ	UG/KG	DICHLORODIFLUOROMETHANE
19UJ	UG/KG	CHLOROMETHANE
19UJ	UG/KG	VINYL CHLORIDE
19U	UG/KG	BROMOMETHANE
19U	UG/KG	CHLOROETHANE
19U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
19U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
19U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
86	UG/KG	ACETONE
19U	UG/KG	CARBON DISULFIDE
19U	UG/KG	METHYL ACETATE
19U	UG/KG	METHYLENE CHLORIDE
19U	UG/KG	TRANS-1,2-DICHLOROETHENE
19U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
19U	UG/KG	1,1-DICHLOROETHANE
19U	UG/KG	CIS-1,2-DICHLOROETHENE
19UJ	UG/KG	METHYL ETHYL KETONE
19U	UG/KG	CHLOROFORM
19U	UG/KG	1,1,1-TRICHLOROETHANE
19U	UG/KG	CYCLOHEXANE
19U	UG/KG	CARBON TETRACHLORIDE
19U	UG/KG	BENZENE
19U	UG/KG	1,2-DICHLOROETHANE
19U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
19U	UG/KG	METHYLCYCLOHEXANE
19U	UG/KG	1,2-DICHLOROPROPANE
19U	UG/KG	BROMODICHLOROMETHANE
19U	UG/KG	CIS-1,3-DICHLOROPROPENE
19UJ	UG/KG	METHYL ISOBUTYL KETONE
19U	UG/KG	TOLUENE
19U	UG/KG	TRANS-1,3-DICHLOROPROPENE
19U	UG/KG	1,1,2-TRICHLOROETHANE
19U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
19UJ	UG/KG	METHYL BUTYL KETONE
19U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
19U	UG/KG	1,2-DIBROMOETHANE (EDB)
19U	UG/KG	CHLOROBENZENE
19U	UG/KG	ETHYL BENZENE
19U	UG/KG	TOTAL XYLENES
19U	UG/KG	STYRENE
19U	UG/KG	BROMOFORM
19U	UG/KG	ISOPROPYLBENZENE
19U	UG/KG	1,1,2,2-TETRACHLOROETHANE
19U	UG/KG	1,3-DICHLOROBENZENE
19U	UG/KG	1,4-DICHLOROBENZENE
19U	UG/KG	1,2-DICHLOROBENZENE
19UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
19U	UG/KG	1,2,4-TRICHLOROBENZENE
46	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected; the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5949 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC016SD / MD No: 1CB8 Inorg Contractor: SENTIN

Media: SEDIMENT D No: 1CB8 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:30

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
18UJ	UG/KG	DICHLORODIFLUOROMETHANE
18UJ	UG/KG	CHLOROMETHANE
18UJ	UG/KG	VINYL CHLORIDE
18U	UG/KG	BROMOMETHANE
18U	UG/KG	CHLOROETHANE
18U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
18U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
18U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
91	UG/KG	ACETONE
18U	UG/KG	CARBON DISULFIDE
18U	UG/KG	METHYL ACETATE
18U	UG/KG	METHYLENE CHLORIDE
18U	UG/KG	TRANS-1,2-DICHLOROETHENE
18U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
18U	UG/KG	1,1-DICHLOROETHANE
18U	UG/KG	CIS-1,2-DICHLOROETHENE
25J	UG/KG	METHYL ETHYL KETONE
18U	UG/KG	CHLOROFORM
18U	UG/KG	1,1,1-TRICHLOROETHANE
18U	UG/KG	CYCLOHEXANE
18U	UG/KG	CARBON TETRACHLORIDE
18U	UG/KG	BENZENE
18U	UG/KG	1,2-DICHLOROETHANE
18U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
18U	UG/KG	METHYLCYCLOHEXANE
18U	UG/KG	1,2-DICHLOROPROPANE
18U	UG/KG	BROMODICHLOROMETHANE
18U	UG/KG	CIS-1,3-DICHLOROPROPENE
18UJ	UG/KG	METHYL ISOBUTYL KETONE
18U	UG/KG	TOLUENE
18U	UG/KG	TRANS-1,3-DICHLOROPROPENE
18U	UG/KG	1,1,2-TRICHLOROETHANE
18U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
18UJ	UG/KG	METHYL BUTYL KETONE
18U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
18U	UG/KG	1,2-DIBROMOETHANE (EDB)
18U	UG/KG	CHLOROBENZENE
18U	UG/KG	ETHYL BENZENE
18U	UG/KG	TOTAL XYLENES
18U	UG/KG	STYRENE
18U	UG/KG	BROMOFORM
18U	UG/KG	ISOPROPYLBENZENE
18U	UG/KG	1,1,2,2-TETRACHLOROETHANE
18U	UG/KG	1,3-DICHLOROBENZENE
18U	UG/KG	1,4-DICHLOROBENZENE
18U	UG/KG	1,2-DICHLOROBENZENE
18UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
18U	UG/KG	1,2,4-TRICHLOROBENZENE
41	%	% MOISTURE

A-average value. NA-not analyzed,. NAI-interferences,. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

VOLATILES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5950 FY 2002 Project: 02-0753

VOLATILES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC012SF /

Media: TRIP BLANK - SOIL D No: 1CB9 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:25

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
10UJ	UG/KG	DICHLORODIFLUOROMETHANE
10UJ	UG/KG	CHLOROMETHANE
10UJ	UG/KG	VINYL CHLORIDE
10U	UG/KG	BROMOMETHANE
10U	UG/KG	CHLOROETHANE
10U	UG/KG	TRICHLOROFLUOROMETHANE (FREON 11)
10U	UG/KG	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
10U	UG/KG	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)
10U	UG/KG	ACETONE
10U	UG/KG	CARBON DISULFIDE
10U	UG/KG	METHYL ACETATE
10U	UG/KG	METHYLENE CHLORIDE
10U	UG/KG	TRANS-1,2-DICHLOROETHENE
10U	UG/KG	METHYL T-BUTYL ETHER (MTBE)
10U	UG/KG	1,1-DICHLOROETHANE
10U	UG/KG	CIS-1,2-DICHLOROETHENE
10UJ	UG/KG	METHYL ETHYL KETONE
10U	UG/KG	CHLOROFORM
10U	UG/KG	1,1,1-TRICHLOROETHANE
10U	UG/KG	CYCLOHEXANE
10U	UG/KG	CARBON TETRACHLORIDE
10U	UG/KG	BENZENE
10U	UG/KG	1,2-DICHLOROETHANE
10U	UG/KG	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	UG/KG	METHYLCYCLOHEXANE
10U	UG/KG	1,2-DICHLOROPROPANE
10U	UG/KG	BROMODICHLOROMETHANE
10U	UG/KG	CIS-1,3-DICHLOROPROPENE
10UJ	UG/KG	METHYL ISOBUTYL KETONE
10U	UG/KG	TOLUENE
10U	UG/KG	TRANS-1,3-DICHLOROPROPENE
10U	UG/KG	1,1,2-TRICHLOROETHANE
10U	UG/KG	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10UJ	UG/KG	METHYL BUTYL KETONE
10U	UG/KG	DIBROMOCHLOROMETHANE

RESULTS	UNITS	ANALYTE
10U	UG/KG	1,2-DIBROMOETHANE (EDB)
10U	UG/KG	CHLOROBENZENE
10U	UG/KG	ETHYL BENZENE
10U	UG/KG	TOTAL XYLENES
10U	UG/KG	STYRENE
10U	UG/KG	BROMOFORM
10U	UG/KG	ISOPROPYLBENZENE
10U	UG/KG	1,1,2,2-TETRACHLOROETHANE
10U	UG/KG	1,3-DICHLOROBENZENE
10U	UG/KG	1,4-DICHLOROBENZENE
10U	UG/KG	1,2-DICHLOROBENZENE
10UJ	UG/KG	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)
10U	UG/KG	1,2,4-TRICHLOROBENZENE
0	%	% MOISTURE

A-average value. NA-not analyzed; NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

'PLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 07/24/2002 08:14

FY 2002 Project: 02-0753
'OMPOUNDS
.eek Sumter, SC
Case No: 30588
.. TC012SF /
.a: TRIP BLANK - SOIL D.No: 1CB9 Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 16:25
Ending:

RESULTS	UNITS	ANALYTE
15J	UG/KG	LABORATORY ARTIFACT

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

4741

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

RECEIVED

JUL 15 2002

DIVISION OF SITE
ASSESSMENT & REMEDIATION

MEMORANDUM

Date: 07/03/2002

Subject: Results of CLASSICALS/NUTRIENTS Sample Analysis
02-0748 Turkey Creek
Sumter, SC

From: Carroll, Anthony

To: Tanner, Terry

CC: Jonathan McInnis
SCDHEC

Thru: Scifres, Jenny
Chief, Inorganic Chemistry Section
Analytical Support Branch

Attached are the results of analysis of samples collected as part of the subject project. If you have any questions, please contact me.

ATTACHMENT

CLASSICALS/NUTRIENTS SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 07/03/2002 14:23**

Sample **5791** FY **2002** Project: **02-0748**

SPECIFIED TESTS

Facility: Turkey Creek Sumter, SC.
Program: SF
Id/Station: 001-SW / TC
Media: SURFACE WATER

Produced by: Carroll, Anthony
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:05
Ending:

RESULTS	UNITS	ANALYTE
15U	UG/L	CYANIDE

A-average value. NA-not analyzed NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable compound may or may not be present. resampling and reanalysis is necessary for verification.

CLASSICALS/NUTRIENTS SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 07/03/2002 14:23**

Sample **5792** FY **2002** Project: **02-0748**

SPECIFIED TESTS

Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: 003-SW / TC
Media: SURFACE WATER

Produced by: Carroll, Anthony
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 11:00
Ending:

RESULTS	UNITS	ANALYTE
15U	UG/L	CYANIDE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

CLASSICALS/NUTRIENTS SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 07/03/2002 14:23**

Sample **5793** FY **2002** Project: **02-0748**

SPECIFIED TESTS

Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: 009-SW / TC
Media: SURFACE WATER

Produced by: Carroll, Anthony
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 16:40
Ending:

RESULTS	UNITS	ANALYTE
15U	UG/L	CYANIDE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material,.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable compound may or may not be present. resampling and reanalysis is necessary for verification.

CLASSICALS/NUTRIENTS SAMPLE ANALYSIS **EPA - REGION IV SESD, ATHENS, GA** **Production Date: 07/03/2002 14:23**

Sample **5794** FY **2002** Project: **02-0748**
SPECIFIED TESTS
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: 010-SW / TC
Media: SURFACE WATER

Produced by: Carroll, Anthony
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 15:05
Ending:

RESULTS	UNITS	ANALYTE
15U	UG/L	CYANIDE

A-average value NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

RECEIVED

JUL 15 2002

DIVISION OF SITE
ASSESSMENT & REMEDIATION

MEMORANDUM

Date: 07/09/2002

Subject: Results of METALS Sample Analysis
02-0753 Turkey Creek
Sumter, SC

From: Goddard, Denise

To: Tanner, Terry

CC: Jonathan McInnis
SCDHEC

Thru: QA Office

Attached are the results of analysis of samples collected as part of the subject project. If you have any questions, please contact me.

ATTACHMENT

June 28, 2002

INORGANIC DATA QUALIFIERS REPORT

Case Number: 30588
Project Number: 02-0753
Site: Turkey Creek, Sumter, SC

Sample No.	Element	Flag	Reason
5928	Al	J	Matrix duplicate RPD = 60%
	Cu	UJ	PE sample recovery < warning limit
			Baseline instability in cal blanks
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Ni	R	Analyte reported as potential false positive
	Se	U	Baseline instability in cal and prep blanks
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks
5929	Al	UJ	PE sample recovery > warning limit
	Cr	R	Analyte reported as potential false positive
	Mg	J	Serial dilution percent difference = 10.8%
	Mn	J	PE sample recovery > warning limit
	K	J	Serial dilution percent difference = 17.5%
	V	U	Baseline instability in cal blanks
5930	Al	J	Matrix duplicate RPD = 60%
	As	R	Analyte reported as potential false positive
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks
5931	Al	J	Matrix duplicate RPD = 60%
	Sb	R	Analyte reported as potential false positive
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Ni	R	Analyte reported as potential false positive
	Se	U	Baseline instability in cal and prep blanks
	Ag	R	Analyte reported as potential false positive
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks
5932	Al	J	Matrix duplicate RPD = 60%
	Cu	UJ	PE sample recovery < warning limit
			Baseline instability in cal blanks
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks

June 28, 2002

INORGANIC DATA QUALIFIERS REPORT (continued)

Case Number: 30588
Project Number: 02-0753
Site: Turkey Creek, Sumter, SC

Sample No.	Element	Flag	Reason
5933	Al	UJ	PE sample recovery > warning limit
	Mg	J	Serial dilution percent difference = 10.8%
	Mn	J	PE sample recovery > warning limit
	Ni	R	Analyte reported as potential false positive
	K	J	Serial dilution percent difference = 17.5%
	Se	U	Baseline instability in cal, prep, and blind blanks
	V	U	Baseline instability in cal blanks
5934	Al	J	Matrix duplicate RPD = 60%
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Zn	J	Matrix duplicate RPD = 37%
5935	Al	J	Matrix duplicate RPD = 60%
	Sb	R	Analyte reported as potential false positive
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Ag	R	Analyte reported as potential false positive
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks
5936	Al	J	Matrix duplicate RPD = 60%
	Cd	R	Analyte reported as potential false positive
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Se	U	Baseline instability in cal and prep blanks
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks
5937	Al	J	Matrix duplicate RPD = 60%
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Se	U	Baseline instability in cal and prep blanks
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks

June 28, 2002

INORGANIC DATA QUALIFIERS REPORT (continued)

Case Number: 30588
Project Number: 02-0753
Site: Turkey Creek, Sumter, SC

Sample No.	Element	Flag	Reason
5938	Al	J	Matrix duplicate RPD = 60%
	Co	R	Analyte reported as potential false positive
	Cu	UJ	PE sample recovery < warning limit
			Baseline instability in cal blanks
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mg	U	Positives in cal blanks
	Mn	J	Matrix duplicate RPD = 137.4%
	Zn	J	Matrix duplicate RPD = 37%
5939	Al	J	Matrix duplicate RPD = 60%
	As	R	Analyte reported as potential false positive
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks
5940	Al	J	Matrix duplicate RPD = 60%
	As	R	Analyte reported as potential false positive
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Se	U	Baseline instability in cal and prep blanks
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks
5941	Al	UJ	PE sample recovery > warning limit
	Mg	J	Serial dilution percent difference = 10.8%
	Mn	J	PE sample recovery > warning limit
	K	J	Serial dilution percent difference = 17.5%
	V	U	Baseline instability in cal blanks
5942	Al	J	Matrix duplicate RPD = 60%
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mg	U	Positives in cal blanks
	Mn	UJ	Matrix duplicate RPD = 137.4%
			Baseline instability in cal blanks
	V	R	Analyte reported as potential false positive
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks

June 28, 2002

INORGANIC DATA QUALIFIERS REPORT (continued)

Case Number: 30588
Project Number: 02-0753
Site: Turkey Creek, Sumter, SC

Sample No.	Element	Flag	Reason
5943	Al	UJ	PE sample recovery > warning limit
	Mg	J	Serial dilution percent difference = 10.8%
	Mn	J	PE sample recovery > warning limit
	K	J	Serial dilution percent difference = 17.5%
	V	U	Baseline instability in cal blanks
5944	Al	J	Matrix duplicate RPD = 60%
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Ni	R	Analyte reported as potential false positive
	Se	U	Baseline instability in cal and prep blanks
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks
5945	Al	J	Matrix duplicate RPD = 60%
	As	R	Analyte reported as potential false positive
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Ni	R	Analyte reported as potential false positive
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks
5946	Al	J	Matrix duplicate RPD = 60%
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks
5947	Al	J	Matrix duplicate RPD = 60%
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Se	U	Baseline instability in cal and prep blanks
	Zn	J	Matrix duplicate RPD = 37%
5948	Al	J	Matrix duplicate RPD = 60%
	As	R	Analyte reported as potential false positive
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Se	U	Baseline instability in cal and prep blanks
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks

June 28, 2002

INORGANIC DATA QUALIFIERS REPORT (continued)

Case Number: 30588
Project Number: 02-0753
Site: Turkey Creek, Sumter, SC

Sample No.	Element	Flag	Reason
5949	Al	J	Matrix duplicate RPD = 60%
	As	R	Analyte reported as potential false positive
	Cu	J	PE sample recovery < warning limit
	Fe	J	Matrix duplicate RPD = 70.4%
	Pb	J	Matrix spike recovery = 523.1%
	Mn	J	Matrix duplicate RPD = 137.4%
	Se	U	Baseline instability in cal and prep blanks
	Ag	R	Analyte reported as potential false positive
	Zn	J	Matrix duplicate RPD = 37%
	CN	U	Baseline instability in cal and prep blanks

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5927 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC017SW / MD No: 1C96 Inorg Contractor: SENTIN

Media: SURFACE WATER

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 14:30

Ending:

RESULTS	UNITS	ANALYTE
120	UG/L	ALUMINUM
3.8U	UG/L	ANTIMONY
3.0U	UG/L	ARSENIC
0.40U	UG/L	BARIUM
0.30U	UG/L	BERYLLIUM
0.50U	UG/L	CADMIUM
96U	UG/L	CALCIUM
0.80U	UG/L	CHROMIUM
1.2U	UG/L	COBALT
1.4U	UG/L	COPPER
17U	UG/L	IRON
2.8U	UG/L	LEAD
25U	UG/L	MAGNESIUM
0.40U	UG/L	MANGANESE
0.10U	UG/L	TOTAL MERCURY
1.7U	UG/L	NICKEL
170	UG/L	POTASSIUM
3.5	UG/L	SELENIUM
1.1U	UG/L	SILVER
740	UG/L	SODIUM
3.5U	UG/L	THALLIUM
0.70U	UG/L	VANADIUM
1.4U	UG/L	ZINC
NA	UG/L	CYANIDE

CYANIDE ANALYSIS NOT REQUESTED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5928 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC001SD /

Media: SEDIMENT

Case No: 30588

MD No: 1C97

D No: 1C97

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:00

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
800J	MG/KG	ALUMINUM
0.91U	MG/KG	ANTIMONY
0.72U	MG/KG	ARSENIC
4.4	MG/KG	BARIUM
0.07U	MG/KG	BERYLLIUM
0.12U	MG/KG	CADMIUM
300	MG/KG	CALCIUM
1.6	MG/KG	CHROMIUM
0.29U	MG/KG	COBALT
2.3UJ	MG/KG	COPPER
1600J	MG/KG	IRON
13J	MG/KG	LEAD
210	MG/KG	MAGNESIUM
20J	MG/KG	MANGANESE
0.06U	MG/KG	TOTAL MERCURY
0.85R	MG/KG	NICKEL
100	MG/KG	POTASSIUM
0.59U	MG/KG	SELENIUM
0.26U	MG/KG	SILVER
72U	MG/KG	SODIUM
0.84U	MG/KG	THALLIUM
3.9	MG/KG	VANADIUM
16	MG/KG	ZINC
0.05U	MG/KG	CYANIDE
17	%	% MOISTURE

\-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Production Date: 07/09/2002 14:29

Sample 5929 FY 2002 Project: 02-0753
METALS SCAN
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC001SW /
Media: SURFACE WATER
Case No: 30588
MD No: 1C98
D No: 1C98
Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: Goddard, Denise
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:05
Ending:

RESULTS	UNITS	ANALYTE
420UJ	UG/L	ALUMINUM
3.8U	UG/L	ANTIMONY
3.0U	UG/L	ARSENIC
48	UG/L	BARIUM
0.30U	UG/L	BERYLLIUM
0.50U	UG/L	CADMIUM
12000	UG/L	CALCIUM
0.88R	UG/L	CHROMIUM
1.2U	UG/L	COBALT
2.9	UG/L	COPPER
1200	UG/L	IRON
5.0	UG/L	LEAD
1700J	UG/L	MAGNESIUM
32J	UG/L	MANGANESE
0.10U	UG/L	TOTAL MERCURY
1.7U	UG/L	NICKEL
3900J	UG/L	POTASSIUM
2.2U	UG/L	SELENIUM
1.1U	UG/L	SILVER
9600	UG/L	SODIUM
3.5U	UG/L	THALLIUM
1.6U	UG/L	VANADIUM
30	UG/L	ZINC
NA	UG/L	CYANIDE

CYANIDE ANALYSIS NOT REQUESTED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5930 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC002SD /

Media: SEDIMENT

Case No: 30588

MD No: 1C99

D No: 1C99

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:25

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
4800J	MG/KG	ALUMINUM
1.1U	MG/KG	ANTIMONY
0.97R	MG/KG	ARSENIC
130	MG/KG	BARIUM
1.2	MG/KG	BERYLLIUM
0.14U	MG/KG	CADMIUM
2600	MG/KG	CALCIUM
32	MG/KG	CHROMIUM
1.4	MG/KG	COBALT
12J	MG/KG	COPPER
5200J	MG/KG	IRON
9.6J	MG/KG	LEAD
540	MG/KG	MAGNESIUM
62J	MG/KG	MANGANESE
0.07U	MG/KG	TOTAL MERCURY
11	MG/KG	NICKEL
380	MG/KG	POTASSIUM
0.63U	MG/KG	SELENIUM
0.31U	MG/KG	SILVER
450	MG/KG	SODIUM
1.0U	MG/KG	THALLIUM
9.8	MG/KG	VANADIUM
65J	MG/KG	ZINC
0.07U	MG/KG	CYANIDE
30	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5931 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek
Program: SF
Id/Station: TC003SD /
Media: SEDIMENT

Sumter, SC
Case No: 30588
MD No: 1CA0
D No: 1CA0

Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: Goddard, Denise
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 12:00
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
2600J	MG/KG	ALUMINUM
2.2R	MG/KG	ANTIMONY
1.9	MG/KG	ARSENIC
52	MG/KG	BARIUM
1.2	MG/KG	BERYLLIUM
0.43	MG/KG	CADMIUM
1600	MG/KG	CALCIUM
12	MG/KG	CHROMIUM
2.5	MG/KG	COBALT
46J	MG/KG	COPPER
9800J	MG/KG	IRON
110J	MG/KG	LEAD
240	MG/KG	MAGNESIUM
67J	MG/KG	MANGANESE
0.07U	MG/KG	TOTAL MERCURY
4.3	MG/KG	NICKEL
140	MG/KG	POTASSIUM
1.2U	MG/KG	SELENIUM
0.44R	MG/KG	SILVER
450	MG/KG	SODIUM
1.0U	MG/KG	THALLIUM
11	MG/KG	VANADIUM
160	MG/KG	ZINC
0.07U	MG/KG	CYANIDE
32	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

47757

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5932 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC003SF /

Media: SURFACE SOIL (0" - 12")

Case No: 30588

MD No: 1CA1

D No: 1CA1

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:15

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1400J	MG/KG	ALUMINUM
0.89U	MG/KG	ANTIMONY
2.0	MG/KG	ARSENIC
17	MG/KG	BARIUM
0.67	MG/KG	BERYLLIUM
0.12U	MG/KG	CADMIUM
670	MG/KG	CALCIUM
4.0	MG/KG	CHROMIUM
4.9	MG/KG	COBALT
2.9UJ	MG/KG	COPPER
3900J	MG/KG	IRON
7.1J	MG/KG	LEAD
130	MG/KG	MAGNESIUM
6.5J	MG/KG	MANGANESE
0.06U	MG/KG	TOTAL MERCURY
5.5	MG/KG	NICKEL
120	MG/KG	POTASSIUM
0.52U	MG/KG	SELENIUM
0.26U	MG/KG	SILVER
290	MG/KG	SODIUM
0.82U	MG/KG	THALLIUM
4.8	MG/KG	VANADIUM
81J	MG/KG	ZINC
0.06U	MG/KG	CYANIDE
15	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS/CYANIDE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5933 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC003SW /

Media: SURFACE WATER

Case No: 30588

MD No: 1CA2

D No: 1CA2

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:00

Ending:

RESULTS	UNITS	ANALYTE
200UJ	UG/L	ALUMINUM
3.8U	UG/L	ANTIMONY
3.0U	UG/L	ARSENIC
64	UG/L	BARIUM
0.30U	UG/L	BERYLLIUM
0.50U	UG/L	CADMIUM
17000	UG/L	CALCIUM
0.80U	UG/L	CHROMIUM
1.2U	UG/L	COBALT
5.8	UG/L	COPPER
1800	UG/L	IRON
9.5	UG/L	LEAD
2100J	UG/L	MAGNESIUM
160J	UG/L	MANGANESE
0.10U	UG/L	TOTAL MERCURY
1.8R	UG/L	NICKEL
5400J	UG/L	POTASSIUM
3.0U	UG/L	SELENIUM
1.1U	UG/L	SILVER
21000	UG/L	SODIUM
3.5U	UG/L	THALLIUM
1.4U	UG/L	VANADIUM
34	UG/L	ZINC
NA	UG/L	CYANIDE

CYANIDE ANALYSIS NOT REQUESTED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5934 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC004SD /
Media: SEDIMENT

Case No: 30588
MD No: 1CA3
D No: 1CA3

Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: Goddard, Denise
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1000J	MG/KG	ALUMINUM
1.6	MG/KG	ANTIMONY
110	MG/KG	ARSENIC
22	MG/KG	BARIUM
0.40	MG/KG	BERYLLIUM
0.12U	MG/KG	CADMIUM
650	MG/KG	CALCIUM
3.2	MG/KG	CHROMIUM
4.8	MG/KG	COBALT
18J	MG/KG	COPPER
76000J	MG/KG	IRON
28J	MG/KG	LEAD
140	MG/KG	MAGNESIUM
33J	MG/KG	MANGANESE
0.06U	MG/KG	TOTAL MERCURY
11	MG/KG	NICKEL
79	MG/KG	POTASSIUM
4.0	MG/KG	SELENIUM
3.0	MG/KG	SILVER
960	MG/KG	SODIUM
2.9	MG/KG	THALLIUM
1.7	MG/KG	VANADIUM
41J	MG/KG	ZINC
0.04U	MG/KG	CYANIDE
16	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

4760

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5935 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC004SF /

Media: SURFACE SOIL (0" - 12")

Case No: 30588

MD No: 1CA4

D No: 1CA4

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1500J	MG/KG	ALUMINUM
0.88R	MG/KG	ANTIMONY
1.8	MG/KG	ARSENIC
24	MG/KG	BARIUM
1.2	MG/KG	BERYLLIUM
0.43	MG/KG	CADMIUM
520	MG/KG	CALCIUM
5.9	MG/KG	CHROMIUM
1.2	MG/KG	COBALT
17J	MG/KG	COPPER
7500J	MG/KG	IRON
52J	MG/KG	LEAD
140	MG/KG	MAGNESIUM
34J	MG/KG	MANGANESE
0.05U	MG/KG	TOTAL MERCURY
3.0	MG/KG	NICKEL
97	MG/KG	POTASSIUM
0.46U	MG/KG	SELENIUM
0.46R	MG/KG	SILVER
330	MG/KG	SODIUM
0.73U	MG/KG	THALLIUM
5.5	MG/KG	VANADIUM
130J	MG/KG	ZINC
0.12U	MG/KG	CYANIDE
4	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5936 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC005SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA5

D No: 1CA5

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:10

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
3400J	MG/KG	ALUMINUM
1.6	MG/KG	ANTIMONY
2.1	MG/KG	ARSENIC
43	MG/KG	BARIUM
1.1	MG/KG	BERYLLIUM
0.54R	MG/KG	CADMIUM
590	MG/KG	CALCIUM
12	MG/KG	CHROMIUM
1.6	MG/KG	COBALT
30J	MG/KG	COPPER
7300J	MG/KG	IRON
81J	MG/KG	LEAD
200	MG/KG	MAGNESIUM
20J	MG/KG	MANGANESE
0.09U	MG/KG	TOTAL MERCURY
4.1	MG/KG	NICKEL
220	MG/KG	POTASSIUM
1.0U	MG/KG	SELENIUM
0.41	MG/KG	SILVER
750	MG/KG	SODIUM
1.3U	MG/KG	THALLIUM
13	MG/KG	VANADIUM
170J	MG/KG	ZINC
0.07U	MG/KG	CYANIDE
44	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS | **EPA - REGION IV SESD, ATHENS, GA** | **Production Date: 07/09/2002 14:29**

Sample 5937 FY 2002 Project: 02-0753
METALS SCAN
Facility: Turkey Creek Sumter, SC
Program: SF Case No: 30588
Id/Station: TC005SF / MD No: 1CA6 Inorg Contractor: SENTIN
Media: SURFACE SOIL (0" - 12") D No: 1CA6 Org Contractor: LIBRTY

Produced by: Goddard, Denise
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:00
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
1800J	MG/KG	ALUMINUM
1.6	MG/KG	ANTIMONY
1.1	MG/KG	ARSENIC
25	MG/KG	BARIUM
0.48	MG/KG	BERYLLIUM
0.23	MG/KG	CADMIUM
260	MG/KG	CALCIUM
7.4	MG/KG	CHROMIUM
0.67	MG/KG	COBALT
21J	MG/KG	COPPER
4300J	MG/KG	IRON
91J	MG/KG	LEAD
120	MG/KG	MAGNESIUM
12J	MG/KG	MANGANESE
0.06U	MG/KG	TOTAL MERCURY
2.1	MG/KG	NICKEL
140	MG/KG	POTASSIUM
0.78U	MG/KG	SELENIUM
0.24U	MG/KG	SILVER
390	MG/KG	SODIUM
0.77U	MG/KG	THALLIUM
9.7	MG/KG	VANADIUM
73J	MG/KG	ZINC
0.05U	MG/KG	CYANIDE
9	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

4763

Production Date: 07/09/2002 14:29

Sample 5938 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC007SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA7

D No: 1CA7

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:35

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
540J	MG/KG	ALUMINUM
1.0U	MG/KG	ANTIMONY
0.80U	MG/KG	ARSENIC
6.6	MG/KG	BARIUM
0.23	MG/KG	BERYLLIUM
0.13U	MG/KG	CADMIUM
210	MG/KG	CALCIUM
1.8	MG/KG	CHROMIUM
0.45R	MG/KG	COBALT
4.1UJ	MG/KG	COPPER
1400J	MG/KG	IRON
8.6J	MG/KG	LEAD
30U	MG/KG	MAGNESIUM
6.0J	MG/KG	MANGANESE
0.07U	MG/KG	TOTAL MERCURY
1.1	MG/KG	NICKEL
74	MG/KG	POTASSIUM
0.59U	MG/KG	SELENIUM
0.29U	MG/KG	SILVER
240	MG/KG	SODIUM
0.93U	MG/KG	THALLIUM
2.2	MG/KG	VANADIUM
25J	MG/KG	ZINC
0.05U	MG/KG	CYANIDE
25	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5939 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC008SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA8

D No: 1CA8

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:55

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
3600J	MG/KG	ALUMINUM
7.4	MG/KG	ANTIMONY
2.0R	MG/KG	ARSENIC
70	MG/KG	BARIUM
1.2	MG/KG	BERYLLIUM
0.79	MG/KG	CADMIUM
1700	MG/KG	CALCIUM
36	MG/KG	CHROMIUM
2.4	MG/KG	COBALT
240J	MG/KG	COPPER
6500J	MG/KG	IRON
140J	MG/KG	LEAD
260	MG/KG	MAGNESIUM
24J	MG/KG	MANGANESE
0.62	MG/KG	TOTAL MERCURY
6.2	MG/KG	NICKEL
180	MG/KG	POTASSIUM
0.74U	MG/KG	SELENIUM
0.59	MG/KG	SILVER
740	MG/KG	SODIUM
1.2U	MG/KG	THALLIUM
12	MG/KG	VANADIUM
260J	MG/KG	ZINC
0.09U	MG/KG	CYANIDE
41	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Production Date: 07/09/2002 14:29

Sample 5940 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC009SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA9

D No: 1CA9

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
6300J	MG/KG	ALUMINUM
1.1U	MG/KG	ANTIMONY
2.4R	MG/KG	ARSENIC
27	MG/KG	BARIUM
0.18	MG/KG	BERYLLIUM
0.15U	MG/KG	CADMIUM
6200	MG/KG	CALCIUM
12	MG/KG	CHROMIUM
0.87	MG/KG	COBALT
10J	MG/KG	COPPER
7500J	MG/KG	IRON
42J	MG/KG	LEAD
290	MG/KG	MAGNESIUM
44J	MG/KG	MANGANESE
0.07U	MG/KG	TOTAL MERCURY
2.6	MG/KG	NICKEL
250	MG/KG	POTASSIUM
0.90U	MG/KG	SELENIUM
0.32U	MG/KG	SILVER
480	MG/KG	SODIUM
1.0U	MG/KG	THALLIUM
19	MG/KG	VANADIUM
40J	MG/KG	ZINC
0.22U	MG/KG	CYANIDE
32	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5941 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC009SW /

Media: SURFACE WATER

Case No: 30588

MD No: 1CB0

D No: 1CB0

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:40

Ending:

RESULTS	UNITS	ANALYTE
250UJ	UG/L	ALUMINUM
3.8U	UG/L	ANTIMONY
3.3	UG/L	ARSENIC
51	UG/L	BARIUM
0.30U	UG/L	BERYLLIUM
0.50U	UG/L	CADMIUM
11000	UG/L	CALCIUM
0.80U	UG/L	CHROMIUM
1.2U	UG/L	COBALT
2.2	UG/L	COPPER
2700	UG/L	IRON
5.7	UG/L	LEAD
1400J	UG/L	MAGNESIUM
48J	UG/L	MANGANESE
0.10U	UG/L	TOTAL MERCURY
1.7U	UG/L	NICKEL
3000J	UG/L	POTASSIUM
2.2U	UG/L	SELENIUM
1.1U	UG/L	SILVER
13000	UG/L	SODIUM
3.5U	UG/L	THALLIUM
2.9U	UG/L	VANADIUM
11	UG/L	ZINC
NA	UG/L	CYANIDE

CYANIDE ANALYSIS NOT REQUESTED

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5942 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek
Program: SF
Id/Station: TC010SD /
Media: SEDIMENT

Sumter, SC
Case No: 30588
MD No: 1CB1
D No: 1CB1

Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: Goddard, Denise
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 15:10
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
350UJ	MG/KG	ALUMINUM
1.2	MG/KG	ANTIMONY
0.79U	MG/KG	ARSENIC
3.3	MG/KG	BARIUM
0.08U	MG/KG	BERYLLIUM
0.13U	MG/KG	CADMIUM
130	MG/KG	CALCIUM
3.4	MG/KG	CHROMIUM
0.34	MG/KG	COBALT
6.9J	MG/KG	COPPER
440J	MG/KG	IRON
7.5J	MG/KG	LEAD
18U	MG/KG	MAGNESIUM
2.4UJ	MG/KG	MANGANESE
0.07U	MG/KG	TOTAL MERCURY
0.88	MG/KG	NICKEL
62	MG/KG	POTASSIUM
0.58U	MG/KG	SELENIUM
0.29U	MG/KG	SILVER
290	MG/KG	SODIUM
0.92U	MG/KG	THALLIUM
0.80R	MG/KG	VANADIUM
46J	MG/KG	ZINC
0.06U	MG/KG	CYANIDE
24	%	% MOISTURE

-average value. NA-not analyzed. NAI-interferences; J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5943 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC010SW /

Media: SURFACE WATER

Case No: 30588

MD No: 1CB2

D No: 1CB2

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:05

Ending:

RESULTS	UNITS	ANALYTE
230UJ	UG/L	ALUMINUM
3.8U	UG/L	ANTIMONY
3.0U	UG/L	ARSENIC
44	UG/L	BARIUM
0.30U	UG/L	BERYLLIUM
0.50U	UG/L	CADMIUM
11000	UG/L	CALCIUM
0.80U	UG/L	CHROMIUM
1.2U	UG/L	COBALT
2.2	UG/L	COPPER
2300	UG/L	IRON
4.0	UG/L	LEAD
1200J	UG/L	MAGNESIUM
45J	UG/L	MANGANESE
0.10U	UG/L	TOTAL MERCURY
1.7U	UG/L	NICKEL
3500J	UG/L	POTASSIUM
2.2U	UG/L	SELENIUM
1.1U	UG/L	SILVER
9200	UG/L	SODIUM
3.5U	UG/L	THALLIUM
2.4U	UG/L	VANADIUM
16	UG/L	ZINC
NA	UG/L	CYANIDE

CYANIDE ANALYSIS NOT REQUESTED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Production Date: 07/09/2002 14:29

Sample 5944 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek, Sumter, SC

Program: SF

Id/Station: TC011SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB3

D No: 1CB3

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 14:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
16000J	MG/KG	ALUMINUM
59	MG/KG	ANTIMONY
14	MG/KG	ARSENIC
340	MG/KG	BARIUM
2.9	MG/KG	BERYLLIUM
3.6	MG/KG	CADMIUM
2900	MG/KG	CALCIUM
700	MG/KG	CHROMIUM
4.1	MG/KG	COBALT
1100J	MG/KG	COPPER
11000J	MG/KG	IRON
660J	MG/KG	LEAD
820	MG/KG	MAGNESIUM
47J	MG/KG	MANGANESE
2.3	MG/KG	TOTAL MERCURY
17	MG/KG	NICKEL
420	MG/KG	POTASSIUM
2.8U	MG/KG	SELENIUM
5.4	MG/KG	SILVER
1700	MG/KG	SODIUM
2.4U	MG/KG	THALLIUM
58	MG/KG	VANADIUM
760J	MG/KG	ZINC
0.13U	MG/KG	CYANIDE
71	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

4770

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5945 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek
Program: SF
Id/Station: TC012SD /
Media: SEDIMENT

Sumter, SC
Case No: 30588
MD No: 1CB4
D No: 1CB4

Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: Goddard, Denise
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 14:40
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
9300J	MG/KG	ALUMINUM
100	MG/KG	ANTIMONY
5.0R	MG/KG	ARSENIC
190	MG/KG	BARIUM
2.3	MG/KG	BERYLLIUM
2.2	MG/KG	CADMIUM
3200	MG/KG	CALCIUM
180	MG/KG	CHROMIUM
2.8	MG/KG	COBALT
640J	MG/KG	COPPER
8700J	MG/KG	IRON
380J	MG/KG	LEAD
580	MG/KG	MAGNESIUM
44J	MG/KG	MANGANESE
0.92	MG/KG	TOTAL MERCURY
11	MG/KG	NICKEL
260	MG/KG	POTASSIUM
1.1U	MG/KG	SELENIUM
2.0	MG/KG	SILVER
1400	MG/KG	SODIUM
1.8U	MG/KG	THALLIUM
32	MG/KG	VANADIUM
510J	MG/KG	ZINC
0.15U	MG/KG	CYANIDE
62	%	% MOISTURE

\-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5946 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC013SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB5

D No: 1CB5

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
14000J	MG/KG	ALUMINUM
88	MG/KG	ANTIMONY
4.5	MG/KG	ARSENIC
300	MG/KG	BARIUM
3.2	MG/KG	BERYLLIUM
0.91	MG/KG	CADMIUM
2000	MG/KG	CALCIUM
220	MG/KG	CHROMIUM
3.0	MG/KG	COBALT
280J	MG/KG	COPPER
11000J	MG/KG	IRON
400J	MG/KG	LEAD
400	MG/KG	MAGNESIUM
37J	MG/KG	MANGANESE
1.5	MG/KG	TOTAL MERCURY
9.7	MG/KG	NICKEL
270	MG/KG	POTASSIUM
2.0	MG/KG	SELENIUM
4.4	MG/KG	SILVER
990	MG/KG	SODIUM
1.2U	MG/KG	THALLIUM
29	MG/KG	VANADIUM
260J	MG/KG	ZINC
0.40U	MG/KG	CYANIDE
41	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5947 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC014SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB6

D No: 1CB6

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:50

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
12000J	MG/KG	ALUMINUM
410	MG/KG	ANTIMONY
6.7	MG/KG	ARSENIC
230	MG/KG	BARIUM
2.1	MG/KG	BERYLLIUM
3.1	MG/KG	CADMIUM
3000	MG/KG	CALCIUM
440	MG/KG	CHROMIUM
3.7	MG/KG	COBALT
510J	MG/KG	COPPER
11000J	MG/KG	IRON
420J	MG/KG	LEAD
590	MG/KG	MAGNESIUM
58J	MG/KG	MANGANESE
1.7	MG/KG	TOTAL MERCURY
11	MG/KG	NICKEL
360	MG/KG	POTASSIUM
1.8U	MG/KG	SELENIUM
4.3	MG/KG	SILVER
1900	MG/KG	SODIUM
1.7U	MG/KG	THALLIUM
24	MG/KG	VANADIUM
860J	MG/KG	ZINC
7.1	MG/KG	CYANIDE
59	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5948 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC015SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB7 Inorg Contractor: SENTIN

D No: 1CB7 Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:00

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
9500J	MG/KG	ALUMINUM
20	MG/KG	ANTIMONY
1.7R	MG/KG	ARSENIC
200	MG/KG	BARIUM
1.3	MG/KG	BERYLLIUM
1.3	MG/KG	CADMIUM
2500	MG/KG	CALCIUM
240	MG/KG	CHROMIUM
1.9	MG/KG	COBALT
91J	MG/KG	COPPER
8900J	MG/KG	IRON
210J	MG/KG	LEAD
320	MG/KG	MAGNESIUM
54J	MG/KG	MANGANESE
2.0	MG/KG	TOTAL MERCURY
6.1	MG/KG	NICKEL
270	MG/KG	POTASSIUM
1.7U	MG/KG	SELENIUM
3.3	MG/KG	SILVER
1000	MG/KG	SODIUM
1.3U	MG/KG	THALLIUM
20	MG/KG	VANADIUM
380J	MG/KG	ZINC
0.23U	MG/KG	CYANIDE
45	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

METALS SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/09/2002 14:29

Sample 5949 FY 2002 Project: 02-0753

METALS SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC016SD / MD No: 1CB8 Inorg Contractor: SENTIN

Media: SEDIMENT D No: 1CB8 Org Contractor: LIBRTY

Produced by: Goddard, Denise

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:30

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
6900J	MG/KG	ALUMINUM
3.4	MG/KG	ANTIMONY
1.2R	MG/KG	ARSENIC
98	MG/KG	BARIUM
0.79	MG/KG	BERYLLIUM
1.3	MG/KG	CADMIUM
1100	MG/KG	CALCIUM
38	MG/KG	CHROMIUM
1.6	MG/KG	COBALT
37J	MG/KG	COPPER
4400J	MG/KG	IRON
57J	MG/KG	LEAD
160	MG/KG	MAGNESIUM
14J	MG/KG	MANGANESE
0.44	MG/KG	TOTAL MERCURY
5.5	MG/KG	NICKEL
140	MG/KG	POTASSIUM
1.4U	MG/KG	SELENIUM
0.49R	MG/KG	SILVER
750	MG/KG	SODIUM
1.2U	MG/KG	THALLIUM
12	MG/KG	VANADIUM
200J	MG/KG	ZINC
0.66U	MG/KG	CYANIDE
42	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

MEMORANDUM

Date: 07/24/2002

Subject: Results of EXTRACTABLES Sample Analysis
02-0753 Turkey Creek
Sumter, SC

From: McConney, John

To: Tanner, Terry

CC: Jonathan McInnis
SCDHEC

Thru: QA Office

Attached are the results of analysis of samples collected as part of the subject project. If you have any questions, please contact me.

ATTACHMENT

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
VOA			
5928,5930-5932, 5934-5940,5942, 5944-5950	dichlorodifluoromethane, chloromethane, vinyl chloride, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, 1,2-dibromo-3-chloropropane	J	erratic continuing calibration response factor
5931,5940	carbon disulfide	J	< quantitation limit
5939	carbon disulfide, benzene,	J	< quantitation limit
5945	methylcyclohexane	J	< quantitation limit
BNA			
5928,5930,5934-5938	hexachlorocyclopentadiene, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, di-n-octylphthalate, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	erratic continuing calibration response factor
5928	phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5929,5931,5933, 5939-5949	di-n-octylphthalate	J	erratic continuing calibration response factor
5930	4-chloro-3-methylphenol, acenaphthene, 2,4-dinitrotoluene, pentachlorophenol, phenanthrene, fluoranthene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5931	benzaldehyde, 4-methylphenol, acenaphthylene, acenaphthene, dibenzofuran, fluorene, anthracene, carbazole, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5932	hexachlorocyclopentadiene	J	erratic continuing calibration response factor

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
5932	2-methylnaphthalene, 1,1'-biphenyl, acenaphthene, dibenzofuran, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5934	acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, benzo(a)anthracene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5935	phenanthrene, anthracene, carbazole, benzo(a)anthracene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5936	benzaldehyde, 2,2'-oxybis(1-chloropropane), acenaphthylene, phenanthene, anthracene, carbazole, dibenzo(a,h)anthracene	J	< quantitation limit
5937	caprolactam, acenaphthylene, phenanthrene, anthracene, carbazole, dibenzo(a,h)anthracene	J	< quantitation limit
5938	fluoranthene, pyrene	J	< quantitation limit
5939	naphthalene, 2-methylnaphthalene, dibenzofuran, dibenzo(a,h)anthracene	J	< quantitation limit
5940	phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluroanthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benzo(g,h,i)perylene	J	< quantitation limit
5942	fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluroanthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene	J	< quantitation limit

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
5944	fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluroanthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benzo(g,h,i)perylene	J	< quantitation limit
5945	fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluroanthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene	J	< quantitation limit
5946	acenaphthylene, phenanthrene, anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5947	acenaphthylene, acenaphthene, fluorene, anthracene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
5948	phenanthrene, anthracene, dibenzo(a,h)anthracene	J	< quantitation limit
5949	benzaldehyde, acetophenone, phenanthrene, anthracene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene	J	< quantitation limit
PEST			
5928,5930-5932, 5934-5940,5942, 5944-5949	all compounds	J	exceeded holding times
5928	4,4'-DDD	J,N	< quantitation limit, difference in columns
5931	dieldrin, alpha-chlordane, gamma-chlordane	J	high surrogate recovery
5931	dieldrin, alpha-chlordane	N	difference in columns
5932	endosulfan sulfate, 4,4'-DDT, endrin aldehyde	J	high surrogate recovery, outside calibration range

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
5932	endosulfan II, endosulfan sulfate, gamma-chlordane	N	difference in columns
5934	alpha-chlordane	N	difference in columns
5935,5936,5939	4,4'-DDE, 4,4'-DDD, alpha-chlordane, gamma-chlordane	J	high surrogate recovery
5935,5936	alpha-chlordane	N	difference in columns
5936	4,4'-DDE	J	< quantitation limit
5937	dieldrin, 4,4'-DDE, 4,4'-DDD, gamma-chlordane	J	high surrogate recovery
5937,5940	dieldrin	N	difference in columns
5939	4,4'-DDE, alpha-chlordane	N	difference in columns
5944	4,4'-DDE, 4,4'-DDD	C	GC/MS confirmed
5944	alpha-chlordane	N	difference in columns
5945	dieldrin, 4,4'-DDE, endrin, endosulfan sulfate	J,N	high surrogate recovery, difference in columns
5945	4,4'-DDD	C	GC/MS confirmed
5946	endosulfan sulfate, endrin aldehyde	J	high surrogate recovery
5946	endosulfan sulfate, endrin aldehyde, alpha-chlordane, gamma-chlordane	N	difference in columns
5947	4,4'-DDE, endosulfan sulfate, endrin ketone, endrin aldehyde, alpha-chlordane, gamma-chlordane	J	high surrogate recovery
5947	4,4'-DDE, endosulfan sulfate, endrin ketone, alpha-chlordane, gamma-chlordane	N	difference in columns
5948	4,4'-DDD, endrin ketone, endrin aldehyde, gamma-chlordane	J	high surrogate recovery
5948	4,4'-DDD, endrin ketone, endrin aldehyde	N	difference in columns

ORGANIC DATA QUALIFIER REPORT

Case Number: 30588 Project Number 02-0753 SAS Number N/A

Site ID. Turkey Creek, Sumter, SC

Date: 7/16/02

Affected Samples	Compound or Fraction	Flag Used	Reason
5948	gamma-chlordane	J	out of calibration range
5949	gamma-chlordane	J	high surrogate recovery

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5928 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC001SD / MD No: 1C97 Inorg Contractor: SENTIN

Media: SEDIMENT D No: 1C97 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:00

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
390U	UG/KG	BENZALDEHYDE
390U	UG/KG	PHENOL
390U	UG/KG	BIS(2-CHLOROETHYL) ETHER
390U	UG/KG	2-CHLOROPHENOL
390U	UG/KG	2-METHYLPHENOL
390U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
390U	UG/KG	ACETOPHENONE
390U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
390U	UG/KG	N-NITROSODI-N-PROPYLAMINE
390U	UG/KG	HEXACHLOROETHANE
390U	UG/KG	NITROBENZENE
390U	UG/KG	ISOPHORONE
390U	UG/KG	2-NITROPHENOL
390U	UG/KG	2,4-DIMETHYLPHENOL
390U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
390U	UG/KG	2,4-DICHLOROPHENOL
390U	UG/KG	NAPHTHALENE
390U	UG/KG	4-CHLOROANILINE
390U	UG/KG	HEXACHLOROBUTADIENE
390U	UG/KG	CAPROLACTAM
390U	UG/KG	4-CHLORO-3-METHYLPHENOL
390U	UG/KG	2-METHYLNAPHTHALENE
390UJ	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
390U	UG/KG	2,4,6-TRICHLOROPHENOL
990U	UG/KG	2,4,5-TRICHLOROPHENOL
390U	UG/KG	1,1-BIPHENYL
390U	UG/KG	2-CHLORONAPHTHALENE
990U	UG/KG	2-NITROANILINE
390U	UG/KG	DIMETHYL PHTHALATE
390U	UG/KG	2,6-DINITROTOLUENE
390U	UG/KG	ACENAPHTHYLENE
990U	UG/KG	3-NITROANILINE
390U	UG/KG	ACENAPHTHENE
990UJ	UG/KG	2,4-DINITROPHENOL
990U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
390U	UG/KG	DIBENZOFURAN
390U	UG/KG	2,4-DINITROTOLUENE
390U	UG/KG	DIETHYL PHTHALATE
390U	UG/KG	FLUORENE
390U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
990U	UG/KG	4-NITROANILINE
990UJ	UG/KG	2-METHYL-4,6-DINITROPHENOL
390U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
390U	UG/KG	4-BROMOPHENYL PHENYL ETHER
390U	UG/KG	HEXACHLOROBENZENE (HCB)
390U	UG/KG	ATRAZINE
990U	UG/KG	PENTACHLOROPHENOL
150J	UG/KG	PHENANTHRENE
390U	UG/KG	ANTHRACENE
390U	UG/KG	CARBAZOLE
390U	UG/KG	DI-N-BUTYLPHTHALATE
370J	UG/KG	FLUORANTHENE
370J	UG/KG	PYRENE
390U	UG/KG	BENZYL BUTYL PHTHALATE
390U	UG/KG	3,3'-DICHLOROBENZIDINE
140J	UG/KG	BENZO(A)ANTHRACENE
250J	UG/KG	CHRYSENE
390U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
390UJ	UG/KG	DI-N-OCTYLPHTHALATE
190J	UG/KG	BENZO(B)FLUORANTHENE
220J	UG/KG	BENZO(K)FLUORANTHENE
150J	UG/KG	BENZO-A-PYRENE
140J	UG/KG	INDENO (1,2,3-CD) PYRENE
55J	UG/KG	DIBENZO(A,H)ANTHRACENE
130J	UG/KG	BENZO(GHI)PERYLENE
16	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5928 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC001SD /

Media: SEDIMENT

Case No: 30588

MD No: 1C97

D No: 1C97

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:00

Ending:

RESULTS	UNITS	ANALYTE
4300J	UG/KG	11 UNKNOWN COMPOUNDS
280J	UG/KG	CYCLOTETRASILOXANE, OCTAMETH
210J	UG/KG	UNKNOWN SILOXANE (BC)
100JN	UG/KG	METHYLANTHRACENE
98NJ	UG/KG	HEXADECANOIC ACID
330JN	UG/KG	METHYLPYRENE (2 ISOMERS)
270NJ	UG/KG	11H-BENZO [A] FLUORENE
90NJ	UG/KG	PYRENE, 4-METHYL-
110JN	UG/KG	UNKNOWN ALKENE
230NJ	UG/KG	CHOLESTANE
190NJ	UG/KG	PERYLENE
400NJ	UG/KG	28-NOR-17.ALPHA.(H)-HOPANE
200NJ	UG/KG	1-OCTADECENE

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5929 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC001SW / MD No: 1C98 Inorg Contractor: SENTIN

Media: SURFACE WATER D No: 1C98 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:05

Ending:

RESULTS	UNITS	ANALYTE
10U	UG/L	BENZALDEHYDE
10U	UG/L	PHENOL
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	2-CHLOROPHENOL
10U	UG/L	2-METHYLPHENOL
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	ACETOPHENONE
10U	UG/L	(3-AND/OR 4-)METHYLPHENOL
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	NITROBENZENE
10U	UG/L	ISOPHORONE
10U	UG/L	2-NITROPHENOL
10U	UG/L	2,4-DIMETHYLPHENOL
10U	UG/L	BIS(2-CHLOROETHOXY)METHANE
10U	UG/L	2,4-DICHLOROPHENOL
10U	UG/L	NAPHTHALENE
10U	UG/L	4-CHLOROANILINE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	CAPROLACTAM
10U	UG/L	4-CHLORO-3-METHYLPHENOL
10U	UG/L	2-METHYLNAPHTHALENE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2,4,6-TRICHLOROPHENOL
25U	UG/L	2,4,5-TRICHLOROPHENOL
10U	UG/L	1,1-BIPHENYL
10U	UG/L	2-CHLORONAPHTHALENE
25U	UG/L	2-NITROANILINE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	ACENAPHTHYLENE
25U	UG/L	3-NITROANILINE
10U	UG/L	ACENAPHTHENE
25U	UG/L	2,4-DINITROPHENOL
25U	UG/L	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
10U	UG/L	DIBENZOFURAN
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	FLUORENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
25U	UG/L	4-NITROANILINE
25U	UG/L	2-METHYL-4,6-DINITROPHENOL
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	ATRAZINE
25U	UG/L	PENTACHLOROPHENOL
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	CARBAZOLE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B)FLUORANTHENE
10U	UG/L	BENZO(K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 07/24/2002 08:14

Sample 5929 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC001SW /
Media: SURFACE WATER
Case No: 30588
MD No: 1C98
D No: 1C98
Inorg Contractor: SENTIN
Org Contractor: LIBRTY
Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:05
Ending:

RESULTS	UNITS	ANALYTE
6JN	UG/L	TRICHLOROPROPENE

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 07/24/2002 08:14

Sample 5930 FY 2002 Project: 02-0753
EXTRACTABLES SCAN
Facility: Turkey Creek — Sumter, SC
Program; SF — Case No: 30588
Id/Station: TC002SD / — MD No: 1C99 — Inorg Contractor: SENTIN
Media: SEDIMENT — D No: 1C99 — Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:25
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
490U	UG/KG	BENZALDEHYDE
490U	UG/KG	PHENOL
490U	UG/KG	BIS(2-CHLOROETHYL) ETHER
490U	UG/KG	2-CHLOROPHENOL
490U	UG/KG	2-METHYLPHENOL
490U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
490U	UG/KG	ACETOPHENONE
490U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
490U	UG/KG	N-NITROSODI-N-PROPYLAMINE
490U	UG/KG	HEXACHLOROETHANE
490U	UG/KG	NITROBENZENE
490U	UG/KG	ISOPHORONE
490U	UG/KG	2-NITROPHENOL
490U	UG/KG	2,4-DIMETHYLPHENOL
490U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
490U	UG/KG	2,4-DICHLOROPHENOL
490U	UG/KG	NAPHTHALENE
490U	UG/KG	4-CHLOROANILINE
490U	UG/KG	HEXACHLOROBUTADIENE
490U	UG/KG	CAPROLACTAM
140J	UG/KG	4-CHLORO-3-METHYLPHENOL
490U	UG/KG	2-METHYLNAPHTHALENE
490UJ	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
490U	UG/KG	2,4,6-TRICHLOROPHENOL
1200U	UG/KG	2,4,5-TRICHLOROPHENOL
490U	UG/KG	1,1-BIPHENYL
490U.	UG/KG	2-CHLORONAPHTHALENE
1200U	UG/KG	2-NITROANILINE
490U	UG/KG	DIMETHYL PHTHALATE
490U	UG/KG	2,6-DINITROTOLUENE
490U	UG/KG	ACENAPHTHYLENE
1200U	UG/KG	3-NITROANILINE
110J	UG/KG	ACENAPHTHENE
1200UJ	UG/KG	2,4-DINITROPHENOL
1200U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
490U	UG/KG	DIBENZOFURAN
68J	UG/KG	2,4-DINITROTOLUENE
490U	UG/KG	DIETHYL PHTHALATE
490U	UG/KG	FLUORENE
490U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
1200U	UG/KG	4-NITROANILINE
1200UJ	UG/KG	2-METHYL-4,6-DINITROPHENOL
490U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
490U	UG/KG	4-BROMOPHENYL PHENYL ETHER
490U	UG/KG	HEXACHLOROBENZENE (HCB)
490U	UG/KG	ATRAZINE
130J	UG/KG	PENTACHLOROPHENOL
220J	UG/KG	PHENANTHRENE
490U	UG/KG	ANTHRACENE
490U	UG/KG	CARBAZOLE
490U	UG/KG	DI-N-BUTYLPHTHALATE
410J	UG/KG	FLUORANTHENE
500	UG/KG	PYRENE
490U	UG/KG	BENZYL BUTYL PHTHALATE
490U	UG/KG	3,3'-DICHLOROBENZIDINE
160J	UG/KG	BENZO(A)ANTHRACENE
230J	UG/KG	CHRYSENE
490U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
490UJ	UG/KG	DI-N-OCTYLPHTHALATE
180J	UG/KG	BENZO(B)FLUORANTHENE
190J	UG/KG	BENZO(K)FLUORANTHENE
160J	UG/KG	BENZO-A-PYRENE
140J	UG/KG	INDENO (1,2,3-CD) PYRENE
62J	UG/KG	DIBENZO(A,H)ANTHRACENE
140J	UG/KG	BENZO(GHI)PERYLENE
32	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

4786

EXTRACTABLES SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — **Production Date: 07/24/2002 08:14**

Sample 5930 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC002SD /
Media: SEDIMENT
Case No: 30588
MD No: 1C99
D No: 1C99
Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:25
Ending:

RESULTS	UNITS	ANALYTE
4600J	UG/KG	14 UNKNOWN COMPOUNDS
270J	UG/KG	CYCLOTETRASILOXANE, OCTAMETH
190JN	UG/KG	UNKNOWN AMINE
130NJ	UG/KG	HEXADECANOIC ACID
120NJ	UG/KG	4H-CYCLOPENTA [DEF] PHENANTHRE
160NJ	UG/KG	11H-BENZO [A] FLUORENE
140NJ	UG/KG	9-OCTADECENAMIDE, (Z) -
120JN	UG/KG	UNKNOWN AMIDE
180NJ	UG/KG	BENZO [E] PYRENE
130NJ	UG/KG	28-NOR-17.BETA. (H) - HOPANE
1700NJ	UG/KG	CYCLOHEXANONE, 2,3,3-TRIMETH

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5931 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC003SD / MD No: 1CA0 Inorg Contractor: SENTIN

Media: SEDIMENT D No: 1CA0 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 12:00

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
52J	UG/KG	BENZALDEHYDE
520U	UG/KG	PHENOL
520U	UG/KG	BIS(2-CHLOROETHYL) ETHER
520U	UG/KG	2-CHLOROPHENOL
520U	UG/KG	2-METHYLPHENOL
520U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
520U	UG/KG	ACETOPHENONE
160J	UG/KG	(3-AND/OR 4-)METHYLPHENOL
520U	UG/KG	N-NITROSODI-N-PROPYLAMINE
520U	UG/KG	HEXACHLOROETHANE
520U	UG/KG	NITROBENZENE
520U	UG/KG	ISOPHORONE
520U	UG/KG	2-NITROPHENOL
520U	UG/KG	2,4-DIMETHYLPHENOL
520U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
520U	UG/KG	2,4-DICHLOROPHENOL
520U	UG/KG	NAPHTHALENE
520U	UG/KG	4-CHLOROANILINE
520U	UG/KG	HEXACHLOROBUTADIENE
520U	UG/KG	CAPROLACTAM
520U	UG/KG	4-CHLORO-3-METHYLPHENOL
520U	UG/KG	2-METHYLNAPHTHALENE
520U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
520U	UG/KG	2,4,6-TRICHLOROPHENOL
1300U	UG/KG	2,4,5-TRICHLOROPHENOL
520U	UG/KG	1,1-BIPHENYL
520U	UG/KG	2-CHLORONAPHTHALENE
1300U	UG/KG	2-NITROANILINE
520U	UG/KG	DIMETHYL PHTHALATE
520U	UG/KG	2,6-DINITROTOLUENE
94J	UG/KG	ACENAPHTHYLENE
1300U	UG/KG	3-NITROANILINE
250J	UG/KG	ACENAPHTHENE
1300U	UG/KG	2,4-DINITROPHENOL
1300U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
160J	UG/KG	DIBENZOFURAN
520U	UG/KG	2,4-DINITROTOLUENE
520U	UG/KG	DIETHYL PHTHALATE
310J	UG/KG	FLUORENE
520U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
1300U	UG/KG	4-NITROANILINE
1300U	UG/KG	2-METHYL-4,6-DINITROPHENOL
520U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
520U	UG/KG	4-BROMOPHENYL PHENYL ETHER
520U	UG/KG	HEXACHLOROBENZENE (HCB)
520U	UG/KG	ATRAZINE
1300U	UG/KG	PENTACHLOROPHENOL
1300	UG/KG	PHENANTHRENE
200J	UG/KG	ANTHRACENE
110J	UG/KG	CARBAZOLE
520U	UG/KG	DI-N-BUTYLPHTHALATE
1900	UG/KG	FLUORANTHENE
1900	UG/KG	PYRENE
520U	UG/KG	BENZYL BUTYL PHTHALATE
520U	UG/KG	3,3'-DICHLOROBENZIDINE
720	UG/KG	BENZO(A)ANTHRACENE
1000	UG/KG	CHRYSENE
2800	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
2700J	UG/KG	DI-N-OCTYLPHTHALATE
1100	UG/KG	BENZO(B)FLUORANTHENE
820	UG/KG	BENZO(K)FLUORANTHENE
750	UG/KG	BENZO-A-PYRENE
430J	UG/KG	INDENO (1,2,3-CD) PYRENE
130J	UG/KG	DIBENZO(A,H)ANTHRACENE
350J	UG/KG	BENZO(GHI)PERYLENE
36	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5931 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC003SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA0

D No: 1CA0

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 12:00

Ending:

RESULTS	UNITS	ANALYTE
21000J	UG/KG	21 UNKNOWN COMPOUNDS
770NJ	UG/KG	TETRADECANOIC ACID
2200NJ	UG/KG	HEXADECANOIC ACID
1600NJ	UG/KG	9,17-OCTADECADIENAL, (Z)
550NJ	UG/KG	OCTADECANOIC ACID
1500NJ	UG/KG	11H-BENZO [B] FLUORENE
460NJ	UG/KG	PYRENE, 2-METHYL-
480NJ	UG/KG	7H-BENZ [DE] ANTHRACEN-7-ONE
1300NJ	UG/KG	.GAMMA.-SITOSTEROL
1500NJ	UG/KG	STIGMAST-4-EN-3-ONE

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 07/24/2002 08:14

Sample 5932 FY 2002 Project: 02-0753
EXTRACTABLES SCAN
Facility: Turkey Creek — Sumter, SC
Program: SF — Case No: 30588
Id/Station: TC003SF / — MD No: 1CA1 — Inorg Contractor: SENTIN
Media: SURFACE SOIL (0" - 12") — D No: 1CA1 — Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 11:15
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
57000U	UG/KG	BENZALDEHYDE
57000U	UG/KG	PHENOL
57000U	UG/KG	BIS(2-CHLOROETHYL) ETHER
57000U	UG/KG	2-CHLOROPHENOL
57000U	UG/KG	2-METHYLPHENOL
57000U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
57000U	UG/KG	ACETOPHENONE
57000U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
57000U	UG/KG	N-NITROSODI-N-PROPYLAMINE
57000U	UG/KG	HEXACHLOROETHANE
57000U	UG/KG	NITROBENZENE
57000U	UG/KG	ISOPHORONE
57000U	UG/KG	2-NITROPHENOL
57000U	UG/KG	2,4-DIMETHYLPHENOL
57000U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
57000U	UG/KG	2,4-DICHLOROPHENOL
57000U	UG/KG	NAPHTHALENE
57000U	UG/KG	4-CHLOROANILINE
57000U	UG/KG	HEXACHLOROBUTADIENE
57000U	UG/KG	CAPROLACTAM
57000U	UG/KG	4-CHLORO-3-METHYLPHENOL
52000J	UG/KG	2-METHYLNAPHTHALENE
57000UJ	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
57000U	UG/KG	2,4,6-TRICHLOROPHENOL
140000U	UG/KG	2,4,5-TRICHLOROPHENOL
26000J	UG/KG	1,1-BIPHENYL
57000U	UG/KG	2-CHLORONAPHTHALENE
140000U	UG/KG	2-NITROANILINE
57000U	UG/KG	DIMETHYL PHTHALATE
57000U	UG/KG	2,6-DINITROTOLUENE
78000	UG/KG	ACENAPHTHYLENE
140000U	UG/KG	3-NITROANILINE
39000J	UG/KG	ACENAPHTHENE
140000U	UG/KG	2,4-DINITROPHENOL
140000U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
13000J	UG/KG	DIBENZOFURAN
57000U	UG/KG	2,4-DINITROTOLUENE
57000U	UG/KG	DIETHYL PHTHALATE
170000	UG/KG	FLUORENE
57000U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
140000U	UG/KG	4-NITROANILINE
140000U	UG/KG	2-METHYL-4,6-DINITROPHENOL
57000U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
57000U	UG/KG	4-BROMOPHENYL PHENYL ETHER
57000U	UG/KG	HEXACHLOROBENZENE (HCB)
57000U	UG/KG	ATRAZINE
140000U	UG/KG	PENTACHLOROPHENOL
600000	UG/KG	PHENANTHRENE
79000	UG/KG	ANTHRACENE
57000U	UG/KG	CARBAZOLE
57000U	UG/KG	DI-N-BUTYLPHTHALATE
260000	UG/KG	FLUORANTHENE
360000	UG/KG	PYRENE
57000U	UG/KG	BENZYL BUTYL PHTHALATE
57000U	UG/KG	3,3'-DICHLOROBENZIDINE
97000	UG/KG	BENZO(A)ANTHRACENE
94000	UG/KG	CHRYSENE
57000U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
57000U	UG/KG	DI-N-OCTYLPHTHALATE
46000J	UG/KG	BENZO(B)FLUORANTHENE
61000	UG/KG	BENZO(K)FLUORANTHENE
73000	UG/KG	BENZO-A-PYRENE
47000J	UG/KG	INDENO (1,2,3-CD) PYRENE
11000J	UG/KG	DIBENZO(A,H)ANTHRACENE
42000J	UG/KG	BENZO(GHI)PERYLENE
12	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — **Production Date: 07/24/2002 08:14**

Sample 5932 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek — Sumter, SC
Program: SF
Id/Station: TC003SF /
Media: SURFACE SOIL (0" - 12")
Case No: 30588
MD No: 1CA1
D No: 1CA1
Inorg Contractor: SENTIN
Org Contractor: LIBRTY
Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 11:15
Ending:

RESULTS	UNITS	ANALYTE
52000NJ	UG/KG	NAPHTHALENE, 2-METHYL-
35000NJ	UG/KG	NAPHTHALENE, 1,5-DIMETHYL-
79000JN	UG/KG	NAPHTHALENE, 2,3-DIMETHYL-(2 ISOMERS)
23000NJ	UG/KG	NAPHTHALENE 2-ETHENYL-
32000NJ	UG/KG	9H-FLUORENE, 1-METHYL-
44000NJ	UG/KG	DIBENZOTHIOPHENE
38000NJ	UG/KG	NAPHTHALENE, 1-PHENYL-
68000NJ	UG/KG	ANTHRACENE, 2-METHYL-
64000NJ	UG/KG	PHENANTHRENE, 1-METHYL-
330000J	UG/KG	8 UNKNOWN COMPOUNDS
57000JN	UG/KG	UNKNOWN PAH
68000NJ	UG/KG	NAPHTHALENE, 2-PHENYL-
28000NJ	UG/KG	9,10-ANTHRACENEDIONE
20000NJ	UG/KG	9,10-DIMETHYLANTHRACENE
46000NJ	UG/KG	FLUORANTHENE
54000NJ	UG/KG	11H-BENZO [A] FLUORENE
42000JN	UG/KG	PYRENE, 1-METHYL- (2 ISOMERS)
19000NJ	UG/KG	BENZO [B] NAPHTHO [2,3-D] THIOPH
26000NJ	UG/KG	7H-BENZ [DE] ANTHRACEN-7-ONE
24000NJ	UG/KG	BENZO [J] FLUORANTHENE

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5933 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC003SW / MD No: 1CA2 Inorg Contractor: SENTIN

Media: SURFACE WATER D No: 1CA2 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:00

Ending:

RESULTS	UNITS	ANALYTE
10U	UG/L	BENZALDEHYDE
10U	UG/L	PHENOL
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	2-CHLOROPHENOL
10U	UG/L	2-METHYLPHENOL
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	ACETOPHENONE
10U	UG/L	(3-AND/OR 4-)METHYLPHENOL
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	NITROBENZENE
10U	UG/L	ISOPHORONE
10U	UG/L	2-NITROPHENOL
10U	UG/L	2,4-DIMETHYLPHENOL
10U	UG/L	BIS(2-CHLOROETHOXY)METHANE
10U	UG/L	2,4-DICHLOROPHENOL
10U	UG/L	NAPHTHALENE
10U	UG/L	4-CHLOROANILINE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	CAPROLACTAM
10U	UG/L	4-CHLORO-3-METHYLPHENOL
10U	UG/L	2-METHYLNAPHTHALENE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2,4,6-TRICHLOROPHENOL
25U	UG/L	2,4,5-TRICHLOROPHENOL
10U	UG/L	1,1-BIPHENYL
10U	UG/L	2-CHLORONAPHTHALENE
25U	UG/L	2-NITROANILINE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	ACENAPHTHYLENE
25U	UG/L	3-NITROANILINE
10U	UG/L	ACENAPHTHENE
25U	UG/L	2,4-DINITROPHENOL
25U	UG/L	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
10U	UG/L	DIBENZOFURAN
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	FLUORENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
25U	UG/L	4-NITROANILINE
25U	UG/L	2-METHYL-4,6-DINITROPHENOL
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	ATRAZINE
25U	UG/L	PENTACHLOROPHENOL
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	CARBAZOLE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B)FLUORANTHENE
10U	UG/L	BENZO(K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE

A-average value, NA-not analyzed, NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable, compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5933 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC003SW /

Media: SURFACE WATER

Case No: 30588

MD No: 1CA2

D No: 1CA2

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:00

Ending:

RESULTS	UNITS	ANALYTE
2JN	UG/L	TRICHLOROPROPENE
38J	UG/L	8 UNKNOWN COMPOUNDS
2NJ	UG/L	2-PROPANONE, 1-PHENOXY-
15NJ	UG/L	PHENOL, 4-(1,1-DIMETHYLPROPY
4NJ	UG/L	CAFFEINE

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5934 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC004SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA3

D No: 1CA3

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:30

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
420U	UG/KG	BENZALDEHYDE
420U	UG/KG	PHENOL
420U	UG/KG	BIS(2-CHLOROETHYL) ETHER
420U	UG/KG	2-CHLOROPHENOL
420U	UG/KG	2-METHYLPHENOL
420U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
420U	UG/KG	ACETOPHENONE
420U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
420U	UG/KG	N-NITROSODI-N-PROPYLAMINE
420U	UG/KG	HEXACHLOROETHANE
420U	UG/KG	NITROBENZENE
420U	UG/KG	ISOPHORONE
420U	UG/KG	2-NITROPHENOL
420U	UG/KG	2,4-DIMETHYLPHENOL
420U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
420U	UG/KG	2,4-DICHLOROPHENOL
420U	UG/KG	NAPHTHALENE
420U	UG/KG	4-CHLOROANILINE
420U	UG/KG	HEXACHLOROBUTADIENE
420U	UG/KG	CAPROLACTAM
420U	UG/KG	4-CHLORO-3-METHYLPHENOL
420U	UG/KG	2-METHYLNAPHTHALENE
420UJ	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
420U	UG/KG	2,4,6-TRICHLOROPHENOL
1100U	UG/KG	2,4,5-TRICHLOROPHENOL
420U	UG/KG	1,1-BIPHENYL
420U	UG/KG	2-CHLORONAPHTHALENE
1100U	UG/KG	2-NITROANILINE
420U	UG/KG	DIMETHYL PHTHALATE
420U	UG/KG	2,6-DINITROTOLUENE
130J	UG/KG	ACENAPHTHYLENE
1100U	UG/KG	3-NITROANILINE
45J	UG/KG	ACENAPHTHENE
1100UJ	UG/KG	2,4-DINITROPHENOL
1100U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
420U	UG/KG	DIBENZOFURAN
420U	UG/KG	2,4-DINITROTOLUENE
420U	UG/KG	DIETHYL PHTHALATE
61J	UG/KG	FLUORENE
420U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
1100U	UG/KG	4-NITROANILINE
1100UJ	UG/KG	2-METHYL-4,6-DINITROPHENOL
420U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
420U	UG/KG	4-BROMOPHENYL PHENYL ETHER
420U	UG/KG	HEXACHLOROBENZENE (HCB)
420U	UG/KG	ATRAZINE
1100U	UG/KG	PENTACHLOROPHENOL
410J	UG/KG	PHENANTHRENE
79J	UG/KG	ANTHRACENE
420U	UG/KG	CARBAZOLE
420U	UG/KG	DI-N-BUTYLPHTHALATE
810	UG/KG	FLUORANTHENE
950	UG/KG	PYRENE
420U	UG/KG	BENZYL BUTYL PHTHALATE
420U	UG/KG	3,3'-DICHLOROBENZIDINE
360J	UG/KG	BENZO(A)ANTHRACENE
540	UG/KG	CHRYSENE
1700	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
420UJ	UG/KG	DI-N-OCTYLPHTHALATE
420	UG/KG	BENZO(B)FLUORANTHENE
470	UG/KG	BENZO(K)FLUORANTHENE
370J	UG/KG	BENZO-A-PYRENE
310J	UG/KG	INDENO (1,2,3-CD) PYRENE
130J	UG/KG	DIBENZO(A,H)ANTHRACENE
280J	UG/KG	BENZO(GHI)PERYLENE
21	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 07/24/2002 08:14

Sample 5934 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC004SD /
Media: SEDIMENT
Case No: 30588
MD No: 1CA3
D No: 1CA3
Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:30
Ending:

RESULTS	UNITS	ANALYTE
3500J	UG/KG	6 UNKNOWN COMPOUNDS
370J	UG/KG	CYCLOPENTASILOXANE, DECAMETH
350NJ	UG/KG	HEXADECANOIC ACID
260NJ	UG/KG	4H-CYCLOPENTA [DEF] PHENANTHRE
500JN	UG/KG	DIMETHYLPHENANTHRENE (2 ISOMERS)
410JN	UG/KG	METHYLPYRENE
890NJ	UG/KG	11H-BENZO [B] FLUORENE
590JN	UG/KG	PYRENE, 2-METHYL-(2 ISOMERS)
430NJ	UG/KG	11H-BENZO [A] FLUORENE
420JN	UG/KG	UNKNOWN AMIDE
290NJ	UG/KG	7H-BENZ [DE] ANTHRACEN-7-ONE
220NJ	UG/KG	BENZO [B] NAPHTHO [2,1-D] THIOPH
400NJ	UG/KG	BENZENAMINE, 3-NITRO-N- (PHEN
220J	UG/KG	BENZANTHRACENONE
180JN	UG/KG	SUBSTITUTED NAPHTHALENE
570J	UG/KG	UNKNOWN PHTHALATE
330JN	UG/KG	PERYLENE
310JN	UG/KG	BENZOPYRENE

)ATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5935 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC004SF /

Media: SURFACE SOIL (0" - 12")

Case No: 30588

MD No: 1CA4

D No: 1CA4

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
340U	UG/KG	BENZALDEHYDE
340U	UG/KG	PHENOL
340U	UG/KG	BIS(2-CHLOROETHYL) ETHER
340U	UG/KG	2-CHLOROPHENOL
340U	UG/KG	2-METHYLPHENOL
340U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
340U	UG/KG	ACETOPHENONE
340U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
340U	UG/KG	N-NITROSODI-N-PROPYLAMINE
340U	UG/KG	HEXACHLOROETHANE
340U	UG/KG	NITROBENZENE
340U	UG/KG	ISOPHORONE
340U	UG/KG	2-NITROPHENOL
340U	UG/KG	2,4-DIMETHYLPHENOL
340U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
340U	UG/KG	2,4-DICHLOROPHENOL
340U	UG/KG	NAPHTHALENE
340U	UG/KG	4-CHLOROANILINE
340U	UG/KG	HEXACHLOROBUTADIENE
340U	UG/KG	CAPROLACTAM
340U	UG/KG	4-CHLORO-3-METHYLPHENOL
340U	UG/KG	2-METHYLNAPHTHALENE
340UJ	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
340U	UG/KG	2,4,6-TRICHLOROPHENOL
850U	UG/KG	2,4,5-TRICHLOROPHENOL
340U	UG/KG	1,1-BIPHENYL
340U	UG/KG	2-CHLORONAPHTHALENE
850U	UG/KG	2-NITROANILINE
340U	UG/KG	DIMETHYL PHTHALATE
340U	UG/KG	2,6-DINITROTOLUENE
340U	UG/KG	ACENAPHTHYLENE
850U	UG/KG	3-NITROANILINE
340U	UG/KG	ACENAPHTHENE
850UJ	UG/KG	2,4-DINITROPHENOL
850U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
340U	UG/KG	DIBENZOFURAN
340U	UG/KG	2,4-DINITROTOLUENE
340U	UG/KG	DIETHYL PHTHALATE
340U	UG/KG	FLUORENE
340U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
850U	UG/KG	4-NITROANILINE
850UJ	UG/KG	2-METHYL-4,6-DINITROPHENOL
340U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
340U	UG/KG	4-BROMOPHENYL PHENYL ETHER
340U	UG/KG	HEXACHLOROBENZENE (HCB)
340U	UG/KG	ATRAZINE
850U	UG/KG	PENTACHLOROPHENOL
290J	UG/KG	PHENANTHRENE
46J	UG/KG	ANTHRACENE
49J	UG/KG	CARBAZOLE
340U	UG/KG	DI-N-BUTYLPHTHALATE
660	UG/KG	FLUORANTHENE
790	UG/KG	PYRENE
340U	UG/KG	BENZYL BUTYL PHTHALATE
340U	UG/KG	3,3'-DICHLOROBENZIDINE
280J	UG/KG	BENZO(A)ANTHRACENE
450	UG/KG	CHRYSENE
2000	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
670J	UG/KG	DI-N-OCTYLPHTHALATE
410	UG/KG	BENZO(B)FLUORANTHENE
450	UG/KG	BENZO(K)FLUORANTHENE
300J	UG/KG	BENZO-A-PYRENE
330J	UG/KG	INDENO (1,2,3-CD) PYRENE
120J	UG/KG	DIBENZO(A,H)ANTHRACENE
310J	UG/KG	BENZO(GHI)PERYLENE
2	%	% MOISTURE

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5935 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC004SF /

Media: SURFACE SOIL (0" - 12")

Case No: 30588

MD No: 1CA4

D No: 1CA4

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:45

Ending:

RESULTS	UNITS	ANALYTE
7200J	UG/KG	16 UNKNOWN COMPOUNDS
210NJ	UG/KG	11H-BENZO [B] FLUORENE
210JN	UG/KG	BENZOFLUORANTHENE
4500J	UG/KG	7 UNKNOWN PHTHALATES
1300JN	UG/KG	2 - 1,2-BENZENEDICARBOXYLIC ACIDS
760NJ	UG/KG	NAPHTHALENECARBOXYLIC ACID,
550NJ	UG/KG	PERYLENE
550NJ	UG/KG	ISOQUINOLINE, 1,2,3,4-TETRAH

)ATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

4797

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5936 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC005SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA5

D No: 1CA5

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:10

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
60J	UG/KG	BENZALDEHYDE
510U	UG/KG	PHENOL
510U	UG/KG	BIS(2-CHLOROETHYL) ETHER
510U	UG/KG	2-CHLOROPHENOL
510U	UG/KG	2-METHYLPHENOL
87J	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
510U	UG/KG	ACETOPHENONE
510U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
510U	UG/KG	N-NITROSODI-N-PROPYLAMINE
510U	UG/KG	HEXACHLOROETHANE
510U	UG/KG	NITROBENZENE
510U	UG/KG	ISOPHORONE
510U	UG/KG	2-NITROPHENOL
510U	UG/KG	2,4-DIMETHYLPHENOL
510U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
510U	UG/KG	2,4-DICHLOROPHENOL
510U	UG/KG	NAPHTHALENE
510U	UG/KG	4-CHLOROANILINE
510U	UG/KG	HEXACHLOROBUTADIENE
510U	UG/KG	CAPROLACTAM
510U	UG/KG	4-CHLORO-3-METHYLPHENOL
510U	UG/KG	2-METHYLNAPHTHALENE
510UJ	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
510U	UG/KG	2,4,6-TRICHLOROPHENOL
1300U	UG/KG	2,4,5-TRICHLOROPHENOL
510U	UG/KG	1,1-BIPHENYL
510U	UG/KG	2-CHLORONAPHTHALENE
1300U	UG/KG	2-NITROANILINE
510U	UG/KG	DIMETHYL PHTHALATE
510U	UG/KG	2,6-DINITROTOLUENE
68J	UG/KG	ACENAPHTHYLENE
1300U	UG/KG	3-NITROANILINE
510U	UG/KG	ACENAPHTHENE
1300UJ	UG/KG	2,4-DINITROPHENOL
1300U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
510U	UG/KG	DIBENZOFURAN
510U	UG/KG	2,4-DINITROTOLUENE
510U	UG/KG	DIETHYL PHTHALATE
510U	UG/KG	FLUORENE
510U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
1300U	UG/KG	4-NITROANILINE
1300UJ	UG/KG	2-METHYL-4,6-DINITROPHENOL
510U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
510U	UG/KG	4-BROMOPHENYL PHENYL ETHER
510U	UG/KG	HEXACHLOROBENZENE (HCB)
510U	UG/KG	ATRAZINE
1300U	UG/KG	PENTACHLOROPHENOL
500J	UG/KG	PHENANTHRENE
84J	UG/KG	ANTHRACENE
86J	UG/KG	CARBAZOLE
510U	UG/KG	DI-N-BUTYLPHTHALATE
1300	UG/KG	FLUORANTHENE
1400	UG/KG	PYRENE
510U	UG/KG	BENZYL BUTYL PHTHALATE
510U	UG/KG	3,3'-DICHLOROBENZIDINE
510	UG/KG	BENZO(A)ANTHRACENE
810	UG/KG	CHRYSENE
2700	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
1600J	UG/KG	DI-N-OCTYLPHTHALATE
750	UG/KG	BENZO(B)FLUORANTHENE
800	UG/KG	BENZO(K)FLUORANTHENE
580	UG/KG	BENZO-A-PYRENE
570J	UG/KG	INDENO (1,2,3-CD) PYRENE
210J	UG/KG	DIBENZO(A,H)ANTHRACENE
520J	UG/KG	BENZO(GHI)PERYLENE
35	%	% MOISTURE

A-average value. NA-not analyzed, NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
C-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5936 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC005SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA5

D No: 1CA5

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:10

Ending:

RESULTS	UNITS	ANALYTE
11000J	UG/KG	14 UNKNOWN COMPOUNDS
360NJ	UG/KG	TETRADECANOIC ACID
540JN	UG/KG	UNKNOWN CARBOXYLIC ACID
640NJ	UG/KG	9-HEXADECANOIC ACID
640NJ	UG/KG	HEXADECANOIC ACID
1200NJ	UG/KG	11H-BENZO [B] FLUORENE
580NJ	UG/KG	PYRENE, 1-METHYL-
6100J	UG/KG	5 UNKNOWN PHTHALATES
950NJ	UG/KG	CYCLOPROPANENONANOIC ACID, 2
1100NJ	UG/KG	BENZO [E] PYRENE
450NJ	UG/KG	.GAMMA.-SITOSTEROL
400NJ	UG/KG	CHOLESTEROL

)ATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

.-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS — EPA - REGION IV SESD, ATHENS, GA — Production Date: 07/24/2002 08:14

Sample 5937 FY 2002 Project: 02-0753
EXTRACTABLES SCAN
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC005SF /
Media: SURFACE SOIL (0" - 12")
Case No: 30588
MD No: 1CA6
D No: 1CA6
Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 10:00
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
360U	UG/KG	BENZALDEHYDE
360U	UG/KG	PHENOL
360U	UG/KG	BIS(2-CHLOROETHYL) ETHER
360U	UG/KG	2-CHLOROPHENOL
360U	UG/KG	2-METHYLPHENOL
360U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
360U	UG/KG	ACETOPHENONE
360U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
360U	UG/KG	N-NITROSODI-N-PROPYLAMINE
360U	UG/KG	HEXACHLOROETHANE
360U	UG/KG	NITROBENZENE
360U	UG/KG	ISOPHORONE
360U	UG/KG	2-NITROPHENOL
360U	UG/KG	2,4-DIMETHYLPHENOL
360U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
360U	UG/KG	2,4-DICHLOROPHENOL
360U	UG/KG	NAPHTHALENE
360U	UG/KG	4-CHLOROANILINE
360U	UG/KG	HEXACHLOROBUTADIENE
180J	UG/KG	CAPROLACTAM
360U	UG/KG	4-CHLORO-3-METHYLPHENOL
360U	UG/KG	2-METHYLNAPHTHALENE
360UJ	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
360U	UG/KG	2,4,6-TRICHLOROPHENOL
900U	UG/KG	2,4,5-TRICHLOROPHENOL
360U	UG/KG	1,1-BIPHENYL
360U	UG/KG	2-CHLORONAPHTHALENE
900U	UG/KG	2-NITROANILINE
360U	UG/KG	DIMETHYL PHTHALATE
360U	UG/KG	2,6-DINITROTOLUENE
61J	UG/KG	ACENAPHTHYLENE
900U	UG/KG	3-NITROANILINE
360U	UG/KG	ACENAPHTHENE
900UJ	UG/KG	2,4-DINITROPHENOL
900U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
360U	UG/KG	DIBENZOFURAN
360U	UG/KG	2,4-DINITROTOLUENE
360U	UG/KG	DIETHYL PHTHALATE
360U	UG/KG	FLUORENE
360U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
900U	UG/KG	4-NITROANILINE
900UJ	UG/KG	2-METHYL-4,6-DINITROPHENOL
360U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
360U	UG/KG	4-BROMOPHENYL PHENYL ETHER
360U	UG/KG	HEXACHLOROBENZENE (HCB)
360U	UG/KG	ATRAZINE
900U	UG/KG	PENTACHLOROPHENOL
310J	UG/KG	PHENANTHRENE
75J	UG/KG	ANTHRACENE
50J	UG/KG	CARBAZOLE
360U	UG/KG	DI-N-BUTYLPHTHALATE
810	UG/KG	FLUORANTHENE
1100	UG/KG	PYRENE
360U	UG/KG	BENZYL BUTYL PHTHALATE
360U	UG/KG	3,3'-DICHLOROBENZIDINE
400	UG/KG	BENZO(A)ANTHRACENE
660	UG/KG	CHRYSENE
3500	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
1700J	UG/KG	DI-N-OCTYLPHTHALATE
640	UG/KG	BENZO(B)FLUORANTHENE
730	UG/KG	BENZO(K)FLUORANTHENE
440	UG/KG	BENZO-A-PYRENE
570J	UG/KG	INDENO (1,2,3-CD) PYRENE
210J	UG/KG	DIBENZO(A,H)ANTHRACENE
510J	UG/KG	BENZO(GHI)PERYLENE
8	%	% MOISTURE

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5937 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC005SF /

Media: SURFACE SOIL (0" - 12")

Case No: 30588

MD No: 1CA6

D No: 1CA6

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 10:00

Ending:

RESULTS	UNITS	ANALYTE
9200J	UG/KG	14 UNKNOWN COMPOUNDS
220NJ	UG/KG	HEXADECANOIC ACID
590NJ	UG/KG	11H-BENZO [B] FLUORENE
810JN	UG/KG	BENZOFLUORENE
600NJ	UG/KG	7H-BENZ [DE] ANTHRACEN-7-ONE
430NJ	UG/KG	BENZO [B] NAPHTHO [2,1-D] THIOPH
6600J	UG/KG	7 UNKNOWN PHTHALATES
230NJ	UG/KG	1,2-BENZENEDICARBOXYLIC ACID
470NJ	UG/KG	PERYLENE
820JN	UG/KG	UNKNOWN PAH
470NJ	UG/KG	TESTOSTERONE

)ATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5938 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC007SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA7 Inorg Contractor: SENTIN

D No: 1CA7 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:35

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
410U	UG/KG	BENZALDEHYDE
410U	UG/KG	PHENOL
410U	UG/KG	BIS(2-CHLOROETHYL) ETHER
410U	UG/KG	2-CHLOROPHENOL
410U	UG/KG	2-METHYLPHENOL
410U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
410U	UG/KG	ACETOPHENONE
410U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
410U	UG/KG	N-NITROSODI-N-PROPYLAMINE
410U	UG/KG	HEXACHLOROETHANE
410U	UG/KG	NITROBENZENE
410U	UG/KG	ISOPHORONE
410U	UG/KG	2-NITROPHENOL
410U	UG/KG	2,4-DIMETHYLPHENOL
410U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
410U	UG/KG	2,4-DICHLOROPHENOL
410U	UG/KG	NAPHTHALENE
410U	UG/KG	4-CHLOROANILINE
410U	UG/KG	HEXACHLOROBUTADIENE
410U	UG/KG	CAPROLACTAM
410U	UG/KG	4-CHLORO-3-METHYLPHENOL
410U	UG/KG	2-METHYLNAPHTHALENE
410UJ	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
410U	UG/KG	2,4,6-TRICHLOROPHENOL
1000U	UG/KG	2,4,5-TRICHLOROPHENOL
410U	UG/KG	1,1-BIPHENYL
410U	UG/KG	2-CHLORONAPHTHALENE
1000U	UG/KG	2-NITROANILINE
410U	UG/KG	DIMETHYL PHTHALATE
410U	UG/KG	2,6-DINITROTOLUENE
410U	UG/KG	ACENAPHTHYLENE
1000U	UG/KG	3-NITROANILINE
410U	UG/KG	ACENAPHTHENE
1000UJ	UG/KG	2,4-DINITROPHENOL
1000U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
410U	UG/KG	DIBENZOFURAN
410U	UG/KG	2,4-DINITROTOLUENE
410U	UG/KG	DIETHYL PHTHALATE
410U	UG/KG	FLUORENE
410U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
1000U	UG/KG	4-NITROANILINE
1000UJ	UG/KG	2-METHYL-4,6-DINITROPHENOL
410U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
410U	UG/KG	4-BROMOPHENYL PHENYL ETHER
410U	UG/KG	HEXACHLOROBENZENE (HCB)
410U	UG/KG	ATRAZINE
1000U	UG/KG	PENTACHLOROPHENOL
410U	UG/KG	PHENANTHRENE
410U	UG/KG	ANTHRACENE
410U	UG/KG	CARBAZOLE
410U	UG/KG	DI-N-BUTYLPHTHALATE
81J	UG/KG	FLUORANTHENE
83J	UG/KG	PYRENE
410U	UG/KG	BENZYL BUTYL PHTHALATE
410U	UG/KG	3,3'-DICHLOROBENZIDINE
410U	UG/KG	BENZO(A)ANTHRACENE
410U	UG/KG	CHRYSENE
410U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
410UJ	UG/KG	DI-N-OCTYLPHTHALATE
410U	UG/KG	BENZO(B)FLUORANTHENE
410U	UG/KG	BENZO(K)FLUORANTHENE
410U	UG/KG	BENZO-A-PYRENE
410UJ	UG/KG	INDENO (1,2,3-CD) PYRENE
410UJ	UG/KG	DIBENZO(A,H)ANTHRACENE
410UJ	UG/KG	BENZO(GHI)PERYLENE
19	%	% MOISTURE

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 5938 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC007SD /
Media: SEDIMENT
Case No: 30588
MD No: 1CA7
D No: 1CA7
Inorg Contractor: SENTIN
Org Contractor: LIBRTY
Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 11:35
Ending:

RESULTS	UNITS	ANALYTE
3300J	UG/KG	4 UNKNOWN COMPOUNDS
290J	UG/KG	CYCLOTETRAILOXANE, OCTAMETH
240J	UG/KG	CYCLOPENTASILOXANE, DECAMETH
160JN	UG/KG	METHYLPYRENE
190JN	UG/KG	BENZOFLUORENE
210JN	UG/KG	UNKNOWN AMIDE
180NJ	UG/KG	HEXANEDIOIC ACID, DIOCTYL ES
240NJ	UG/KG	BENZO [B] NAPHTHO [2,1-D] THIOPH
180J	UG/KG	2 UNKNOWN PHTHALATES
170NJ	UG/KG	BENZO [E] PYRENE

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
<-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 5939 FY 2002 Project: 02-0753
EXTRACTABLES SCAN
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC008SD /
Media: SEDIMENT
Case No: 30588
MD No: 1CA8
D No: 1CA8
Inorg Contractor: SENTIN
Org Contractor: LIBRTY
Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 11:55
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
490U	UG/KG	BENZALDEHYDE
490U	UG/KG	PHENOL
490U	UG/KG	BIS(2-CHLOROETHYL) ETHER
490U	UG/KG	2-CHLOROPHENOL
490U	UG/KG	2-METHYLPHENOL
490U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
490U	UG/KG	ACETOPHENONE
490U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
490U	UG/KG	N-NITROSODI-N-PROPYLAMINE
490U	UG/KG	HEXACHLOROETHANE
490U	UG/KG	NITROBENZENE
490U	UG/KG	ISOPHORONE
490U	UG/KG	2-NITROPHENOL
490U	UG/KG	2,4-DIMETHYLPHENOL
490U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
490U	UG/KG	2,4-DICHLOROPHENOL
100J	UG/KG	NAPHTHALENE
490U	UG/KG	4-CHLOROANILINE
490U	UG/KG	HEXACHLOROBUTADIENE
490U	UG/KG	CAPROLACTAM
490U	UG/KG	4-CHLORO-3-METHYLPHENOL
370J	UG/KG	2-METHYLNAPHTHALENE
490U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
490U	UG/KG	2,4,6-TRICHLOROPHENOL
1200U	UG/KG	2,4,5-TRICHLOROPHENOL
490U	UG/KG	1,1-BIPHENYL
490U	UG/KG	2-CHLORONAPHTHALENE
1200U	UG/KG	2-NITROANILINE
490U	UG/KG	DIMETHYL PHTHALATE
490U	UG/KG	2,6-DINITROTOLUENE
570	UG/KG	ACENAPHTHYLENE
1200U	UG/KG	3-NITROANILINE
840	UG/KG	ACENAPHTHENE
1200U	UG/KG	2,4-DINITROPHENOL
1200U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
140J	UG/KG	DIBENZOFURAN
490U	UG/KG	2,4-DINITROTOLUENE
490U	UG/KG	DIETHYL PHTHALATE
790	UG/KG	FLUORENE
490U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
1200U	UG/KG	4-NITROANILINE
1200U	UG/KG	2-METHYL-4,6-DINITROPHENOL
490U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
490U	UG/KG	4-BROMOPHENYL PHENYL ETHER
490U	UG/KG	HEXACHLOROBENZENE (HCB)
490U	UG/KG	ATRAZINE
1200U	UG/KG	PENTACHLOROPHENOL
2100	UG/KG	PHENANTHRENE
670	UG/KG	ANTHRACENE
490U	UG/KG	CARBAZOLE
490U	UG/KG	DI-N-BUTYLPHTHALATE
2200	UG/KG	FLUORANTHENE
3500	UG/KG	PYRENE
490U	UG/KG	BENZYL BUTYL PHTHALATE
490U	UG/KG	3,3'-DICHLOROBENZIDINE
1500	UG/KG	BENZO(A)ANTHRACENE
1500	UG/KG	CHRYSENE
7100	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
970J	UG/KG	DI-N-OCTYLPHTHALATE
1700	UG/KG	BENZO(B)FLUORANTHENE
1300	UG/KG	BENZO(K)FLUORANTHENE
1700	UG/KG	BENZO-A-PYRENE
810	UG/KG	INDENO (1,2,3-CD) PYRENE
240J	UG/KG	DIBENZO(A,H)ANTHRACENE
700	UG/KG	BENZO(GHI)PERYLENE
32	%	% MOISTURE

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5939 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC008SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA8

D No: 1CA8

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 11:55

Ending:

RESULTS	UNITS	ANALYTE
66000J	UG/KG	21 UNKNOWN COMPOUNDS
7500NJ	UG/KG	NAPHTHALENE, DECAHYDRO-, TRA
8600NJ	UG/KG	BENZENE, 4-ETHYL-1,2-DIMETHY
14000J	UG/KG	4 SUBSTITUTED BENZENES
4000NJ	UG/KG	NAPHTHALENE, DECAHYDRO-2-MET
4500NJ	UG/KG	BENZENE, 1,4-DIETHYL-
640NJ	UG/KG	PERYLENE

ATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

average value. NA-not analyzed,. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5940 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC009SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA9

D No: 1CA9

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
460U	UG/KG	BENZALDEHYDE
460U	UG/KG	PHENOL
460U	UG/KG	BIS(2-CHLOROETHYL) ETHER
460U	UG/KG	2-CHLOROPHENOL
460U	UG/KG	2-METHYLPHENOL
460U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
460U	UG/KG	ACETOPHENONE
460U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
460U	UG/KG	N-NITROSODI-N-PROPYLAMINE
460U	UG/KG	HEXACHLOROETHANE
460U	UG/KG	NITROBENZENE
460U	UG/KG	ISOPHORONE
460U	UG/KG	2-NITROPHENOL
460U	UG/KG	2,4-DIMETHYLPHENOL
460U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
460U	UG/KG	2,4-DICHLOROPHENOL
460U	UG/KG	NAPHTHALENE
460U	UG/KG	4-CHLOROANILINE
460U	UG/KG	HEXACHLOROBUTADIENE
460U	UG/KG	CAPROLACTAM
460U	UG/KG	4-CHLORO-3-METHYLPHENOL
460U	UG/KG	2-METHYLNAPHTHALENE
460U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
460U	UG/KG	2,4,6-TRICHLOROPHENOL
1200U	UG/KG	2,4,5-TRICHLOROPHENOL
460U	UG/KG	1,1-BIPHENYL
460U	UG/KG	2-CHLORONAPHTHALENE
1200U	UG/KG	2-NITROANILINE
460U	UG/KG	DIMETHYL PHTHALATE
460U	UG/KG	2,6-DINITROTOLUENE
460U	UG/KG	ACENAPHTHYLENE
1200U	UG/KG	3-NITROANILINE
460U	UG/KG	ACENAPHTHENE
1200U	UG/KG	2,4-DINITROPHENOL
1200U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
460U	UG/KG	DIBENZOFURAN
460U	UG/KG	2,4-DINITROTOLUENE
460U	UG/KG	DIETHYL PHTHALATE
460U	UG/KG	FLUORENE
460U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
1200U	UG/KG	4-NITROANILINE
1200U	UG/KG	2-METHYL-4,6-DINITROPHENOL
460U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
460U	UG/KG	4-BROMOPHENYL PHENYL ETHER
460U	UG/KG	HEXACHLOROBENZENE (HCB)
460U	UG/KG	ATRAZINE
1200U	UG/KG	PENTACHLOROPHENOL
96J	UG/KG	PHENANTHRENE
460U	UG/KG	ANTHRACENE
460U	UG/KG	CARBAZOLE
460U	UG/KG	DI-N-BUTYLPHTHALATE
210J	UG/KG	FLUORANTHENE
280J	UG/KG	PYRENE
460U	UG/KG	BENZYL BUTYL PHTHALATE
460U	UG/KG	3,3'-DICHLOROBENZIDINE
150J	UG/KG	BENZO(A)ANTHRACENE
170J	UG/KG	CHRYSENE
460U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
460UJ	UG/KG	DI-N-OCTYLPHTHALATE
170J	UG/KG	BENZO(B)FLUORANTHENE
160J	UG/KG	BENZO(K)FLUORANTHENE
180J	UG/KG	BENZO-A-PYRENE
100J	UG/KG	INDENO (1,2,3-CD) PYRENE
460U	UG/KG	DIBENZO(A,H)ANTHRACENE
80J	UG/KG	BENZO(GHI)PERYLENE
28	%	% MOISTURE

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5940 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC009SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CA9

D No: 1CA9

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:45

Ending:

RESULTS	UNITS	ANALYTE
9900J	UG/KG	23 UNKNOWN COMPOUNDS
310NJ	UG/KG	11H-BENZO [A] FLUORENE
620JN	UG/KG	BENZO [E] PYRENE (2 ISOMERS)
280NJ	UG/KG	2-PENTACOSANONE
230NJ	UG/KG	TARAXEROL
240NJ	UG/KG	STIGMAST-4-EN-3-ONE

ATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5941 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC009SW /

Media: SURFACE WATER

Case No: 30588

MD No: 1CB0

D No: 1CB0

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 16:40

Ending:

RESULTS	UNITS	ANALYTE
10U	UG/L	BENZALDEHYDE
10U	UG/L	PHENOL
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	2-CHLOROPHENOL
10U	UG/L	2-METHYLPHENOL
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	ACETOPHENONE
10U	UG/L	(3-AND/OR 4-)METHYLPHENOL
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	NITROBENZENE
10U	UG/L	ISOPHORONE
10U	UG/L	2-NITROPHENOL
10U	UG/L	2,4-DIMETHYLPHENOL
10U	UG/L	BIS(2-CHLOROETHOXY)METHANE
10U	UG/L	2,4-DICHLOROPHENOL
10U	UG/L	NAPHTHALENE
10U	UG/L	4-CHLOROANILINE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	CAPROLACTAM
10U	UG/L	4-CHLORO-3-METHYLPHENOL
10U	UG/L	2-METHYLNAPHTHALENE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2,4,6-TRICHLOROPHENOL
25U	UG/L	2,4,5-TRICHLOROPHENOL
10U	UG/L	1,1-BIPHENYL
10U	UG/L	2-CHLORONAPHTHALENE
25U	UG/L	2-NITROANILINE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	ACENAPHTHYLENE
25U	UG/L	3-NITROANILINE
10U	UG/L	ACENAPHTHENE
25U	UG/L	2,4-DINITROPHENOL
25U	UG/L	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
10U	UG/L	DIBENZOFURAN
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	FLUORENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
25U	UG/L	4-NITROANILINE
25U	UG/L	2-METHYL-4,6-DINITROPHENOL
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	ATRAZINE
25U	UG/L	PENTACHLOROPHENOL
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	CARBAZOLE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B)FLUORANTHENE
10U	UG/L	BENZO(K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 5941 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC009SW /
Media: SURFACE WATER
Case No: 30588
MD No: 1CB0
D No: 1CB0
Inorg Contractor: SENTIN
Org Contractor: LIBRTY
Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 16:40
Ending:

RESULTS	UNITS	ANALYTE
5JN	UG/L	TRICHLOROPROPENE

ATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5942 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC010SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB1

D No: 1CB1

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:10

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
420U	UG/KG	BENZALDEHYDE
420U	UG/KG	PHENOL
420U	UG/KG	BIS(2-CHLOROETHYL) ETHER
420U	UG/KG	2-CHLOROPHENOL
420U	UG/KG	2-METHYLPHENOL
420U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
420U	UG/KG	ACETOPHENONE
420U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
420U	UG/KG	N-NITROSODI-N-PROPYLAMINE
420U	UG/KG	HEXACHLOROETHANE
420U	UG/KG	NITROBENZENE
420U	UG/KG	ISOPHORONE
420U	UG/KG	2-NITROPHENOL
420U	UG/KG	2,4-DIMETHYLPHENOL
420U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
420U	UG/KG	2,4-DICHLOROPHENOL
420U	UG/KG	NAPHTHALENE
420U	UG/KG	4-CHLOROANILINE
420U	UG/KG	HEXACHLOROBUTADIENE
420U	UG/KG	CAPROLACTAM
420U	UG/KG	4-CHLORO-3-METHYLPHENOL
420U	UG/KG	2-METHYLNAPHTHALENE
420U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
420U	UG/KG	2,4,6-TRICHLOROPHENOL
1100U	UG/KG	2,4,5-TRICHLOROPHENOL
420U	UG/KG	1,1-BIPHENYL
420U	UG/KG	2-CHLORONAPHTHALENE
1100U	UG/KG	2-NITROANILINE
420U	UG/KG	DIMETHYL PHTHALATE
420U	UG/KG	2,6-DINITROTOLUENE
420U	UG/KG	ACENAPHTHYLENE
1100U	UG/KG	3-NITROANILINE
420U	UG/KG	ACENAPHTHENE
1100U	UG/KG	2,4-DINITROPHENOL
1100U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
420U	UG/KG	DIBENZOFURAN
420U	UG/KG	2,4-DINITROTOLUENE
420U	UG/KG	DIETHYL PHTHALATE
420U	UG/KG	FLUORENE
420U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
1100U	UG/KG	4-NITROANILINE
1100U	UG/KG	2-METHYL-4,6-DINITROPHENOL
420U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
420U	UG/KG	4-BROMOPHENYL PHENYL ETHER
420U	UG/KG	HEXACHLOROBENZENE (HCB)
420U	UG/KG	ATRAZINE
1100U	UG/KG	PENTACHLOROPHENOL
420U	UG/KG	PHENANTHRENE
420U	UG/KG	ANTHRACENE
420U	UG/KG	CARBAZOLE
420U	UG/KG	DI-N-BUTYLPHTHALATE
73J	UG/KG	FLUORANTHENE
84J	UG/KG	PYRENE
420U	UG/KG	BENZYL BUTYL PHTHALATE
420U	UG/KG	3,3'-DICHLOROBENZIDINE
49J	UG/KG	BENZO(A)ANTHRACENE
57J	UG/KG	CHRYSENE
420U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
420UJ	UG/KG	DI-N-OCTYLPHTHALATE
48J	UG/KG	BENZO(B)FLUORANTHENE
73J	UG/KG	BENZO(K)FLUORANTHENE
67J	UG/KG	BENZO-A-PYRENE
47J	UG/KG	INDENO (1,2,3-CD) PYRENE
420U	UG/KG	DIBENZO(A,H)ANTHRACENE
420U	UG/KG	BENZO(GHI)PERYLENE
22	%	% MOISTURE

average value. NA-not analyzed; NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Production Date: 07/24/2002 08:14

Sample 5942 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC010SD /
Media: SEDIMENT
Case No: 30588
MD No: 1CB1
D No: 1CB1
Inorg Contractor: SENTIN
Org Contractor: LIBRTY
Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 15:10
Ending:

RESULTS	UNITS	ANALYTE
3100J	UG/KG	11 UNKNOWN COMPOUNDS
150J	UG/KG	UNKNOWN SILOXANE (BC)
100NJ	UG/KG	11H-BENZO [B] FLUORENE
280NJ	UG/KG	CYCLOPROPANENONANOIC ACID, 2
94NJ	UG/KG	ANDROSTAN-6-ONE, (5.ALPHA.)-
140NJ	UG/KG	5 (1H) - AZULENONE, 2,4,6,7,8,8

ATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit,.
qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Production Date: 07/24/2002 08:14

Sample 5943 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC010SW /

Media: SURFACE WATER

Case No: 30588

MD No: 1CB2

D No: 1CB2

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:05

Ending:

RESULTS	UNITS	ANALYTE
10U	UG/L	BENZALDEHYDE
10U	UG/L	PHENOL
10U	UG/L	BIS(2-CHLOROETHYL) ETHER
10U	UG/L	2-CHLOROPHENOL
10U	UG/L	2-METHYLPHENOL
10U	UG/L	BIS(2-CHLOROISOPROPYL) ETHER
10U	UG/L	ACETOPHENONE
10U	UG/L	(3-AND/OR 4-)METHYLPHENOL
10U	UG/L	N-NITROSODI-N-PROPYLAMINE
10U	UG/L	HEXACHLOROETHANE
10U	UG/L	NITROBENZENE
10U	UG/L	ISOPHORONE
10U	UG/L	2-NITROPHENOL
10U	UG/L	2,4-DIMETHYLPHENOL
10U	UG/L	BIS(2-CHLOROETHOXY)METHANE
10U	UG/L	2,4-DICHLOROPHENOL
10U	UG/L	NAPHTHALENE
10U	UG/L	4-CHLOROANILINE
10U	UG/L	HEXACHLOROBUTADIENE
10U	UG/L	CAPROLACTAM
10U	UG/L	4-CHLORO-3-METHYLPHENOL
10U	UG/L	2-METHYLNAPHTHALENE
10U	UG/L	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	UG/L	2,4,6-TRICHLOROPHENOL
25U	UG/L	2,4,5-TRICHLOROPHENOL
10U	UG/L	1,1-BIPHENYL
10U	UG/L	2-CHLORONAPHTHALENE
25U	UG/L	2-NITROANILINE
10U	UG/L	DIMETHYL PHTHALATE
10U	UG/L	2,6-DINITROTOLUENE
10U	UG/L	ACENAPHTHYLENE
25U	UG/L	3-NITROANILINE
10U	UG/L	ACENAPHTHENE
25U	UG/L	2,4-DINITROPHENOL
25U	UG/L	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
10U	UG/L	DIBENZOFURAN
10U	UG/L	2,4-DINITROTOLUENE
10U	UG/L	DIETHYL PHTHALATE
10U	UG/L	FLUORENE
10U	UG/L	4-CHLOROPHENYL PHENYL ETHER
25U	UG/L	4-NITROANILINE
25U	UG/L	2-METHYL-4,6-DINITROPHENOL
10U	UG/L	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	UG/L	4-BROMOPHENYL PHENYL ETHER
10U	UG/L	HEXACHLOROBENZENE (HCB)
10U	UG/L	ATRAZINE
25U	UG/L	PENTACHLOROPHENOL
10U	UG/L	PHENANTHRENE
10U	UG/L	ANTHRACENE
10U	UG/L	CARBAZOLE
10U	UG/L	DI-N-BUTYLPHTHALATE
10U	UG/L	FLUORANTHENE
10U	UG/L	PYRENE
10U	UG/L	BENZYL BUTYL PHTHALATE
10U	UG/L	3,3'-DICHLOROBENZIDINE
10U	UG/L	BENZO(A)ANTHRACENE
10U	UG/L	CHRYSENE
10U	UG/L	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	UG/L	DI-N-OCTYLPHTHALATE
10U	UG/L	BENZO(B)FLUORANTHENE
10U	UG/L	BENZO(K)FLUORANTHENE
10U	UG/L	BENZO-A-PYRENE
10U	UG/L	INDENO (1,2,3-CD) PYRENE
10U	UG/L	DIBENZO(A,H)ANTHRACENE
10U	UG/L	BENZO(GHI)PERYLENE

average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 5943 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC010SW /
Media: SURFACE WATER
Case No: 30588
MD No: 1CB2
D No: 1CB2
Inorg Contractor: SENTIN
Org Contractor: LIBRTY
Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 15:05
Ending:

RESULTS	UNITS	ANALYTE
5NJ	UG/L	1-PROPENE, 1,2,3-TRICHLORO-

ATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5944 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC011SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB3

D No: 1CB3

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 14:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
9400U	UG/KG	BENZALDEHYDE
9400U	UG/KG	PHENOL
9400U	UG/KG	BIS(2-CHLOROETHYL) ETHER
9400U	UG/KG	2-CHLOROPHENOL
9400U	UG/KG	2-METHYLPHENOL
9400U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
9400U	UG/KG	ACETOPHENONE
9400U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
9400U	UG/KG	N-NITROSODI-N-PROPYLAMINE
9400U	UG/KG	HEXACHLOROETHANE
9400U	UG/KG	NITROBENZENE
9400U	UG/KG	ISOPHORONE
9400U	UG/KG	2-NITROPHENOL
9400U	UG/KG	2,4-DIMETHYLPHENOL
9400U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
9400U	UG/KG	2,4-DICHLOROPHENOL
9400U	UG/KG	NAPHTHALENE
9400U	UG/KG	4-CHLOROANILINE
9400U	UG/KG	HEXACHLOROBUTADIENE
9400U	UG/KG	CAPROLACTAM
9400U	UG/KG	4-CHLORO-3-METHYLPHENOL
9400U	UG/KG	2-METHYLNAPHTHALENE
9400U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
9400U	UG/KG	2,4,6-TRICHLOROPHENOL
24000U	UG/KG	2,4,5-TRICHLOROPHENOL
9400U	UG/KG	1,1-BIPHENYL
9400U	UG/KG	2-CHLORONAPHTHALENE
24000U	UG/KG	2-NITROANILINE
9400U	UG/KG	DIMETHYL PHTHALATE
9400U	UG/KG	2,6-DINITROTOLUENE
9400U	UG/KG	ACENAPHTHYLENE
24000U	UG/KG	3-NITROANILINE
9400U	UG/KG	ACENAPHTHENE
24000U	UG/KG	2,4-DINITROPHENOL
24000U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
9400U	UG/KG	DIBENZOFURAN
9400U	UG/KG	2,4-DINITROTOLUENE
9400U	UG/KG	DIETHYL PHTHALATE
9400U	UG/KG	FLUORENE
9400U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
24000U	UG/KG	4-NITROANILINE
24000U	UG/KG	2-METHYL-4,6-DINITROPHENOL
9400U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
9400U	UG/KG	4-BROMOPHENYL PHENYL ETHER
9400U	UG/KG	HEXACHLOROBENZENE (HCB)
9400U	UG/KG	ATRAZINE
24000U	UG/KG	PENTACHLOROPHENOL
9400U	UG/KG	PHENANTHRENE
9400U	UG/KG	ANTHRACENE
9400U	UG/KG	CARBAZOLE
9400U	UG/KG	DI-N-BUTYLPHTHALATE
1100J	UG/KG	FLUORANTHENE
2600J	UG/KG	PYRENE
9400U	UG/KG	BENZYL BUTYL PHTHALATE
9400U	UG/KG	3,3'-DICHLOROBENZIDINE
1200J	UG/KG	BENZO(A)ANTHRACENE
1700J	UG/KG	CHRYSENE
21000	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
9400UJ	UG/KG	DI-N-OCTYLPHTHALATE
1900J	UG/KG	BENZO(B)FLUORANTHENE
2800J	UG/KG	BENZO(K)FLUORANTHENE
2200J	UG/KG	BENZO-A-PYRENE
1600J	UG/KG	INDENO (1,2,3-CD) PYRENE
9400U	UG/KG	DIBENZO(A,H)ANTHRACENE
1300J	UG/KG	BENZO(GHI)PERYLENE
65	%	% MOISTURE

average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Sample 5944 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC011SD /
Media: SEDIMENT
Case No: 30588
MD No: 1CB3
D No: 1CB3
Inorg Contractor: SENTIN
Org Contractor: LIBRTY
Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 14:45
Ending:

RESULTS	UNITS	ANALYTE
430000J	UG/KG	26 UNKNOWN COMPOUNDS
12000NJ	UG/KG	NAPHTHALENE, DECAHYDRO-, TRA
12000NJ	UG/KG	NAPHTHALENE, DECAHYDRO-2-MET
14000NJ	UG/KG	PYRENE, 2-METHYL-
13000NJ	UG/KG	PYRENE, 4-METHYL-

ATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5945 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC012SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB4

D No: 1CB4

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 14:40

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
11000U	UG/KG	BENZALDEHYDE
11000U	UG/KG	PHENOL
11000U	UG/KG	BIS(2-CHLOROETHYL) ETHER
11000U	UG/KG	2-CHLOROPHENOL
11000U	UG/KG	2-METHYLPHENOL
11000U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
11000U	UG/KG	ACETOPHENONE
11000U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
11000U	UG/KG	N-NITROSODI-N-PROPYLAMINE
11000U	UG/KG	HEXACHLOROETHANE
11000U	UG/KG	NITROBENZENE
11000U	UG/KG	ISOPHORONE
11000U	UG/KG	2-NITROPHENOL
11000U	UG/KG	2,4-DIMETHYLPHENOL
11000U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
11000U	UG/KG	2,4-DICHLOROPHENOL
11000U	UG/KG	NAPHTHALENE
11000U	UG/KG	4-CHLOROANILINE
11000U	UG/KG	HEXACHLOROBUTADIENE
11000U	UG/KG	CAPROLACTAM
11000U	UG/KG	4-CHLORO-3-METHYLPHENOL
11000U	UG/KG	2-METHYLNAPHTHALENE
11000U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
11000U	UG/KG	2,4,6-TRICHLOROPHENOL
27000U	UG/KG	2,4,5-TRICHLOROPHENOL
11000U	UG/KG	1,1-BIPHENYL
11000U	UG/KG	2-CHLORONAPHTHALENE
27000U	UG/KG	2-NITROANILINE
11000U	UG/KG	DIMETHYL PHTHALATE
11000U	UG/KG	2,6-DINITROTOLUENE
11000U	UG/KG	ACENAPHTHYLENE
27000U	UG/KG	3-NITROANILINE
11000U	UG/KG	ACENAPHTHENE
27000U	UG/KG	2,4-DINITROPHENOL
27000U	UG/KG	4-NITROPHENOL
11000U	UG/KG	DIBENZOFURAN
11000U	UG/KG	2,4-DINITROTOLUENE
11000U	UG/KG	DIETHYL PHTHALATE
11000U	UG/KG	FLUORENE
11000U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
27000U	UG/KG	4-NITROANILINE
27000U	UG/KG	2-METHYL-4,6-DINITROPHENOL
11000U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
11000U	UG/KG	4-BROMOPHENYL PHENYL ETHER
11000U	UG/KG	HEXACHLOROBENZENE (HCB)
11000U	UG/KG	ATRAZINE
27000U	UG/KG	PENTACHLOROPHENOL
11000U	UG/KG	PHENANTHRENE
11000U	UG/KG	ANTHRACENE
11000U	UG/KG	CARBAZOLE
11000U	UG/KG	DI-N-BUTYLPHTHALATE
1400J	UG/KG	FLUORANTHENE
3300J	UG/KG	PYRENE
11000U	UG/KG	BENZYL BUTYL PHTHALATE
11000U	UG/KG	3,3'-DICHLOROBENZIDINE
1400J	UG/KG	BENZO(A)ANTHRACENE
2000J	UG/KG	CHRYSENE
20000	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
11000UJ	UG/KG	DI-N-OCTYLPHTHALATE
2200J	UG/KG	BENZO(B)FLUORANTHENE
2300J	UG/KG	BENZO(K)FLUORANTHENE
2200J	UG/KG	BENZO-A-PYRENE
1400J	UG/KG	INDENO (1,2,3-CD) PYRENE
11000U	UG/KG	DIBENZO(A,H)ANTHRACENE
11000U	UG/KG	BENZO(GHI)PERYLENE
69	%	% MOISTURE

average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected; the number is the minimum quantitation limit.
qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

Production Date: 07/24/2002 08:14

Sample 5945 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC012SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB4

D No: 1CB4

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 14:40

Ending:

RESULTS	UNITS	ANALYTE
21000NJ	UG/KG	NAPHTHALENE, DECAHYDRO-, TRA
510000J	UG/KG	25 UNKNOWN COMPOUNDS
28000JN	UG/KG	NAPHTHALENE, DECAHYDRO-2-MET (2 ISOMERS)
16000NJ	UG/KG	PYRENE, 2-METHYL-
14000NJ	UG/KG	PYRENE, 4-METHYL-

)ATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5946 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC013SD / MD No: 1CB5 Inorg Contractor: SENTIN

Media: SEDIMENT D No: 1CB5 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:45

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
5700U	UG/KG	BENZALDEHYDE
5700U	UG/KG	PHENOL
5700U	UG/KG	BIS(2-CHLOROETHYL) ETHER
5700U	UG/KG	2-CHLOROPHENOL
5700U	UG/KG	2-METHYLPHENOL
5700U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
5700U	UG/KG	ACETOPHENONE
5700U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
5700U	UG/KG	N-NITROSODI-N-PROPYLAMINE
5700U	UG/KG	HEXACHLOROETHANE
5700U	UG/KG	NITROBENZENE
5700U	UG/KG	ISOPHORONE
5700U	UG/KG	2-NITROPHENOL
5700U	UG/KG	2,4-DIMETHYLPHENOL
5700U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
5700U	UG/KG	2,4-DICHLOROPHENOL
5700U	UG/KG	NAPHTHALENE
5700U	UG/KG	4-CHLOROANILINE
5700U	UG/KG	HEXACHLOROBUTADIENE
5700U	UG/KG	CAPROLACTAM
5700U	UG/KG	4-CHLORO-3-METHYLPHENOL
5700U	UG/KG	2-METHYLNAPHTHALENE
5700U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
5700U	UG/KG	2,4,6-TRICHLOROPHENOL
14000U	UG/KG	2,4,5-TRICHLOROPHENOL
5700U	UG/KG	1,1-BIPHENYL
5700U	UG/KG	2-CHLORONAPHTHALENE
14000U	UG/KG	2-NITROANILINE
5700U	UG/KG	DIMETHYL PHTHALATE
5700U	UG/KG	2,6-DINITROTOLUENE
3700J	UG/KG	ACENAPHTHYLENE
14000U	UG/KG	3-NITROANILINE
5700U	UG/KG	ACENAPHTHENE
14000U	UG/KG	2,4-DINITROPHENOL
14000U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
5700U	UG/KG	DIBENZOFURAN
5700U	UG/KG	2,4-DINITROTOLUENE
5700U	UG/KG	DIETHYL PHTHALATE
5700U	UG/KG	FLUORENE
5700U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
14000U	UG/KG	4-NITROANILINE
14000U	UG/KG	2-METHYL-4,6-DINITROPHENOL
5700U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
5700U	UG/KG	4-BROMOPHENYL PHENYL ETHER
5700U	UG/KG	HEXACHLOROBENZENE (HCB)
5700U	UG/KG	ATRAZINE
14000U	UG/KG	PENTACHLOROPHENOL
2200J	UG/KG	PHENANTHRENE
1900J	UG/KG	ANTHRACENE
5700U	UG/KG	CARBAZOLE
5700U	UG/KG	DI-N-BUTYLPHTHALATE
4800J	UG/KG	FLUORANTHENE
8600	UG/KG	PYRENE
5700U	UG/KG	BENZYL BUTYL PHTHALATE
5700U	UG/KG	3,3'-DICHLOROBENZIDINE
6000	UG/KG	BENZO(A)ANTHRACENE
7000	UG/KG	CHRYSENE
5700U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
5700UJ	UG/KG	DI-N-OCTYLPHTHALATE
7800	UG/KG	BENZO(B)FLUORANTHENE
7700	UG/KG	BENZO(K)FLUORANTHENE
11000	UG/KG	BENZO-A-PYRENE
5400J	UG/KG	INDENO (1,2,3-CD) PYRENE
1500J	UG/KG	DIBENZO(A,H)ANTHRACENE
4800J	UG/KG	BENZO(GHI)PERYLENE
42	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5946 FY 2002 Project: 02-0753

MISCELLANEOUS COMPOUNDS

Facility: Turkey Creek Sumter, SC

Program: SF

Id/Station: TC013SD /

Media: SEDIMENT

Case No: 30588

MD No: 1CB5

D No: 1CB5

Inorg Contractor: SENTIN

Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:45

Ending:

RESULTS	UNITS	ANALYTE
10000NJ	UG/KG	11H-BENZO [B] FLUORENE
130000J	UG/KG	23 UNKNOWN COMPOUNDS
4700NJ	UG/KG	PYRENE, 4-METHYL-
5500NJ	UG/KG	PYRENE, 1-METHYL-
6400NJ	UG/KG	O-TERPHENYL
5200NJ	UG/KG	BENZO [B] NAPHTHO [2,1-D] THIOPH
4900NJ	UG/KG	CHRYSENE, 6-METHYL-
6200NJ	UG/KG	STIGMASTANE

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected: the number is the minimum quantitation limit.
R-qc indicates that data unusable, compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5947 FY 2002 Project: 02-0753

EXTRACTABLES SCAN

Facility: Turkey Creek Sumter, SC

Program: SF Case No: 30588

Id/Station: TC014SD / MD No: 1CB6 Inorg Contractor: SENTIN

Media: SEDIMENT D No: 1CB6 Org Contractor: LIBRTY

Produced by: McConney, John

Requestor:

Project Leader: TTANNER

Beginning: 06/12/2002 15:50

Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
8000U	UG/KG	BENZALDEHYDE
8000U	UG/KG	PHENOL
8000U	UG/KG	BIS(2-CHLOROETHYL) ETHER
8000U	UG/KG	2-CHLOROPHENOL
8000U	UG/KG	2-METHYLPHENOL
8000U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
8000U	UG/KG	ACETOPHENONE
8000U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
8000U	UG/KG	N-NITROSODI-N-PROPYLAMINE
8000U	UG/KG	HEXACHLOROETHANE
8000U	UG/KG	NITROBENZENE
8000U	UG/KG	ISOPHORONE
8000U	UG/KG	2-NITROPHENOL
8000U	UG/KG	2,4-DIMETHYLPHENOL
8000U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
8000U	UG/KG	2,4-DICHLOROPHENOL
8000U	UG/KG	NAPHTHALENE
8000U	UG/KG	4-CHLOROANILINE
8000U	UG/KG	HEXACHLOROBUTADIENE
8000U	UG/KG	CAPROLACTAM
8000U	UG/KG	4-CHLORO-3-METHYLPHENOL
8000U	UG/KG	2-METHYLNAPHTHALENE
8000U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
8000U	UG/KG	2,4,6-TRICHLOROPHENOL
20000U	UG/KG	2,4,5-TRICHLOROPHENOL
8000U	UG/KG	1,1-BIPHENYL
8000U	UG/KG	2-CHLORONAPHTHALENE
20000U	UG/KG	2-NITROANILINE
8000U	UG/KG	DIMETHYL PHTHALATE
8000U	UG/KG	2,6-DINITROTOLUENE
5000J	UG/KG	ACENAPHTHYLENE
20000U	UG/KG	3-NITROANILINE
3400J	UG/KG	ACENAPHTHENE
20000U	UG/KG	2,4-DINITROPHENOL
20000U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
8000U	UG/KG	DIBENZOFURAN
8000U	UG/KG	2,4-DINITROTOLUENE
8000U	UG/KG	DIETHYL PHTHALATE
3500J	UG/KG	FLUORENE
8000U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
20000U	UG/KG	4-NITROANILINE
20000U	UG/KG	2-METHYL-4,6-DINITROPHENOL
8000U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
8000U	UG/KG	4-BROMOPHENYL PHENYL ETHER
8000U	UG/KG	HEXACHLOROBENZENE (HCB)
8000U	UG/KG	ATRAZINE
20000U	UG/KG	PENTACHLOROPHENOL
9600	UG/KG	PHENANTHRENE
7200J	UG/KG	ANTHRACENE
8000U	UG/KG	CARBAZOLE
8000U	UG/KG	DI-N-BUTYLPHTHALATE
24000	UG/KG	FLUORANTHENE
36000	UG/KG	PYRENE
8000U	UG/KG	BENZYL BUTYL PHTHALATE
8000U	UG/KG	3,3'-DICHLOROBENZIDINE
13000	UG/KG	BENZO(A)ANTHRACENE
13000	UG/KG	CHRYSENE
10000	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
8000UJ	UG/KG	DI-N-OCTYLPHTHALATE
12000	UG/KG	BENZO(B)FLUORANTHENE
14000	UG/KG	BENZO(K)FLUORANTHENE
16000	UG/KG	BENZO-A-PYRENE
6900J	UG/KG	INDENO (1,2,3-CD) PYRENE
1900J	UG/KG	DIBENZO(A,H)ANTHRACENE
6200J	UG/KG	BENZO(GHI)PERYLENE
59	%	% MOISTURE

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS — **EPA - REGION IV SESD, ATHENS, GA** — **Production Date: 07/24/2002 08:14**

Sample 5947 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek Sumter, SC
Program: SF
Id/Station: TC014SD /
Media: SEDIMENT
Case No: 30588
MD No: 1CB6
D No: 1CB6
Inorg Contractor: SENTIN
Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 15:50
Ending:

RESULTS	UNITS	ANALYTE
39000NJ	UG/KG	4H - CYCLOPENTA [DEF] PHENANTHRE
760000J	UG/KG	21 UNKNOWN COMPOUNDS
28000NJ	UG/KG	PHENANTHRENE, 4,5-DIMETHYL-
45000NJ	UG/KG	11H-BENZO [B] FLUORENE
77000JN	UG/KG	PYRENE, 1-METHYL- (2 ISOMERS)
47000NJ	UG/KG	BENZO [B] NAPHTO [2,1-D] THIOPH
29000NJ	UG/KG	3,4-DIHYDROCYCLOPENTA (CD) PYR
49000NJ	UG/KG	7H-BENZ [DE] ANTHRACEN-7-ONE
36000NJ	UG/KG	TRIPHENYLENE, 2-METHYL-

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value. NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS — **EPA - REGION IV SESD, ATHENS, GA** — **Production Date: 07/24/2002 08:14**

Sample 5948 FY 2002 Project: 02-0753
EXTRACTABLES SCAN
Facility: Turkey Creek Sumter, SC
Program: SF Case No: 30588
Id/Station: TC015SD / MD No: 1CB7 Inorg Contractor: SENTIN
Media: SEDIMENT D No: 1CB7 Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 16:00
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
6100U	UG/KG	BENZALDEHYDE
6100U	UG/KG	PHENOL
6100U	UG/KG	BIS(2-CHLOROETHYL) ETHER
6100U	UG/KG	2-CHLOROPHENOL
6100U	UG/KG	2-METHYLPHENOL
6100U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
6100U	UG/KG	ACETOPHENONE
6100U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
6100U	UG/KG	N-NITROSODI-N-PROPYLAMINE
6100U	UG/KG	HEXACHLOROETHANE
6100U	UG/KG	NITROBENZENE
6100U	UG/KG	ISOPHORONE
6100U	UG/KG	2-NITROPHENOL
6100U	UG/KG	2,4-DIMETHYLPHENOL
6100U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
6100U	UG/KG	2,4-DICHLOROPHENOL
6100U	UG/KG	NAPHTHALENE
6100U	UG/KG	4-CHLOROANILINE
6100U	UG/KG	HEXACHLOROBUTADIENE
6100U	UG/KG	CAPROLACTAM
6100U	UG/KG	4-CHLORO-3-METHYLPHENOL
6100U	UG/KG	2-METHYLNAPHTHALENE
6100U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
6100U	UG/KG	2,4,6-TRICHLOROPHENOL
15000U	UG/KG	2,4,5-TRICHLOROPHENOL
6100U	UG/KG	1,1-BIPHENYL
6100U	UG/KG	2-CHLORONAPHTHALENE
15000U	UG/KG	2-NITROANILINE
6100U	UG/KG	DIMETHYL PHTHALATE
6100U	UG/KG	2,6-DINITROTOLUENE
7000	UG/KG	ACENAPHTHYLENE
15000U	UG/KG	3-NITROANILINE
6100U	UG/KG	ACENAPHTHENE
15000U	UG/KG	2,4-DINITROPHENOL
15000U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
6100U	UG/KG	DIBENZOFURAN
6100U	UG/KG	2,4-DINITROTOLUENE
6100U	UG/KG	DIETHYL PHTHALATE
6100U	UG/KG	FLUORENE
6100U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
15000U	UG/KG	4-NITROANILINE
15000U	UG/KG	2-METHYL-4,6-DINITROPHENOL
6100U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
6100U	UG/KG	4-BROMOPHENYL PHENYL ETHER
6100U	UG/KG	HEXACHLOROBENZENE (HCB)
6100U	UG/KG	ATRAZINE
15000U	UG/KG	PENTACHLOROPHENOL
2700J	UG/KG	PHENANTHRENE
2700J	UG/KG	ANTHRACENE
6100U	UG/KG	CARBAZOLE
6100U	UG/KG	DI-N-BUTYLPHTHALATE
11000	UG/KG	FLUORANTHENE
16000	UG/KG	PYRENE
6100U	UG/KG	BENZYL BUTYL PHTHALATE
6100U	UG/KG	3,3'-DICHLOROBENZIDINE
13000	UG/KG	BENZO(A)ANTHRACENE
14000	UG/KG	CHRYSENE
6100U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
6100UJ	UG/KG	DI-N-OCTYLPHTHALATE
15000	UG/KG	BENZO(B)FLUORANTHENE
14000	UG/KG	BENZO(K)FLUORANTHENE
20000	UG/KG	BENZO-A-PYRENE
8700	UG/KG	INDENO (1,2,3-CD) PYRENE
2500J	UG/KG	DIBENZO(A,H)ANTHRACENE
7200	UG/KG	BENZO(GHI)PERYLENE
46	%	% MOISTURE

A-average value, NA-not analyzed, NAI-interferences, J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given,. U-material was analyzed for but not detected: the number is the minimum quantitation limit.
R-qc indicates that data unusable,. compound may or may not be present,. resampling and reanalysis is necessary for verification.

Sample 5948 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek Sumter, SC
Program: SF Case No: 30588
Id/Station: TC015SD / MD No: 1CB7 Inorg Contractor: SENTIN
Media: SEDIMENT D No: 1CB7 Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 16:00
Ending:

RESULTS	UNITS	ANALYTE
4200NJ	UG/KG	PHENANTHRENE, 2,5-DIMETHYL-
96000J	UG/KG	19 UNKNOWN COMPOUNDS
6800NJ	UG/KG	11H-BENZO [B] FLUORENE
13000NJ	UG/KG	11H-BENZO [A] FLUORENE
14000JN	UG/KG	PYRENE, 1-METHYL- (2 ISOMERS)
5200NJ	UG/KG	PYRENE, 1,3-DIMETHYL-
4800NJ	UG/KG	DIBENZO [C,H] [2,6] NAPHTHYRIDI
5300NJ	UG/KG	BENZO [B] NAPHTHO [2,1-D] THIOPH
7400NJ	UG/KG	PERYLENE
4500NJ	UG/KG	BENZ [J] ACEANTHRYLENE, 3-METH

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value, NA-not analyzed. NAI-interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable; compound may or may not be present. resampling and reanalysis is necessary for verification.

EXTRACTABLES SAMPLE ANALYSIS

EPA - REGION IV SESD, ATHENS, GA

Production Date: 07/24/2002 08:14

Sample 5949 FY 2002 Project: 02-0753
EXTRACTABLES SCAN
Facility: Turkey Creek Sumter, SC
Program: SF Case No: 30588
Id/Station: TC016SD / MD No: 1CB8 Inorg Contractor: SENTIN
Media: SEDIMENT D No: 1CB8 Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 16:30
Ending:

DATA REPORTED ON DRY WEIGHT BASIS

RESULTS	UNITS	ANALYTE
110J	UG/KG	BENZALDEHYDE
560U	UG/KG	PHENOL
560U	UG/KG	BIS(2-CHLOROETHYL) ETHER
560U	UG/KG	2-CHLOROPHENOL
560U	UG/KG	2-METHYLPHENOL
560U	UG/KG	BIS(2-CHLOROISOPROPYL) ETHER
160J	UG/KG	ACETOPHENONE
560U	UG/KG	(3-AND/OR 4-)METHYLPHENOL
560U	UG/KG	N-NITROSODI-N-PROPYLAMINE
560U	UG/KG	HEXACHLOROETHANE
560U	UG/KG	NITROBENZENE
560U	UG/KG	ISOPHORONE
560U	UG/KG	2-NITROPHENOL
560U	UG/KG	2,4-DIMETHYLPHENOL
560U	UG/KG	BIS(2-CHLOROETHOXY)METHANE
560U	UG/KG	2,4-DICHLOROPHENOL
560U	UG/KG	NAPHTHALENE
560U	UG/KG	4-CHLOROANILINE
560U	UG/KG	HEXACHLOROBUTADIENE
560U	UG/KG	CAPROLACTAM
560U	UG/KG	4-CHLORO-3-METHYLPHENOL
560U	UG/KG	2-METHYLNAPHTHALENE
560U	UG/KG	HEXACHLOROCYCLOPENTADIENE (HCCP)
560U	UG/KG	2,4,6-TRICHLOROPHENOL
1400U	UG/KG	2,4,5-TRICHLOROPHENOL
560U	UG/KG	1,1-BIPHENYL
560U	UG/KG	2-CHLORONAPHTHALENE
1400U	UG/KG	2-NITROANILINE
560U	UG/KG	DIMETHYL PHTHALATE
560U	UG/KG	2,6-DINITROTOLUENE
820	UG/KG	ACENAPHTHYLENE
1400U	UG/KG	3-NITROANILINE
560U	UG/KG	ACENAPHTHENE
1400U	UG/KG	2,4-DINITROPHENOL
1400U	UG/KG	4-NITROPHENOL

RESULTS	UNITS	ANALYTE
560U	UG/KG	DIBENZOFURAN
560U	UG/KG	2,4-DINITROTOLUENE
560U	UG/KG	DIETHYL PHTHALATE
560U	UG/KG	FLUORENE
560U	UG/KG	4-CHLOROPHENYL PHENYL ETHER
1400U	UG/KG	4-NITROANILINE
1400U	UG/KG	2-METHYL-4,6-DINITROPHENOL
560U	UG/KG	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
560U	UG/KG	4-BROMOPHENYL PHENYL ETHER
560U	UG/KG	HEXACHLOROBENZENE (HCB)
560U	UG/KG	ATRAZINE
1400U	UG/KG	PENTACHLOROPHENOL
290J	UG/KG	PHENANTHRENE
290J	UG/KG	ANTHRACENE
560U	UG/KG	CARBAZOLE
560U	UG/KG	DI-N-BUTYLPHTHALATE
800	UG/KG	FLUORANTHENE
1300	UG/KG	PYRENE
560U	UG/KG	BENZYL BUTYL PHTHALATE
560U	UG/KG	3,3'-DICHLOROBENZIDINE
980	UG/KG	BENZO(A)ANTHRACENE
1000	UG/KG	CHRYSENE
560U	UG/KG	BIS(2-ETHYLHEXYL) PHTHALATE
560UJ	UG/KG	DI-N-OCTYLPHTHALATE
1300	UG/KG	BENZO(B)FLUORANTHENE
1200	UG/KG	BENZO(K)FLUORANTHENE
1300	UG/KG	BENZO-A-PYRENE
680	UG/KG	INDENO (1,2,3-CD) PYRENE
220J	UG/KG	DIBENZO(A,H)ANTHRACENE
540J	UG/KG	BENZO(GHI)PERYLENE
41	%	% MOISTURE

A-average value. NA-not analyzed; NAI-Interferences. J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected, the number is the minimum quantitation limit.
R-qc indicates that data unusable,. compound may or may not be present; resampling and reanalysis is necessary for verification.

Sample 5949 FY 2002 Project: 02-0753
MISCELLANEOUS COMPOUNDS
Facility: Turkey Creek Sumter, SC
Program: SF Case No: 30588
Id/Station: TC016SD / MD No: 1CB8 Inorg Contractor: SENTIN
Media: SEDIMENT D No: 1CB8 Org Contractor: LIBRTY

Produced by: McConney, John
Requestor:
Project Leader: TTANNER
Beginning: 06/12/2002 16:30
Ending:

RESULTS	UNITS	ANALYTE
1600NJ	UG/KG	FLUORANTHENE
34000J	UG/KG	19 UNKNOWN COMPOUNDS
2000NJ	UG/KG	11H-BENZO [B] FLUORENE
4500NJ	UG/KG	11H-BENZO [A] FLUORENE
3400JN	UG/KG	BENZO [B] NAPHTHO [2,1-D] THIOPH (2 ISOMERS)
2100NJ	UG/KG	ETHANOL, 2- (TETRADECYLOXY)-
1300NJ	UG/KG	7H-BENZ [DE] ANTHRACEN-7-ONE
1300NJ	UG/KG	BENZO [B] NAPHTHO [2,3-D] THIPH
1600NJ	UG/KG	BENZ [A] ANTHRACENE, 12-METHYL
1200NJ	UG/KG	1-HEPTADECENE
1300NJ	UG/KG	PERYLENE

DATA REPORTED AS IDENTIFIED BY CLP LAB - IDS NOT VERIFIED

A-average value, NA-not analyzed. NAI-interferences; J-estimated value. N-presumptive evidence of presence of material.
K-actual value is known to be less than value given. L-actual value is known to be greater than value given. U-material was analyzed for but not detected. the number is the minimum quantitation limit.
R-qc indicates that data unusable. compound may or may not be present. resampling and reanalysis is necessary for verification.

SUMMARY OF MERCURY DATA

Note: Data presented below is screening data subject to verification by fixed lab techniques. Data should be considered preliminary until it has undergone a full QA review.

Project/Site Turkey Creek - Sumter SC - DAY 1

Date June 11, 2002 Analyst TW / MAW

Station ID	Mercury (mg/kg) wet/dry	Comments Dry (mg/kg)	
TC 1-1	0.6	1.8	190
1-2	0.4	0.9	260
1-3	0.1	0.2	40
1-4	0.3	0.6	108
1-5	0.3	1.1	206
TC 2-1	3.2	8.1	321
2-2	0.2	0.2	143
2-3	0.04 <0.05	0.04 <0.05	13.7
2-4	0.4	0.7	276
2-5	0.2	0.6	183
TC 3-1	1.2	2.3	315
3-1 LAB DUP	1.4	2.5	
3-2	0.8	1.1	196
3-3	0.1	0.2	55
3-4	0.2	0.2	24
3-5	0.8	2.6	192

Comments:

SUMMARY OF MERCURY DATA

Note: Data presented below is screening data subject to verification by fixed lab techniques. Data should be considered preliminary until it has undergone a full QA review.

Project/Site Turkey Creek Sumter SC -DAY1

Date June 11, 2002 Analyst TW/MW

Station ID	Mercury (mg/kg) wet/dry	Comments DRY WT (mg/kg)	
TC 4-1	<0.05	<0.05	—
4-3	0.2	0.4	21
4-4	<0.05	<0.05	~~36~~ 12
4-5	0.2	0.9	36
TC 5-2	<0.05	<0.05	—
5-3	0.1	0.4	82
TC 6-2	<0.05	<0.05	—
6-3	0.1	0.2	45
TC 7-2	<0.05	<0.05	—
TC 7-3	0.3	0.3	103
TC 8-SD West Bank	<0.05	<0.05	—
TC 8-SD Mid Creek	<0.05	<0.05	—
TC 9-SD MIDDLE	<0.05	<0.05	—
TC 9 EAST BANK	<0.05	<0.05	—

Comments:

SUMMARY OF MERCURY DATA

Note: Data presented below is screening data subject to verification by fixed lab techniques. Data should be considered preliminary until it has undergone a full QA review.

Project/Site Turkey Creek Sumter SC - DAY 1

Date 6-11-2002 Analyst TW/MW

Station ID	Mercury (mg/kg) wet/dry	Comments Dry wt (mg/kg)	
TC 10-1	<0.05	<0.05	—
10-2	0.05	0.06	62
TC 11-1	<0.05	<0.05	—
11-2	0.1	0.2	19
TC 12 WEST BANK	<0.05	<0.05	—
TC 12 MIDDLE	<0.05	<0.05	—
TC 13 WEST BANK	<0.05	<0.05	—
TC 13 MIDDLE	<0.005	<0.005	—
TC 13 MIDDLE - LAB DUP	0.05	0.07	—
TC 14 West Bank	0.1	0.1	109
TC 14 MIDDLE	0.09	0.2	80
TC 15 WEST BANK	<0.05	<0.05	30
TC 15 MIDDLE BANK	<0.05	<0.05	33

Comments:

SUMMARY OF MERCURY DATA

Note: Data presented below is screening data subject to verification by fixed lab techniques. Data should be considered preliminary until it has undergone a full QA review.

Project/Site Turkey Creek, Sumter SC D241

Date June 11, 2002 Analyst TW/MW

Station ID	Mercury (mg/kg) wet/dry	Comments Dry (mg/kg)	
TC 16 EAST BANK	0.07	0.07	151
TC 16 MIDDLE	<0.05	<0.05	24
TC 17 MIDDLE	0.05	0.07	86
TC 17 WEST BANK	<0.05	<0.05	—
TC 18 WEST BANK	<0.05	<0.05	89
TC 18 MIDDLE	<0.05	<0.05	29
TC 19	<0.05	<0.05	13
TC 20	<0.05	<0.06	19
TC 21	<0.05	<0.05	~~43~~ 25
TC 22	<0.05	<0.07	43
TC 23	<0.05	<0.05	—
TC 23-Lab Dup	<0.05	<0.05	

Comments:

SUMMARY OF MERCURY DATA

Note: Data presented below is screening data subject to verification by fixed lab techniques. Data should be considered preliminary until it has undergone a full QA review.

Project/Site Turkey Creek Sumter, SC Day 2

Date 6-12-2002 Analyst MW | TW

Station ID	Mercury (mg/kg) wet/dry (Wet)	Comments Hg-Dry weight DRY - MG/KG	XRF wet Pb
TC-1-4.5 12"	0.4	1.0	184
1-4.5 3 feet	0.4	1.5	114
1-1 20-24"	0.4	1.4	119
1-A5 shallow	0.1	0.7	115
1-AD	0.2	0.9	134
1-BS shallow	0.05 0.08	0.69 mw 0.7	47
1-BD Deep	0.6	3.8	132
1-BD Deep Lab Dup	0.6	4.2	126
TC 2-4.5 G	1.3	5.0	263
2-2D	1.9	3.9	253
2-BS	0.08	0.16	25.6
2-BD	<0.05	<0.09	-
2-4.5 24"	1.0	3.3	311
2-AD	0.093	0.13	33
Ø-1	0.13	0.76	87
Ø-2	0.053	0.090	12
Ø-3	0.20	0.33	38
2-A5	0.24	0.54	201

Comments:

Ref. 5

Sampling Plan
Expanded Site Inspection
Turkey Creek Site
Sumter County
SC0 002 408 367

May 23, 2002

Prepared By: Robert Cole
Site Assessment Section
Bureau of Land & Waste Management
South Carolina Department of Health & Environmental Control
2600 Bull Street
Columbia, SC 29201

TABLE OF CONTENTS

1. INTRODUCTION ____ *1*

1.1 Objectives / Site Management Strategy ____ 1

1.2 Permits and Authorization Requirements ____ 1

1.3 Schedule of Activities ____ 1

1.4 Personnel ____ 1

2.0 SITE INFORMATION ____ 2

2.1 Location ____ 2

2.2 Site Description / History ____ 2

2.3 Waste Characteristics ____ 2

2.4 Environmental Pathways ____ 2

2.4.1 Groundwater Pathway ____ 2

2.4.2 Surface Water Pathway ____ 3

2.4.3 Soil Exposure and Air Pathways ____ 3

3. PROPOSED SAMPLING ____ *3*

3.1 Location / Rationale ____ 3

3.2 Analytical Parameters Requested ____ 4

3.3 Sampling Methodology ____ 4

4. DATA QUALITY OBJECTIVES ____ *5*

5. REFERENCES ____ *5*

APPENDIX A: Health & Safety Plan ____ *6*

1. INTRODUCTION

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Site Assessment Section, South Carolina Department of Health & Environmental Control will conduct an Expanded Site Inspection at the Turkey Creek Site in Sumter County, South Carolina.

1.1 Objectives / Site Management Strategy

The Expanded Site Inspection will include the collection of sediment and water samples to better characterize the extent of contamination in Turkey Creek and portions of its associated floodplains. This investigation will rely on screening data from a NITON L-XRF and a Mercury Analyzer to focus sample locations. The information gathered from this investigation will be used to decide further Federal Superfund activities, including removal/remedial actions and placement on the National Priority List (NPL). The primary focus of the investigation is to determine if Turkey Creek has been impacted by historic or current discharges to the creek, and if the creek can be evaluated as a contaminated sediment site.

1.2 Permits and Authorization Requirements

Permission to access the necessary properties is being obtained from:
Ruby McGowan
803-481-8122

1.3 Schedule of Activities

Sampling activities are scheduled to be performed on June 11, 12 and 13 , 2002.

1.4 Personnel / Additional Resources

SCDHEC Project Manager: Robert Cole
SCDHEC Safety Officer: F.M. Carns
SCDHEC Sampling Team: Jason Williams, Tim Kadar, Dana Cook, Jennie Temple

Additional Resources: EPA ESD is providing Field analytical support. Sediment samples will be analyzed using NITON L-XRF and a Mercury Analyzer to obtain screening data.

2.0 SITE INFORMATION

2.1 Location

The site is located in Sumter, South Carolina. The creek is located on the eastern edge of the town of Sumter. The creek can be reached from many streets that cross the creek, including Highway 521. A site location map is attached (Figure 1). The geographic coordinates of the creek at the US Highway 521 bridge are:

Latitude 33^0, 52', 34.8"
Longitude 080^0, 20', 4.0"

2.2 Site Description / History

The site consists of contaminated sediment in Turkey Creek and its floodplain. The source of the contamination is not known, but several industries located in Sumter discharged wastewater to Turkey Creek for many years, including Santee Print Works, Georgia Pacific, Southern Coatings & Chemical Company, and Clover Manufacturing. The creek flows approximately 5 miles from its headwaters near downtown in a residential area, to its discharge point into the Pocotaligo River. Several sampling events by the US Fish and Wildlife Department, the US Army Corps of Engineers, and SCDHEC have found elevated concentrations of metals and PAHs in creek water or sediment.

2.3 Waste Characteristics

The site will be evaluated as a contaminated sediment site. Sampling for a 2001 PA-SI included five soil/sediment samples from the Turkey Creek floodplain in an area identified by a complainant, downstream of Highway 521. Numerous metals were detected at elevated levels (three times background), including: aluminum, antimony, arsenic, barium, beryllium, chromium, copper, lead, magnesium, manganese, mercury, nickel, silver, vanadium, and zinc. PAHs were also detected at elevated concentrations, but due to high detection limits the data was inconclusive for VOCs and SVOCs.

2.4 Environmental Pathways

2.4.1 Groundwater Pathway

The majority of the population within a 4-mile radius obtains drinking water from the City of Sumter. This system uses a network of 20 deep wells for water. Private wells are also numerous in the areas outside of the city. Because this site is a contaminated sediment site, the Groundwater Pathway will not be addressed during this investigation, and no groundwater samples are proposed.

2.4.2 Surface Water Pathway

The headwaters of Turkey Creek originate in the city of Sumter. This area of the state lies within the Middle Coastal Plain physiographic province. Streamflow in this area of the state is supported primarily by rainfall. Based on observations made during the reconnaissance and sampling of the site, and on the amount of drainage area that feeds into the creek, the flow is estimated to be between 10 and 100 cubic feet per second (cfs). The flow of the Pocotaligo River is estimated to be between 100 and 1000 cfs. The

2.4.3 Soil Exposure and Air Pathways

Access to the creek is largely unrestricted. Spoils from dredging are present along the bank of the creek for most of its length. Some residential areas are located adjacent to the creek, and footpaths were noted leading to and from the creek. This investigation will include samples from the spoils piles along the creek, and possibly samples from flood prone areas adjacent to the creek.

3. PROPOSED SAMPLING

A map showing the proposed sample locations is attached (Figure 2).

3.1 Location / Rationale

Sample Type	Sample #	Location / Rationale
Sediment and Surface Water	TC-001-SD TC-001-SW (Duplicate)	Location: From the most upgradient location possible along the creek. This location will be chosen in the field. Rationale: Control/background for the creek.
Surface Soil	TC-002-SF	Location: From soil in an area adjacent to the creek along the most upgradient location possible. Rationale: Control/background for spoils along the creek.
Surface Soil	TC-003-SF	Location: From the floodplain of the creek at a location chosen in the field. Most likely from a location in the upper reaches of the stream. Rationale: Control/background for other floodplain samples collected downstream.
Sediment	TC-004-SD through TC-020-SD	Location: From Turkey Creek at locations chosen in the field based on screening data from XRF and Mercury Analyzer. Rationale: To determine if a release to the creek has occurred. Also to help determine the extent of contamination.

Sample Type	Sample #	Location / Rationale
Soil	TC-021-SF through TC-030-SF	Location: From the spoils and flood prone areas adjacent to the creek at locations chosen in the field based on screening data from XRF and Mercury Analyzer. Rationale: To determine if contaminants are present in the spoils or floodplain of the creek.
Surface Water	TC-031-SW through TC-035-SW	Location: From Turkey Creek at locations chosen in the field. Including at least one from the fishery near the US Highway 521 bridge. Rationale: To determine if a release to the creek has occurred.

3.2 Analytical Parameters Requested

A large number of samples will be collected and screened for arsenic, lead and mercury. Samples sent to fixed laboratories will be analyzed for parameters listed in the EPA Target Compound List (TCL) and Target Analyte List (TAL).

3.3 Sampling Methodology

All sample collection, preservation, and chain of custody used during this investigation will be conducted in accordance with the Standard Operating Procedures found in the SCDHEC Bureau of Land & Waste Management Standard Operating Procedures (SOP), and the USEPA, Region 4, Science and Ecosystem Support Division, Environmental Investigations Standard Operating Procedures and Quality Assurance Manual, November 2001. Investigation Derived Waste will be handled according to SCDHEC and USEPA Standard Operating Procedures.

4. DATA QUALITY OBJECTIVES

DQO Seven Steps	Relevant Section(s)
1. State the Problem The contamination problem is summarized in Sections 2.2 and 2.3. Personnel and additional resources for this investigation are outlined in Section 1.4. Site management strategy is discussed in Section 1.1.	1.1, 1.4, 2.2, 2.3
2. Identify the Decision The principal objective of this investigation is to provide analytical data to make site management decisions and possibly complete a Hazard Ranking System (HRS) score. Samples from the relevant pathways (groundwater, surface water, soil exposure, and air) will be taken to document contaminant migration and define waste sources.	1.1
3. Identify Inputs to the Decision Environmental samples will be collected to and will provide analytical data for making site management decisions. Samples will be collected as noted in Section 3.1. Analytical methods appropriate to provide necessary data for this investigation are discussed in Section 3.2.	3.1, 3.2
4. Define the Study Boundaries Sampling activities have been scheduled as discussed in Section 1.3. Site characteristics and targeted populations are discussed in subsections of Section 2.0.	1.3, 2.1-2.4
5. Develop a Decision Rule Analytical detection limits have been chosen to provide data sufficient for site management decisions. This data will be applied to individual pathways of scoring scenarios and other pre-remedial concerns. Statistical (probabilistic) based sampling does not apply to this investigation.	3.1, 3.2
6. Specify Limits on Decision Does not apply because statistical (probabilistic) sampling is not a part of this investigation.	-
7. Optimize the Design Approval by USEPA Region IV Remedial Project Managers is required prior to resource allocation.	-

8. REFERENCES

1. Aerial photographs from USGS Terraserver.
2. USGS Topographic map
3. Field Notes

Figure 6

Figure 1 - Turkey Creek Site Location

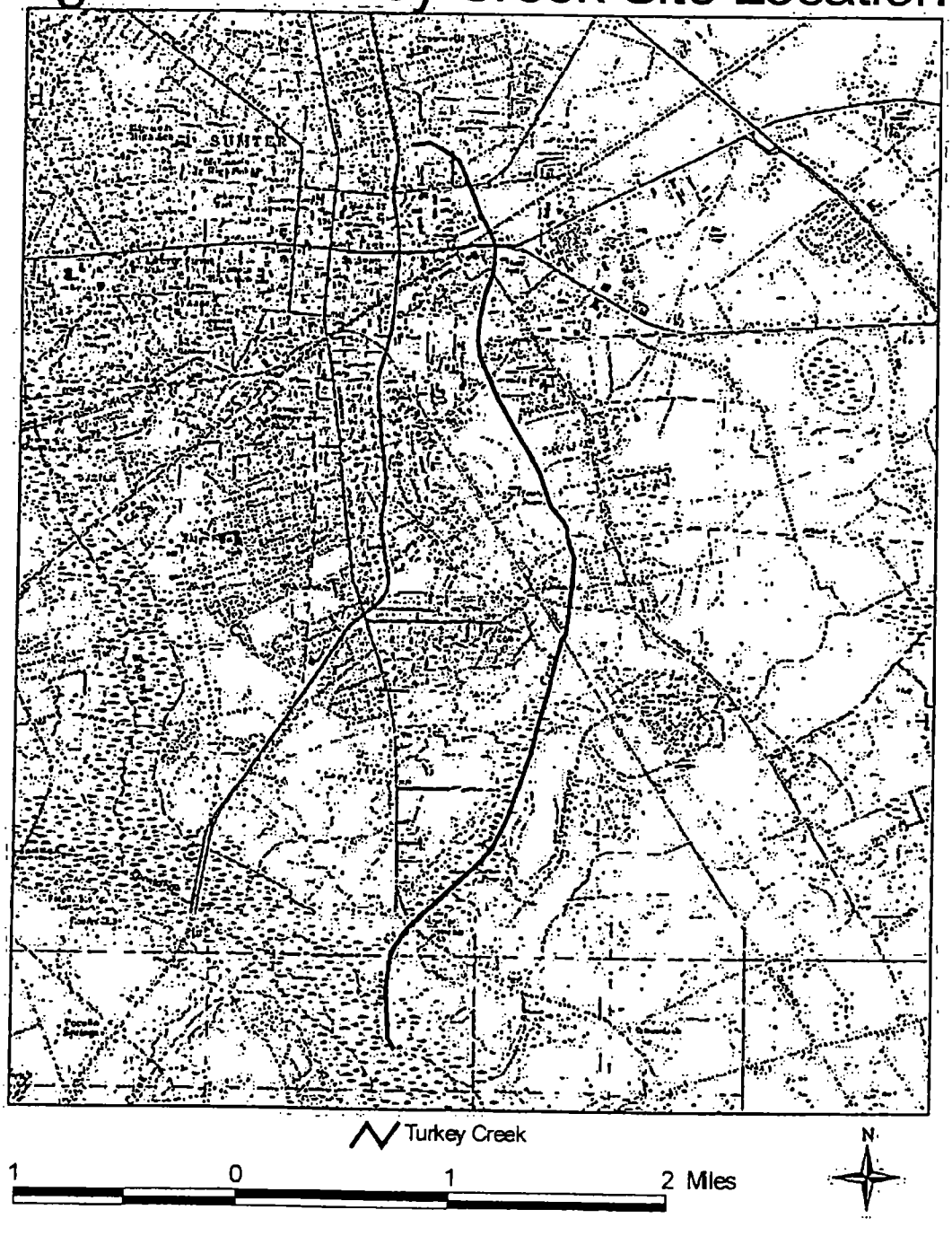
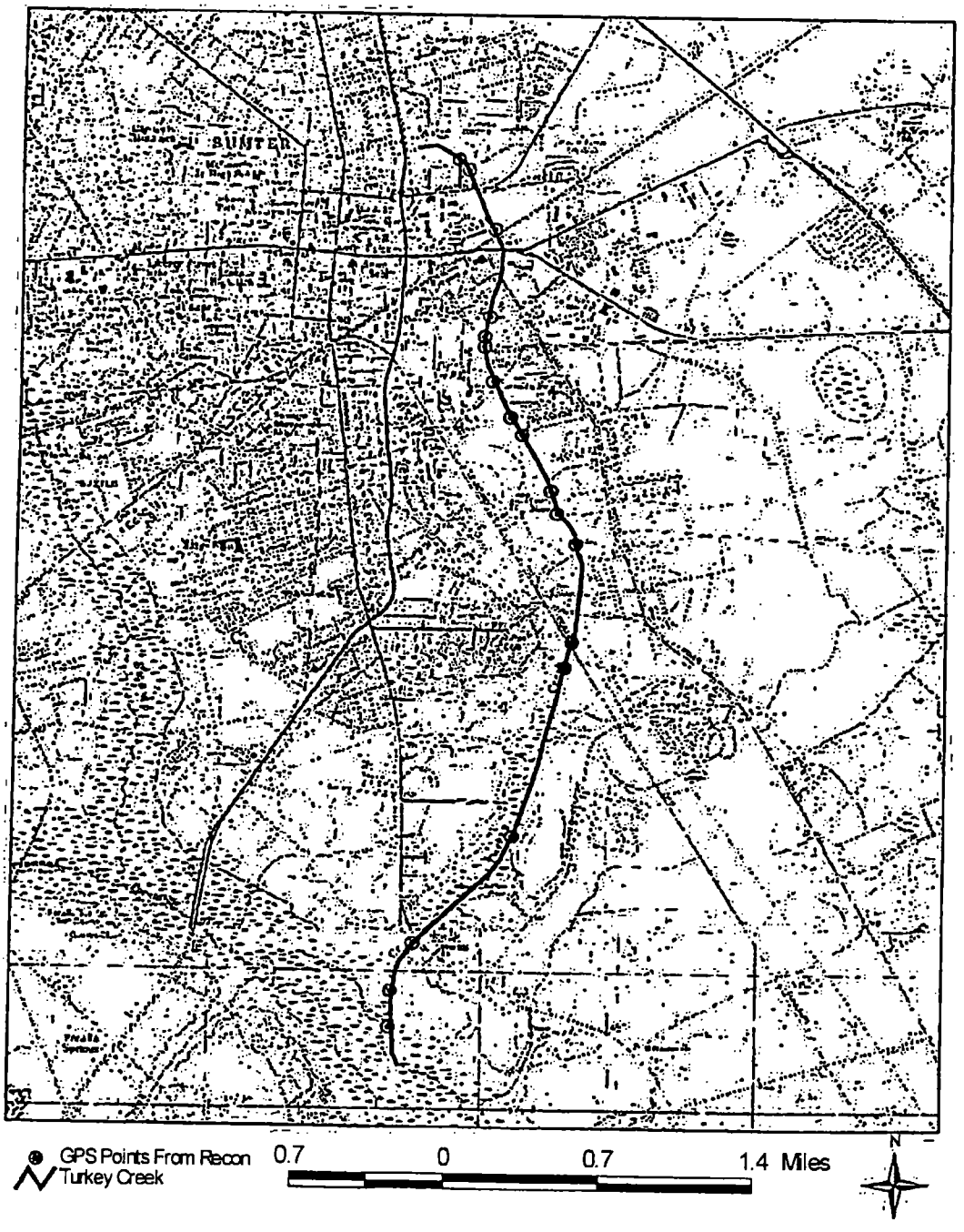


Figure 2 - Turkey Creek Sample Locations



APPENDIX A: Health & Safety Plan

South Carolina
DHEC
Department of Health and Environmental Control

Health and Safety Plan
Site Screening Section

EPA ID: SC0 002 408 367

Site Name: Turkey Creek Site
Address:
City: Sumter
County: Sumter

Site Contact / Phone Number : Ruby McGowan 803-481-8122

Directions to Site: The site is large creek that is located on the eastern edge of Sumter, SC. The point of previous sampling is located at the intersection of the creek and US Highway 521.

Historical / Current Site Information: The site consists of contaminated sediments in Turkey Creek and its floodplain. Numerous industries discharged wastewater into the creek. The creek flows approximately 5 miles from its headwaters in a residential area to the Pocotaligo River.

Project Type:

( ) Preliminary Assessment
( ) Site Investigation
( ) Site Inspection Prioritization
(X) Expanded Site Inspection
( ) Other

Location Class:

( ) Industrial
( ) Commercial
( ) Urban
( ) Rural

SCDHEC Project Manager : Robert Cole
Site Health & Safety Coordinator : Bubba Carns
Reconnaissance Date(s): 5-7-2002 **Sampling Date(s)**: 6-11 thru 6-13

Site Assessment Activities / Duration (as applicable):

(X) Perimeter Reconnaissance
(X) Site Entry
( ) Visual Documentation
(X) Multi-media Sampling
(X) Decontamination

Physical Safety Hazards to Personnel:

(X)	Heat	( )	Cold	( )	Radiation
( )	Noise	(X)	Working Surfaces	( )	Illumination
(X)	Terrain	( )	Confined Space	( )	Fire & Explosion
( )	Oxygen Deficiency	( )	Overhead Utilities	( )	Heavy Equipment
( )	Underground Utilities	( )	Ponds, Lagoons	( )	Pressurized Cylinders
(X)	Rivers, Streams	(X)	Precipitation		
( )	Other:				

Biological Hazards to Personnel:

( )	Infectious/Medical/Hospital Waste	(X)	Non-domesticated animals
(X)	Insects	( )	Raw Sewage
(X)	Poisonous Plants/Vegetation	(X)	Snakes

Training Requirements:

(X) 40 Hour General Site Worker Course with three days supervised experience
( ) Adult First Aid / CPR
(X) 8 Hour Annual Refresher Health and Safety Training

Medical Surveillance Requirements:

(X) Baseline initial physical examination with physician certification
( ) Annual medical examination with physician certification
( ) Site Specific medical monitoring protocol (Radiation, Pesticide, PCB, Metals)
( ) Exempt from medical surveillance: _____
( ) Examination required in event of chemical exposure or trauma

Decontamination Procedures

( ) Wet Decontamination
( ) Dry Decontamination
Description of Site Specific Decontamination Plan:

_____
_____
_____
_____

Adequacy of decontamination determined by: Bubba Carns

Chemical Hazards to Personnel

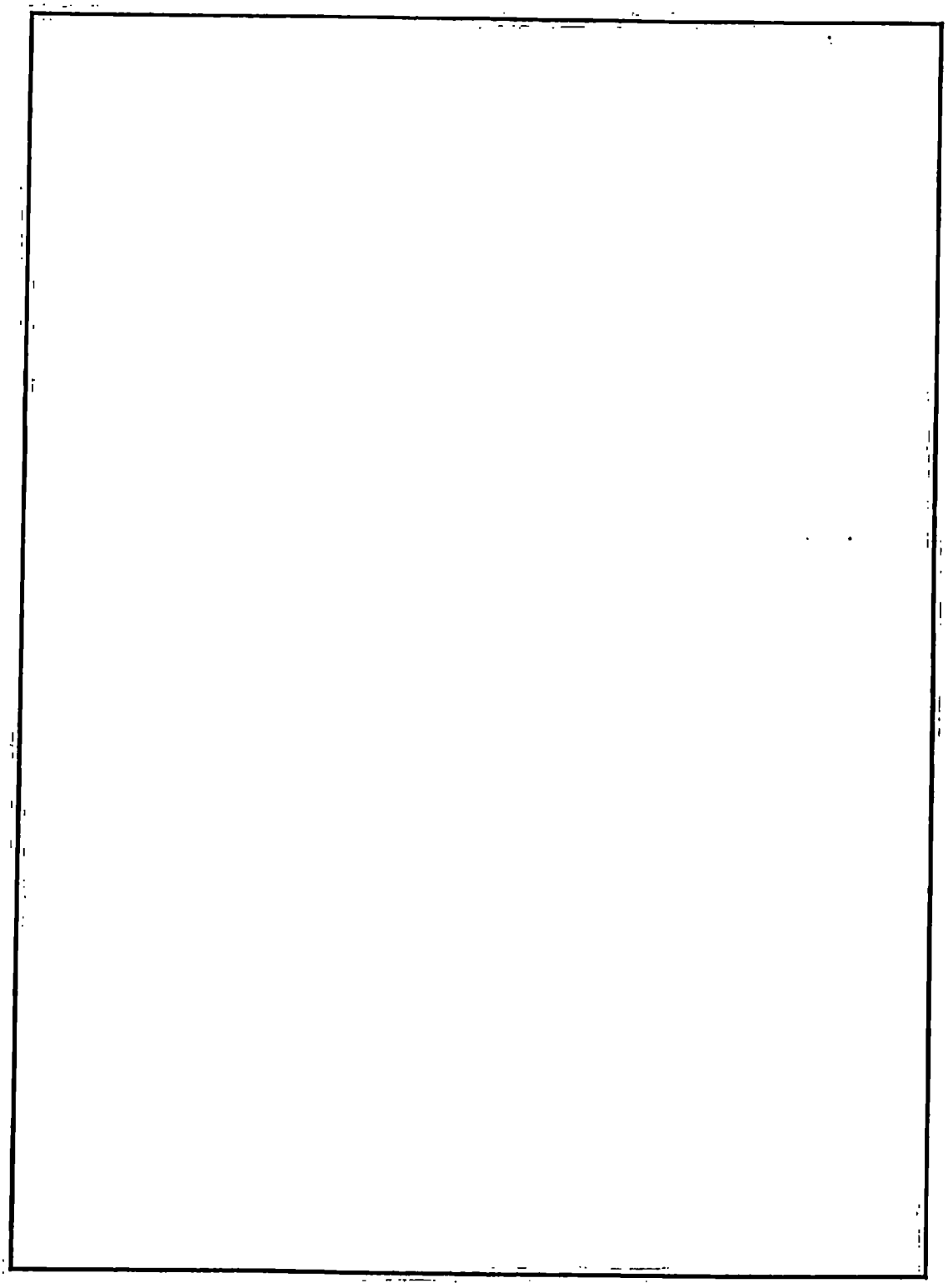
Exposure / Characteristics

Physical Parameters	Chemical Contaminant	Chemical Contaminant	Chemical Contaminant
Exposure Limits Odor Thresh.	ppm mg/m³ PEL ppm mg/m³ TLV ppm mg/m³ IDLH ppm	ppm mg/m³ PEL ppm mg/m³ TLV ppm mg/m³ IDLH ppm	ppm mg/m³ PEL ppm mg/m³ TLV ppm mg/m³ IDLH ppm
FIRST AID TREATMENT	Eye: Skin: Inhalation: Ingestion:	Eye: Skin: Inhalation: Ingestion:	Eye: Skin: Inhalation: Ingestion:
Route of Exposure	( ) Contact ( ) Inhalation ( ) Absorption ( ) Ingestion	( ) Contact ( ) Inhalation ( ) Absorption ( ) Ingestion	( ) Contact ( ) Inhalation ( ) Absorption ( ) Ingestion
Symptoms of Acute Exposure			
Physical Form	( ) Solid ( ) Liquid ( ) Gas Color:	( ) Solid ( ) Liquid ( ) Gas Color:	( ) Solid ( ) Liquid ( ) Gas Color:
Odor			
Flash Point Flammability	Degrees F or C % UEL % LEL	Degrees F or C % UEL % LEL	Degrees F or C % UEL % LEL
Vapor Pressure Vapor Density	mm Hg Air = 1	mm Hg Air = 1	mm Hg Air = 1
Specific Grav.	Water = 1	Water = 1	Water = 1
Solubility			
Ion Potential	eV	eV	eV
Instruments for	( ) PID w/ Probe ( ) FID ( ) CGI ( ) RAD ( ) Det. Tube ( ) pH ( ) Other	( ) PID w/ Probe ( ) FID ( ) CGI ( ) RAD ( ) Det. Tube ( ) pH ( ) Other	( ) PID w/ Probe ( ) FID ( ) CGI ( ) RAD ( ) Det. Tube ( ) pH ( ) Other
Incompatible Materials			

Site Sketch with work zones:

See Figure 1 of the Sampling Plan

Setup will occur immediately downstream of the Highway 521 Bridge.



Personal Protective Equipment

Task to be Performed / Air Monitoring Required	Anticipated Level of Protection	Type of Chemical Protective Coverall	Inner Glove Outer Glove Boot Cover	Type of APR Cartridge or Canister
Sampling	D			

Frequency and Types of Air Monitoring:

( ) Continuous (X) Routine _____ ( ) Periodic _____

Direct Reading Instruments	Combustible Gas / Oxygen Meter	Radiation Survey Meter / Probe	Photoionization Detector	Flame Ionization Detector	Chemical Detector Tube
ID Number					
Calibration Date					
SCDHEC Member					
Action Level	≥ 10% LEL or $O_2 \leq 19.5\%$ $O_2 \geq 23\%$ **LEAVE**	3X Background CAUTION 1 MR/HR **LEAVE**	Unknowns 0-5 Units: "C" 5-500: "B"	Unknowns 0-5 Units: "C" 5-500: "B"	PEL/TLV Compare with PF

Emergency Numbers:

Emergency Contact	Location	Phone Number	Notified
Hospital	Tuomey 129 N. Washington Street	803-778-9000	
Ambulance			
Police			
Fire Department			

Directions to Hospital (attach map) - Route verified by: Robert Cole Date: June 10, 2002
See attached map and locations.

Additional Emergency Phone Contacts:

Contact	Phone Number
SCDHEC Bureau of Solid & Hazardous Waste Management EMERGENCY RESPONSE	803-734-5200
EPA Contact:	404-347-5065
ATSDR	404-639-0615
ATF (explosives information)	800-424-9555
National Response Center	800-424-8802
National Poison Control Center	800-942-5969
Chemtrec	800-424-9300

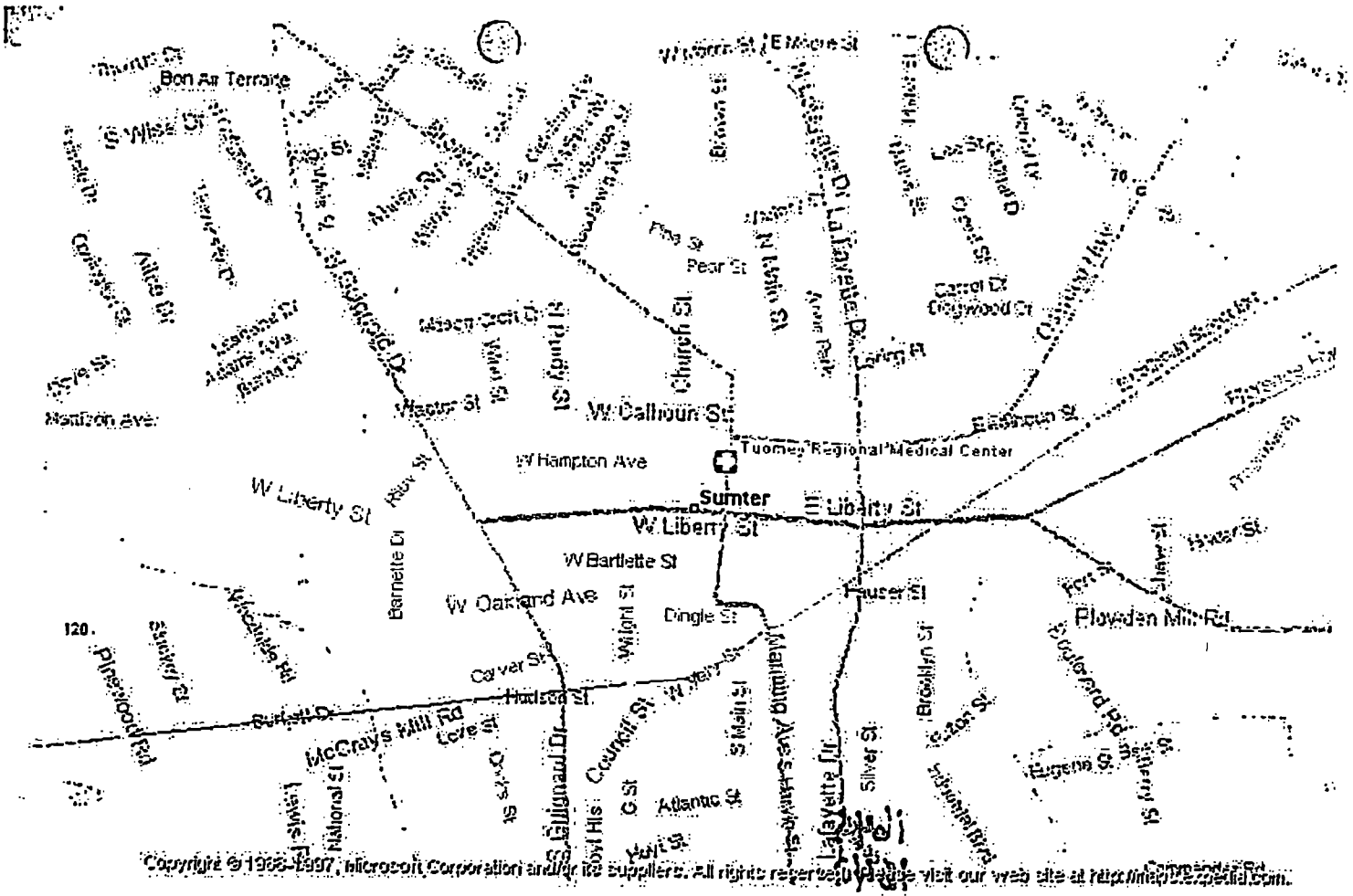
Health & Safety Plan prepared by: Robert Cole Date: June 10, 2002

Additional Sampling/Reconnaissance Team Members:

name signature date

name signature date

name	signature	date
name	signature	date
name	signature	date



Take US 521 North towards Sumter, then

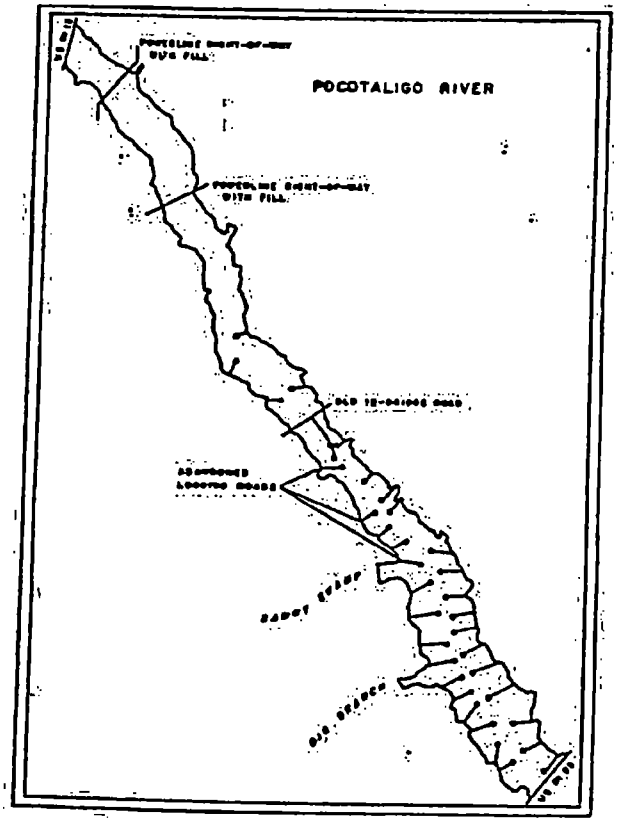
1.	Start on **MANNING AVE**	0.0
2.	Turn Left on **W FULTON ST**	0.0
3.	Turn Left on **MANNING AVE**	0.5
4.	Continue on **S MAIN ST**	0.1
5.	Turn Left on **W BARTLETTE ST**	0.2
6.	Turn Right on **S WASHINGTON ST**	0.2
7.	Continue on **N WASHINGTON ST**	0.2

Ref. 6

Special Report

POCOTALIGO SWAMP

Sumter County, South Carolina



US Army Corps of Engineers
Charleston District

U.S. FISH & WILDLIFE SERVICE

DIVISION OF ECOLOGICAL SERVICES
217 FORT JOHNSON ROAD
CHARLESTON, SOUTH CAROLINA 29412

Water resources problems in the Pee Dee River Basin were reviewed in a reconnaissance report authorized by resolutions of the committee on Public Works and Transportation, U. S. House of Representatives adopted 14 November 1979 and 23 September 1982.

Primary tributaries to the Pee Dee River include the Little Pee Dee River, Rocky River and the Black River. It was recommended in the reconnaissance report that no further studies be done in the South Carolina portion of the Pee Dee Basin except to define the extent of problems in Pocataligo Swamp, a tributary to the Black River, so that corrective work might be formulated by Non-Federal interests. Information presented in this Pocataligo Swamp report was compiled with funds remaining from the Pee Dee River Basin study.

POCALLA SWAMP

TABLE OF CONTENTS

	Page
Brief Description of Pocalla Swamp	1
Description of Current Swamp Environment	1
Water Quality	1
Quality of Fish and Wildlife Habitat	2
Wildlife	2
Fishery Resources	4
Endangered Species	4
Fish and Wildlife Resource Problems and Environmental Concerns	4
Mosquitoes	4
Odor	4
Loss of Timber	4
Nuisance Aquatic Vegetation	4
Decline in Waterfowl and Other Game Species	5
Probable Causes of Existing Problems	5
Potential Solution of Environmental Problems	6
Mosquito Control	7
Aquatic Plant Control	7
Fish & Wildlife Management Practices	7
Forestry Management	7
Summary	7
Appendix 1	1-1
Figure 1	3
Table I	1-3
Table II	1-4

POCALLA SWAMP REPORT

1. Brief Description of Pocalla Swamp

In the immediate vicinity of Sumter, South Carolina several creeks, including Green Swamp, Turkey, and Cain Savannah come together forming headwaters for the Pocotaligo River Swamp system. The Pocotaligo flows approximately 55 miles to the Black River draining an area of approximately 490 sq. mi. The Pocotaligo drops 135 ft. in elevation between Sumter and its confluence with the Black. Mean discharge at the mouth is 440 cfs. The Pocotaligo River is above the limit of tidal influence. The upper reaches of the broad flood plain through which the Pocotaligo River flows is generally known as Pocalla Swamp. During the period between World Wars I and II the extension of the railway network and construction of a hard-surfaced highway system diverted much waterborne commerce to areas, such as Sumter, which was above the headwaters of navigable rivers. Land use and income sources in and around Sumter, which were traditionally agricultural, slowly changed to the manufacture of furniture, textiles, steel fabricating, food processing, printing and dyeing, foundry products, and retail sales.

Prior to 1950 the upper reaches of the Pocotaligo River was characterized by a river-swamp system with as many as 12 flowing streams and dominated by a dense swamp forest community of water tupelo and bald cypress. Most of the swamp was semipermanently flooded area adjacent to braided creek channels. The forest canopy probably exceeded 90% closure in all but the wider creek channels. Swamp forest similar to that described still may be seen at Pocotaligo Park at the U.S. Highway 301 crossing near Manning, South Carolina. During this time Pocalla Swamp was used extensively for recreational pursuits. A great variety of wildlife species abounded in the swamp. The clean streams and deep pools were used not only for fishing but were prime swimming holes. Pocalla Springs was once a well known health resort visited by people from all over the state. These springs comprise some of the Pocalla Swamp headwaters.

2. Description of Current Swamp Environment

Water Quality

Pocalla Swamp has served over the last 30 years as a dump for domestic and industrial wastes. There is evidence of pollution from industrial discharges including waste disposal site runoff, textile wastes, paint, battery wastes, and oil and grease. Sewage from treatment plants on Green Swamp and Turkey Creek were discharged into the swamp until the larger Sumter Pocotaligo Wastewater Treatment Plant (PWTP) began operation in 1977. PWTP, although an improvement over its predecessors, has had some water quality problems associated with its operation. In June 1981 South Carolina Department of Health and Environmental Control (DHEC) conducted an acute toxicity test on the chlorine content of PWTP's waste water discharge. The results demonstrated that acute and chronic effects to biological com-

munities may be expected. DHEC advises that there are cases of contaminated runoff into Pocalla from sludge piles. The waste disposal site on Cook's Creek is a potential source of pollution. During excavation of a sewer line through this site in 1981, DEHEC determined that large amounts of hazardous wastes had been disposed of at this site. The dump is very close to Green Swamp, a Pocalla Swamp tributary. DHEC studies done in March and October of 1981 describe sediment and water sampling analyses from the swamp with only moderate amounts of trace metals and coliforms. PH was variable and buffering potential (as evidenced by low hardness and alkalinity values) was limited. Data obtained from primary water quality monitoring stations in the swamp area tended to support these findings. Sediment analysis from nine DHEC stations throughout the swamp showed high concentrations of metal at several locations with especially high levels of lead in Turkey Creek.

The U. S. Fish and Wildlife Service analyzed sediment and water samples from Pocalla Swamp. The plan and analysis results are attached as Appendix I. The analysis indicates that Pocalla Swamp shows the effect of long-term domestic and industrial pollution. According to preliminary analysis of some of the major pollutants, concentrations of most of the organic compounds, including pesticides, are relatively low. However, heavy metals, oil and grease, and in some cases fecal coliform continue to pose an environmental threat. Sediments in the Turkey Creek areas are contaminated with some of the highest levels of heavy metals as well as oil and grease. This is because most of the swamp's industrial pollution is known to have originated from this tributary.

Quality of Fish and Wildlife Habitat

At present Pocalla Swamp is predominantly a bog with dense floating mats of aquatic vegetation spanning the flood plain. Tree canopy cover is very sparse, averaging less than 25% over much of the flood plain. Only scattered large trees remain, probably unmerchantable trees left after logging activities. Young trees, predominantly red maple and water tupelo, are present only on floating mats of vegetation and near the edge of the swamp. No well defined stream channel is present with the exception of a few areas mostly at bridge crossings. The flood plain today is permanently flooded to a depth of 1 to 3 feet in areas above Interstate 95. Existing vegetative communities are shown in Figure 1.

Wildlife

Currently Pocalla Swamp provides wintering habitat for migratory waterfowl in the more open areas suitable for feeding and resting. Species likely to utilize the swamp in relatively large numbers include mallard, gadwall, green-winged teal, blackduck, hooded merganser, and wood duck. Extensive broad rearing habitat for wood ducks exists in scattered locations throughout the swamp where adequate nest cavities are found. Large areas of the swamp are leased annually for waterfowl hunting. According to local accounts waterfowl numbers increased dramatically soon after major logging activities during the early 1960's. Since that time there has been an apparent decline in wintering waterfowl numbers, possibly resulting from

increased aquatic plant and scrub-shrub cover. Large numbers of bird species adapted to palustrine forested and non-forested wetlands are likely to be present in the swamp. Dominant permanent residents are likely to be the belted kingfisher, downy woodpecker, long-billed marsh wren, great blue heron, great egret, white ibis, yellowthroat, and red-winged blackbird. Mammals are likely to include beaver, mink, river otter, and raccoon. Most of the swamp is too wet for significant use by deer except as escape cover. Reptilian species may include musk, mud, and snapping turtles, yellowbelly slider turtles, brown water snakes, and the cottonmouth.

Fishery Resources

Pollutants and dense aquatic vegetation present in most of the wetter areas including old stream channels reduce habitat suitability for most game fishes. However, quality habitat potential exists for gamefish in open channel areas near bridge crossings and other scattered locations throughout the swamp. Gamefishes present include largemouth bass, redbreast, sunfish, bluegill, chain pickerel, and redfin pickerel.

Endangered Species

The only endangered or threatened species known to be present within Pocalla Swamp is the threatened American Alligator.

Fish & Wildlife Resource Problems and Environmental Concerns

Problems related by local individuals include the following:

Mosquitoes - According to local individuals mosquito problems have been severe during recent years in areas adjacent to the swamp. It is likely that increased water levels and growth of nuisance aquatic vegetation have contributed to an increase in mosquito problems by providing breeding habitat.

Odor - Noxious odors have been reported over the past 20 years, and may be due both to decaying vegetation in the swamp as well as sewage. Prior to the completion of the new Sumter Pocotaligo wastewater treatment plant in 1977, inadequate sewage treatment may have contributed significantly to the odor problem in the swamp.

Loss of Timber - Most merchantable timber was harvested from the swamp above U.S. Highway 301 during the late 1950's and 1960's. The entire swamp was clearcut during that time, leaving only unmerchantable timber. Since timber was harvested, tree regeneration has been remarkably sparce. The apparent increase in water level as evidenced by aerial photography and onsite surveys is likely to have been a major factor in retarding regeneration. Most tree species adapted to growth in forested wetland habitats need periods of protection from flooding during the critical early years of seedling growth. The present extent of permanent flooding in the swamp has rendered large areas unsuitable for regeneration of swamp forest species.

Nuisance Aquatic Vegetation - Most of the swamp is choked by a dense mat-like growth of aquatic vegetation. Nearly all the small inter-

connecting stream channels are completely blocked by vegetation such that navigation by small boat is considerably limited. Dense matted vegetation generally has a negative effect on habitat suitability for gamefishes by interfering with feeding ability and by causing dissolved oxygen depletion. Additionally, fishing access is choked by vegetation. According to local reports, prior to 1960 it was possible to easily navigate the main channels from U. S. Highway 15 at Sumter, down to U. S. Highway 301 at Manning.

Declines in Waterfowl and Other Game Species - According to local accounts, wintering waterfowl number increased significantly in the first few years after timber harvesting took place in the 1950's and 1960's. In recent years significant declines in waterfowl numbers have been reported although no survey data is available. A possible explanation for this trend is that after logging ideal cover was provided for wintering waterfowl for a few years in flooded portions of the swamp. Thereafter, with absence of the tree canopy, aquatic vegetation began to increase in density. Presently aquatic vegetation is too dense for wintering waterfowl to utilize much of the swamp for resting and feeding. This explanation appears to be supported by study of vegetation changes visible in aerial photography.

Other forest game species such as deer, turkey, and gray squirrel may have been displaced by the apparent increase in water levels in the swamp, as well as failure of the forest canopy to return after logging.

3. Probable Causes of Existing Problems

It appears likely that problems associated with Pocalla Swamp today have been the result of a complex of alterations that have occurred during the period since 1950. After study of the history of Pocalla Swamp as described by local persons, aerial photography spanning the period from 1940 to the present, and field surveys, a clear pattern of alteration begins to emerge. The factors most likely to have contributed to the problems seen today in the swamp are:

a. Logging practices, including access roads

b. Bridge replacement on county road 32

c. Placement of powerlines and associated access embankments

d. Placement of new embankments for I-95

e. Industrial and municipal wastewater effluents.

These factors appear to have acted in combination to cause a loss of forest canopy, a significant increase in water level in the swamp, and degradation of water quality. The following pattern of events is suggested as an explanation for the problems we see today:

During the late 1950's and early 1960's numerous logging access roads were constructed across the swamp, blocking many of the interconnecting stream channels. Some low dikes were placed to help reduce water levels for

logging operations. Following placement of logging access roads, timber harvest by clearcut continued until most of the swamp forest canopy was removed. Normally, tree regeneration begins the first growing season after clearcutting, but the placement of many access roads and dikes resulted in slowly increasing water levels. With increased water levels, tree regeneration was suppressed or prevented. The absence of a tree canopy, and shallow permanent flooding in many areas provided ideal conditions for nuisance aquatic plants to thrive. As aquatic vegetation increased in density, water flow through the swamp was further reduced, resulting in water level increase.

Further complication of the problem resulted when two powerline rights-of-way were placed across the swamp below Sumter. During placement of the powerlines, fill was apparently placed across the swamp rights-of-way possibly to facilitate access for vehicles. Interstate 95 was constructed across the swamp leaving only small openings for water passage.

Discharge of poorly treated municipal and industrial wastewater continued until the late 1970's, undoubtedly contributing pollutants and excess nutrients. The addition of excess nutrients probably accelerated growth of aquatic plants further reducing flow through the swamp.

4. Potential Solutions to Environmental Problems

The series of problems described above resulted in conversion of what was once a forested wetland to a bog. Changes have occurred in natural resource values, some beneficial and some detrimental. For example, habitat for forest game species such as turkey, squirrel, and deer has been replaced by habitat more suitable for migratory waterfowl. Increased water levels appear to have prevented regeneration of valuable timber in the swamp. Municipal and industrial wastewater effluents have caused deterioration in water quality in the past, although it appears that water quality may now be improving. Changes in habitat characteristics and natural resource values will likely continue to occur over time.

Although there appears to be no easy single solution to the identified problems in Pocalla Swamp, the following actions have been identified for further study:

Removal of Flow Restrictions - Increased water level appears to be a key factor in most of the environmental problems identified. Abandoned logging access roads and control dikes, powerline right-of-way access roads, and bridge crossings appear to be responsible for all or part of the observed increases in water level. Some existing flow restrictions are shown in Figure 1. Further study will be necessary to develop an effective strategy for removal of flow restrictions.

Water Quality Management - Municipal and industrial wastewater discharges into the swamp have likely played a significant role in past water quality problems and overgrowth of noxious aquatic vegetation. Although significant improvements have been made in treatment of these wastes, a continuing problem appears to exist in some of the areas sampled.

Mosquito Control - An adequately funded mosquito abatement program should be established.

Aquatic Plant Control - The Corps of Engineers has a cooperative program with the South Carolina Water Resources Commission for the control of aquatic plants. The Pocotaligo River including Pocalla Swamp will be considered for inclusion in this program.

Fish and Wildlife Management Practices - Two basic management plans are possible, each involving a group of management actions. The first plan involves restoration of the swamp to original hydrologic conditions, emphasizing swamp forest game and nongame species, and river swamp fishery species. The second basic plan involves improvements for migratory waterfowl and riverine fishery species within the existing hydrologic conditions.

Forestry Management - Current water levels in the swamp are likely to prevent significant tree regeneration in the foreseeable future. Reduction in water levels appears to be a prerequisite for future timber management.

5. Summary

Finding an appropriate and feasible solution to the identified problems will involve selection of an appropriate management plan for Pocalla Swamp. The present study has served to describe and document changes that have occurred in Pocalla Swamp. The changes have in some cases caused problems such as loss of timber, water quality degradation, adverse mosquito population levels, decline in fishery habitat value and public access, and loss of forest game hunting opportunities. Also the changes have resulted in natural resource trade-offs such as loss of forest game habitat value in exchange for increased wintering waterfowl habitat values. It is important to bear in mind that changes in Pocalla Swamp are continuing.

It appears that two basic courses of action should be subjected to further study in order to develop the most feasible and appropriate management goal for Pocalla Swamp:

a. Restoration of near original habitat conditions in the swamp. The key factor involved would likely be removal of flow restrictions and lowering of water levels in the swamp. Lowering of the water levels could most effectively be accomplished by channelization in strategic reaches throughout the swamp. Feasibility of this course of action is not certain and further study would be required in order to identify not only key flow restrictions, but extensive and systematic testing would be necessary to determine toxic substances and contaminants which might be resuspended during dredging and allowed to spread downstream.

b. Retain existing hydrologic regime and direct limited management efforts toward solution of specific problems. This course of action will allow changes in habitat characteristics to continue over time, although changes are expected to be very slow. Tree regeneration is expected to remain very slow, and densities of aquatic vegetation and scrub-shrub growth may continue to increase. Wintering waterfowl numbers may be expected to

continue in decline as vegetation becomes more dense. Fishery habitat and fishing access may decline further due to the density of vegetation. Mosquito problems are expected to continue, although an adequate abatement program could be effective in controlling this problem.

APPENDIX I

This basic study plan as follows is limited and preliminary. This plan was designed by the U.S. Fish and Wildlife Service to enlarge upon existing contaminant data.

1. Ten representative stations were selected in or around Pocalla Swamp for collections and/or sampling of water, sediments and/or fish for contaminant residue analysis or coliform count. (See map, Figure 1) (Water samples were used only for coliform counts because of the large amount of existing data on other parameters.)

2. A control station was selected outside of the influence of any major contaminant sources. Pocotaligo Park (See Figure 1) was chosen for its apparent lack of major pollution.

3. Water sediment and fish samples were collected. Sediment samples were taken with a three-foot long by 1.5 inch diameter core sampler in areas where shoaling was evident. These areas were in the swamp at some distance from the bridges. Fish were collected with a variable mesh gill net in Turkey Creek.

4. Samples were submitted to a local lab certified by the Corps and SCDHEC (General Engineering Lab, Charleston, SC) for analyses. Samples were analyzed for selected metals, organophosphate pesticides, organochlorine pesticides, polychlorinated biphenyls and other priority pollutants (See Tables I and II for sediments and fish tissue values, respectively).

Data Analysis - Sediments and Water

Lead

Lead concentrations at most stations appear to be normal, except for Turkey Creek. These values are high and erratic, suggesting occasional pockets of high concentrations.

Mercury

Mercury concentrations in sediments near both powerline causeways appear to be somewhat elevated.

Copper

Most values appear normal except for the Turkey Creek area, where extremely high values have been detected.

Zinc

High concentrations were detected in Turkey Creek as well as below the waste dump on Cook's Street. In addition to the potential for individual

toxicity problems, copper and zinc collectively can cause a synergistic reaction that is especially lethal to fish and other aquatic organisms.

Oil and Grease

Oil and grease levels were very high at nearly all stations suggesting a great deal of runoff from streets, industries, service stations, etc.

Data Analysis - Fish

Mercury

With regard to public health, concentrations in fish tissue approaches the FDA limit of 1.0 ppm. However, fish and other aquatic organisms may be adversely affected (with regard to growth, reproduction, behavior, etc.) at much lower levels. According to recent studies, residues of arsenic, cadmium, lead, mercury and selenium exceeding 0.5 ppm in whole body tissues are potentially harmful to fish and other aquatic organisms (Walsh, et al, 1977). A comparison of the subject values to those in the National Contaminant Biomonitoring Program (conducted by USFWS) suggest that the Pocalla Swamp mercury values are among the higher values found in fresh water fish in this country.

Other Metals

Metals and other inorganics including arsenic, cadmium, silver, barium, etc., fall within the normal range.

Organic compounds

Concentrations of pesticides, PCB's, etc., appear to fall within the normal range.

TABLE I

POCALLA SWAMP PRELIMINARY CONTAMINANT ASSESSMENT
Sediment Analyses & Coliform Counts

Pollutant Analyzed for	Sediment, Water & Fish Sampling Station Numbers: 1 Hwy 32	2 Lower Pwline	3 Pocalla Pwline	4 Upper Pwline (N side)	5 Upper Pwline (S side)	6 Hwy 15	7 City Dump	8 Green Swamp	9 Turkey Creek (Upper)	10 (Lower)	11 Pocotaligo Park Control
Sediments											
Lead (P.P.M.)	<1.0	<1.0		<1.0	<1.0		<1.0	<1.0	1.0-95	18.9	<1.0
Copper "	<1.0	1.2,1.5		1.0	4.6		1.3-18.4	1.5	69.2-749	53.0	1.0
Mercury "	1.75	.14,.17		1.82	1.82		.02	.17	.01-.03	1.6	.15
Zinc	-	4.1,4.5		1.3	11.9		38.9-166	3.3	182-551	92.0	2.6
Oil & Grease	21.0	41,53		50	156		50-156	4	75-234	148	35
Organophosphorous Pesticides	<.01	<.01		<.01	<.01		<.005	<.01	<.005	<.01	<.01
Non-volatile Chlorinated Hydrocarbon	<.025	<.025		<.025	<.025		<.005	<.025	<.005	<.025	<.025
Volatiles	<.025	>.025		<.025	<.025		-	<.025	<.025	<.025	
Pesticides & Metabolites	.01-.06	.01-.06		.01-.06	.01-.06		-	.01-.06	.01-.89	.01-.06	.01-.06
PCB	<.01	.01-.10		<.01	<.01		<1.0	>.01	<1.0	<.01	<.01
Coliforms											
Noncoliform	TNTC*		TNTC*	TNTC*		TNTC*			TNTC*		
Fecal Coliform	71		TNTC*	TNTC*		152			32		

* Too numerous to count.

NOTE: Complete results available for review by interested persons.

TABLE II

POCALLA SWAMP PRELIMINARY CONTAMINANT ASSESSMENT

Pollutant Analyzed for		Fish Tissue		
		Chubsuckers	Bulkheads	Centrarchids
Arsenic	(ppm)	<1.0	<1.0	<1.0
Birium	"	3.3	<1.0	<1.0
Cadmium	"	< .5	< .5	< .5
Chromium	"	<1.0	<1.0	<1.0
Lead	"	<1.0	<1.0	<1.0
Mercury	"	.52	.95	.76
Selenium	"	< .5	< .5	< .5
Silver	"	<1.0	<1.0	<1.0
Organophosphorous Pesticides	"	< .01	< .01	< .01
Pesticides & Metabolites	"	<.01-<.06	<.01-<.06	<.01-<.06
PCB's	"	<.01-<.04	<.01- .26	<.01-.55

Note: The fish utilized for this study were all adult specimens collected from Turkey Creek. Whole fish were used for 5 fish composites for each of the three groups above.

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Bureau of Field and Analytical Services

Analytical Services Data Sheet For Sediment Samples

STATION No.	PD-201N	PD-202	PD-040	PD-091	PD-238	PD-237	PD-198	NASTY	PD-039
pH	4.6	4.8	5.0	5.3	5.4	4.3	4.3	4.8	4.8
TKN mg/kg	<30	<30	57.7	1154	<30	693	808	< 3	<30
T-P	71	3	22	68	17	39	47	5	10
Cd mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cr mg/kg	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cu mg/kg	<5.0	<5.0	20	<5.0	<5.0	<5.0	7.0	<5.0	<5.0
Hg mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2
Mn mg/kg	140	<5.0	7.0	240	9.0	15	90	7.0	18
Ni mg/kg	<5.0	<5.0	<5.0	24	<5.0	<5.0	<5.0	<5.0	<5.0
Pb mg/kg	54	9.0	14	11	<5.0	69	22	<5.0	<5.0
Zn mg/kg	30	19	120	80	10	15	28	7.0	5.0

4864

STATIONS SAMPLED MARCH 13, 1981

Sediment Samples Collected

PD-201N	Black River at US-378	Background Station
PD-202	Pacotaligo River at S-43-32	
PD-040	Turkey Creek at US-521	Dredged channel
PD-091	Pocotaligo River at US-15	
PD-238	Pocalla Creek at S-43-25	
PD-237	Pocalla Creek at US-15	Background Station
PD-198	Cane Savannah Creek at SC120	Background Station
Nasty Branch	Nasty Branch about 1/4 mile downstream from Manchester Downs Lagoon	
PD-039	Green Swamp at S-43-33	

DATA ANALYSIS

Ranges Obtained From Historical Data (1976-1978) - Also % Occurrences

Total Kjeldahl Nitrogen:

Range for Pee Dee Stations: Below detection limits of 30 mg/kg - 4100 mg/kg
84% samples between 100-1000 mg/kg

High values for this sampling: PD-091 1154 mg/kg - May be a natural level due to decaying vegetation

Phosphorous (P):

Range for Pee Dee Stations: Below detection limits of 25 mg/kg - 1000 mg/kg
55% samples 100 mg/kg
All values within normal range.

Cadmium (Cd):

Range for Pee Dee Stations: Rarely detected in sediment - no Cd detected

Chromium (Cr):

Range for Pee Dee Stations: Below detection limits of 5 mg/kg - 46 mg/Kg
80% samples below detection limits

All values acceptable

Copper (Cr):

Range for Pee Dee Stations: Below detection limits of 10 mg/Kg - 396 mg/kg - (abnormally high value)
75% samples below detection limits

20 mg/Kg at PD-040 may indicate an unnatural accumulation

Mercury (Hg):

Range for Pee Dee Stations: Rarely detected in sediments
All values acceptable.

Manganese (Mn):

Range for Pee-Dee Stations: Below detection limits Of 5 mg/Kg - 639 mg/kg
64% samples 10-100 mg/Kg

High Mn levels detected at PD-201N - 140 mg/Kg
PD-091 - 240 mg/Kg

These high Mn levels may be due to decaying vegetation (Tupelo leaves, etc., associated with the sediment - certain tree leaves can accumulate manganese and the manganese may be released when the leaves die and begin to decay - both of these stations had plant detritus associated with the sediments (especially PD-201N)

Nickel (Ni):

Range for Pee Dee Stations: Below detection limits of 10 mg/Kg - 28 mg/Kg.
82% samples below detection limits

24 mg/Kg at PD-091 may be slightly high.

Lead (Pb):

Range for Pee Dee Stations: Below detection limits of 5 mg/Kg - 140 mg/Kg
90% samples below 20 mg/Kg.

Elevated concentrations at PD-201N=54 mg/Kg
PD-237=69 mg/Kg

Zinc (Zn):

Range for Pee Dee Stations: Below detection limits of 10 mg/Kg - 200mg/Kg
80% sample less than 30 mg/Kg

High values at: PD-040= 120 mg/Kg
PD-091= 80 mg/Kg

Conclusions:

1) Slight accumulations of Copper and Zinc at PD-040 in Turkey Creek. This sample point is below the inactive dischargers of Sumter/Turkey Creek and Santee Print Works.

2) Slight accumulations of TKN, Mn, and Ni and Zn at PD-091. The TKN and Mn may be natural accumulations due to decaying vegetation.

3) Slight accumulations of Mn and Pb at PD-201N. Mn is probably natural.

4) Slight accumulation of Pb at PD-237.

SUMMARY:

The slight accumulation of lead at PD-201N and PD-237 are, perhaps, natural levels as both stations were sampled to show representative background levels in swamp environments. The manganese at PD-201N and PD-01 and TKN at PD-091 are both associated with the excessive amounts of decaying vegetation. The nickel and lead at PD-091 showed only slight accumulation and may be natural or due to past dischargers upstream from this station. The "worst" problem appears to be at PD-040, which is a dredged channel in Turkey Creek and is downstream of several inactive dischargers. The acumulations of elements in the sediment at the other stations will probably not be alleviated by dredging as they are most likely representative of natural conditions.

Ref.7

RECEIVE

APR 24 2000

DIVISION OF SITE ASSESSMENT & REMEDIA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

Chuck,
FYI
JKC

July 10, 1998

MEMORANDUM

SUBJECT: CERCLA Discovery
Turkey Creek
Sumter, SC
Lat 33°52'05", Long 80°20'10"
Area zip code 29150

FROM: Terry L. Tanner
Remedial Project Manager
South Carolina Site Management Team

TO: Site Files

The Turkey Creek Site was brought to EPA's attention by a previous local resident (Mrs. Johnson) during a March 16, 1998 public meeting for an unrelated site. Later discussions with Johnson revealed her concern over the final fate of waste water previously discharged into Turkey Creek. In consideration of the information below which suggests reasons for environmental concern, EPA will conduct a PA on this site. This memorandum will serve as the CERCLA Discovery for this site.

BACKGROUND

The Turkey Creek site is located southeast of the city of Sumter, SC, and immediately south of the creek's confluence with Highway 501. The contamination in Turkey Creek is likely associated with several industries located in Sumter, SC, which previously discharged waste water to Turkey Creek, a practice which has since been discontinued.

It was during these discharge events that a portion of Turkey Creek immediately downstream of the discharge points (Garrington property) was subject to blockage whereby the stream would overflow its banks. The mixture of surface water and waste water (whose presence was identified due to its color and foaming characteristics) would deposit onto adjacent property. Property owner A.E. Garrington filed a lawsuit in the third judicial circuit court naming Santee Print Works, Georgia Pacific, Southern Coatings & Chemical Co., and Clover Manufacturing Corporation as defendants charging the defendants with joint and several liability for the pollution of Turkey Creek. On July 26, 1972, the court ruled in favor of the plaintiff Garrington.

Sediment sampling of local waterways surrounding Turkey Creek has been performed by the SC Department of Natural Resources and the US Army Corps of Engineers. In general both sampling events revealed elevated levels of inorganic contaminants, principally lead, in samples taken from Turkey Creek downgradient of the Garrington property.

Currently much of the acreage is under water and has remained that way since the initial drainage problems began. Portions of the area now support both aquatic plant and animal species. EPA performed a site visit with the intent to locate potential sampling points within the portions of Turkey Creek where waste may have accumulated due to previous deposition. EPA was unable to locate original creek channel and adjacent banks due to dense vegetation and recent flooding. EPIC aerial photos would likely help locate the old channel and thereby focus any future investigative efforts. A reasonable concern for this site would be potential violations of ambient water quality standards in nearby surface waters which could be attributed to waste remaining within the sediments in Turkey Creek.

Ref. 8

IN RE: SANTEE PRINT WORKS, RESPONDENT

Before the S. C. Pollution Control Authority
Unnumbered Order, dated on or about May 25, 1967

Water Classification of Turkey Creek
Sumter County, South Carolina

TO: Mr. Martin Barocas, Vice President
Santee Print Works
P. O. Box 340
Sumter, S. C.

This matter came on to be heard before the Pollution Control Authority of South Carolina on May 17, 1967, at a regularly called meeting of the Authority at Columbia, South Carolina, as the outcome of a complaint concerning the pollution of the waters of Turkey Creek in the vicinity of Sumter, South Carolina, in contravention of standards and classifications for waters of South Carolina, which were formally adopted and promulgated by filing in the Office of the Secretary of State pursuant to Chapter 3 of Title 70, 1962 Code of Laws for South Carolina. Based upon the evidence before it, the Authority makes the following findings of fact:

1. *Turkey Creek, tributary to Pocotaligo River,* by action of the Authority on May 23, 1956, was duly classified at *Level B-Swamp,* and such classification was filed in the Office of the Secretary of State on *June 8, 1956.*

2. The present condition of said watercourse fails to meet the Standards of Classification *Level B-Swamp* in the following respects:

a. Dissolved oxygen consistently 0.00;
b. pH range from 4.70 to 11.20;
c. Print paste readily visible on surface of creek.

3. The respondent was discharging into said watercourse on May 4, 1950.

4. The Respondent, in the discharging of waste into the said watercourse, is discharging such waste without a permit to discharge issued by the Authority.

5. The Respondent is wholly or partly responsible for pollution in excess of the standards established for said watercourse by reason of the following:

Discharge of approximately 1.4 million gallons of untreated textile finishing waste per day to Turkey Creek.

6. Adequate and practical methods of disposal or treatment of the waste of the said Respondent are known.

7. Continuance of the present discharge of the Respondent will blight the district bordering the watercourse and will interfere with and prevent more appropriate uses of the lands bordering on such water, including recreation; irrigation and watering livestock; contributing to depreciation of property values; and aesthetic and health considerations.

IT IS, THEREFORE, ORDERED that the Respondent shall:

1. Cease and desist from acts resulting in polluting the said watercourse in excess of the applicable standards.

2. Construct and properly operate adequate waste treatment and/or handling facilities.

3. Submit to the Authority progress reports on a quarterly basis. First report due on September 1, 1967.

IT IS FURTHER ORDERED that the acts required by Paragraphs numbered 1 and 2 immediately above shall be completed no later than November 17, 1968.

Done at Columbia, South Carolina, this 25th day of May, 1967.

The Pollution Control Authority
of South Carolina

/s/ *E. Kenneth Aycock*
E. KENNETH AYCOCK, M. D.
Chairman

S. C. POLLUTION CONTROL AUTHORITY v. SANTEE PRINT WORKS, INC.

Sumter County (S. C.) Court of Common Pleas
Orders dated July 21, 1971; April 19, 1972; and December 18, 1972.

For information on the enforcement in this litigation, please consult *Legal Perspectives of Environmental Health in South Carolina*.

IN RE: FOSTER INDUSTRIAL PARK

Before the S. C. Pollution Control Authority
Unnumbered Order, dated November 9, 1967

Water Classification of Mill Creek
and Lower Three Runs Creek
Allendale County, S. C.

TO: J. P. Stevens and Company
Allendale Plant
Allendale, S. C. 29810

SUMMARY:

The Authority found that Respondent was using Mill Creek and Lower Three Runs Creek principally for the transportation of wastes. The Authority also concluded that Respondent was discharging wastes "amenable to treatment" without sufficient treatment. Those actions violated Section II, Paragraphs 2 and 3, of the Water Classification Standards System for the State of South Carolina. [Now Section III, Paragraphs two and three, of those Standards.]

Thereupon, Respondent was ordered to cease and desist from polluting the waters, either directly or indirectly, and to construct adequate treatment or handling facilities. Respondent was informed that, should compliance not be effected by March 23, 1971, its permit to discharge would at that time be revoked.

Having secured full compliance, the Authority revoked Order 70-4-W on August 4, 1972.

IN RE: FULTON CHEMICAL COMPANY, RESPONDENT

Before the S. C. Pollution Control Authority
Order No. 70-5-W, dated March 23, 1970

Stream Pollution of Turkey Creek
Sumter County, S. C.

TO: Fulton Chemical Company
P. O. Drawer 160
Sumter, S. C. 29150

SUMMARY:

Turkey Creek, a Level B-Swamp, was being used principally for the transportation of wastes which, although subject to treatment, were not being treated. In addition, Respondent was discharging without a permit.

As a result, the Authority ordered Respondent to cease and desist from polluting the waters, either directly or indirectly,

and to construct and operate adequate treatment or handling facilities.

IN RE: WILLIAMS FURNITURE COMPANY, RESPONDENT

Before the S. C. Pollution Control Authority
Order No. 70-6-W, dated March 23, 1970

Stream Pollution of Turkey Creek
Sumter County, S. C.

TO: Williams Furniture Company
Fulton Street
Sumter, S. C.

SUMMARY:

Turkey Creek, a Level B-Swamp, was being used primarily for the transportation of treatable wastes which had not been treated. Further, the creek's dissolved oxygen level was unacceptably low.

Respondent was found to be discharging in violation of then Sections II, Paragraphs 2 and 3, and III, Paragraph 3, of the Water Classification Standards System. Respondent was also discharging without a permit to discharge.

Noting that Respondent's discharges unnecessarily restricted riparian land uses at the same time that adequate treatment methods were available, the Authority issued a cease and desist order against Respondent.

IN RE: SOUTHERN COATINGS, RESPONDENT

Before the S. C. Pollution Control Authority
Order No. 70-7-W, dated March 23, 1970

Stream Pollution of Turkey Creek
Sumter County, S. C.

TO: Southern Coatings
Fulton Street
Sumter, S. C.

SUMMARY:

The findings in this matter were essentially the same as those in Order No. 70-6-W. Respondent herein also received a cease and desist order from the Authority.

IN RE: COVER MANUFACTURING COMPANY, RESPONDENT

Before the S. C. Pollution Control Authority
Order No. 70-8-W, dated March 23, 1970

Stream Pollution of Turkey Creek
Sumter County, S. C.

TO: Cover Manufacturing Company
Division of Dolly Madison, Inc.
P. O. Box 1389
Sumter, S. C. 29150

SUMMARY:

Again, findings were substantially similar to those of Order No. 70-6-W. A cease and desist order was issued by the Authority against Respondent.

IN RE: UNITED MERCHANTS AND MANUFACTURERS, INC., RESPONDENT

Before the S. C. Pollution Control Authority
Order No. 70-9-W, dated April 21, 1970

Stream Pollution of Little Horse Creek near Clearwater
Aiken County, S. C.

TO: United Merchants and Manufacturers, Inc.
Clearwater Finishing Plant
Clearwater, S. C. 29822

SUMMARY:

Little Horse Creek, a Class C stream, was the recipient of Respondent's treatable but non-treated wastes, and was being used primarily to transport Respondent's wastes.

Having found the above facts, the Authority directed Respondent to cease and desist from violations of then Section II, Paragraphs 2 and 3, of the Water Classification Standards System.

IN RE: CITY OF NORTH AUGUSTA, RESPONDENT

Before the S. C. Pollution Control Authority
Order No. 70-10-W, dated April 21, 1970

Stream Pollution of Savannah River
Aiken County, S. C.

South Carolina Department of Health and Environmental Control

Mark Blaskm
cutt
Ref. 9

2600 Bull Street
Columbia, S.C. 29201

Commissioner
Robert S. Jackson, M.D.

Board
Moses H. Clarkson, Jr., Chairman
Gerald A. Kaynard, Vice-Chairman
Oren L. Brady, Jr., Secretary
Barbara P. Nuessle
James A. Spruill, Jr.
William H. Hester, M.D.
Euta M. Colvin, M.D.

January 8, 1987 (revised 2-24-87)

MEMORANDUM

TO: Russell Sherer, Director
Water Quality Assessment and Enforcement Division

THROUGH: Mike Marcus, Manager Mike Marcus
Water Quality Monitoring Section

FROM: Harry Gaymon Harry Gaymon
Water Quality Monitoring Section

JAN. 1 [illegible]

SUBJECT: Pocotaligo River Basin - Turkey Creek Study

Attached are the results of the special study conducted by the Water Quality Monitoring Section in Turkey Creek and Pocotaligo Swamp, Sumter County, during October and November 1986 to determine the level of heavy metals contamination in fish and sediment. This special investigation was conducted because of the 1986 U.S. Army Corps of Engineers environmental study of Pocotaligo Swamp which reported elevated levels of mercury in fish and elevated levels of lead, copper and zinc in sediment taken from Turkey Creek.

This study included the collection of fish (one location) and both surface and sub-surface sediment from six locations throughout Pocotaligo Swamp (Figure I, Table I). All field collections were performed according to Standard Operating Procedures Manual and Quality Assurance Procedures Plan (SCDHEC). All laboratory metals analyses were conducted in accordance with Procedures and Quality Control Manual for Chemistry Laboratories (SCDHEC).

A boat-mounted core sampler was used to collect cores from bridges mid-stream at all station locations except in the swamp below the Sumter Pocotaligo Sewage Treatment Plant (PSTP) where a hand held core sampler was used. Surface sediment was collected mid-stream from the bridges with a stainless steel dredge. Below the PSTP, surface sediment was collected directly with a stainless steel spoon and then transferred to the sample bottle.

Core samples from all stations were collected and dumped into a stainless steel bucket where they were homogenized and then a sample was taken from the bucket. Only one core sample was taken at each station. Dredge samples were transferred directly to sample bottles.

/

Penetration depths for the cores taken from bridges were between 6 and 12 inches. At the PSTP station where the hand held core sampler was used, penetration was the full length of the core sampler of 20 inches.

A boat-mounted electrofishing unit was used to collect fish from Turkey Creek (PD-040). The entire navigable length of Turkey Creek from U.S. Highway 521 to Pocotaligo Swamp was electrofished twice but only four bowfin were collected. The only other fish observed was Gambusia sp. (Mosquito fish); however, two other fish thought to be bowfin escaped capture during the sampling effort.

The data from this study did not show excessive heavy metals contamination occurring in the fish and sediment of Pocotaligo Swamp (Tables II, III and VI). This determination was based on comparisons between data collected during this study and historical trend monitoring data collected from four similar coastal black water streams (Tables V and VII). The following trend stations were selected for comparisons:

1. CSTL - 109 (Coosawhatchee River at County Road 27, Hampton County)
2. E-015 (Edisto River at S.C. Highway 61, Dorchester County)
3. PD-038 (Lumber River at U.S. Highway 76, Marion County)
4. PD-027 (Black Creek at County Road 35, Darlington County)

As shown in the following table, heavy metals in surface sediment collected during this study were generally within the ranges for the trend stations (Table V). Although the Turkey Creek stations (Table III) were outside the range for chromium, copper and nickel these values are not considered to be abnormally high when compared with other trend and special study data.

Metals	Trend Station Ranges (ppm)	Pocotaligo Station Ranges (ppm)
Cadmium	0.50 - 6.89	<1.0 - 1.0
Chromium	2.50 - 6.60	<5.0 - 8.3
Copper	5.00 - 18.00	15 - 32
Lead	1.06 - 140.00	<5.0 - 20
Mercury	0.03 - 1.31	0.25
Nickel	5.00 - 10.00	<5.0 - 15
Zinc	5.00 - 340.00	5.9 - 130

As expected, the core sediment data show slightly higher heavy metals values for some of the metals than the surface sediment data (Table II). The most pronounced increase was in copper (70.0 ppm) and lead (53.0 ppm) at Turkey Creek Station PD-040. Again, these values are not considered abnormal when compared with other trend and special data. Since Turkey Creek once received untreated and poorly treated industrial wastewater during the late 60's and early 70's, it is not unexpected to see slightly higher sediment core values than sediment surface values.

When compared to the Corps study, this study did not show similar levels of lead (95.0 ppm), copper (749.0 ppm) and zinc (551.0 ppm) in the core sediment of Turkey Creek, but rather 53.0, 70.0 and 150.00 ppm, respectively.

To date, none of our Turkey Creek sediment samplings, special or trend, have shown similar elevated levels as reported in the Corps study (Tables II, III and IV). There is no obvious explanation for these differences.

Regarding heavy metals contamination of fish, the bowfin sample taken from Turkey Creek indicated no reason for concern (Table VI). Mercury was 0.45 ppm, but still well within the FDA safe tolerance limit of 1.0 ppm. When compared with bowfin collected from CSTL-109, the mercury and other heavy metals values were similar (Table VII). Throughout the State, it is not uncommon to find mercury values in bowfin between 0.5 and 1.0 ppm. No comparison could be made between fish tissue levels in this study and the Corps study since we found no chubsuckers, bullheads or centrarchids in Turkey Creek.

In summary, based on the results of this study, heavy metals contamination of the sediment in Pocotaligo Swamp are not responsible for the poor water quality presently existing in portions of the swamp. Apparently, the single most important contributor to the poor water quality is inadequate dissolved oxygen levels.

The Corps report provides a good summary account of the history of mans activities in the Pocotaligo Swamp since 1950 which have completely changed the character of the swamp. The report cites the following activities as most likely having been responsible for the problems seen in Pocotaligo Swamp today:

1. Logging practices, including access roads;
2. Bridge replacement on County Road 32;
3. Placement of powerlines and associated access embankments;
4. Placement of new embankments for I-95; and
5. Industrial and municipal wastewater effluents.

The net effect of the above activities of removing the forest canopy and the various restrictions to flow accompanied with nutrient enrichment, Pocotaligo Swamp in Sumter County has become infested with aquatic plants. The ecological characteristics of an aquatic plant infested swamp is one of low D.O. levels. This becomes apparent when the historical trend D.O. values from Station PD-202 are evaluated. Over a period from 1962-1986 with 215 observations, PD-202 had an average D.O. value of 1.7 ppm. During the summer months, values are generally below 1.0 ppm; the average of 1.7 occurs due to increased winter flows.

As was stated in the Corps report, there appears to be no easy single solution to the identified problems in Pocotaligo Swamp. But one thing is certain, until adequate D.O. levels are restored to Pocotaligo Swamp, biological water quality will be seriously impaired irrespective of what may be in the water column or sediment.

Attachments

cc: Noel Hurley
Tom Kurimcak
Mark Blackmon

Figure I. Station Locations in Study Area, Pocotaligo River Basin-Turkey Creek Study, Sumter County, South Carolina October 9 and November 5, 1986

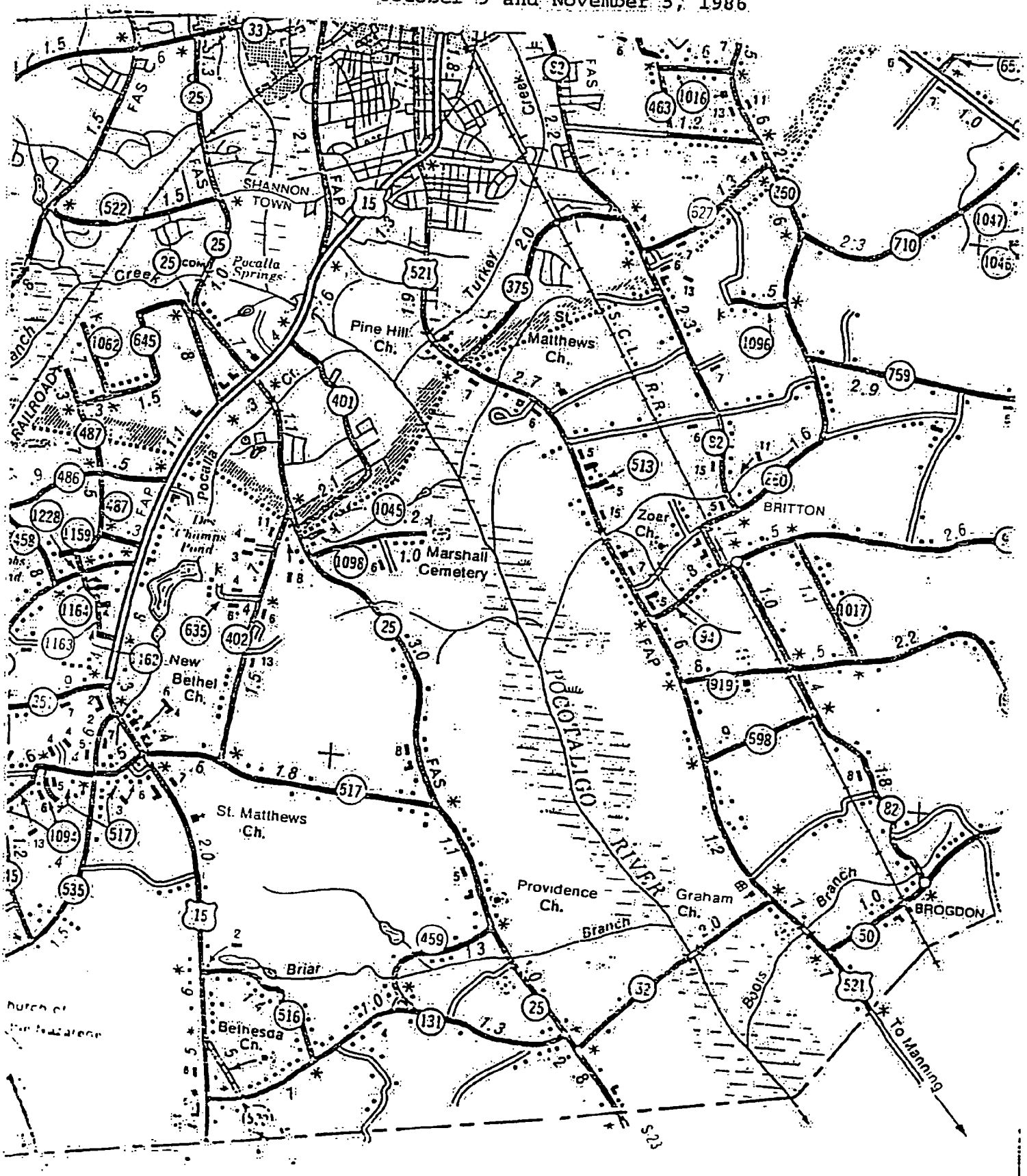


Table I

Sampling Station Location Descriptions
Pocotaligo River Basin - Turkey Creek Study
Sumter County, South Carolina
October 9, 1986 and November 5, 1986

Station	Description
PD-091	Pocotaligo River at U.S. Highway 15, Sumter County
PD-040	Turkey Creek at U.S. Highway 521, Sumter County
PD-202 W	Pocotaligo River (West Bridge) at County Road 32, Sumter County
PD-202 E	Pocotaligo River (East Bridge) at County Road 32, Sumter County
PSTP	Pocotaligo River approximately 1,000 feet downstream from the Pocotaligo Sewage Treatment Plant discharge, Sumter County
Turkey Creek	Turkey Creek at Red Bay Road, Sumter County

Table II

Concentrations of Heavy Metals from Sediment (Core Samples)
Pocotaligo River Basin - Turkey Creek Study
Sumter County, South Carolina
October 9, 1986 and November 5, 1986

	Concentrations in Milligrams per Kilogram at Station					
Metal	PD-091	PD-040	PD-202W*	PD-202E	PSTP*	Turkey Creek at Red Bay Rd.
Cadmium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	<5.0	14	<5.0	6.8	6.1	6.1
Copper	29	70	12	16	12	30
Lead	7.2	53	<5.0	46	<5.0	15
Mercury	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Nickel	11	5.3	<5.0	<5.0	<5.0	<5.0
Zinc	22	150	<5.0	8.8	15	120

* Collected on November 5, 1986 (October 9 samples were broken in transit to lab).

Table III

Concentrations of Heavy Metals from Sediment (Surface Samples)
Pocotaligo River Basin - Turkey Creek Study
Sumter County, South Carolina
October 9, 1986 and November 5, 1986

Metal	Concentrations in Milligrams per Kilogram at Station					
	PD-091	PD-040	PD-202W*	PD-202E	PSTP	Turkey Creek at Red Bay Rd.
Cadmium	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	<5.0	8.3	<5.0	14	6.8	5.0
Copper	19	27	16	20	15	32
Lead	11	16	<5.0	20	11	14
Mercury	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Nickel	16	<5.0	<5.0	6.4	<5.0	<5.0
Zinc	37	130	5.9	77	22	69

* Collected on November 5, 1986 (October 9 samples were broken in transit to lab).

Table IV

Concentrations of Heavy Metals from Sediment (Surface Samples)
Pocotaligo River Basin - 1981 Special Study
Sumter County, South Carolina

Metal	Concentrations in Milligrams per Kilogram at Station					
	PD-091		PD-040		PD-202	
	3/13	10/23	3/13	10/23	3/13	10/23
Cadmium	<1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0
Chromium	<5.0	11	5.0	20	<5.0	<5.0
Copper	<5.0	5.0	20	8.0	<5.0	< 5.0
Lead	11	82	14	29	9.0	28
Mercury	0.2	< 0.2	< 0.2	0.6	<0.2	< 0.2
Nickel	24	19	< 5.0	<5.0	<5.0	< 5.0
Zinc	80	70	120	27	19	11

Table V

Concentrations of Heavy Metals from Sediment (Surface Samples)
Selected Black Water Trend Monitoring Stations
South Carolina Monitoring Network

		Concentrations in Milligrams per Kilogram at Station			
Station Number:		CSTL-109	E-015	PD-038	PD-027
Reporting Period:		1980 - 1985	1975 - 1986	1974 - 1985	1975 - 1985
# of Measurements:		6	8	10	9
Metal					
Cadmium	Range	1.00 - 1.00	0.99 - 5.89	0.90 - 1.00	0.50 - 1.00
	Avg	1.00	0.99	0.99	0.94
Chromium	Range	5.00 - 5.00	4.30 - 5.00	4.10 - 5.00	2.50 - 6.60
	Avg	5.00	4.91	4.86	4.90
Copper	Range	5.00 - 10.00	5.00 - 9.90	5.00 - 10.00	5.00 - 18.00
	Avg	5.83	6.67	7.21	8.33
Lead	Range	5.00 - 18.00	5.00 - 19.80	1.06 - 26.00	6.00 - 140.00
	Avg	7.33	6.95	8.40	34.57
Mercury	Range	0.20 - 0.30	0.40 - 0.30	0.10 - 1.31	0.03 - 0.30
	Avg	0.25	0.22	0.34	0.21
Nickel	Range	5.00 - 10.00	5.00 - 9.90	5.00 - 10.00	5.00 - 10.00
	Avg	5.83	6.68	7.21	7.00
Zinc	Range	5.00 - 18.00	5.00 - 12.05	5.00 - 126.00	10.00 - 340.00
	Avg	10.03	7.11	37.08	57.11

Table VI

Concentrations of Heavy Metals from Bowfin* Four Fish Composite
Pocotaligo River Basin - Turkey Creek Study
Sumter County, South Carolina
October 20, 1986

Metal	Concentrations in Milligrams per Kilogram at Station PD-040
Alumium	1.1
Cadmium	<0.2
Chromium	<1.0
Copper	<1.0
Lead	<1.0
Mercury	0.45
Nickel	<1.0
Thallium	<3.0
Tin	22
Zinc	14

* Bowfin four fish composite average length (20 inches), average weight (2.77 pounds).

Table VII

Concentrations of Heavy Metals from Bowfin Composites Taken from Coosawhatchie River (CSTL-109), Hampton County and Edisto River (E-015) Dorchester County, South Carolina October 8, 1985

Metal	Concentrations in Milligrams per Kilogram at Station CSTL-109*	E-015**
Cadmium	<0.2	<0.2
Chromium	1.4	1.4
Copper	<1.0	<1.0
Lead	1.0	1.0
Mercury	0.42	1.07
Nickel	<1.0	<1.0
Zinc	13	13

* CSTL-109 - Three fish composite average length (21 inches), average weight (3.44 pounds).

** E-015 - Five fish composite average length (23 inches), average weight (4.5 pounds)

Ref. 10

"Rite in the Rain®"

ALL-WEATHER WRITING PAPER

LEVEL

All-Weather Notebook
No. 311

Turkey Creek

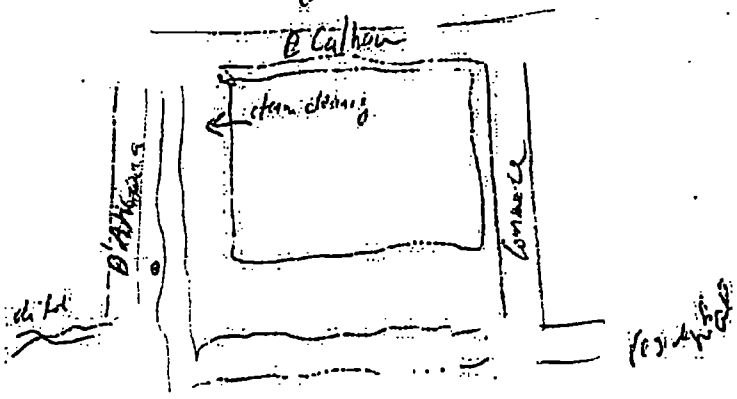
4 5/8" x 7" - 48 Numbered Pages

May 7, 2012 Reconnaissance

Robert Cole, Jason Williams, Tim Kaster, Jenna Temple
Dana Cole

* PDO2576 SCDOT N towards upper reach of Turkey Creek

intersection of D'Allonia & E. Calhoun
steam clearing DOT vehicles



PDO2577 alg access road looking west N east ~~west~~ bank dredge material loss the access road

PDO2578 S toward train trestle from access road bordering creek

✓ PDO2579 S toward bridge from access road eastern side

PDO2580 N towards Liberty

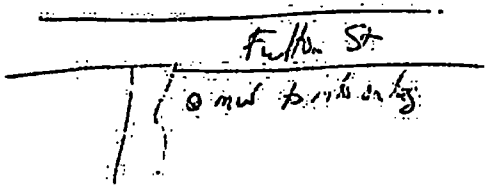
after PDO2579 dredging material to western side

* PDO2581 eastern looking S to creek towards having project/spoils

PDO2582 looking south alg access road dredge material to west

* PDO2583 looking east into creek

✓ PDO2584 looking east into creek near bridge pesticide/tick odor



Con Iglesias, Jun [illegible], [illegible] the view

All of [illegible] on this bank P0002584

* P0002585 looking s
soils/drainage pipe coming in water
Bank some cypress on [illegible]

* P0002586 looking east into creek at
small concrete bank

All of trees on small branch at this
location
[illegible] spoils on both banks
concrete foundations across to western bank
P0002587 road from bank to company
several roads crossing the bank

* P0002588 west of [illegible] kitchen
across from mhp/residential
dutch looking from west

P0002589 east towards residents
oil tank(?) same as 2588

* P0002590 [illegible] west I-4 used to [illegible]
small fish, photo looking east
distant east pole to east [illegible]

P0002591 photo of chimney culvert below I-4
[illegible] eastern bank
~ 50-75' east of P0002590

* P0002597 metal culvert on eastern bank
photo looking east

P0002598 just north of train trestle
looking south towards trestle

P0002599 north towards bridge over creek
S-43 466

* P0002600 south [illegible] towards creek from west [illegible] east bank
blue/grey clay in north of creek
power lines overhead

P0002601 south

photo did not turn out

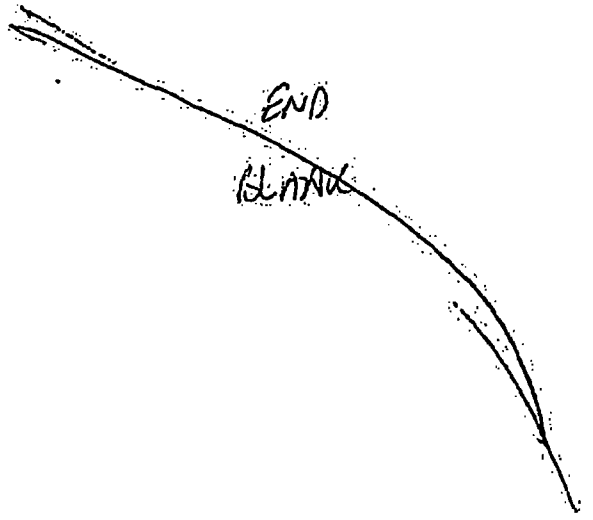
* P0002602 N [illegible]
circle about 2.1 steel manhole?

* P0002603 S [illegible]
[illegible] on [illegible] [illegible] into marsh
small [illegible] in creek

* P0002604 just S of 521 bridge
[illegible] of fishing pier north of bridge
Pole fishing on north side of 521 bridge

* P0002272 between 521 & [illegible]

* P0002273 end of accessibility



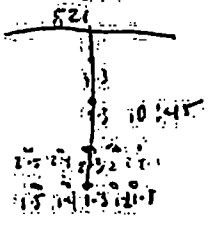
Jerry Turner 678-576-0353

6-11-02 Sampling 166, Eng 90'

EPA Ryan Wilson

SCDHEC Robert Cole, Ben Cole, Jim Lander, Jonathan [illegible]
Jessie Temple, Bubba (Gus)

Begin sampling lower portion of stream/creek
below 521 bridge



Location 1-4 had odor (Cole and)

Location 1-3 had odor

Location 2-3 had odor

Location 3-3 had odor

Location 3-4 adjacent to sewer manhole

Location 11-1 & 2

11-1 1215 south of road from center of stream

11-2 from western bank, appears to be dredged material

1-4.5 12"
1-4.5 5ft

1-AD
1-BD

1-1 Deep 20 24

1-BJ
1-AS

0-1 3-6"
0-2 Middle
0-3

2-BD 18"
2-AS Surface
2-BS Shallow
2-CD 8"
2-AD 18"

2-4.5 24"
2-4.5G 24"

Pg 1 6-11 52 samples

Pg 2 6-12 17

"Rite in the Rain®"
ALL-WEATHER WRITING PAPER

LEVEL

All-Weather Notebook
No. 311

Turkey Creek
6/12/02
Kadar / Cook

4 5/8" x 7" - 48 Numbered Pages

"Rite in the Rain®"
ALL-WEATHER WRITING PAPER

Name Kader / Cook
6/12/02

Address

Phone

Project Turkey Creek

Temp @ 10:00 upper 80's – 90

Yellow Polyethylene Protective Slipcovers (Item #31) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE	REFERENCE	DATE
3	TC-005-SF	6/12/02
5	TC-005-SD	"
7	TC-004-SD	"
9	TC-004-SF	"
11	TC-003-SW	"
13	TC-003-SD	"
15	TC-003-SF	"

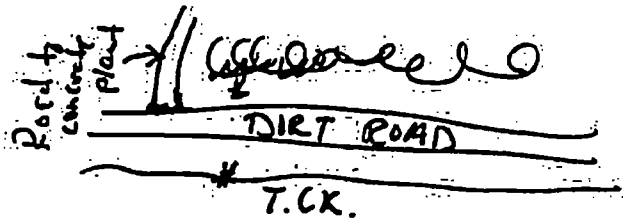
4893

Blank 6/12/02 Cook

6/12/02 screening
TC-005 SF (station 14)

sample time: 10:00 a
sampler: Kadar Notes: Cook

dish#: 232R -09
spoon#: 138
sample depth: 0"- 4"
spoils from creek



Temp: upper 80s - 90
Sunny, clear sky

mixture of clay and sand, small rocks, no odor noted

VOA collected from hole to jar. (202 jar)

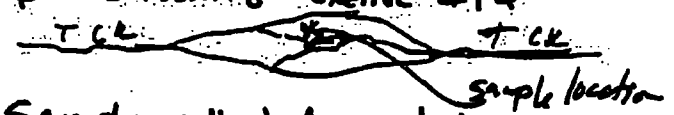
Cook 6/12/02

Blank 6/12/02
D Cook

TC-005-SD 6/12/02
Sampler: Kadar Notes: Cook
sample time: 10:10

sample depth: 0-6"
dist #: 10
spoon #: 109

Sample in creek in correlation to screening station #14



Sample collected in dish + VOA sample collected before mixing. (2 oz jar)

Strong organic odor noted, swampy smell.

Top layer of sed had an organic sheen. lower layer silty.

6/12/02
D Cook

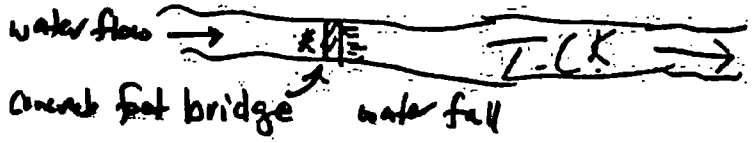
4895

Blank 6/12/02
D Cook

TC-004-SD 6/12/02
Sample time: 10:30
Sampler: Kader Notes: Cook

sample depth: 0'-6"
dish #: V11
spoon #: ~~VVT~~ 83

Sample collected in correlation to screening location 16.



Sample collected into dish & VOAs collected before mixing. (Jar jar)

Silty, sandy mixed with blueish clay, no odor noted.

6/12/02
D Cook

TC-004-SF 6/12/02
Sample time: 10:45
sampler: Kadar Notes: Cook
Sample depth:
dish # B15
spoon # 128

Sample collected on East Bank spoils pile in correlation to screening location 16. East side of concrete foot bridge across the Creek.

Sandy soil, small amount of clay. No odor noted.

VOA collected directly from spoils pile to jar.

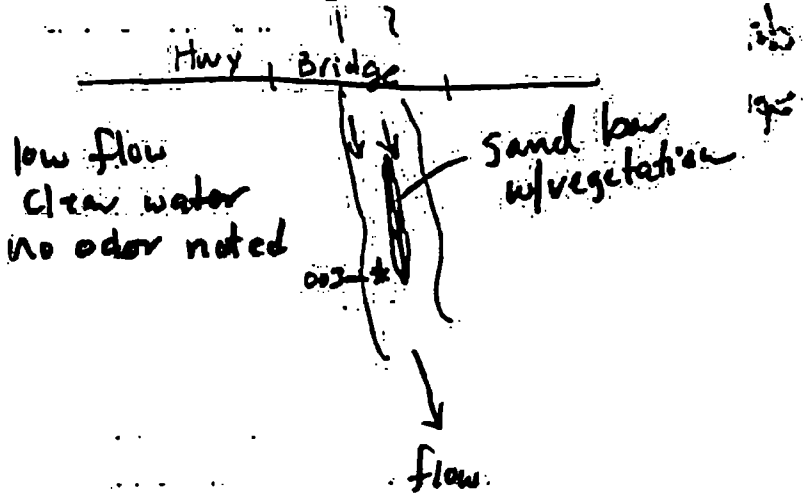
6/12/02
D Cook

Blank 6/12/02
D Cook

4897

TC-003-SW 6/12/02
Sample time: 1100
Sampler: Kadar Notes: Cook

Sample collected in correlation with screening location 17.



VOA collected from dis. before mixing. (2 oz jar)

6/12/02
D Cook

6/12/02 Water Blank
D Cook

4898

TC-003-SD 6/12/02

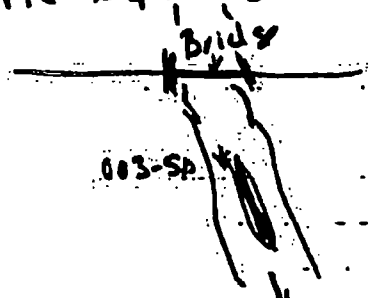
Sample time: 1115

Sampler: Kedar Notes: Cook

dish #: J[illegible]7 (J7)

spoon #: 126

Sample Depth: 0"-6"



Collected in correlation with screening station 17, near flagged location.

Slight organic odor, petroleum odor. light sandy soils, red clay & Black clay like substance.

Blank 6/12/02

Cook

4899

C-003-SF 6/12/02
Sample time: 1200
Sampler: Kadar Notes: Cook

dish # B-14
spoon # 112

Collected in correlation screening # 17.

West Bank spoils pile.

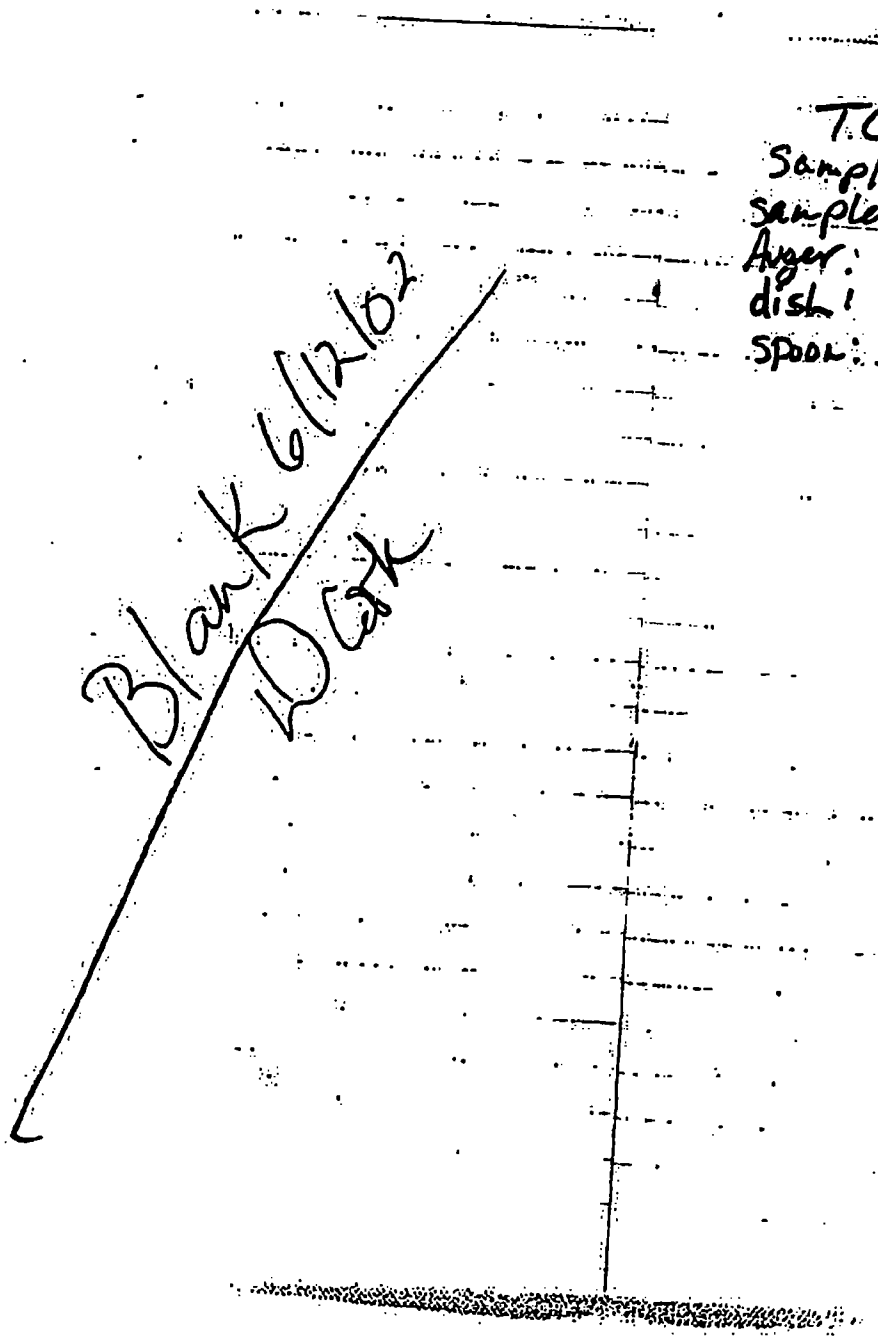
Strong petroleum odor. Sandy soils

Sample depth: 0'-6"

VOA collected from dish before mixing (2 oz jar).

Blank 6/12/02 D Cook

6/12/02 D Cook



TC-012-SD 6/12/02
Sample time: 1440
Sampler: Cole Notes: Cook
Auger: 174
dish: 07
spoon: 3

Location 17

SD-3

SW-3

Location 16

East Bank SF-4

SD-4

Location 14

West Bank SF-5

SD-5

JOB BOOK

FROM BEN MEADOWS COMPANY

PROJECT NAME TURKEY CREEK ES

PROJECT NUMBER _____

CREW _____

DATE 6/11/02 BOOK # ____ OF ____

WEATHER _____

FIELD BOOK
16 PAGE
8 LEAVES
50% RAG

CURVE FORMULAS

$T = R \tan \frac{1}{2} I$	$R = T \cot. \frac{1}{2} I$	Chord def. $= \frac{\text{chord}^2}{R}$
$T = \frac{50 \tan \frac{1}{2} I}{\text{Sin. } \frac{1}{2} D}$	$R = \frac{50}{\text{Sin. } \frac{1}{2} D}$	No. chords $= \frac{I}{D}$
$\text{Sin. } \frac{1}{2} D = \frac{50}{R}$	$E = R \text{ ex. sec } \frac{1}{2} I$	
$\text{Sin. } \frac{1}{2} D = \frac{50 \tan \frac{1}{2} I}{T}$	$E = T \tan \frac{1}{2} I$	Tan. def. $= \frac{1}{2}$ chord def.

The square of any distance, divided by twice the radius, will equal the distance from tangent to curve, very nearly.

To find angle for a given distance and deflection.

Rule 1. Multiply the given distance by .01745 (def. for 1° for 1 ft.) and divide given deflection by the product.

Rule 2. Multiply given deflection by 57.3, and divide the product by the given distance.

To find deflection for a given angle and distance. Multiply the angle by .01745, and the product by the distance.

GENERAL DATA

RIGHT ANGLE TRIANGLES. Square the altitude, divide by twice the base. Add quotient to base for hypotenuse.

Given Base 100, Alt. $10.10^2 \div 200 = .5$. $100 + .5 = 100.5$ hyp.

Given Hyp. 100, Alt. $25.25^2 \div 200 = 3.125$; $100 - 3.125 = 96.875 =$ Base.

Error in first example, .002; in last, .045.

To find Tons of Rail in one mile of track: multiply weight per yard by 11, and divide by 7.

LEVELING. The correction for curvature and refraction, in feet and decimals of feet is equal to $0.574\,d^2$, where d is the distance in miles. The correction for curvature alone is closely, $\frac{2}{3}d^2$. The combined correction is negative.

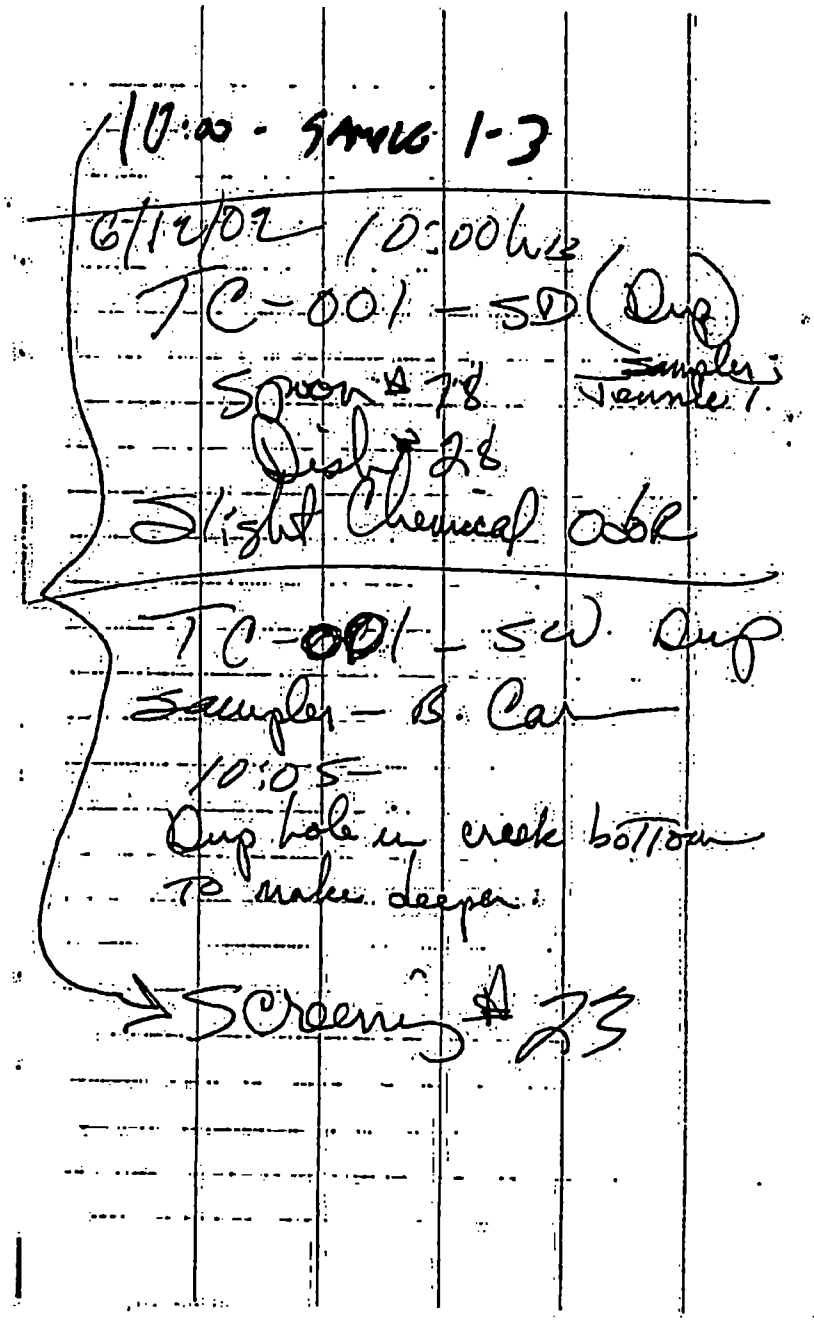
PROBABLE ERROR. If d_1, d_2, d_3, etc. are the discrepancies of various results from the mean, and if Σd^2 = the sum of the squares of these differences and n = the number of observations, then the probable error of the mean $= \pm 0.6745 \sqrt{\frac{\Sigma d^2}{n(n-1)}}$

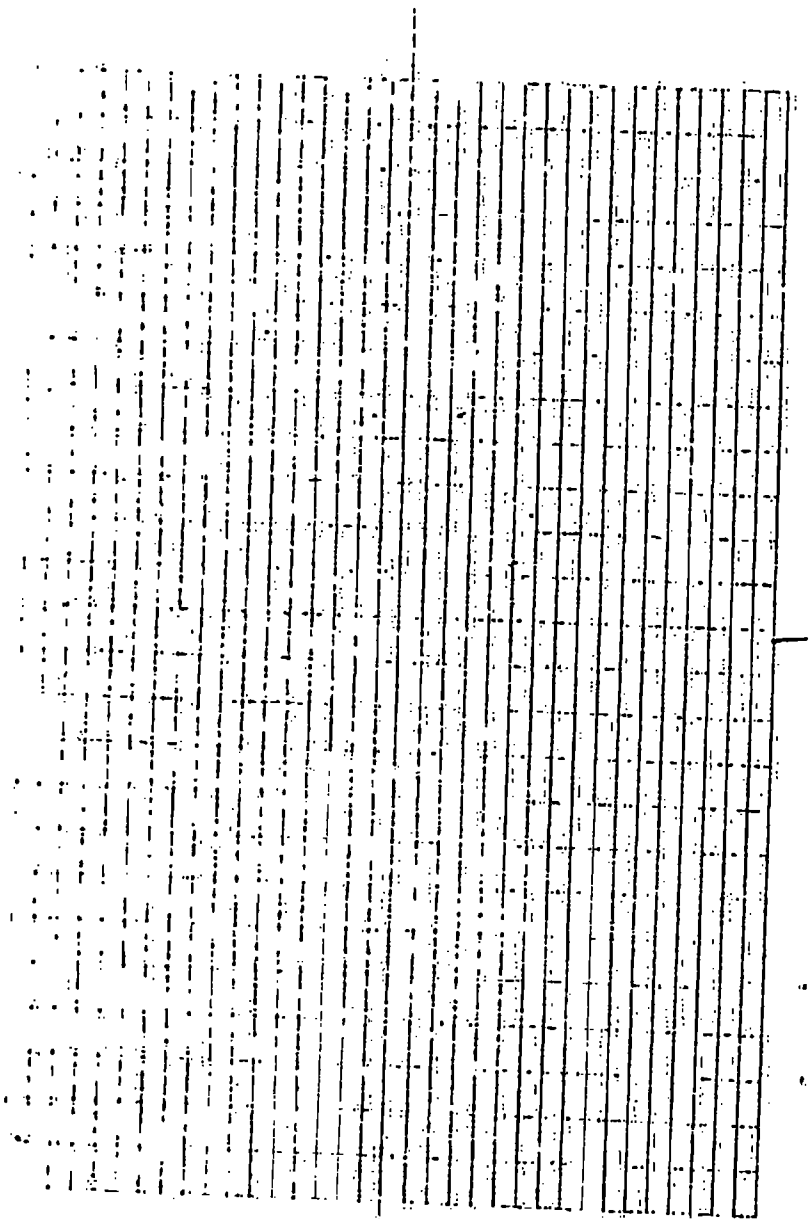
MINUTES IN DECIMALS OF A DEGREE

1'	.0167	11'	.1833	21'	.3500	31'	.5167	41'	.6833	51'	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

INCHES IN DECIMALS OF A FOOT

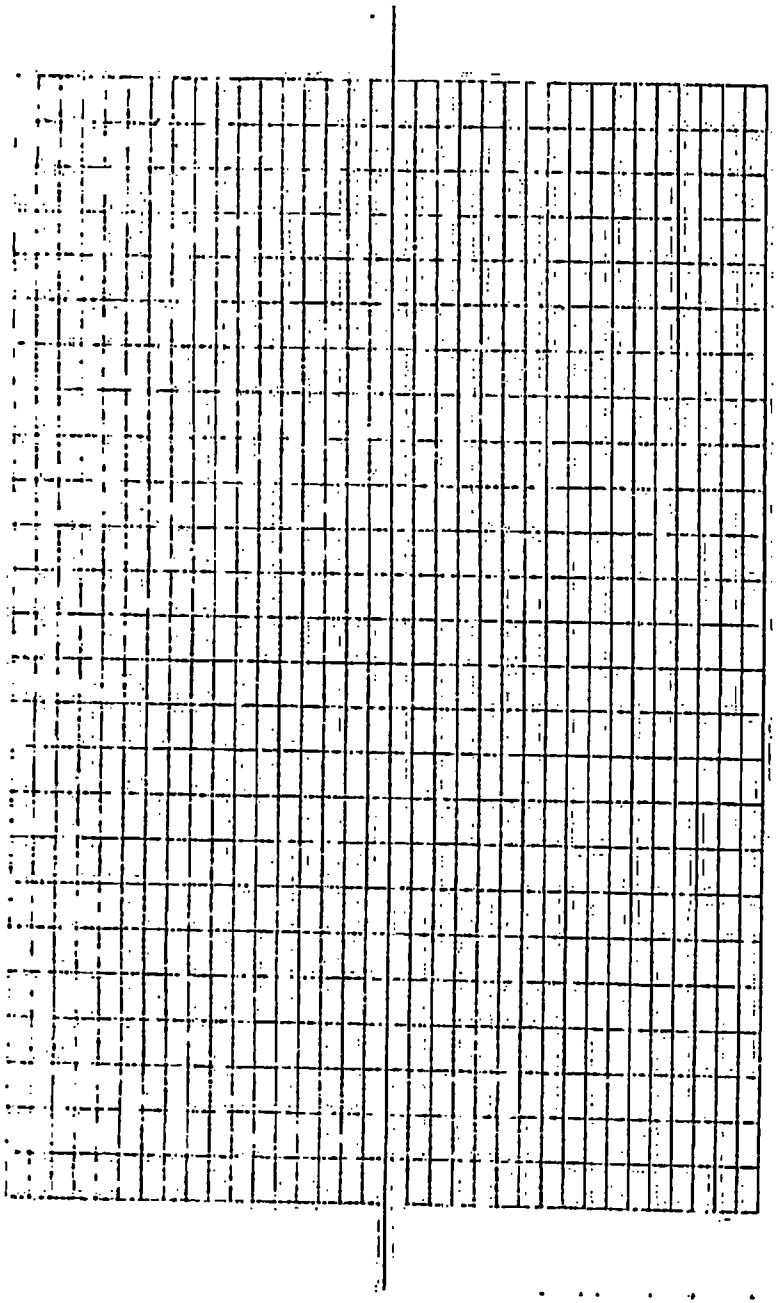
1-16	3-32	1/8	3-16	1/4	5-16	3/8	7/16	1/2	9/16	5/8	11/16
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729	
1	2	3	4	5	6	7	8	9	10	11	
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.0167	





Screen #19
TC-002-SD
0:25 hrs
Sed sample Taken by
J. Temple - Right Bank
Organic odor (Sewage)
Spoon #86
Dish #13

Screen #7-2
TC-007-SD
Taken by J. Temple
at 11:35
Spoon #20
Dish #7
Slight organic odor - Mid stream



TC-008-SD (Screen #6)
Sample Time 11:55 HRS
SPage = 119
Dist = V-21
Sampler = Temple
Taken on Left Bank
Odor = Oily

#23 – SD-1 – Dump
SD-1 – Dump

#19 – SD-2 Seed

IF FOUND PLEASE RETURN TO:

NAME _____

COMPANY _____

STREET _____

CITY _____ STATE _____ ZIP _____

PHONE _____

Reorder part # 101650
Phone # 800-241-6401

JOB BOOK

FROM BEN MEADOWS COMPANY

6/11/6/12/02

PROJECT NAME Turkey Creek

PROJECT NUMBER

CREW Chris Williams

DATE 6/12/02 BOOK # 1 OF 1

WEATHER Clear, Hot

FIELD BOOK
16 PAGE
8 LEAVES
50% RAG

CURVE FORMULAS

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$T = \frac{50 \tan \frac{1}{2} I}{\text{Sin. } \frac{1}{2} D}$	$R = \frac{50}{\text{Sin. } \frac{1}{2} D}$	No. chords $= \frac{I}{D}$
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Given Base 100, Alt. $10.10^2 \div 200 = .5$. $100 + .5 = 100.5$ hyp.

Given Hyp. 100, Alt. $25.25^2 \div 200 = 3.125$; $100 - 3.125 = 96.875 =$ Base.

Error in first example, .002; in last, .045.

To find Tons of Rail in one mile of track: multiply weight per yard by 11, and divide by 7.

LEVELING. The correction for curvature and refraction, in feet and decimals of feet is equal to $0.574 d^2$, where d is the distance in miles. The correction for curvature alone is closely, $\frac{2}{3} d^2$. The combined correction is negative.

PROBABLE ERROR. If d_1, d_2, d_3, etc. are the discrepancies of various results from the mean, and if Σd^2 = the sum of the squares of these differences and n = the number of observations, then the probable error of the mean $= \pm 0.6745 \sqrt{\frac{\Sigma d^2}{n(n-1)}}$

MINUTES IN DECIMALS OF A DEGREE

1′	.0167	11′	.1833	21′	.3500	31′	.5167	41′	.6833	51′	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

INCHES IN DECIMALS OF A FOOT

1-16	3-32	1/8	5-32	3/16	7/32	1/4	9/32	5/16	11/32	3/8	13/32
.0052	.0078	.0104	.0130	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729
1	2	3	4	5	6	7	8	9	10	11	
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167	

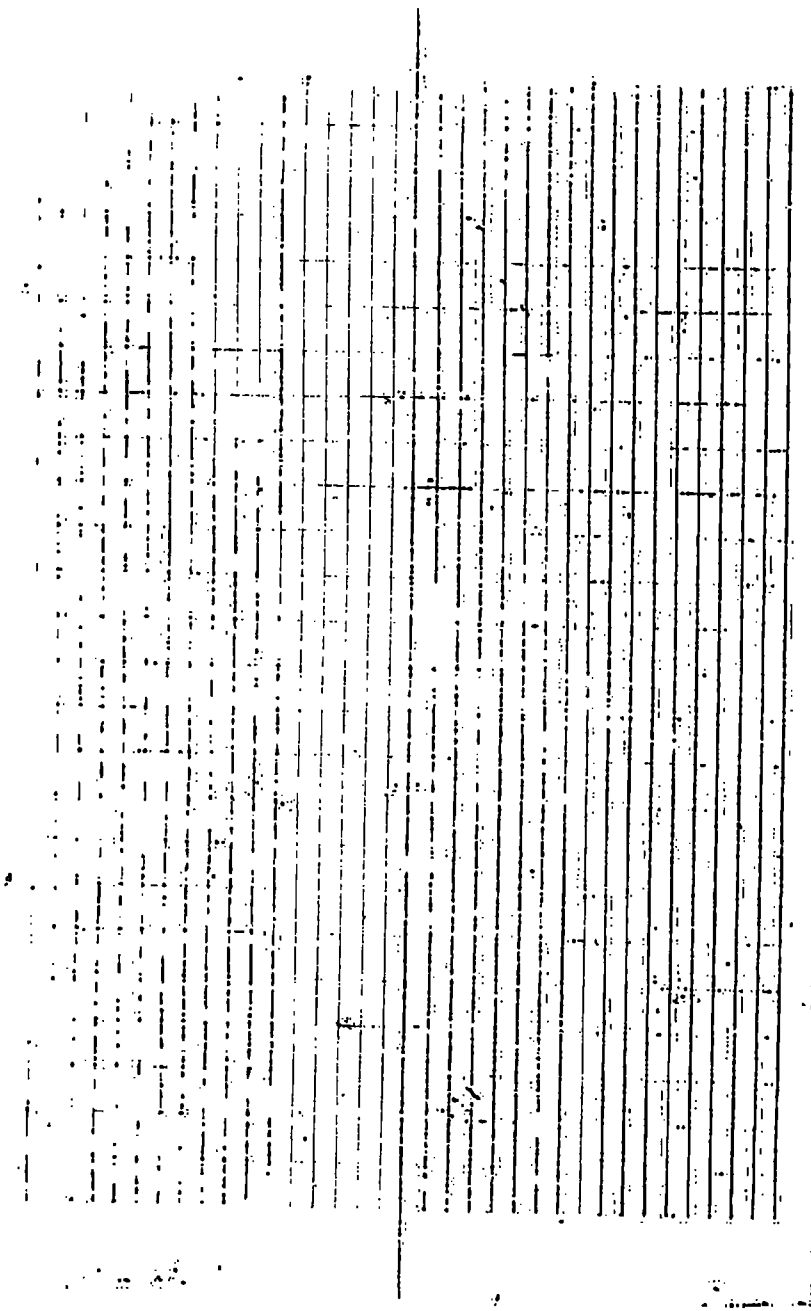
TC-4035W

Time 15.05

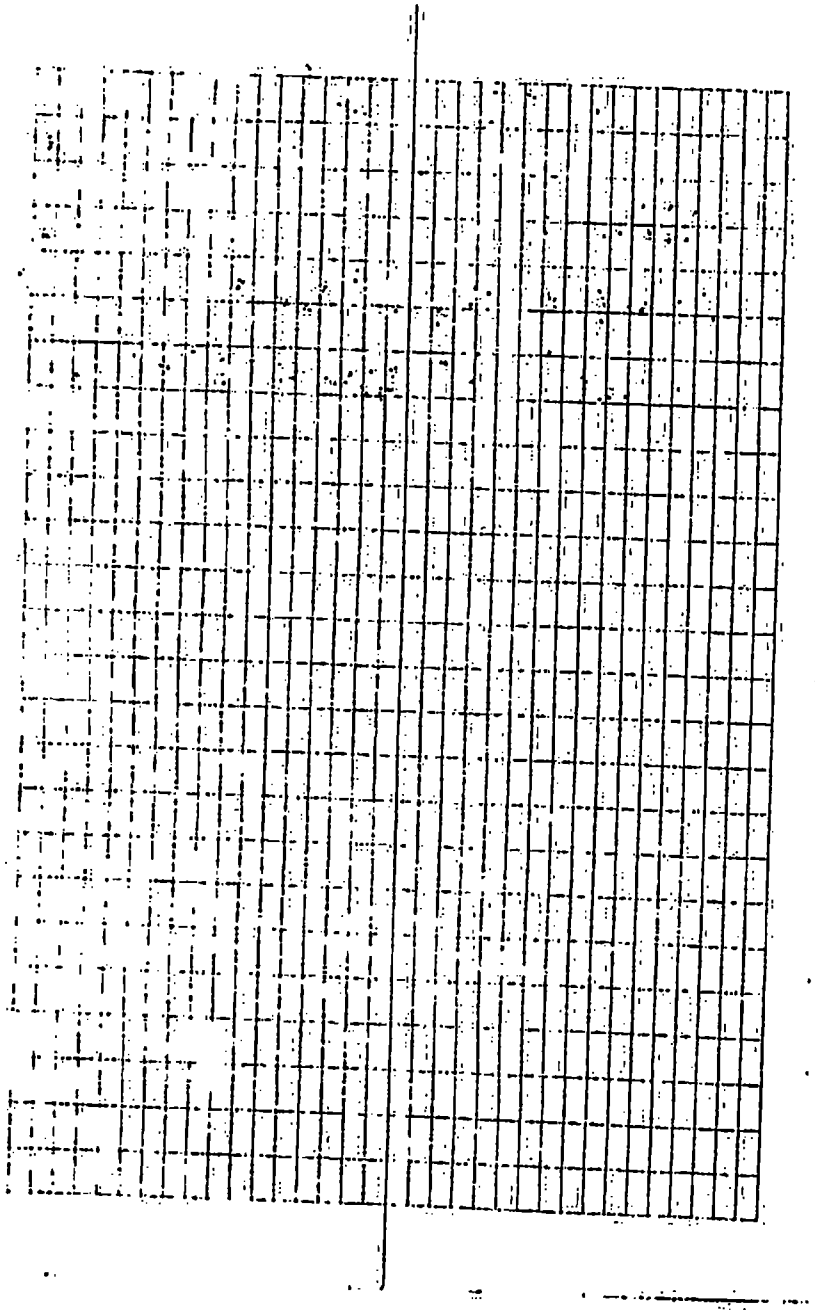
Sample B. Cans

Collected from mid stream

at transect #



TC-010-SD
Time: 15:10
Sample: Bi Carb
Location: Same as 10-SW



6/12/02

TC-013-SD

Sampled 1545 hrs

by Jason Williams

Dish # 2C

Spoon # 18

Slight oily odor

TC-015-SD

Sampled @ 1600

by Williams

Depth 18"-24" - Slight odor

Spoon = 113

Dish = 45

TC-0095W

Tank 16.40

Bubba

0095D

J0301

16.40 gal

South Carolina Pollution Control Authority

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EXECUTIVE DIRECTOR
OWEN BUILDING
1321 LADY STREET P. O. BOX 11628
Columbia, South Carolina 29211

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LEWIS E. HENDRICKS . . . . COLUMBIA
J. BONNER MANLY . . . . . COLUMBIA

AREA CODE 803
TELEPHONE: 758-2915

May 25, 1971

RECEIVED
SEP 24 2001
DIVISION OF SITE
ASSESSMENT & REMEDIATION

Mr. Henry E. Gibson
S. C. Pollution Control Authority
Columbia, S. C.

Mr. Oliver K. Stanley
S. C. Pollution Control Authority
Florence, S. C.

Re: Santee Print Works; Southern Coatings, Sumter, S. C.

Dear Henry:

At your formal request, on May 24, 1971, personnel from the Florence Regional Laboratory inspected and sampled the waste discharge from Santee Print Works and conferred with company officials with Southern Coatings concerning a possible discharge of liquid wastes from their firm.

The Santee Print Works discharge exists now much the same as it had before court proceedings were brought against them two years ago. On inspection, we found a most disgusting situation, with extremely large amounts of excessively strong dye wastes and viscous pigments from their operation discharged directly into feeding waters of Turkey Creek. The firm has made no apparent attempt to alleviate the situation, and certainly, no progress has been made in the fight to upgrade the water quality of Turkey Creek with such discharges present. The apparent apathy of the firm concerning the problem is very evident in their lack of civic and environmental responsibility to the people of Sumter and areas directly effected by Turkey Creek. All observations and samples were documented by photographs. Samples were collected and results are forthcoming, some with this report, and all BOD's after proper incubation.

We also made a visual inspection and conferred with company officials at Southern Coatings Paint Company concerning their waste and subsequent treatment. We found no visual evidence to lead us to believe that they are discharging nothing more than cooling water and normal drainage from rain and the like. We were informed that they have leased a pond to retain all, if any, manufacturing waste they may have. These people were asked to offer us any assistance we might have needed.

RECEIVED
MAY 28 1971
S. C. POLLUTION
CONTROL AUTHOR

Sincerely,

4912

BOARD MEMBER
Lachlan L. Hyatt, Chairma
William M. Wilson, Vice-Chairma
I. DeQuincey Newman, Secreta
W. A. Barnette, J
Leonard W. Douglas, M.
J. Lorin Mason, Jr., M.
Carolina G. Newha

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

E. KENNETH AYCOCK, M.D., M.P.H., COMMISSIONER
J. MARION SIMS BUILDING — 2600 BULL STREET
COLUMBIA, SOUTH CAROLINA 2920

August 16, 1976

RECEIVED
SEP 24 2001
DIVISION OF SITE
ASSESSMENT & REMEDIATION

Mr. Samuel Moore
Plant Engineer
Southern Coatings
P.O. Box 160
Sumter, South Carolina 29150

Re: Liquid Asphalt Spill
Southern Coatings
Sumter County

Dear Mr. Moore:

Please accept this letter as Department of Health and Environmental Control release of your Industry from cleanup activities involved in the July 30, 1976 spill of approximately 2500 gallons of liquid asphalt into Turkey Creek then to Pocataligo Swamp.

I'd like to thank you for your cooperation and efforts in preventing this material from entering Pocataligo Swamp and also for collection and disposal of this material. The clean-up was very well done and we appreciate the efforts, of you and the other employees, to include the private contractors, who worked in very unpleasant conditions to collect this material.

A report is presently being prepared and will be sent to our office in Columbia and EPA Atlanta for their review.

If I can be of assistance in the future please feel free to contact my office.

Yours truly,

Marion R. Rembert, Jr.
EQC District Director (Wateree)
773-5511

MRR,jr./pmc

cc: Noel M. Hurley
Henry Gibson

RECEIVED
AUG 27 1976
SPECIAL SERVICES SECTION

Weather Conditions at Spill Sit Cloudy

RECIPIENT Henry Gibson, Special Services, DHEC

Comments: Will consolidate into floating solids. Asphalt does not mix with water.

INVESTIGATOR Marion R. Rembert, Jr., P.E.

Comments: On July 1, 1976 at 2:00 P.M. this office received a report that an oil spil had occurred at Southern Coating and Chemical Company, Sumter, S.C. -- Ronnie Driggers, Air Pollution Section, Jim Houston, Env. Technician, and myself responded to investigate the report.

We arrived at the plant at approximately 2:30 P.M. and were met by Mr. Sam Moore, representative of the Company. He explained that at approximately 11:30 P.M. June 30, 197 a tractor trailer tanker had started to pull from the parking lot when the tanker disconnected from the tractor and ruptured and spilled approximately 2500 gallons of liquid asphalt. Mr. Moore also stated that the night watchman and truck driver failed to report the accident and that he was not aware that the accident had taken place until approximately 7:00 A.M. the next morning. At this time he took action to start clean-up and notification of EPA and State personnel.

Our investigation revealed that the liquid asphalt left plant property from a parking lot entering a drainage ditch which discharges into Turkey Creek then to the Pocataligo Swamp. We immediately surveyed the area to determine if the asphalt had reached the Pocataligo Swamp and found amounts of asphalt trapped by natural skimmers composed of loading crates, logs, and other floating material.

Mr. Tom Evans and Mr. Charlie Hitesman of the Florence Office were notified and they responded with oil spill equipment.

Weather Conditions at Spill Sit

RECIPIENT

Comments:

AUG 1 7 1976
SPECIAL

INVESTIGATOR

Comments: Booms made from chicken wire and straw were placed at the railroad trussle on Red Bay Road, bridge at Hwy. 521, halfway between the swamp and hwy. 521. The last boom was constructed of 2 x 4 and burlap to trap any remaining floating material.

Tom Evans, Charlie Hitesman, Jim Houston, and myself remained on duty to oversee clea up operations until midnight. At this time we established shifts so that someone would be present at all times during clean-up. Jim Houston remained on duty until 3:30 A.M. at which time Charlie Hitesman relieved him until 7:30 A.M. At 7:30 A.M. I relieved Mr. Hitesman and continued to monitor clean-up until approximately 11:30 A.M. July 2, 1976 At 1:30 P.M. Ronnie Driggers, Jim Houston, and myself resumed supervision of the clean-up. Jim Houston and myself took a boat and surveyed the swamp and found that very little aspha had reached this area. At 5:30 P.M. July 2, 1976 most of the asphalt had been cleaned up or confined so that it could be retrieved at the booms. Since most of the clean-up had be completed we decided to discontinue twenty-four (24) hour supervision by our personnel and to check the spill area in the mornings and evenings from July 3, 1976 thru July 11, 1976.

On July 12, 1976 Ronnie Driggers and myself took a boat and surveyed the creek from Hwy. 521 down into the swamp as far as possible to travel by boat. Jim Houston and Jimmy Lewis, Swimming Pool Inspector, walked from the Plant along Turkey Creek to Hwy. 521

Inspection of the Pocataligo Swamp area revealed natural skimmers in the junction of the swamp and Turkey Creek which prevented floating asphalt from reaching the major runs

Weather Conditions at Spill Site

RECIPIENT

Comments:

RECEIVED

INVESTIGATOR

Comments: of the swamp. This was the major reason that kept this material from entering the area of the swamp which is impassible by boat or foot. The contractors removed all the asphalt which was at these natural dams earlier.

Note: Turkey Creek is a heavily polluted waterway and therefore this spill was of no threat to fish and wildlife. Main emphasis placed by this department was on collecting the asphalt between our last boom and the swamp first and then clean-up activities of Turkey Creek. This waterway will return to its natural state after completion of Pocataligo Sewage Treatment Plant presently under construction. Our survey of the creek and swamp revealed that clean-up had been completed and that no asphalt remained in the stream. It is the opinion of this office that cleanup of the asphalt has been completed and no further clean-up action is required. The collected material was placed in sealed 55 gallon drums and disposed of at Sumter County Landfill by burial. A small amount was given to the public for driveways, etc.

Approximately 1000 gallons was collected and the remaining 1500 gallons was spread over the loading area and fine sand added to use as base for loading area.

Recommendations: That Southern Coating & Chemical Company install some emergency oil skimmers between Plant and Turkey Creek to detain any chemical that might be spilled in the future.

Weather Conditions at Spill Sit

RECIPIENT

Comments:

INVESTIGATOR

Comments: I feel Southern Coatings was cooperative in the clean-up activities and took whatever actions we recommended to aid the clean-up. A small contracting company was retained to work twenty four (24) hours a day until the clean-up was completed.

RECEIVED
AUG 17 1978
SPECIAL SERVICES SECTION

BOARD MEMBERS

Lachlan L. Hyatt, Chairman
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William C. Moore, Jr., D.M.D.

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

E. KENNETH AYCOCK, M.D., M.P.H., COMMISSIONER
J. MARION SIMS BUILDING — 2600 BULL STREET
COLUMBIA, SOUTH CAROLINA 29201

MEMORANDUM

October 8, 1976

TO: James D. Heriot, Director
Compliance/Enforcement/NPDES Administration Division

THROUGH: Stephen C. Thomas, Manager
Enforcement Section

FROM: Irvin D. Wooley
Enforcement Section

SUBJECT: Santee Print Works - Sumter County

RECEIVED
SEP 24 2001
DIVISION OF SITE ASSESSMENT & REMEDIATION

Environmental Protection Agency issued Order 74-86 on November 12, 1974, to Santee Print Works for violations of daily average and maximum limits on TK.N. from outfall 002, during October 24-30, 1974. The Order required submission of a report on the source of the KN. The required report was submitted by Santee Print Works.

The Order further required compliance with pH limits.

Santee Print Works continued violations of TKN and copper limits as follows: (limits for 001 and 002 were combined effective December 1974)

TKN lbs/day

	Daily Average 143.1	Daily Maximum 158.6
December 1974	386	430
January 1975	519	817
February 1975	372	415
March 1975	580	812

Copper lbs/day

	Daily Average 1.06	Daily Maximum 1.06
December 1974	11.96	16.9
January 1975	36.96	60.2
February 1975	28.28	55.66
March 1975	20.9	26.6

In July, 1975, EPA referred the matter to the U.S. Attorney for civil action. Subsequently, Santee Print Works has reported TKN and copper violations of effluent limits as follows:

	TKN lbs/day		Copper lbs/day	
	Daily Average	Daily Maximum	Daily Average	Daily Maximu
5-75	381	510	4.69	7.74
6-75	443	447	9.94	10.68
7-75	602	742	15.41	15.51
8-75	606	634	8.65	12.44
9-75	737	1096	7.8	24.5
10-75	640	716		1.79
11-75	629	796	5.06	13.70
(Permit limits)	TKN lbs/day Daily Average 143.1	Daily Maximum 158.6	Copper lbs/day Daily Average 1.06	Daily Maximum 1.06
12-75	598	749	4.96	12.8
1-76	775	1054	4.74	18.0
2-76	767	837	10.7	14.2
3-76	667	731	7.2	10.7
4-76	571	712	8.0	11.0
5-76	712	720	14.4	19.8
6-76	299	357	10.3	11.4
7-76	516	601	16.3	16.3
8-76	538	640	7.65	14.02

Santee Print Works has for the past nine months reported an average of 1.6 mgd flow

The proposed concentration limit of 1.75 mg/l copper would allow a discharge of approximately 23 lbs/day copper. This is higher than anything they have reported since September 1975.

The proposed limit on TKN of 750 lbs/day has been exceeded four times in the past year.

SCT/IDW/hce

South Carolina Department of Health and Environmental Control

BOARD
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J. Lorin Mason, Jr., M.D., Vice-Chairman
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Leonard W. Douglas, M.D.
George G. Graham, D.D.S.
Michael W. Mims
Barbara P. Nuessle

COMMISSIONER
Robert S. Jackson, M.D.
2600 Bull Street
Columbia, S. C. 29201

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

May 28, 1980

Mr. R.S. McKenzie, President
Southern Coatings & Chemical
P.O. Box 160
Sumter, S.C. 29150

Re: Proposed Consent Order
Southern Coatings & Chemical
Sumter County

Dear Mr. McKenzie:

Enclosed for yourreview and signature are the original and one copy of the proposed Consent Order, the terms of which were discussed at the May 5, 1980 show-cause conference.

Please review the conditions of the Order, and if acceptable, sign and return both copies to this Office within ten (10) days of receipt of this letter.

A fully executed copy of the Order, signed by the Commissioner, will be returned to you for your records.

Sincerely,

Stephen C. Thomas

Stephen C. Thomas, Manager
Enforcement Section
Enforcement and NPDES
Administrative Division

Enclosures

SCT/DRF/kda

cc: District Office
Enforcement

RECEIVED
SEP 24 2001
DIVISION OF SITE
ASSESSMENT & REMEDIATION

STATE OF SOUTH CAROLINA

BEFORE THE DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

IN RE: Southern Coatings and Chemical
Sumter County

CONSENT ORDER

Southern Coatings and Chemical, (hereinafter referred to as Respondent) owns and operates a manufacturing facility in Sumter County, South Carolina. Section 48-1-90 of the South Carolina Code of Laws requires that all discharges into the environment be in accordance with the conditions of a permit issued by the Department of Health and Environmental Control, (hereinafter referred to as the Department). Additionally, Section 48-1-110 of the Code states that it shall be unlawful to construct or install a waste disposal system without approval by the Department.

A determination has been made that an Order should be issued to the Respondent based on the following Findings of Fact and Conclusions of Laws.

FINDINGS OF FACT

1. A Department letter transmitted to the Respondent on October 4, 1979, informed the respondent of the following:

   a. the concrete waste holding lagoon located on the Respondent's property lacked the required construction permit;
   b. that it is very likely wastewater is seeping from the lagoon into Turkey Creek;
   c. that any liquor from the shellac vat will have to be contained immediately; and,
   d. the contents of the lagoon should be analyzed for metals content and the results transmitted to the Department within two (2) weeks.

2. Department letter of November 19, 1979 informed the Respondent that a Department analysis of the lagoon waste indicated that the supernatant could not be discharged into the City sewer or Turkey Creek without treatment, moreover, the sludge is not suitable for discharge at all. An engineering report addressing corrective measures was then requested by the Department.

3. Department letter of January 15, 1980, informed the Respondent that no signficant progress had been made in correcting the referenced problems. It was requested that the Respondent immediately submit a letter outlining corrective action that has been taken.

4. The Respondent submitted the requested status report on January 23, 1980.

5. Department letter of March 4, 1980, informed the Respondent that test monitoring wells around the waste holding lagoon revealed significant concentrations of lead in the groundwater, and accordingly, prompt action must be taken concerning the clean up and close out of this lagoon.

6. A March 4, 1980 meeting with the Respondent resulted in a committment to proceed with groundwater monitoring studies around the existing lagoon and to provide an engineering report to the Department addressing the removal of waste material from the lagoon.

7. The Respondent's engineer submitted an engineering report March 14, 1980. Department engineers responsible for the review of this report determined that the removal of waste from the lagoon was not adequately addressed and the time schedule proposed for the correction of the problems was excessive.

8. A show-cause conference was scheduled for Southern Coatings and Chemical for May 5, 1980. At the conference, representatives of Southern Coatings indicated that a Consent Order addressing the handling of the shellac waste, the existing lagoon close out and a groundwater study would be acceptable.

CONCLUSIONS OF LAW

1. The Respondent is in violation of Section 48-1-90 of the South Carolina Code of Laws, in that wastewater is being discharged into the environment in a manner other than in compliance with a permit issued by the Department.

2. The Respondent is in violation of Section 48-1-110 of the South Carolina Code of Laws in that he has constructed a waste holding lagoon without appropriate Department approval and permits.

IT IS THEREFORE ORDERED, with the consent of Southern Coatings and Chemical that pursuant to Section 48-1-50 of the Code that Southern Coatings shall:

1. On or before July 15, 1980, submit a preliminary engineering report addressing the handling of the shellac waste, or a signed contract with the City of Sumter to accept this waste.

2. In the absence of a contract with the City, submit on or before July 30, 1980, plans and specifications for the construction of a waste treatment facility capable of handling and treating the shellac waste. Based on the complexity of the design, a schedule for construction will be developed by the Department upon approval of the plans and specifications.

3. On or before July 14, 1980, submit a proposal for the clean up and close out of the existing lagoon. This proposal shall include a preliminary engineering report addressing the treatment, method of discharge and the handling of the solid waste.

4. On or before July 1, 1980, submit to the Department a proposal for a groundwater study to determine the extent of possible contamination which was outlined by the Department's letter of March 4, 1980. Upon receipt and approval, this Order will be amended to include a schedule for accomplishing the study and taking corrective actions, if necessary.

IT IS THEREFORE ORDERED AND AGREED, that the failure to comply with the schedule established herein, or any other provision of this Order, shall be deemed a violation of the Pollution Control Act and therefore unlawful. Upon ascertaining any such violation, appropriate action shall be initiated to obtain compliance with both the provisions of the Order and the aforesaid Act.

THE SOUTH CAROLINA DEPARTMENT OF
HEALTH AND ENVIRONMENTAL CONTROL

By: _____
Robert S. Jackson, M.D.
Commissioner

May ___, 1980

Columbia, South Carolina

WE CONSENT:

_____ DATE: _____

_____ DATE: _____

JENNINGS RANDOLPH, W. VA.
RICHARD (DICK) STONE, FLA.
JOHN A. DURKIN, N.H.
SPARK M. MATSUNAGA, HAWAII

STROM THURMOND, S.C.
ROBERT T. STAFFORD, VT.
GORDON J. HUMPHREY, N.H.

United States Senate

COMMITTEE ON VETERANS' AFFAIRS
WASHINGTON, D.C. 20510

January 12, 1981

Ms. Jackie Reeser, Reporter
THE SUMTER DAILY ITEM
Post Office Box 1677
Sumter, South Carolina 29150

Dear Ms. Reeser:

Enclosed is a reply from the U.S. Army Corps of Engineers in response to my inquiry in which I enclosed your articles regarding the Pocalla Swamp. I think you will find the correspondence self-explanatory.

Charleston Corps officials will schedule within this year's budget a study to define the scope of the problem at Pocalla Swamp and isolate further possible action.

You may be assured of my continued interest in this matter, and please do not hesitate to call on me if I may be of further assistance.

With kindest regards,

Sincerely,

Strom Thurmond

Strom Thurmond

ST/hi

SACEN-P

11 December 1980

Honorable Strom Thurmond
United States Senate
Washington, D. C. 20510

Dear Senator Thurmond:

This is in response to your letter of 2 December requesting that I personally review the actions taken thus far by the Charleston District concerning Pocalla Swamp. News clippings from The Sumter Daily Item written by Ms. Jackie Reeser were inclosed to illustrate the problem and the dissatisfaction with the Corps' responsiveness to the local people's needs.

Over the last decade the Corps has been called upon to discuss the deteriorating condition of Pocalla Swamp which also is known as Pocotaligo River or Swamp. In June 1975 a report was published on the flood of record which occurred in June 1973. In this report it is recorded that State Highway 50, U. S. Highways 15 and 301, and Interstate I-95 were closed, either by washout or inundation for nine, two, three, and three days, respectively. Damage during the event was estimated at $231,000, of which $31,000 was urban in nature at Manning and the remainder was to rural roads and railroads. The report concluded that there were insufficient damages to warrant study to determine the Federal role in corrective works.

On Saturday, 17 February 1979, our Chief of Planning and Reports Branch met with Congressmen Holland and Jenrette and State Senator Miles to fly over Pocotaligo Swamp to view its declined state and to discuss programs administered by the Corps of Engineers which might be employed in bringing about its restoration. Its condition was much as described in your inclosed news articles. Vast areas had been laid waste by logging operations, and limb and top debris abounded. Other areas were dead from toxic wastes dumped into the river prior to the enactment of the Water Pollution Act of 18 October 1972. Tree skeletons loomed skyward, and the area was noticeably devoid of wildlife. The floor of the swamp was also seen to be sprouting with weeds and brush tolerant of the residual toxic waste and which flourished on nutrients from non-point sources such as fertilizers washed from fields and lawns. Eutrophication from point sources, however, should now be under control as a result of implementation of PL 92-500 cited above.

After discussing the situation with the Congressmen and State Senator Miles, it was concluded that the traditional routes for Corps involvement in corrective works would not be applicable. It was noted, however, that you had been

successful in having a demonstration project authorized for the restoration of Broadway Lake. Such a demonstration effort might also be applicable for the restoration of Pocotaligo Swamp, particularly in light of the Executive interest in protecting wetlands.

Considering the changes that are taking place, particularly due to the trapping of sediments in the swamp, it may now be timely to investigate the Federal role in corrective works for flood control purposes. This may be achieved under a House Committee on Public Works and Transportation resolution adopted 14 November 1979. This resolution specifically authorizes "...review of reports of the Chief of Engineers on the Yadkin-Pee Dee River and its tributaries...with particular reference to providing flood protection on the Little Pee Dee River and its tributaries, and to the development and maximum utilization of water resources of the basin."

This study received its initial funding in the Fiscal Year 1981 appropriation bill. Funds appropriated will be utilized to identify problems within the broadly defined study area and will develop a plan for later detail studies of those problem areas of significant importance. I am confident Pocotaligo River and Swamp will require more detailed study.

I deeply regret the publication of statements accusing the Corps of Engineers of being "...the most difficult bureaucracies to deal with..." You may be assured we have consulted with the local people and were and are now prepared to respond to Congressional Acts and/or Resolutions when funded.

I trust this answers any questions you have about the Pocalla Swamp situation. Should you have other questions, please let me know. For your further information, I am inclosing a copy of the letter sent to Congressman Jenrette on 28 February 1979 which advised him of a possible action he could take to obtain Corps assistance in this matter. Among the inclosures to that letter you will find a Memorandum of Record of the field inspection made 22 February 1979.

Sincerely,

1 Incl
As stated

BERNARD E. STALMANN
LTC, Corps of Engineers
District Engineer

Copy furnished:
Honorable Strom Thurmond
United States Senator
Room 600, Federal Building
334 Meeting Street
Charleston, SC 29402

HOUSE OF REPRESENTATIVES
STATE OF SOUTH CAROLINA
STATE HOUSE
COLUMBIA, SOUTH CAROLINA

FROM THE DESK OF:

ERNEST A. FINNEY, JR.
MEMBER FROM SUMTER COUNTY

Jan. 14, 1974

Mr. Nesbitt:

I am enclosing a copy of the minutes from last Monday's meeting for your information.

EAF Jr.

COMPLIMENTS OF THE R. L. BRYAN COMPANY

OPEN MEETING
TOPIC: Pocataligo River
Monday, January 7, 1974
Magistrate Court Room
Sumter, South Carolina

The meeting was called to order at 12:00 noon by Representative E. A. Finney, Jr., Chairman

Present were Senator T. O. Bowen, Representatives E. A. Finney, Jr., and J. E. Miles from Sumter County and Alex Sanders from Richland County; Commissioners W. T. Brogdon and J. P. Nettles of Sumter County Board of Commissioners; Mayor R. P. Moses of the City of Sumter; Mr. A. C. Stanley of the Sumter County Health Department, Mr. T. L. Rogers, County Engineer, Messrs. C. R. Beall, J. D. Heriot and L. A. Williams of the South Carolina Department of Health and Environmental Control and residents and landowners of the subject area.

PURPOSE: Rep. Finney, Sen. Bowen and Rep. Miles outlined the purpose of the meeting:

> To bring together representatives of the County and State agencies under whose jurisdiction the problems fall with elected officials and residents and landowners of the subject area to assess the problem, to arrive at concrete proposals for temporary and permanent relief and to obtain commitments to follow through on said proposals.

PROBLEM: Area residents and landowners spoke on the history of the problem, emphasized the severe and far-reaching effects of same and requested a status report on any action now underway or contemplated by the above-mentioned agencies, the courts or other agencies to alleviate the situation.

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2. Unpleasant odor allegedly caused by water pollution
3. Destruction of productive plant and wildlife
4. Erosion of farmland
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Mr. Rogers stated that he had toured the area by helicopter with a portion of the County delegation, the Mayor, representatives of the Health Department and the Wildlife Association; that he found the entire area to be one big lagoon and it has degenerated during the last four or five years to where the swamp is dead from Highway I-95 to Lewis Road; the entire swamp is backed up. He indicated that the situation affected eighty percent of the population of Sumter County and one-third of the land area of the County, and that, in his opinion, relief is desperately needed; and even so, it would probably be fifty to seventy-five years before the swamp can be revitalized. He further alleged that thousands of acres of land have been impaired and there are tens of thousands of potholes which serve as breeding places for mosquitos.

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Attorney Phillip Wittenberg, representing some of the area residents, spoke of the urgency of their need for relief from pollution, and expressed the opinion that the series of delays occasioned by technicalities was unfair and unjustifiable.

Commissioner Nettles expressed the concern of the County Board of Commissioners and their support of the residents in seeking relief from their plight, and stated his belief that the proposed ten million dollars waste treatment plant will provide the needed relief from

and proposals for the solution of same. He stated further that it might be appropriate to make application to the State for the necessary funding and technical assistance required to carry out any such proposals.

PROPOSALS:

Temporary: 1. That the appropriate State and/or County agency provide equipment and insecticides and area residents would provide the manpower for regular, periodic spraying of the Turkey Creek area for mosquitos.

2. That the feasibility of acquiring the fire trucks from the County be looked into.

3. That a one-year intensive spraying experiment, to begin immediately, be carried out in the Turkey Creek area in an attempt to control mosquitos.

4. That the approriate agency check the guidelines to see if revenue sharing funds would qualify for such an experiment.

Permanent: 5. That water be drained from the low-lying areas of the Pocotaligo Swamp.

6. That additional water-diversion channels be constructed.

7. That an extensive program of dredging and diking be carried out.

8. That Public Laws 565 and 566 be examined to see what relief is available under these statutes.

9. That the Sumter County Legislative Delegation communicate with the Army Corp of Engineers and other concerned agencies with a view to seeking a study of the problem and recommendations for the solution of same.

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2. That the Sumter County Division of the Environmental Services Branch of the State Department of Health And Environmental Control, at the earliest possible time, will furnish to the residents of the Turkey Creek community, if manpower is not available within said agency, the necessary equipment and insecticides, within the limits of their budget and as these become available from the State agency, to carry out said experimental spraying program.

3. That the residents of the Turkey Creek area will provide the manpower, if manpower is not avail-

will work toward securing the three fire trucks from the County which are about to be retired.

6. Mr. Stanley agreed to give residents of the Turkey Creek area communication priority so that their problems may be heard and due attention given to the source of their grievances.

Permanent: 7. The County Legislative Delegation will review Public Laws 565 and 566 to see what relief is available under these statutes.

8. The County Legislative Delegation will petition for a joint meeting with the South Carolina Department of Health and Environmental Control and the State Water Resources Commission to see what remedies are available for correcting the condition of the Pocotaligo Swamp and explore the feasibility of carrying out such measures with the concerned agencies.

9. The Legislative Delegations of Clarendon, Sumter and Williamsburg Counties are to be contacted and their active support sought in remedying this situation.

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Daisy M. Moore, Secretary to
Meeting Chairman

OPEN MEETING
TOPIC: Pocataligo River
Monday, January 7, 1974
Magistrate Court Room
Sumter, South Carolina

The meeting was called to order at 12:00 noon by Representative E. A. Finney, Jr., Chairman

Present were Senator T. O. Bowen, Representatives E. A. Finney, Jr., and J. E. Miles from Sumter County and Alex Sanders from Richland County; Commissioners W. T. Brogdon and J. P. Nettles of Sumter County Board of Commissioners; Mayor R. P. Moses of the City of Sumter; Mr. A. C. Stanley of the Sumter County Health Department, Mr. T. L. Rogers, County Engineer, Messrs. C. R. Beall, J. D. Heriot and L. A. Williams of the South Carolina Department of Health and Environmental Control and residents and landowners of the subject area.

PURPOSE: Rep. Finney, Sen. Bowen and Rep. Miles outlined the purpose of the meeting:

> To bring together representatives of the County and State agencies under whose jurisdiction the problems fall with elected officials and residents and landowners of the subject area to assess the problem, to arrive at concrete proposals for temporary and permanent relief and to obtain commitments to follow through on said proposals.

PROBLEM: Area residents and landowners spoke on the history of the problem, emphasized the severe and far-reaching effects of same and requested a status report on any action now underway or contemplated by the above-mentioned agencies, the courts or other agencies to alleviate the situation.

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Daisy M. Moore, Secretary to
Meeting Chairman

Pocotaligo Swamp

RECEIVED APR 2 0 1981

Stations Sampled March 13, 1981 Sediment Samples Collected

PD-201 N	Black River at US 378	background station
PD-202	Pocotaligo River at S-43-32	
PD-040	Turkey Creek at US 521	dredged channel
PD-091	Pocotaligo River at US 15	
PD-238	Pocalla Creek at S-43-25	
PD-237	Pocalla Creek at US 15	background station
PD-198	Cane Savannah Creek at SC 120	background station
Nasty Branch	Nasty Branch about ½ mile downstream from Manchester Downs lagoon	
PD-039	Green Swamp at S-43-33	

Data Analysis

ranges obtained from historical data (1976-1978) - also % occurrences

TKN

30 mg/kg

range for Pee Dee Stations: below detection limits - 4100 mg/kg

84% samples between 100 - 1000 mg/kg

* high values for this sampling: PD-091 1154 mg/kg

↳ may be a natural level due to decaying vegetation

Phosphorous

25 mg/kg

range for Pee Dee Stations: below detection limits - 1000 mg/kg

55% samples < 100 mg/kg

all values within normal range

Cadmium

range for Pee Dee Stations: rarely detected in sediment

no Cd detected

Chromium

5 mg/kg

range for Pee Dee Stations: below detection limits - 46 mg/kg

80% samples below detection limits

all values acceptable

Copper

10 mg/kg (atypically high value)

range for Pee Dee Stations: below detection limits - 396 mg/kg

75% samples below detection limits

* 20 mg/kg at PD-040 may indicate an unnatural accumulation

Mercury .2 mg/kg

range for Pee Dee Stations: rarely detected in sediments
all values acceptable

Manganese 5 mg/kg

range for Pee Dee Stations: below detection limits - 639 mg/kg
64% samples 10 - 100 mg/kg

* high Mn levels detected at PD-201N = 140 mg/kg
PD-091 = 240 mg/kg

These high Mn levels may be due to decaying vegetation (Cupelo leaves, etc) associated with the sediment - Certain tree leaves can accumulate manganese and the manganese may be released when the leaves die and begin to decay - both of these stations had plant detritus associated with the sediments (especially PD-201N)

Nickel 10 mg/kg

range for Pee Dee Stations: below detection limits - 28 mg/kg
52% samples below detection limits

* 24 mg/kg at PD-091 may be slightly high

Lead 5 mg/kg

range for Pee Dee Stations: below detection limits - 140 mg/kg
~90% samples below 20 mg/kg

* elevated concentrations at: PD-201N = 54 mg/kg
PD-237 = 69 mg/kg

4

Zinc

10 mg/kg

range for Pee Dee Stations: below detection limits - 200 mg/kg
50% sample less than 30 mg/kg

* high values at: PD-040 = 120 mg/kg
PD-091 = 50 mg/kg

Conclusions:

1. Slight accumulations of Copper and Zinc at PD-040 in Turkey Creek
This sample point is below the inactive discharges of Sumter/Turkey Ck and Sauls Print Works

2. Slight accumulations of TKN, Mn, and Ni and Zn at PD-091. The TKN and Mn may be natural accumulations due to decaying vegetation.

3. Slight accumulations of Mn and Pb at PD-201N. Mn is probably natural.

4. Slight accumulation of Pb at ~~PD-201N~~. PD-237. ← Pb could be highway runoff.

Summary

The slight accumulations of lead at PD-201N and PD-237 are, perhaps, natural levels as both stations ~~are~~ were sampled to show representative background levels in swamp environments. The manganese at PD-201N and PD-091 and TKN at PD-091 are both associated with the excessive amounts of decaying vegetation. The nickel and lead at PD-091 showed only slight accumulations and may be natural or due to past discharges upstream from this station. The "worst" problem appears to be at PD-040, which is a dredged channel in Turkey Creek and is downstream

of several inactive dischargers. The accumulations of elements in the sediments at the other stations will probably not be alleviated by dredging as they are most likely representative of natural conditions.

Sheet No. _____

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Bureau of Field and Analytical Services
Analytical Services Data Sheet for Sediment Samples

TYPE: Primary ( ) Secondary ( ) Special (X) County Sumter

If Special, Name of Study Percolation Sediment Survey Basin Pee Dee

Date 81-03-13 Collected By Knowles, Boozer District

Station No.		PD-201	PD-202	PD-046	PD-091	PD-238	PD-237	PD-178	Waiver
Lab No.	CL	703	704	705	706	707	708	709	710
Time Collected		1010	1120	1150	1210	1245	1300	1340	1420
pH	70310 X	4.6	4.8	5.0	5.3	5.4	4.3	4.3	4.8
% Moisture	70320								
% Volatile Solids	70322								
Oil & Grease mg/kg	00557 Freon								
COD mg/kg	00339								
TKN mg/kg	00626 X	<30	<30	57.7	1154	<30	693	808	<30
T-P mg/kg	00668 X	71	3	72	68	17	39	47	5
As mg/kg	01003								
Cd mg/kg	01028 X	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cr mg/kg	01029 X	6.0	<5.0	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cu mg/kg	01043 X	<5.0	<5.0	20	<5.0	<5.0	<5.0	7.0	<5.0
Hg mg/kg	71921 X	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	0.3	<0.2
Mn mg/kg	01053 X	140	<5.0	7.0	240	9.0	15	90	7.0
Ni mg/kg	01068 X	<5.0	<5.0	<5.0	24	<5.0	<5.0	<5.0	<5.0
Pb mg/kg	01052 X	54	9.0	14	11	<5.0	69	22	<5.0
Zn mg/kg	01093 X	30	19	120	80	10	15	28	7.0

An "X" in the small column indicates test requested.

Date Released from Regional Laboratory _____ By _____

Received in Central Laboratory By AJM Date Received 3-13-81

Date Released from Analytical Services Central Laboratory 4/9/81

Released By AJ Mariolet CR Harrison

BF&AS:14

White-Central Office; Canary-ASD Central Lab; Pink-District Office

Sheet No. _____

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Bureau of Field and Analytical Services
Analytical Services Data Sheet for Sediment Samples

TYPE: Primary ( ) Secondary ( ) Special (X) County Sumter

If Special, Name of Study Carolina Sediment Survey Basin Pee Dee

Date 5-03 13 Collected By Knowles, Booker District

Station No.		0059
Lab No.	CL	711
Time Collected		1240
pH	70310	4.8
% Moisture	70320	X
% Volatile Solids	70322	
Oil & Grease mg/kg	00557 Freon	
COD mg/kg	00339	
TKN mg/kg	00626	<.30
T-P mg/kg	00668	10
As mg/kg	01003	
Cd mg/kg	01028	<1.0
Cr mg/kg	01029	<5.0
Cu mg/kg	01043	<5.0
Hg mg/kg	71921	<0.2
Mn mg/kg	01053	18
Ni mg/kg	01068	<5.0
Pb mg/kg	01052	<5.0
Zn mg/kg	01093	5.0

An "X" in the small column indicates test requested.

Date Released from Regional Laboratory _____ By _____

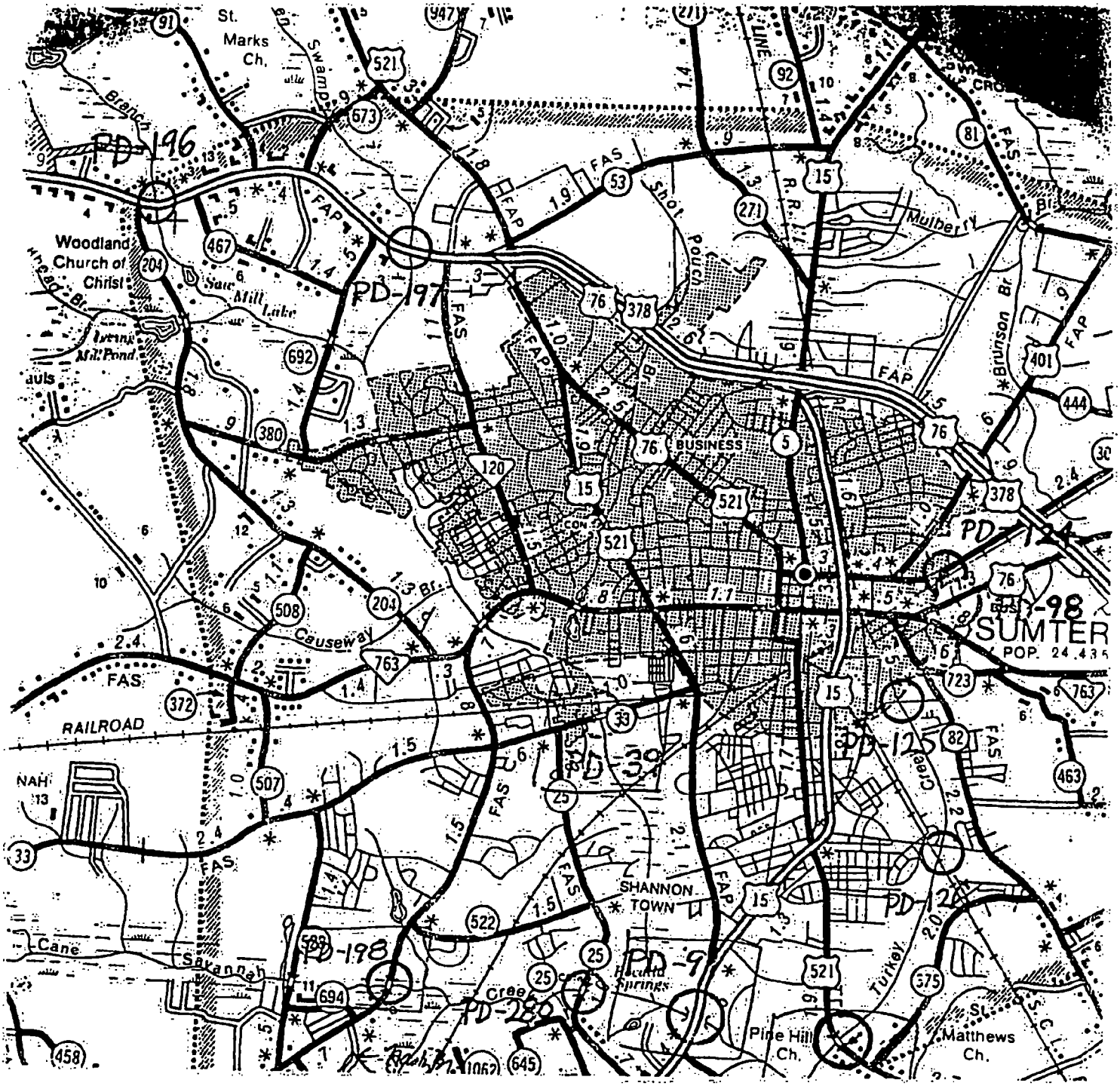
Received in Central Laboratory By [illegible] Date Received 3-13-81

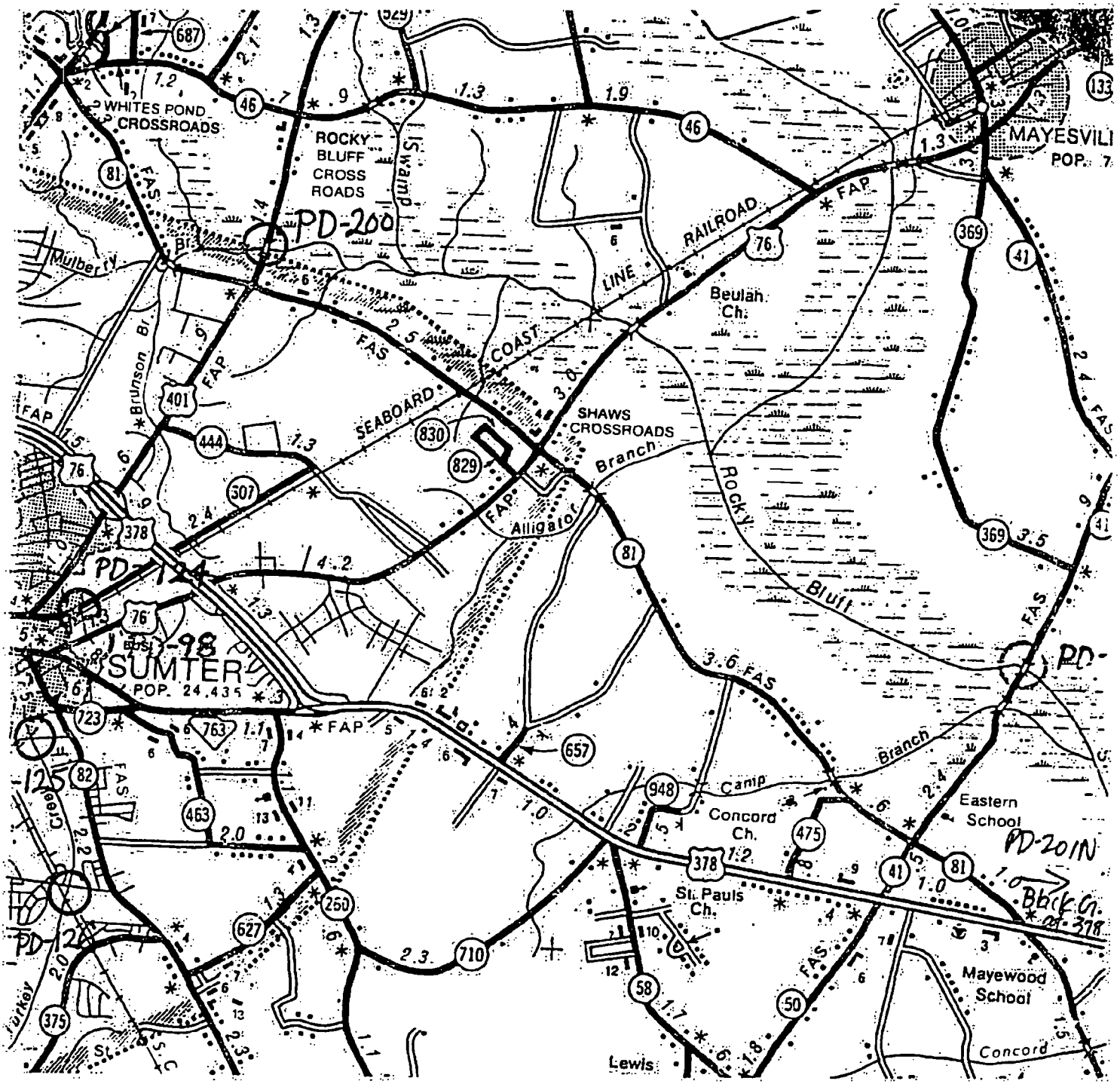
Date Released from Analytical Services Central Laboratory 4-15-81

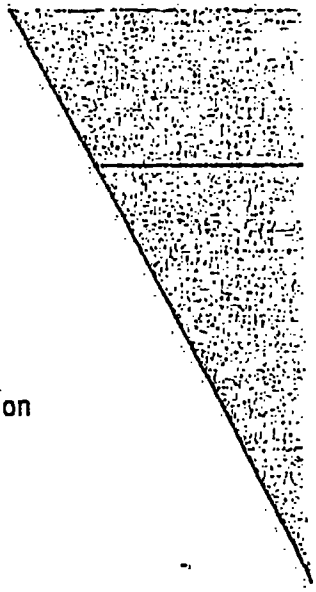
Released By [illegible]

BF&AS:14

White-Central Office; Canary-ASD Central Lab; Pink-District Office


St. Marks Ch.
Swamp
Branch
PD-196
PD-197
Woodland Church of Christ
Saw Mill Lake
Irving Mill Pond
Shot Pond
Mulberry
Brunson Br
PD-124
SUMTER
POP. 24,435
BUSINESS
CON
Causeway
RAILROAD
PD-125
PD-39
SHANNON TOWN
PD-126
PD-198
PD-9
PD-28
Cane
Savannah
Creek
Hearth Springs
Pine Hill Ch.
St. Matthews Ch.
Turkey
FAS
FAP
R.R.


WHITES POND CROSSROADS
ROCKY BLUFF CROSS ROADS
PD-200
Mulberry
Beulah Ch.
SHAWS CROSSROADS
PD-12A
SUMTER
POP. 24,435
PD-98
Alligator
Rocky Bluff
Branch
Camp
Concord Ch.
St. Pauls Ch.
Eastern School
Mayewood School
PD-201N
Lewis
Concord
RAILROAD
COAST LINE
SEABOARD
FAS
FAP
Bl.
Bypass
Turkey Creek



STATIONS SAMPLED MARCH 13, 1981

Sediment Samples Collected

PD-201N	Black River at US-378	Background Station
PD-202	Pacotaligo River at S-43-32	
PD-040	Turkey Creek at US-521	Dredged channel
PD-091	Pocotaligo River at US-15	
PD-238	Pocalla Creek at S-43-25	
PD-237	Pocalla Creek at US-15	Background Station
PD-198	Cane Savannah Creek at SC120	Background Station
Nasty Branch	Nasty Branch about 1/4 mile downstream from Manchester Downs Lagoon	
PD-039	Green Swamp at S-43-33	

DATA ANALYSIS

Ranges Obtained From Historical Data (1976-1978) - Also % Occurrences

Total Kjeldahl Nitrogen:

Range for Pee Dee Stations: Below detection limits of 30 mg/kg - 4100 mg/kg
84% samples between 100-1000 mg/kg

High values for this sampling: PD-091 1154 mg/kg - May be a natural level due to decaying vegetation

Phosphorous (P):

Range for Pee Dee Stations: Below detection limits of 25 mg/kg - 1000 mg/kg
55% samples 100 mg/kg
All values within normal range.

Cadmium (Cd):

Range for Pee Dee Stations: Rarely detected in sediment - no Cd detected

Chromium (Cr):

Range for Pee Dee Stations: Below detection limits of 5 mg/kg - 46 mg/Kg
80% samples below detection limits

All values acceptable

Copper (Cr):

Range for Pee Dee Stations: Below detection limits of 10 mg/Kg - 396 mg/kg - (abnormally high value)
75% samples below detection limits

20 mg/Kg at PD-040 may indicate an unnatural accumulation

Mercury (Hg):

Range for Pee Dee Stations: Rarely detected in sediments
All values acceptable.

Manganese (Mn):

Range for Pee-Dee Stations: Below detection limits Of 5 mg/Kg - 639 mg/kg
64% samples 10-100 mg/Kg

High Mn levels detected at PD-201N - 140 mg/Kg
PD-091 - 240 mg/Kg

These high Mn levels may be due to decaying vegetation (Tupelo leaves, etc., associated with the sediment - certain tree leaves can accumulate manganese and the manganese may be released when the leaves die and begin to decay - both of these stations had plant detritus associated with the sediments (especially PD-201N)

Nickel (Ni):

Range for Pee Dee Stations: Below detection limits of 10 mg/Kg - 28 mg/Kg.
82% samples below detection limits

24 mg/Kg at PD-091 may be slightly high.

Lead (Pb):

Range for Pee Dee Stations: Below detection limits of 5 mg/Kg - 140 mg/Kg
90% samples below 20 mg/Kg.

Elevated concentrations at PD-201N=54 mg/Kg
PD-237=69 mg/Kg

Zinc (Zn):

Range for Pee Dee Stations: Below detection limits of 10 mg/Kg - 200mg/Kg
80% sample less than 30 mg/Kg

High values at: PD-040= 120 mg/Kg
PD-091= 80 mg/Kg

Conclusions:

1) Slight accumulations of Copper and Zinc at PD-040 in Turkey Creek. This sample point is below the inactive dischargers of Sumter/Turkey Creek and Santee Print Works.

2) Slight accumulations of TKN, Mn, and Ni and Zn at PD-091. The TKN and Mn may be natural accumulations due to decaying vegetation.

3) Slight accumulations of Mn and Pb at PD-201N. Mn is probably natural.

4) Slight accumulation of Pb at PD-237.

SUMMARY:

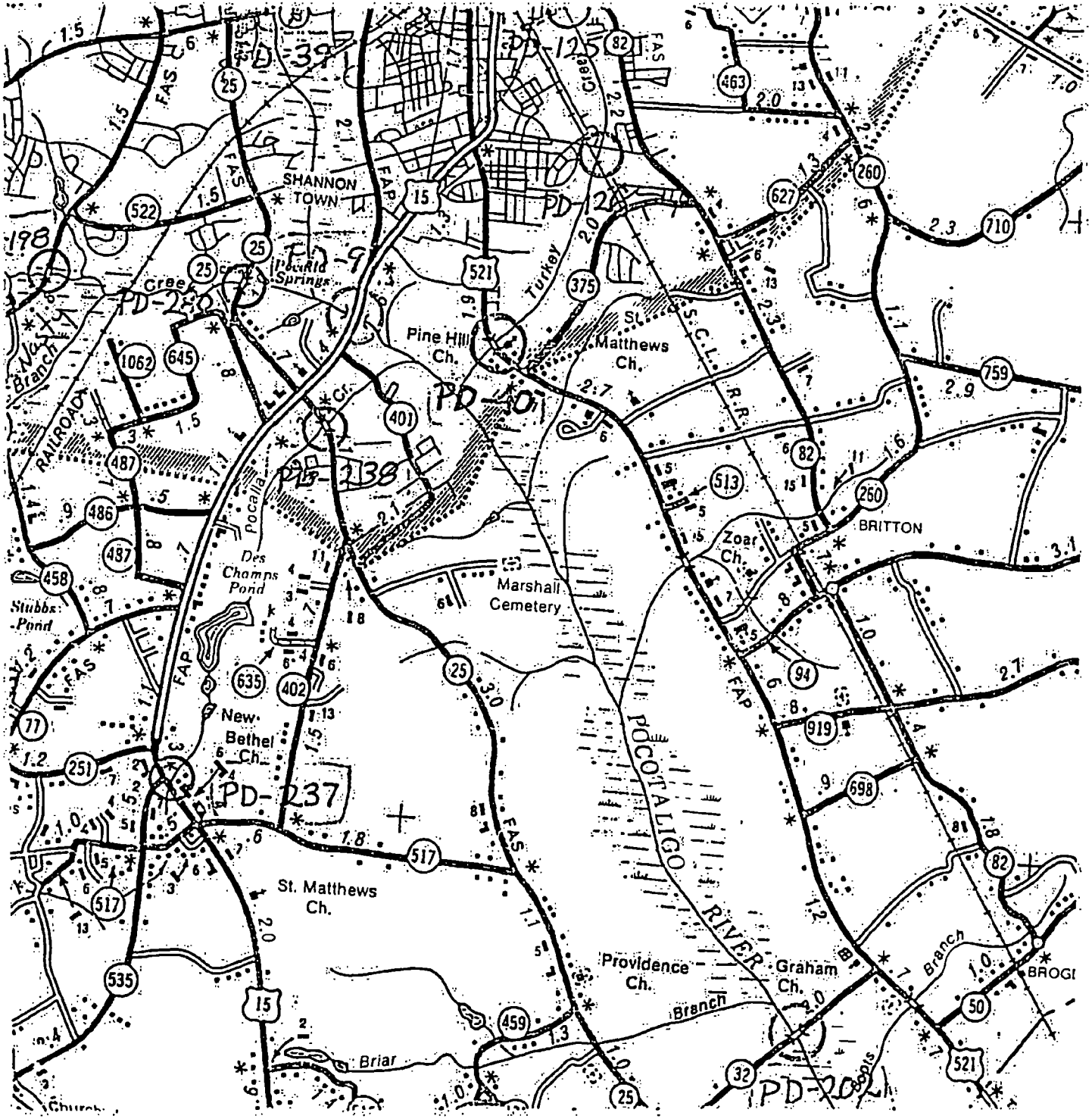
The slight accumulation of lead at PD-201N and PD-237 are, perhaps, natural levels as both stations were sampled to show representative background levels in swamp environments. The manganese at PD-201N and PD-01 and TKN at PD-091 are both associated with the excessive amounts of decaying vegetation. The nickel and lead at PD-091 showed only slight accumulations and may be natural or due to past dischargers upstream from this station. The "worst" problem appears to be at PD-040, which is a dredged channel in Turkey Creek and is downstream of several inactive dischargers. The acumulations of elements in the sediment at the other stations will probably not be alleviated by dredging as they are most likely representative of natural conditions.

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Bureau of Field and Analytical Services

Analytical Services Data Sheet For Sediment Samples

STATION No.	PD-201N	PD-202	PD-040	PD-091	PD-238	PD-237	PD-198	NASTY	PD-039
pH	4.6	4.8	5.0	5.3	5.4	4.3	4.3	4.8	4.8
TKN mg/kg	<30	<30	57.7	1154	<30	693	808	< 3	<30
T-P	71	3	22	68	17	39	47	5	10
Cd mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cr mg/kg	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cu mg/kg	<5.0	<5.0	20	<5.0	<5.0	<5.0	7.0	<5.0	<5.0
Hg mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2
Mn mg/kg	140	<5.0	7.0	240	9.0	15	90	7.0	18
Ni mg/kg	<5.0	<5.0	<5.0	24	<5.0	<5.0	<5.0	<5.0	<5.0
Pb mg/kg	54	9.0	14	11	<5.0	69	22	<5.0	<5.0
Zn mg/kg	30	19	120	80	10	15	28	7.0	5.0


SHANNON TOWN
Creek
Pine Hill Ch.
St. Matthews Ch.
S.C.L. R.R.
Turkey
Pocalla
Des Champs Pond
Stubbs Pond
Marshall Cemetery
New Bethel Ch.
St. Matthews Ch.
Providence Ch.
Graham Ch.
Zoar Ch.
BRITTON
POCOTALIGO RIVER
Briar
Branch
PD-125
PD-237
PD-238
PD-201

SEGMENT 03-07-14

POCOTALIGO RIVER

PHYSICAL DESCRIPTION:

That drainage into the Pocotaligo River above its confluence with Black River.

AREA OF SEGMENT:

386 square miles

Geologic Region	Hydrologic Groups	Characteristics of Typical Stream @ 7Q10 Low Flow
I	(1)	7Q10=.73 cfs. Velocity=.6 ft. per sec. Depth=2.0 ft. K_2 (base e)=1.82
	(2)	7Q10=4.13 cfs. Velocity=.49 ft. per sec. Depth=2.27 ft. K_2 (base e)=1.24

POPULATION

Current population (1970) 67,817

Projected population growth rate (1970-1980) +3.2%

WASTEWATER SOURCES:

	No. of Dischargers	Volume MGD	BOD_5 Lbs. Day Wasteload
Point Source Dischargers			
1. Municipal Domestic	4	5.03800	2669.44
2. Private Domestic	18	1.2420	491.877
3. Industrial	5	4.1505	10388.66
TOTAL	27	10.4305	13549.977

Specific point source dischargers are covered in detail in the following tables.

SEGMENT 03-07-14

Map Ref. #	County	Facility Type*	NPDES # SC00	Facility Name	Existing			Receiving Stream	Receiving Stream Class
					Type Treatment	Design Effluent Flow (mgd)	Design Wasteload BOD_5 mg/l		
2	Clarendon	M	20419	Manning, City of	Trickling Filter	.403	60* (201.7)	Pocotaligo River	B (Swamp)
22	Clarendon	PM	31216	Howard Johnson Motor Lodge	Stab. Pond, Chlor.	.009	52.2* (3.9)	Fellowship Branch	B (Swamp)
24	Clarendon	PM	32280	Lighthouse Motel Thrifty Inn Motel	Ext. Aeration, Chlor.	.05	43** (17.93)	Fellowship Branch	B (Swamp)
1	Clarendon	I	02968	Sunbeam Corp. (Manning Products)	Oxidation Pond	.0385	27** (8.66)	Bear Creek	B (Swamp)
23	Clarendon	PM	31232	Ramada Inn	Ext. Aeration, Chlor.	.025	52.3** (10.85)	Fellowship Branch	B (Swamp)
21	Clarendon	PM	23329	Days Inn	Ext. Aeration, Chlor.	.025	14 (2.9)	Fellowship Branch	B (Swamp)
18	Sumter	PM	31844	Briarcliff MHP (Ainsworth-Burn)	Oxidation Pond, Chlor.	.026	34.75** (7.4)	Spann Branch	B (Swamp)
17	Sumter	PM	32212	Carolina Mobile Homes	Ext. Aeration	.03	60** (14.9)	Long Branch	B (Swamp)
15	Sumter	PM	31925	Burgess-Glenn MHP	Ext. Aeration, Chlor.	.018	30** (4.48)	Mush Branch	B (Swamp)
16	Sumter	PM	31704	Harwood Trailer Park	Oxidation Pond	.0075	30** (1.867)	Bluffhead Branch to Black River	B (Swamp)
19	Sumter	PM	31453	Windsor City Estates Trailer Park	Ext. Aeration, Chlor	.04	79.5** (26.4)	Green Swamp Branch	B (Swamp)
4	Sumter	PM	30724	Pocalla Village Subdivision	Aerated Lagoon, Chlor.	.104	30** (25.9)	Pocotaligo River Pocalla Creek	B (Swamp)

*M = Municipal
PM = Private Municipal
I = Industrial

*Estimate given type treatment
**Estimate using 85% reduction of raw data

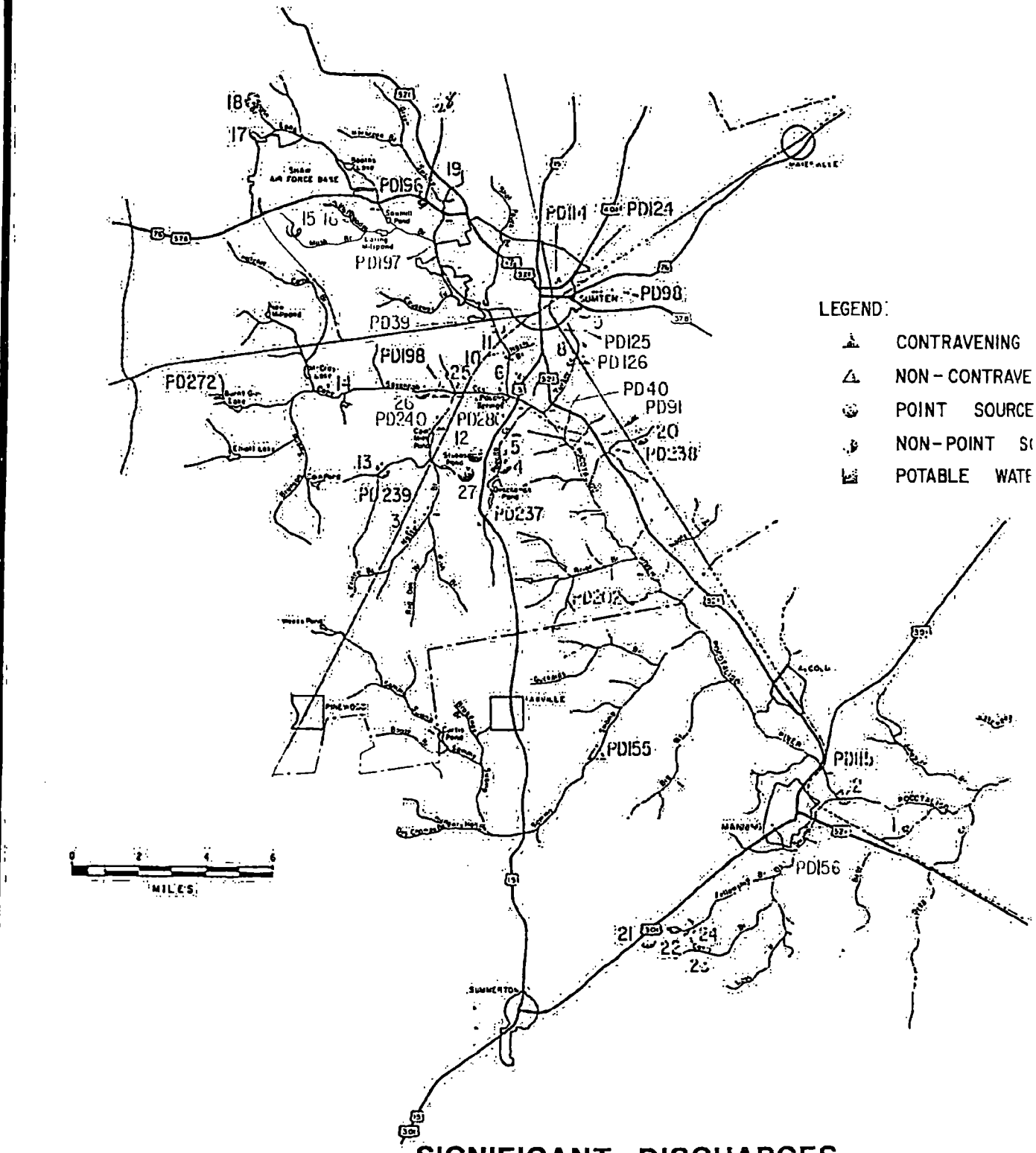
SEGMENT 03-07-14

Map Ref. #	County	Facility Type*	NPDES # SC00	Facility Name	Existing			Receiving Stream	Receiving Stream Class
					Type Treatment	Design Effluent Flow (mgd)	Design Wasteload BOD_5 mg/l		
9	Sumter	I	01309	Santee Print Works	Pretreatment, Screening and Separation	1.0	1000 (8340)	Turkey Creek	B (Swamp)
11	Sumter	PM	25429	Guignard Park Subdivision	Package Plant, Ext. Aeration, Chlor.	.0196	30** (4.88)	Green Swamp	B (Swamp)
10	Sumter	M	21482	Sumter, City of (Green Swamp)	Trickling Filter, Chlor.	2.5	67.5** (1396.94)	Green Swamp	B (Swamp)
8	Sumter	M	21563	Sumter, City of (Turkey Creek)	Trickling Filter, Chlor.	2.1	60* (1050.8)	Turkey Creek	B (Swamp)
7	Sumter	PM	25437	Pinedale Subdivision	Oxidation Pond	.06	30* (14.94)	Hoyts Branch	B (Swamp)
6	Sumter	PM	31607	Ivey Hall Subdivision	Oxidation Pond, Chlor.	.0545	56.88** (25.45)	Green Swamp	B (Swamp)
5	Sumter	I	00795	Campbell Soup Co., Inc., Industrial Domestic	Spray Irrigation, Oxidation Pond	2.8	82.5** (1914.9)	Pocalla Creek	B (Swamp)
14	Sumter	PM	31569	Forest Hills Subdivision	Oxidation Pond	.16725	30** (41.84)	Cane Savannah Creek	B (Swamp)
13	Sumter	PM	31623	Manchester Downs Development	Oxidation Pond	.03	52.5** (13.08)	Bethel Branch	B (Swamp)
3	Sumter	I	01856	ESB Inc.—Exide Power Systems	Precip. Tanks, Oxidation Pond, Auto Acid Feed	Sanitary .015 Industrial .235	60* (125.1)	Nasty Branch	B (Swamp)
20	Sumter	PM	32701	Leawood Mobile Home Park	Oxidation Pond, Chlor.	.0441	60* (21.96)	Pine Acre Creek	B (Swamp)
12	Sumter	M	23850	Sumter Industrial Park STP	Ext. Aeration	.035	69 (20)	Pocalla Creek	B (Swamp)
25	Sumter	PM	25445	Ashley Creek Village	Oxidation Pond	.5	60 est. (250 lbs./d)	Cane Savannah to Pocotaligo	B (Swamp)
26	Sumter	PM	23647	Twin Lakes S/D	Activated Sludge, Chlor.	.032	12 (3.2 lbs./d.)	Cane Savannah to Pocotaligo River	B (Swamp)
27	Sumter	I	24554	Crescent Tool (Cooper Ind.)	Chrome Reduction Unit, Acid Neutralization, oil Separator	.062	NA	ditch to Pocalla to Pocotaligo River	B (Swamp)

POCOTALIGO RIVER

03-07-14

Map Reference No.	Dischargers
1	Sunbeam Corp. (Manning Products) (I) SC0002968
2	Manning, City of (M) SC0020419
3	ESB Inc. — Exide Power Systems (I) SC0001856
4	Pocalla Village S/D (PM)
5	Campbell Soup Co. (I) SC0000795
6	Ivey Hall (PM) SC0031607
7	Pinedale S/D (PM) SC0025437
8	Sumter, City of (Turkey Creek) (M) SC0021563
9	Santee Print Works (I) SC0001309
10	Sumter, City of (Green Swamp) (M) SC0021482
11	Guignard Park S/D (PM) SC0025429
12	Sumter Industrial Park STP (M) SC0023850
13	Manchester Downs Development (PM) SC0031623
14	Forest Hills S/D (PM) SC0031569
15	Burgess-Glenn MHP (PM) SC0031925
16	Harwood Trailer Park (PM) SC0031704
17	Carolina Mobile Homes (PM) SC0032212
18	Briarcliff MHP (Ainsworth-Burn) (PM) SC0031844
19	Windsor City Estates Trailer Park (PM) SC0031453
20	Leawood MHP (PM) SC0032701
21	Days Inn (PM) SC0023329
22	Howard Johnson Motor Lodge (PM) SC0031216
23	Ramada Inn (PM) SC0031232
24	Lighthouse Motel (PM) SC0032280
25	Ashley Creek S/D (PM) SC0025445
26	Twin Lakes S/D SC0023647
27	Crescent Tool (Cooper Ind.) (I) SC0024554
28	Fishburne [illegible] SC

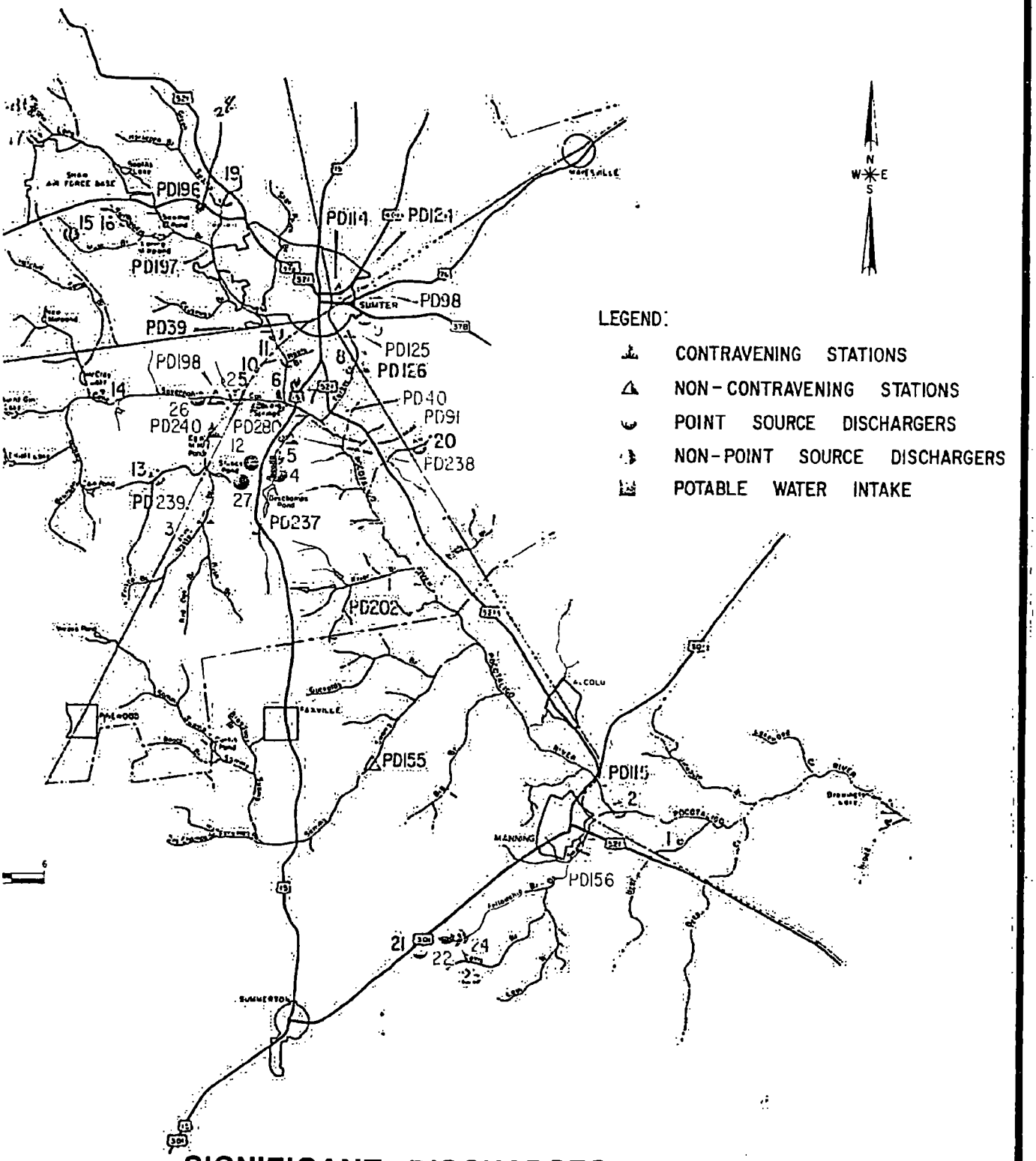


SIGNIFICANT DISCHARGES

POCOTALIGO RIVER SUB-BASIN

PEE DEE RIVER BASIN
SOUTH CAROLINA
ADP CODE 03-07-14

Prepared By
South Carolina Department Of
Health and Environmental Control

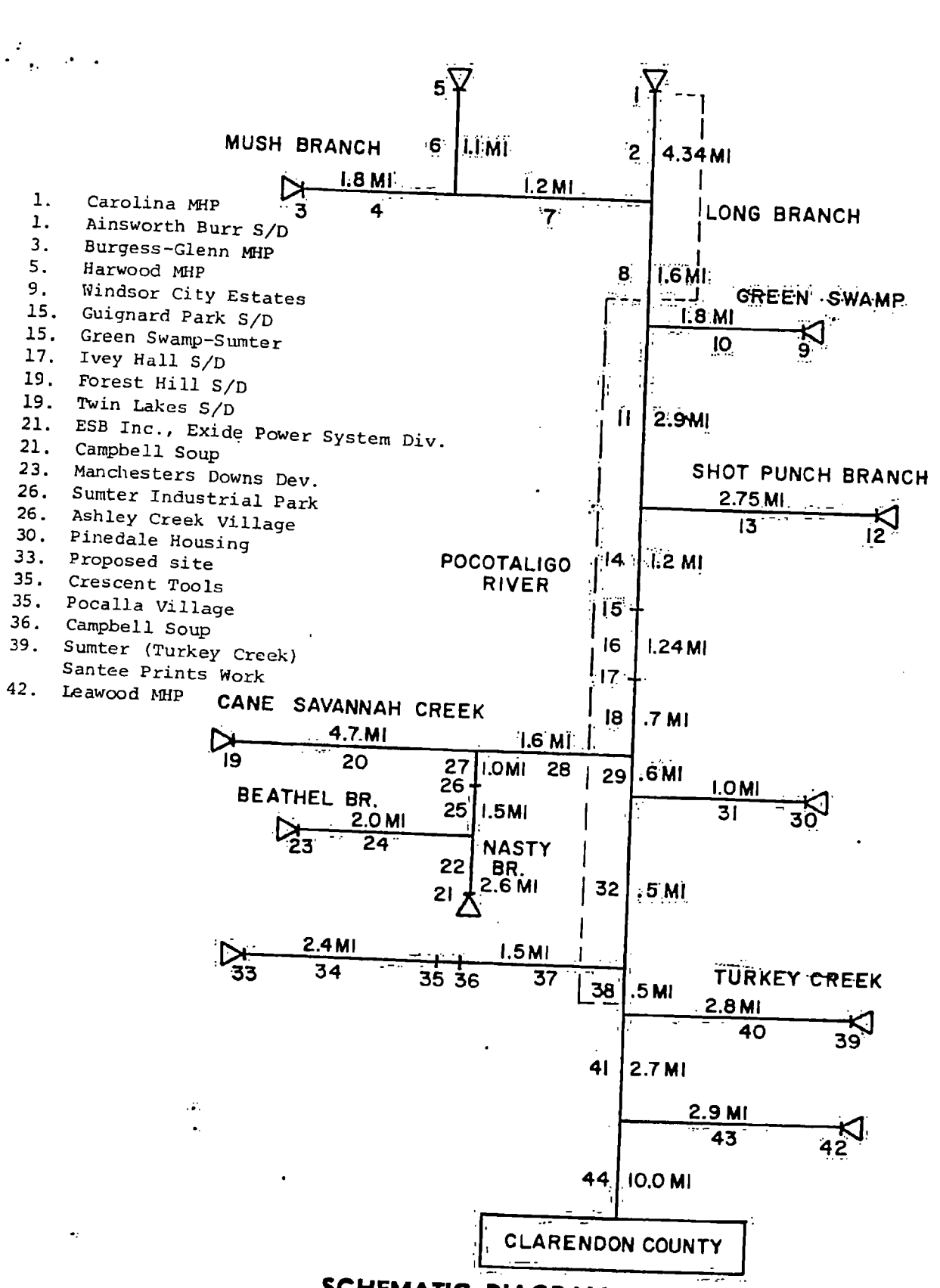


SIGNIFICANT DISCHARGES

POCOTALIGO RIVER SUB-BASIN

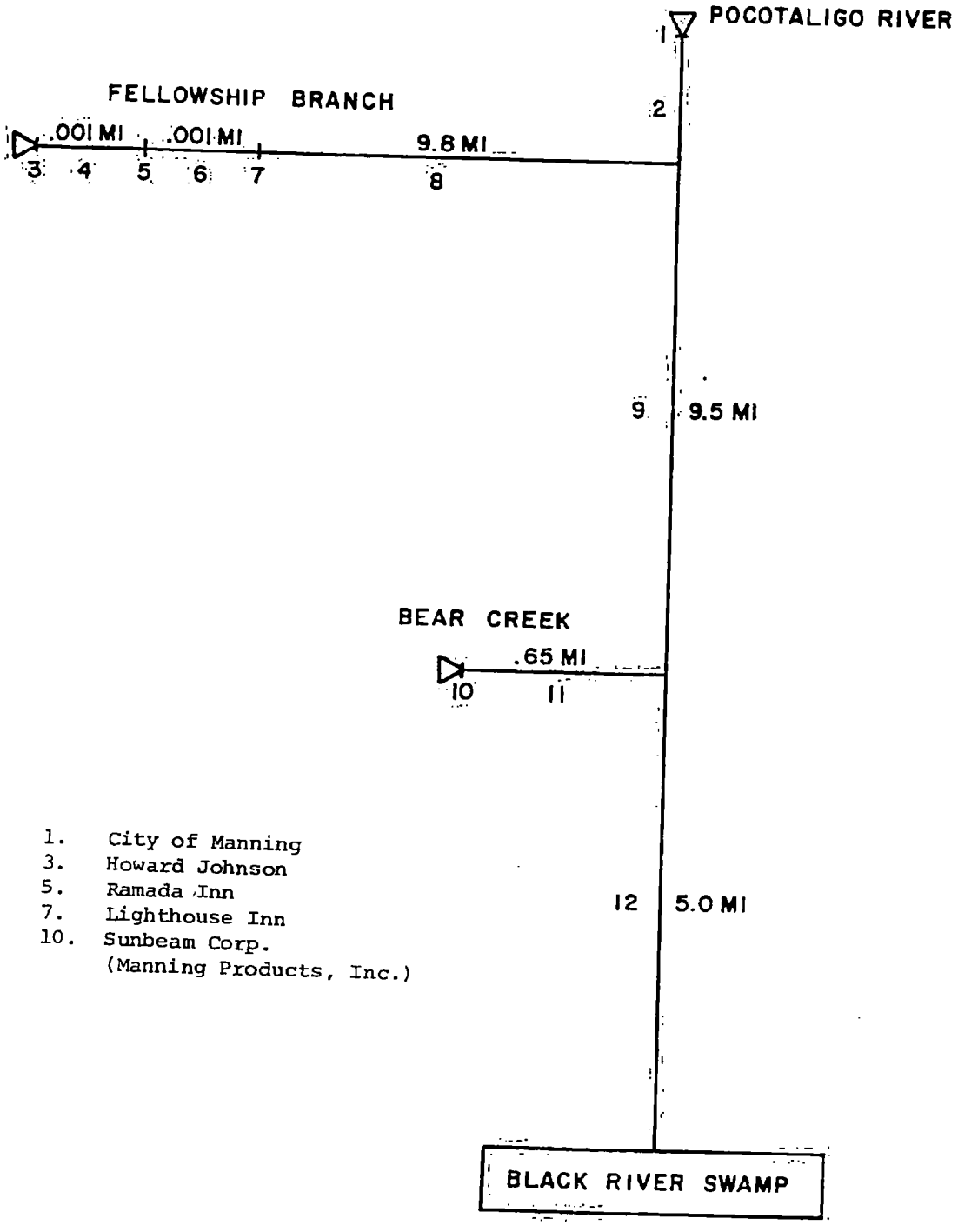
PEE DEE RIVER BASIN
SOUTH CAROLINA
ADP CODE 03-07-14

FIGURE 28



SCHEMATIC DIAGRAM
UPPER POCOTALIGO RIVER
POCOTALIGO RIVER SUB-BASIN
ADP CODE 03-07-14

FIGURE 29



1. City of Manning
3. Howard Johnson
5. Ramada Inn
7. Lighthouse Inn
10. Sunbeam Corp.
(Manning Products, Inc.)

SCHEMATIC DIAGRAM
FELLOWSHIP BRANCH AND BEAR CREEK
POCOTALIGO RIVER SUB-BASIN
ADP CODE 03-07-14

FIGURE 30

TARGET WASTELOAD ALLOCATIONS
03-07-14

Point Source	NPDES Permit Number	Design Volume mgd	7Q10 at discharge point cfs	BOD_5 lbs. (mg/l)	D.O. mg/l	COD lbs. (mg/l)	pH s.u.	Detergents (MBAS) lbs. (mg/l)	Total Phosphorus lbs. (mg/l)	Fecal Coliform #/100ml	Phenols lbs. (mg/l)	NH_3 lbs. (mg/l)	Temperature °C	Trace Metals lbs. (mg/l)	Oil and Grease lbs. (mg/l)	Total Suspended Solids lbs. (mg/l)
Manning, City of	SC0020419	1.0	12.71	200 (24)	6		5-8.5			200		17 (2)				250 (30)
Santee Print Works	SC0001309			2504		10000	6-9				1.57		35	TKN = 112		160
Outfall #1			.2													
Outfall #2				9186		18270	6-9				.87		37	TKN = 31 Cr = 1.78 Cu = 1.06		167
Sumter, City of Turkey Creek	SC0021563	1.5	.31	575 (46)			6-8.5			200						575 (46)
Sumter, City of Pocalla Creek (Sumter Ind. Park)	SC0023850	.035	.114	3.8 (13)	6		6-9			200		3 (1)				8.7 (30)
Sumter, City of Green Swamp	SC0021482	2.5	0.0	229 (11)	6		6-8.5			200		20.8 (1)				624 (30)
Sunbeam Corp. Manning Div. Outfall #1	SC0002968		0.0				6-9							Al = .086 Cr = .04 Fe = 1213 Ni = .213 Zn = .213	2.13	4.2
Outfall #2				(6)		5	6-9			200						(30)

137

4959