APPENDICES

Appendix A

Sample Location Descriptions

APPENDIX A SAMPLE LOCATION DESCRIPTIONS

| Distance Downstream from Scott Street (approx. ft.) | Sample ID | Sample Depth | Side of Creek | Location with Respect to Construction Easement | Sample Notes |
|---|--------------------------|--------------------|------------------|--|--|
| | North Side | | | | |
| 12,345 | 1721 Greenview Circle -A | 0"-9" | North | · A | MEG had a space |
| 12,345 | 1721 Greenview Circle -B | 0"-9" | North | В | MEC, hand auger, 5/20/03, north side, within construction easement, 1721 Greenview Circle |
| 12,290 | 1727 Greenview -A | 0"-9" | North | · A | WEC, hand auger, 5/20/03, north side, outside construction easement, 1721 Greenview Circle |
| 12,290 | 1727 Greenview -B | 0"-9" | North | В | MCC, hand auger, 4/28/03, north side, within construction essement, 1727 Creaming Circle |
| 12,180 | CC 11A | 0"-9" | North | A A | MIC, hand auger, 4/28/03, north side, outside construction easement, 1727 Greenwich, Class |
| 12,180 | CC 11B | 0"-9" | North | В | ETA, hand auger, 5/20/03, north side, within construction easement 1730 Greenwich Circle |
| 12,140 | 1743 Greenview -A | 0"-9" | North | A | 12. 13, hand auger, 5/20/03, north side, outside construction easement 1730 Greenview Class |
| 12,140 | 1743 Greenview -B | 0"-9" | North | В | INIDO, nand augel, 3/6/03, north side, within construction easement 17/13 Greenview Circles |
| 11,940 | CC 1A | 0"-9" | North | A | ivince, manu auger, 5/8/03, north side, outside construction easement 17/43 Greenview Circle |
| 11,940 | CC 1B | 0"-9" | North | B | 12. 13, hand auger, 5/20/03, north side, within construction easement 1763 Greenview Circle |
| 11,830 | 1773 Greenview -A | 0"-9" | North | A | El A, hand auger, 5/20/03, north side, outside construction easement 1763 Greenview Ci-cle |
| 11,830 | 1773 Greenview -B | 0"-9" | North | B B | INDO, hand auger, 4/28/03, north side, within construction essement 1772 Greenwice Ci-1- |
| 11,780 | CC 2A | 0"-9" | North | | IMIC, hand auger, 4/28/03, north side, outside construction easement, 1773 Greenview, Circle |
| 11,780 | CC 2B | 0"-9" | North | A B | 121 A, hand auger, 5/20/03, north side, within construction easement 1770 Greenview Circle |
| 11,670 | 1787 Greenview –A | 0"-9" | North | A | EFA, hand auger, 5/20/03, north side, outside construction easement 1770 Greenwises City |
| | 1787 Greenview -B | 0"-9" | North | B | IMDC, hand auger, 4/28/03, north side, within construction essement 1787 Grannian Cin-1- |
| | 1793 Greenview -A | 0"-9" | North | | IMEO, hally auger, 4/25/03, north side, outside construction essement, 1797 Geography O'-1 |
| | 1793 Greenview -B | 0"-9" | North | A | IMEC, hand auger, 0/20/03, north side, within construction essement 1703 Greenview Circle |
| | T5-NB-1 | 0"-12" | North | В | IMDC, hand auger, 0/20/03, north side, outside construction easement, 1703 Grannian, Ci-1- |
| | | 0 -12 | иоли | A | MEC, hand auger 3/9/01, 10' West and 6' North of North-most bridge railing, North Bank of Cypress Creek |
| | 1867 Hubert -A | 0"-9" | North | A | |
| | 1867 Hubert -B | 0"-9" | North | В | MEC, hand auger, 4/28/03, north side, within construction easement, 1867 Hubert Ave. |
| 10,790 | 1915 Hubert -B | 0"-9" | North | | MEC, hand auger, 4/28/03, north side, outside construction easement, 1867 Hubert Ave. |
| | 1915 Hubert -A | 0"-9" | North | | MEC, hand auger, 6/10/03, north side, outside construction easement, 1915 Hubert Ave., apartments |
| 9,935 | CC 3WB | 0"-9" | North | В | MEC, hand auger, 6/10/03, north side, within construction easement, 1915 Hubert Ave., apartments |
| | CC 3WA | 0"-9" | North | В | EPA, hand auger, 5/20/03, north side, outside construction easement, 1135 University St., apartments |
| 9,800 | CC 3CA | 0"-9" | North | - | 122 11, hand Auger, 3/20/03, north side, outside construction essement 1135 This reside, Ca |
| 9,750 | CC 3EA | 0"-9" | North | •• | Land auger, 5/20/03, north side, within construction easement 1135 University Co. and the construction of the construction o |
| 9,700 | Г4-NB-1 | 0"-12" | North | | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | | | 1,01 | Α | MEC, hand auger 3/9/01, North bank of Cypress Creek, 3' due East of North-most bridge railing, University Blvd. Bridge |
| | 130 University -A | 0"- 9" | North | | |
| | 130 University -B | 0"- 9" | North | В | MEC, hand auger, 5/30/03, north side, within construction easement, 1130 University St. |
| | 2031 Hubert -A | 0"-9" | North | Ā | MEC, hand auger, 5/30/03, north side, outside construction easement, 1130 University St. |
| | 031 Hubert -B | 0"- 9" | North | | MEC, hand auger, 5/30/03, north side, within construction easement, 2031 Hubert Ave. |
| | CC 7A | 0"-9" | North | | MEC, hand auger, 5/30/03, north side, outside construction easement, 2031 Hubert Ave. |
| 9,380 | CC 7B | 0"-9" | North | В | EPA, hand auger, 5/20/03, north side, within construction easement, 2037 Hubert Ave. |
| | CC 6A | 0"-9" | North | Ā | EPA, hand auger, 5/20/03, north side, outside construction easement, 2037 Hubert Ave. |
| 9,330 C | CC 6B | 0"- 9 ⁿ | North | В | EPA, hand auger, 5/20/03, north side, within construction easement, 2041 Hubert Ave. EPA, hand auger, 5/20/03, north side, outside construction easement, 2041 Hubert Ave. |

APPENDIX A SAMPLE LOCATION DESCRIPTIONS

| Distance Downstream from Scott Street (approx. ft.) | Sample ID | Sample Depth | Side of Creek | Location with Respect to Construction Easement | Sample Notes |
|---|------------------------|-----------------|------------------|---|---|
| 9,170 | CC 5A | 0"- 9" | North | A | EPA, hand auger, 5/20/03, north side, within construction easement, 2057 Hubert Ave. |
| 9,170 | CC 5B | 0"- 9" | North | В | EPA, hand auger, 5/20/03, north side, outside construction easement, 2057 Hubert Ave. |
| 9,130 | 2061 Hubert –A | 0"-9" | North | A | MEC, hand auger, 5/30/03, north side, within construction easement, 2057 Hubert Ave. |
| 9,130 | 2061 Hubert B | 0"- 9" | North | В | MEC, hand auger, 5/30/03, north side, outside construction easement, 2061 Hubert Ave. |
| 8,980 | 2077 Hubert -A | 0"-9" | North | A | MEC, hand auger, 5/30/03, north side, within construction easement, 2007 Hubert Ave. |
| | 2077 Hubert -B | 0"-9" | North | В | MEC, hand auger, 5/30/03, north side, outside construction easement, 2077 Hubert Ave. |
| 8,790 | 2091 Hubert –A | 0"- 9" | North | Α | MEC, hand auger, 5/30/03, north side, within construction easement, 2091 Hubert Ave. |
| | 2091 Hubert -B | 0"- 9" | North | В | MEC, hand auger, 5/30/03, north side, outside construction easement, 2091 Hubert Ave. |
| | 2101 Hubert ~A | 0"-9" | North | A | MEC, hand auger, 5/30/03, north side, within construction easement, 2101 Hubert Ave. |
| II . | 2101 Hubert -B | 0"-9" | North | В | MEC, hand auger, 5/30/03, north side, outside construction easement, 2101 Hubert Ave. |
| | CC 4A | 0"- 9" | North | Ā | EPA, hand auger, 5/20/03, north side, within construction easement, 2101 Hubert Ave. |
| 41 | CC 4B | 0"-9" | North | В | EPA, hand auger, 5/20/03, north side, outside construction easement, 2111 Hubert Ave. |
| 8,350 | HA-2 | 0"-12" | North | . A | MEC, Geoprobe, 3/5/01, North bank of Cypress Creek behind OakRidge Apartments, 3' North of fence and 8' South (East) of East-most bollard, 1188 Tunica St. |
| (I | 1188 Tunica –A | 0"-9" | North | A | MEC hand anger 6/20/3 north side wishin and the |
| 7,900 | 1188 Tunica -B | 0"- 9" | North | В | MEC, hand auger, 6/20/03, north side, within construction easement, 1188 Tunica St. apartments MEC, hand auger, 6/20/03, north side, outside construction easement, 1188 Tunica St. apartments |
| 7,430 | 1210 Springdale -B | 0"-9" | North | В | MEC hand anger 5/4/02 |
| 7,330 | 1210 Springdale -A | 0"-9" | North | Ā | MEC, hand auger, 6/4/03, north side, outside construction easement, 1210 Springdale St. |
| 7,200 | 2245 Hunter -B | 0"-9" | North | В | MEC, hand auger, 6/4/03, north side, within construction easement, 1210 Springdale St. |
| | 2245 Hunter -A | 0"-9" | North | A | MEC, hand auger, 7/2/03, north side, outside construction easement, church property behind 2245 Hunter Ave. |
| 6,880 | 2263 Shasta -A | 0"-9" | North | Ä | MEC, hand auger, 7/2/03, north side, within construction easement, church property behind 2245 Hunter Ave. |
| 6,880 | 2263 Shasta –B | 0"-9" | North | В | MEC, hand anger, 7/2/03, north side, within construction easement, 2263 Shasta Ave. |
| 6,750 | City on Trezevant -A | 0"-9" | North | Ā | MEC, hand auger, 7/2/03, north side, outside construction easement, 2263 Shasta Ave. MEC, hand auger, 6/20/03, north side, within construction easement, Parcel ID 042-037-00032, south of residences on |
| 6,700 | County on Trezevant -B | 0"-9" | North | n | Simble Ave. |
| | 2289 Dexter -A | 0"-9" | North | В | MEC, hand auger, 6/20/03, north side, outside construction easement, Parcel ID 042-037-00031, at Dexter Ave. |
| I ' I | Harris –A | 0-9 | North | A | 1 mile auger, 0/10/03, north side, within construction essement 2280 Device Ave |
| 1 1 | Harris -B | 0"-9" | North | A | IMEC, hand auger, 5/28/03, north side within construction excement. Decod ID 0/2 027 00000 |
| 5,830 | Syed NoB | 0"-9" | North | B B | MEC, hand auger, 5/28/03, north side, outside construction easement, Parcel ID 042-037-00208, at end of Vandale Ave. |
| 5,780 | Syed NoA | 0"-9" | North | A | MEC, hand auger, 5/28/03, north side, within construction easement, Parcel ID 042-037-00164, south of residences on |
| 5,380 | 2397 Gentry -A | 0"-9" | North | | i a unique vac. |
| | 2397 Gentry -B | 0"-9" | North | A | MEC, hand auger, 6/10/03, north side, within construction easement, 2397 Gentry Ave. |
| | 2403 Gentry A | 0"-9" | North | B | MEC, hand auger, 6/10/03, north side, outside construction easement 2397 Gentry Ave |
| - I | 2403 Gentry -B | 0"-9" | North | A | MEC, hand auger, 6/10/03, north side, within construction easement, 2403 Gentry Ave. |
| | 2411 Gentry -A | 0"-9" | North | В | MEC, hand auger, 6/10/03, north side, outside construction easement, 2403 Gentry Ave. |
| | 2411 Gentry –B | 0"-9" | North | В | MEC, hand auger, 5/28/03, north side, within construction easement, 2411 Gentry Ave. MEC, hand auger, 5/28/03, north side, outside construction easement, 2411 Gentry Ave. |

APPENDIX A
SAMPLE LOCATION DESCRIPTIONS

| Distance Downstream from Scott Street (approx. ft.) | Sample ID | Sample Depth | Side of Creek | Location with Respect to Construction Easement | Sample Notes |
|---|-------------------|-----------------|------------------|---|---|
| 4,660 | City on Devoy -A | 0"- 9" | North | Α | IVMC 1 |
| 4,660 | City on Devoy -B | 0"-9" | North | A | MEC, hand auger, 5/28/03, north side, within construction easement, parcel immediately west of 2425 Devoy Ave. |
| 4,050 | 1027 Hollywood -B | 0"-9" | North | В | MEC, hand auger, 5/28/03, north side, outside construction easement, parcel immediately west of 2425 Devoy Ave. MEC, hand auger, 7/2/03, north side, outside construction easement, parcel immediately west of 2425 Devoy Ave. |
| 3,960 | 1027 Hollywood -A | 0"-9" | North | В | MEC, hand auger, 7/2/03, north side, outside construction easement, parcel immediately west of 2425 Devoy Ave. MEC, hand auger, 7/2/03, north side, within account of easement, 1027 No. Hollywood St. |
| 3,900 | T3-NB-1 | 0"-12" | | A | MEC, hand auger, 7/2/03, north side, within construction easement, 1027 No. Hollywood St. MEC, hand auger 3/9/01, 10' North and 7! West a SN and 1027 No. Hollywood St. |
| | | 0 -12" | North | A | MEC, hand auger 3/9/01, 10' North and 7' West of North-most bridge railing, North Bank of Cypress Creek |
| 3,280 | CC 19B | 011 011 | | | Heat of North-most bridge railing, North Bank of Cypress Creek |
| 3,200 | CC 19A | 0"- 9" | North | В | EPA, hand auger, 5/21/03, porth eide, enteide auger |
| 2,790 | CC 18A | . 0"-9" | North | A | EPA, hand auger 5/21/03 north site, outside construction easement, church property behind 1005 Meagher St. |
| 2,740 | | 0"- 9" | North | A | EPA, hand auger, 5/21/03, north side, within construction easement, church property behind 1005 Meagher St. EPA, hand auger, 5/21/03, north side, within construction easement, church property behind 1005 Meagher St. |
| | CC 18B | 0"-9" | North | A | EPA, hand auger, 5/21/03, north side, within construction easement, church property behind 1005 Meagher St. EPA, hand auger, 5/21/03, north side, within construction easement, 959 Meagher St. |
| 2,670 | 957 Meagher -A | 0"-9" | North | Ā | |
| | ļ | 1 1 | | | MEC, hand auger, 5/21/03, north side, within construction easement, 959 Meagher St. |
| 2,510 | 948 Meagher -B | 0"-9" | North | В | |
| 2,440 | 948 Meagher -A | 0"-9" | North | | MEC, hand auger, 6/4/03, north side, outside construction easement, 948 Meagher St. |
| | 933 Bingham -B | 0"-9" | North | A | |
| | 920 Bingham –A | 0"-9" | | В | |
| | 920 Bingham –B | 0-9" | North | Α | |
| | MLGW -A | | North | В | |
| | T2-EB-1 | 0"-9" | North | A | MEC, hand auger 7/2/03 north side with the construction easement, 920 Bingham St. |
| -, | 72-6B-1 | 0"-12" | North | A | MEC, hand auger, 7/2/03, north side, within construction easement, 920 Bingham St. MEC, Geoprobe, 3/5/01, 2' East of Sidewalk beneath Jackson Street Overpass on East side of Cypress Creek at access ros |
| | South Side | i I | 1 | | , |
| 12,310 | Evergreen –A | 0"-9" | South | | <u>.</u> |
| | Evergreen -B | 0"-9" | | A | MEC, hand auger, 5/8/03, south side, within construction easement, N. Everegren St., Parcel ID 041-020-00216 |
| | 1754 Edward A | 0"-9" | South | A | MEC, hand auger, 5/8/03, south side, within construction excenses. N. Everegren St., Parcel ID 041-020-00216 |
| | 1754 Edward -B | | South | A | MEC, hand auger, 5/8/03, south side, within construction easement, N. Everegren St., Parcel ID 041-020-00216 MEC, hand auger, 5/8/03, south side, within construction easement, N. Evergreen St., Parcel ID 041-020-00216 020-00218 |
| | | 0"-9" | South | A | MEC, hand auger, 5/8/03, south side, within construction easement, City property behind 1754 Edward Ave., Parcel ID 04 |
| 1 | 1772 Edward –A | 0"-9" | South | A | MEC, hand auger, 4/28/03, south side, within construction easement, City property behind 1772 Edward Ave., Parcel ID |
| 11,860 | 1772 Edward –B | 0"-9" | South | A | MEC, hand auger, 4/28/03, south side, within construction easement, City property behind 1772 Edward Ave., Parcel ID 041-020-00218 |
| 11,605 | 798 Edward A | 0"- 9" | South | A | 041-020-00218 MEC, hand auger, 5/8/03 south side within and auger. |
| 11,605 | 798 Edward –B | 0"- 9" | South | A | MEC, hand auger, 5/8/03, south side, within construction easement, County property behind 1798 Edward Ave., Parcel ID MEC, hand suger 5/8/03, south side, with the construction easement, County property behind 1798 Edward Ave., Parcel ID |
| 11,475 | For Tidens 1 4 | | 1 | | MEC, hand auger, 5/8/03, south side, within construction easement, County property behind 1798 Edward Ave., Parcel ID |
| | ax Edward –A | 0"- 9" | South | Α Ι | MEC hand anger 5/9/02 and the second |
| 11,440 7 | ax Edward -B | 0"-9" | South | A | MEC, hand auger, 5/8/03, south side, within construction easement, County property, Parcel ID 041-020-00208 MEC, hand auger, 5/8/03, south side, within construction easement, County property, Parcel ID 041-020-00208 |

APPENDIX A
SAMPLE LOCATION DESCRIPTIONS

| | | | | | LOCATION DESCRIPTIONS |
|---|------------------------|-----------------|------------------|---|--|
| Distance Downstream from Scott Street (approx. ft.) | Sample ID | Sample Depth | Side of Creek | Location with Respect to Construction Easement | Sample Notes |
| 11,150 | VECA –A | 0"- 9" | South | A | MEC, hand auger, 4/23/03, south side, within construction easement, Parcel ID 041-020-00230, on Edward Ave. at McLea |
| 11,150 | VECA -B | 0"-9" | South | . А | Blvd. MEC, hand auger, 4/23/03, south side, within construction easement, Parcel ID 041-020-00230, on Edward Ave. at McLea Blvd. |
| 11,100 | T5-SB-1 | 0"-12" | South | A | MEC, Geoprobe, 3/5/01, 9' South of fence and 18' West of South-most bridge railing, South bank of Cypress Creek |
| 10,820 | 1858 Edward -B | 0"-9" | South | В | |
| 10,670 | CC 10A | 0"-9" | South | A. | MEC, hand auger, 4/28/03, south side, outside construction easement, 1858 Edward Ave. |
| 10,670 | CC 10B | 0"-9" | South | В | EPA, hand auger, 5/20/03, south side, within construction easement, 1876 Edward Ave. |
| 10,530 | CC 13A | 0"-9" | South | A | EPA, hand auger, 5/20/03, south side, outside construction easement, 1876 Edward Ave. |
| 10,530 | CC.13B | 0"-9" | South | | EPA, hand auger, 5/21/03, south side, within construction easement, 1894 Edward Ave. |
| | 1900 Edward -A | 0"-9" | South | В | EPA, hand auger, 5/21/03, south side, outside construction easement, 1894 Edward Ave |
| · · | 1900 Edward -B | 0"-9" | South | A | MEC, nand auger, 4/23/03, south side, within construction easement 1900 Reward Ave |
| , | CC 9A | 0"-9" | 1 | В | MEC, nand auger, 4/23/03, south side, outside construction easement 1900 Edward Ave |
| | CC 9B | 0"-9" | South | A | EFA, nand auger, 5/20/03, south side, within construction easement, 1906 Edward Ave |
| | | 0"-9" | South | В | EPA, hand auger, 5/20/03, south side, outside construction easement, 1906 Edward Ave. |
| | 1921 Edward Cove -C | 0"-9" | South | С | MEC, hand auger 5/21/03 south side would found to 1 1000 W |
| • | CC 15C | 0"-9" | South | C | MEC, hand auger, 5/21/03, south side, remote from Creek, 1929 Edward Cove. Sample was mis-labeled as 1921. EPA, hand auger, 5/21/03, south side, remote from Creek, 1939 Edward Cove |
| 10,280 | CC 14C | 0"-9" | South | c | EPA, hand auger, 5/21/03, south side, remote from Creek, 1939 Edward Cove |
| 10,220 | 1930 Edward –A | 0"-9" | South | A | i e e e e e e e e e e e e e e e e e e e |
| 10,220 | 1930 Edward -B | 0"-9" | South | В | MEC, hand auger, 4/23/03, south side, within construction easement, 1930 Edward Ave. |
| 10,095 | CC 8A | 0"-9" | South | A | MEC, hand auger, 4/23/03, south side, outside construction easement, 1930 Edward Ave. |
| 10,095 | CC 8B | 0"-9" | South | В | EPA, hand auger, 5/20/03, south side, within construction easement, 1942 Edward Ave. |
| 10,030 | 1950 Edward –A | 0"-9" | South | A | EPA, hand auger, 5/20/03, south side, outside construction easement, 1942 Edward Ave. |
| 10,030 | 1950 Edward -B | 0"-9" | South | В | MEC, hand auger, 4/28/03, south side, within construction easement, 1950 Edward Ave. |
| 9,965 | CC 16A | 0"-9" | South | A | MEC, hand auger, 4/28/03, south side, outside construction easement, 1950 Edward Ave. |
| | CC 16B | 0"-9" | South | | EPA, hand auger, 5/21/03, south side, within construction easement, 1956 Edward Ave. |
| , i | CC 12A | 0"-9" | South | В | EPA, hand auger, 5/21/03, south side, outside construction easement, 1956 Edward Ave. |
| | CC 12B | 0-9 | South | A | EPA, hand auger, 5/21/03, south side, within construction easement, 1964 Edward Ave. |
| - 1 | 1970 Edward -A | 0"-9" | South | В | EPA, hand auger, 5/21/03, south side, outside construction easement, 1964 Edward Ave. |
| | 1970 Edward -B | 0-9 | South | A | MEC, hand auger, 4/23/03, south side, within construction easement, 1970 Edward Ave |
| | 1992 Edward –A | 0"-9" | - 1 | В | IMEC, hand auger, 4/23/03, south side, outside construction easement, 1970 Edward Ave |
| , , | 1992 Edward -B | 0"-9" | South | A | MEC, hand auger, 5/8/03, south side, within construction easement, 1992 Edward Ave |
| | | 09. | South | В | MEC, hand auger, 5/8/03, south side, outside construction easement, 1992 Edward Ave. |
| | 2116 Howell -B | 0"-9" | South | В | MEC, hand auger, 6/20/03, south side, outside construction easement, 2116 Howell Ave. apartments |
| | 2116 Howell -A | 0"-9" | South | Ā | MEC, hand auger, 6/20/03, south side, outside construction easement, 2116 Howell Ave. apartments |
| | 2134 No. Hubert Cr. –A | 0"- 9" | South | Ä | MEC, hand auger, 5/28/03, south side, within construction easement, 2116 Howell Ave. apartments |
| 8,320 | 2134 No. Hubert CrB | 0"- 9" | South | В | MEC, hand auger, 5/28/03, south side, outside construction easement, 2134 No. Hubert Circle |

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SAMPLE LOCATION DESCRIPTIONS

| Distance Downstream from Scott Street (approx. ft.) | Sample ID | Sample Depth | Side of Creek | Location with Respect to Construction Easement | Sample Notes |
|---|-------------------------|-----------------|------------------|---|---|
| 8,080 | 2150 Hubert Cl A | 0"-9" | South | A | MFC hand pages 6/10/02 and id. id. |
| 8,080 | 2150 Hubert Cl –B | 0"- 9" | South | В | MEC, hand auger, 6/10/03, south side, within construction easement, 2150 No. Hubert Circle |
| 7,770 | 2164 Hubert Cl A | 0"-9" | South | A | MEC, hand auger, 6/10/03, south side, outside construction easement, 2150 No. Hubert Circle |
| 7,770 | 2164 Hubert Cl -B | 0"-9" | South | В | MEC, hand auger, 6/4/03, south side, within construction easement, 2164 No. Hubert Circle |
| 7,600 | HA-1 | 0"-12" | South | A | MEC, hand auger, 6/4/03, south side, outside construction easement, 2164 No. Hubert Circle |
| | | ŀ | | | MEC, Geoprobe, 3/5/01, South bank of Cypress Creek, 18' West and 8' North of North-West Corner of Springdale Street Baptist Church lot, 2' South of South Retaining Wall, 1193 Springdale St. |
| 7,130 | 1190 Springdale west -A | 0"-9" | South | A | MRC hand unger 6/10/02 could be a south Retaining Wall, 1193 Springdale St. |
| 7,130 | 1190 Springdale west B | 0"-9" | South | В | MEC, hand auger, 6/20/03, south side, within construction easement, 1190 Springdale St., parking lot |
| 6,930 | 1190 Springdale east -A | 0"-9" | South | Ā | MEC, hand auger, 6/20/03, south side, outside construction easement, 1190 Springdale St., parking lot |
| 6,930 | 1190 Springdale east -B | 0"-9" | South | В | MEC, hand auger, 6/20/03, south side, within construction easement, 1190 Springdale St., open space east of parking lot |
| 6,560 | Springwood ~A | 0"-9" | South | Ã | MEC, hand auger, 6/20/03, south side, outside construction easement, 1190 Springdale St., open space east of parking lot |
| 6,560 | Springwood –B | 0"-9" | South | В | MEC, hand auger, 5/8/03, south side, within construction easement, at the end of abandoned Springwood Cove |
| 5,970 | 2304 Brown -A | 0"-9" | South | Ā | MEC, hand auger, 5/8/03, south side, outside construction easement, at the end of abandoned Springwood Cove |
| 5,970 | 2304 Brown –B | 0"-9" | South | В | MEC, hand auger, 7/2/03, south side, within construction easement, 2304 Brown Ave. |
| 5,530 | Syed SoA | 0"-9" | South | Ä | MEC, hand auger, 7/2/03, south side, outside construction easement, 2304 Brown Ave. |
| 5,530 | Syed SoB | 0"-9" | South | В | MEC, hand auger, 6/20/03, south side, within construction easement, Parcel ID 042-037-00164, north of Staten Ave. |
| | | 1 ' ' 1 | 550 | ь | MEC, hand auger, 6/20/03, south side, outside construction easement, Parcel ID 042-037-00164, north of Staten Ave. |
| 4,860 | 2402 Devoy –A | 0"-9" | South | A | MEC hard once 5/19/02 and the |
| | 2402 Devoy -B | 0"-9" | South | В | MEC, hand auger, 5/28/03, south side, within construction easement, 2402 Devoy St. |
| 4,680 | 1050 Dawes -A | 0"-9" | South | A | MEC, hand auger, 5/28/03, south side, outside construction easement, 2402 Devoy St. |
| 4,680 | 1050 Dawes -B | 0"-9" | South | B | MEC, hand anger, 5/28/03, south side, within construction easement, 1050 Dawes St. |
| 4,590 | 1042 Dawes -A | 0"-9" | South | Ā | MEC, hand auger, 5/28/03, south side, outside construction easement, 1050 Dawes St. |
| 4,590 | 1042 Dawes -B | 0"-9" | South | B . | MEC, hand auger, 5/28/03, south side, within construction easement, 1042 Dawes St. |
| 3,900 | T3-SB-1 | 0"-12" | South | A | MEC, hand auger, 5/28/03, south side, outside construction easement, 1042 Dawes St. |
| | | | | Α, | MEC, hand auger 3/9/01, 4' South and 4' West of South-most bridge railing, South bank of Cypress Creek |
| 3,670 | 2466 Vollintine –A | 0"-9" | South | A | |
| 3,670 | 2466 Vollintine –B | 0"-9" | South | В | MEC, hand auger, 6/10/03, south side, within construction easement, 2466 Vollintine Cove |
| 3,450 | 2482 Voluntine –A | 0"-9" | South | A | MEC, hand auger, 6/10/03, south side, outside construction easement, 2466 Vollintine Cove |
| 3,450 | 2482 Voluntine –B | 0"-9" | South | B | MEC, hand auger, 6/4/03, south side, within construction easement, 2482 Vollintine Cove |
| | · | | 502,00 | | MEC, hand auger, 6/4/03, south side, outside construction easement, 2482 Vollintine Cove |
| 2,470 | 928 Meagher –A | 0"-9" | South | A | MEC hand anger 6/4/03 south side with |
| | 928 Meagher –B | 0"-9" | South | В | MEC, hand auger, 6/4/03, south side, within construction easement, 928 Meagher St. |
| | 915 Bingham -B | 0"-9" | South | В | MEC, hand auger, 6/4/03, south side, outside construction easement, 928 Meagher St. |
| 2,140 | 915 Bingham -A | 0"-9" | South | | MEC, hand auger, 5/30/03, south side, outside construction easement, 915 Bingham St. |
| | CC 17A | 0"- 9" | South | Â | MEC, hand auger, 5/30/03, south side, within construction easement, 915 Bingham St. |
| 2,070 | CC 17B | 0"-9" | South | B | EPA, hand auger, 5/21/03, south side, within construction easement, 916 Bingham St. |
| 1,860 | 906 Russell –A | 0"-9" | South | A | EPA, hand auger, 5/21/03, south side, outside construction easement, 916 Bingham St. |
| 1,860 | 906 Russell –B | 0"-9" | South | В | MEC, hand auger, 6/10/03, south side, within construction easement, 906 Russell St. MEC, hand auger, 6/10/03, south side, outside construction easement, 906 Russell St. |

APPENDIX A SAMPLE LOCATION DESCRIPTIONS

| Distance Downstream from Scott Street (approx. ft.) | Sample ID | Sample Depth | Side of Creek | Location with Respect to Construction Easement | Sample Notes |
|---|-----------------|-----------------|------------------|--|--|
| • | 900 Russell –A | 0"-9" | South | A | MEC, hand auger, 6/4/03, south side, within construction easement, 900 Russell St. |
| · · | 900 Russell –B | 0"-9" | South | В | MEC, hand auger, 6/4/03, south side, outside construction easement, 900 Russell St. |
| | 892 Russell –A | 0"-9" | South | A | MEC, hand auger, 6/4/03, south side, within construction easement, 892 Russell St. |
| | 892 Russell –B | 0"-9" | South | В | MEC, hand auger, 6/4/03, south side, outside construction easement, 892 Russell St. |
| | 2620 Liberty –A | 0"-9" | South | A | MEC, hand auger, 6/10/03, south side, within construction easement, 2620 Liberty Ave. |
| | 2620 Liberty -B | 0"-9" | South | В | MEC, hand super 6/10/03 south side, within construction easement, 2620 Liberty Ave. |
| 1,100 | 1,100 T2-WB-1 | | South | A | MEC, hand auger, 6/10/03, south side, outside construction easement, 2620 Liberty Ave. MEC, Geoprobe, 3/5/01, 2' West of Sidewalk beneath Jackson Street Overpass on West side of Cypress Creek at access road bridge. |

Notes:

A is within construction easement

B is outside of construction easement

C is remote from Creek and not related to construction easement

Appendix B

Data Validation Report

FILE COPY

PREMIER

Environmental Services, Inc.

155 North Main Street, Suite 202 Collierville, TN 38017 Phone: (901) 850-5404 Fax: (901) 850-5144

MEMORANDUM

TO:

Gary Hermann

COMPANY:

Memphis Environmental Center, Inc.

FROM:

Joe Ricker

TOPIC:

Analytical Data Quality Assessment and Validation

Cypress Creek Sub-Area III

DATE:

August 27, 2003

The following details a data quality assessment and validation for 124 soil samples collected from the above referenced site over the sampling period of April 23, 2003 through July 2, 2003. Additional quality assurance/quality control (QA/QC) samples collected include seven field duplicates and five equipment rinse blanks. The analyses were conducted by GTW Analytical Services, LLC (GTW). The quality assurance criteria were established by the associated Sampling and Analysis Procedures (SAP) for Velsicol Chemical Corporation – Memphis, Tennessee, as revised in January 2001. All soil samples were analyzed for pesticides and moisture content using EPA method SW-846 3350B/8081A. A summary of analytical reports and corresponding sample numbers is included in Attachment A. Copies of the QA/QC summary provided by the laboratory and the chain-of-custody forms are included in Attachment B.

Sample Delivery

All samples were collected, transported, handled, and analyzed maintaining chain-of-custody protocols. Documentation relative to the collection of samples and laboratory analyses were listed on the chain-of-custody form that accompanied the samples to the laboratory. Upon review of the chain-of-custody forms, it is noted that the samples were received at the laboratory at proper temperatures and were properly preserved.

Holding Time Periods

The allowable holding time periods for pesticides analyses are 7 days from sample collection to extraction, and 40 days from extraction to completion of analysis. On the basis of the sample collection and analysis dates referenced on the chain-of-custody form and the analytical reports provided by GTW, the extractions and analyses were performed within the allowable holding times.

Laboratory Blank Analyses

Sample contamination contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. The method blank samples for all analyses yielded non-detectable concentrations of analytes of interest, indicating that no laboratory contamination occurred.

Surrogate Compound Percent Recovery

The recoveries of surrogate compounds are used to assess the individual sample performance achieved by the laboratory for organic analyses. Surrogate recoveries for all analyses were within control limits.

Blank Spike Analyses

The recoveries of blank spike analyses are used to assess the analytical accuracy achieved by the laboratory. As the blank spike analyses are independent of potential matrix effects, they give a true indication of the analytical accuracy achieved by the laboratory for the respective analyses performed. Blank spike analyses were within acceptable recovery limits for all analyses, indicating that acceptable levels of accuracy were achieved for these analytical methodologies.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

The recoveries of MS/MSD analyses are used to assess the analytical accuracy on an individual sample basis, while the relative percent difference (RPD) between the MS and the MSD indicates the analytical precision achieved for that sample. MS/MSD analyses were conducted on eight samples, thereby satisfying the SAP required frequency of one per 20 primary samples.

Due to the level of contamination in many of the samples and matrix interference, many MS and MSD recoveries were unavailable or outside acceptable recovery limits. A summary of the MS/MSD analyses are included in Attachment C. As

observed in Attachment C, there is no clear pattern of consistent MS/MSD recovery failures or RPD failures. For example, although the spiked compounds have numerous failures, there are also many acceptable MS or MSD recoveries. It is noted that both endrin and dieldrin had no valid recoveries for all MS/MSD analyses. According to notation provided by the laboratory, recovery was unavailable in all cases due to high concentration of the analyte in the samples that were spiked. Review of the spiked sample analytical data confirms that this assertion is correct.

As noted above, all blank spike samples were within acceptable recovery limits. If the MS/MSD failures were a result of laboratory systematic problems, there should be similar failures in blank spike samples. Based on this information and the known high level of contamination in many of the samples in this and previous site investigations, the MS/MSD failures are likely due to matrix interference and not due to laboratory systematic problems. As precision and accuracy of the laboratory cannot be measured on MS/MSD data alone and in light of other QA/QC data (i.e., acceptable blank spike and surrogate recoveries), no qualification of the data is necessary due to MS/MSD failure, other than the individual samples where MS/MSD failures occurred. In the instance where both the MS and MSD are outside acceptable recovery limits, or where the RPD was above the control limit, then the result for that analyte for the *spiked sample only* should be qualified as estimated and flagged "J".

Rinse Blank Analysis

Five equipment rinse blank samples were collected to verify the decontamination procedures employed during the sample collection event. Two analytes were detected in the rinse blank collected on May 8, 2003. Hexachlorocyclopentadiene and Octachlorocyclopentene were detected at levels of 0.29 μ g/l and 0.26 μ g/l, respectively. Neither of these compounds was detected, however, in any samples collected on this sampling date. Therefore, no qualification of the data is necessary. All results for the other four rinse blanks resulted in non-detect values.

Field Duplicate Analysis

In order to monitor the precision of the field sample collection procedures and the laboratory analytical methods, seven field duplicate samples were collected. A summary of the duplicate sample results compared to primary sample results, including RPD calculations, is included as Attachment D.

Based on a review of the RPD calculations in Attachment D, adequate precision was achieved. No qualification of the data is necessary due to field duplicate RPD failures, other than the specific samples in which the failure occurred (indicated by a bold value in Attachment D). If the RPD for any primary sample and its duplicate

is above the acceptable limit, then that sample should be qualified as estimated and flagged "J".

Miscellaneous Quality Assurance/Quality Control

Many sample results were qualified by the laboratory with a flag of "UC" and the notation that confirmation is not possible due to matrix interference. Results for these analyses should be qualified as estimated and flagged "J". Some sample results were qualified by the laboratory with a flag of "CK" and the notation that the percent difference in the calibration checks exceeded the 15% criterion for this analyte; however, method requirements were met. Results for these analyses should be qualified as estimated and flagged "J". Some results were qualified by the laboratory with a flag of "LB" and the notation that the PQL is raised due to laboratory background and some results were qualified by the laboratory with a flag of "PM" and the notation that the PQL is raised due to matrix interference.

Completeness

Completeness is a measure of the amount of valid data compared to the expected amount under normal conditions. In most cases, the reported concentration and associated quality control results indicate that the data are of sufficient quality. Some analytical results were qualified as estimated due to duplicate failures, MS/MSD failures, or reporting below the detection limit. The estimated data are usable as qualified. The completeness of the data collected during this period is 100%, which achieves the requirement of greater than 85%.

Attachment A
Laboratory Report and Sample ID Summary

| Report | Sample ID | Date Collected |
|----------|---------------------------|----------------|
| | 042303-DUP | 4/23/03 |
| | 042303-RB | 4/23/03 |
| | 1900EDWARD-A | 4/23/03 |
| | 1900EDWARD-B | 4/23/03 |
| | 1930EDWARD-A | 4/23/03 |
| R-230439 | 1930EDWARD-B | 4/23/03 |
| 1 | 1970EDWARD-A | 4/23/03 |
| | 1970EDWARD-B | 4/23/03 |
| · | VECA-A | 4/23/03 |
| ļ | VECA-B | 4/23/03 |
| | 042803-RB | 4/28/03 |
| İ | 1727GREENVIEW-A | 4/28/03 |
| | 1727GREENVIEW-B | 4/28/03 |
| | 1772EDWARD-A | 4/28/03 |
| | 1772EDWARD-B | 4/28/03 |
| | 1773GREENVIEW-A | 4/28/03 |
| 5 000450 | 1773GREENVIEW-B | 4/28/03 |
| R-230456 | 1787GREENVIEW-A | 4/28/03 |
| | 1787GREENVIEW-B | 4/28/03 |
| | 1858EDWARD-B | 4/28/03 |
| | 1867HUBERT-A | 4/28/03 |
| | 1867HUBERT-B | 4/28/03 |
| | 1950EDWARD-A | 4/28/03 |
| | 1950EDWARD-B | 4/28/03 |
| | 050803-DUP | 5/8/03 |
| | 050803-RB | 5/8/03 |
| | 1743GREENVIEW-A | 5/8/03 |
| | 1743GREENVIEW-B | 5/8/03 |
| [| 1754EDWARD-A | 5/8/03 |
| | 1754EDWARD-B | 5/8/03 |
| 4 | 1798EDWARD-A | 5/8/03 |
| R-230503 | 1798EDWARD-B | 5/8/03 |
| R-230303 | 1992EDWARD-A | 5/8/03 |
| | 1992EDWARD-B | 5/8/03 |
| | EVERGREEN-A | 5/8/03 |
| | EVERGREEN-B | 5/8/03 |
| • | SPRINGWOOD-A | 5/8/03 |
| | SPRINGWOOD-B | 5/8/03 |
| | TAX EDWARD-A | 5/8/03 |
| | TAX EDWARD-B | 5/8/03 |
| | 1721 GREENVIEW CIRCLE - A | 5/20/03 |
| R-230561 | 1721 GREENVIEW CIRCLE - B | 5/20/03 |
| K-230301 | 1921 EDWARD COVE - C | 5/21/03 |
| | 957 MEAGHER - A | 5/21/03 |

| Report | Sample ID | Date Collected | | |
|-----------|----------------------|----------------|--|--|
| | 052803-DUP | 5/28/03 | | |
| | 052803-RB | 5/28/03 | | |
| 1 | 1042 DAWES - A | 5/28/03 | | |
| | 1042 DAWES - B | 5/28/03 | | |
| 1 | 1050 DAWES - A | 5/28/03 | | |
| | 1050 DAWES - B | 5/28/03 | | |
| } | 2134 NO. HUBERT CR A | 5/28/03 | | |
| İ | 2134 NO. HUBERT CR B | 5/28/03 | | |
| R-230596 | 2402 DEVOY - A | 5/28/03 | | |
| K-230390 | 2402 DEVOY - B | 5/28/03 | | |
| | 2411 GENTRY - A | 5/28/03 | | |
| | 2411 GENTRY - B | 5/28/03 | | |
| İ | CITY ON DEVOY - A | 5/28/03 | | |
| } | CITY ON DEVOY - B | 5/28/03 | | |
| | HARRIS - A | 5/28/03 | | |
| | HARRIS - B | 5/28/03 | | |
| 1 | SYED NO A | 5/28/03 | | |
| | SYED NO B | 5/28/03 | | |
| | 1130 UNIVERSITY - A | 5/30/03 | | |
| | 1130 UNIVERSITY - B | 5/30/03 | | |
| | 2031 HUBERT - A | 5/30/03 | | |
| i | 2031 HUBERT - B | 5/30/03 | | |
| | 2061 HUBERT - A | 5/30/03 | | |
| | 2061 HUBERT - B | 5/30/03 | | |
| R-230606 | 2077 HUBERT - A | 5/30/03 | | |
| 11-230000 | 2077 HUBERT - B | 5/30/03 | | |
| | 2091 HUBERT - A | 5/30/03 | | |
| 1 | 2091 HUBERT - B | 5/30/03 | | |
| | 2101 HUBERT - A | 5/30/03 | | |
| | 2101 HUBERT - B | 5/30/03 | | |
| | 915 BINGHAM - A | 5/30/03 | | |
| | 915 BINGHAM - B | 5/30/03 | | |

| Report | Sample ID | Date Collected |
|-----------|---------------------|----------------|
| | 060403-DUP | 6/4/03 |
| ŀ | 060403-RB | 6/4/03 |
| | 1210 SPRINGDALE - A | 6/4/03 |
| İ | 1210 SPRINGDALE - B | 6/4/03 |
| | 2164 HUBERT CL - A | 6/4/03 |
| 1 | 2164 HUBERT CL - B | 6/4/03 |
| | 2482 VOLUNTINE - A | 6/4/03 |
| | 2482 VOLUNTINE - B | 6/4/03 |
| R-230625 | 892 RUSSELL - A | 6/4/03 |
| | 892 RUSSELL - B | 6/4/03 |
| ! | 900 RUSSELL - A | 6/4/03 |
| | 900 RUSSELL - B | 6/4/03 |
| | 928 MEAGHER - A | 6/4/03 |
| i | 928 MEAGHER - B | 6/4/03 |
| | 933 BINGHAM - B | 6/4/03 |
| | 948 MEAGHER - A | 6/4/03 |
| | 948 MEAGHER - B | 6/4/03 |
| | 061003-DUP | 6/10/03 |
| ľ | 1915 HUBERT - A | 6/10/03 |
|] | 1915 HUBERT - B | 6/10/03 |
| | 2150 HUBERT CL - A | 6/10/03 |
| İ | 2150 HUBERT CL - B | 6/10/03 |
| | 2289 DEXTER - A | 6/10/03 |
| | 2397 GENTRY - A | 6/10/03 |
| | 2397 GENTRY - B | 6/10/03 |
| R-230647 | 2403 GENTRY - A | 6/10/03 |
| 11-230047 | 2403 GENTRY - B | 6/10/03 |
| | 2466 VOLLINTINE - A | 6/10/03 |
| | 2466 VOLLINTINE - B | 6/10/03 |
| | 2620 LIBERTY - A | 6/10/03 |
| 7 | 2620 LIBERTY - B | 6/10/03 |
| | 906 RUSSELL - A | 6/10/03 |
| | 906 RUSSELL - B | 6/10/03 |
| | 920 B!NGHAM - A | 6/10/03 |
| | 920 BINGHAM - B | 6/10/03 |

| Report | Sample ID | Date Collected |
|-----------|--------------------------|----------------|
| | 062003-DUP | 6/20/03 |
| 1 | 1188 TUNICA - A | 6/20/03 |
| | 1188 TUNICA - B | 6/20/03 |
| | 1190 SPRINGDALE EAST - A | 6/20/03 |
| | 1190 SPRINGDALE EAST - B | 6/20/03 |
| | 1190 SPRINGDALE WEST - A | 6/20/03 |
| | 1190 SPRINGDALE WEST - B | 6/20/03 |
| R-230705 | 1793 GREENVIEW - A | 6/20/03 |
| | 1793 GREENVIEW - B | 6/20/03 |
| | 2116 HOWELL - A | 6/20/03 |
| • | 2116 HOWELL - B | 6/20/03 |
| | CITY ON TREZVANT - A | 6/20/03 |
| | COUNTY ON TREZVANT - B | 6/20/03 |
| } | SYED SO A | 6/20/03 |
| | SYED SO B | 6/20/03 |
| | 070203-DUP | 7/2/03 |
| ! | 1027 HOLLYWOOD - A | 7/2/03 |
| | 1027 HOLLYWOOD - B | 7/2/03 |
| | 2245 HUNTER - A | 7/2/03 |
| R-230753 | 2245 HUNTER - B | 7/2/03 |
| 17-230733 | 2263 SHASTA - A | 7/2/03 |
| | 2263 SHASTA - B | 7/2/03 |
| | 2304 BROWN - A | 7/2/03 |
| | 2304 BROWN - B | 7/2/03 |
| | MLGW - A | 7/2/03 |

Attachment B
QA/QC Summary Pages

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

FILE COPY

LABORATORY REPORT

Client Contact:

Gary Hermann

Project:

MEC

Report Date: Report No:

05/27/03 R-230439

Cypress Creek Sub-Area III

Sample(s) Type:

Soil

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary (Page 1 of 2):

| Type of Analysis | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike Recoveries | <u>Blanks</u> | Overall <u>Summ</u> ary |
|---------------------|-----------------------|---------------------|-------------------------|----------------------------|---------------|----------------------------|
| PESTICIDES | SW-846 3550B/8081A | A | A | À (N-1) | A | A (See N-1) |

N-1: As noted in the report one of the recoveries for Aldrin and Heptachlor was either unacceptable or unavailable due to matrix interferences. Due to the level of contamination that was present in the sample that was spiked, no valid recoveries could be determined for Dieldrin and Endrin; however, the blank spike had acceptable recoveries.

A = Requirements by method were met NA = Not applicable

QA Officer

Jerre C. Gray
Technical Manager

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

LABORATORY REPORT

Client Contact:

Gary Hermann

Project:

MEC

Report Date: Report No:

05/27/03 R-230439

Cypress Creek Sub-Area III

Sample(s) Type:

N-2:

Water

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary (Page 2 of 2):

| Type of Analysis | Method | Holding <u>Time</u> | Surrogate <u>Recoveries</u> | Matrix Spike Recoveries | <u>Blanks</u> | Overall <u>Summary</u> |
|---------------------|-----------------------|---------------------|--------------------------------|----------------------------|---------------|---------------------------|
| PESTICIDES | SW-846 3510C/8081A | A | Α | N-2 | A | A (See N-2) |

A blank spike was analyzed that had an acceptable recovery.

A = Requirements by method were met

NA = Not applicable

QA Officer

GTW ANALYTICAL SERVICES, LLC SUBMIT REPORT TO 3715 S. Perkins, Suite 7, Memphis, TN 38118 COMPANY: Memphis Environmental Center, Inc Telephone (901) 323-5554; FAX (901) 323-5573 CONTACT: Gary Hermann PROJECT.NO: ダ63 - ダ8 -ダ3 - ダダ CHAIN OF CUSTODY PROJECT NAME: RECORD Cypress Creek Sub-Area III SAMPLER'S SIGNATURE _ Mark Lusher NO. OF Containers A T (sign) REMARKS R SEQ. SAMPLE DATE TIME SAMPLE LOCATION NO. NO. 11/3 VECA-A 4/23/03 1 *Pesticides & 50il 1100 VECA 214 VECA-B 1130 VECA moisture content 042303- Dup 1115 per Memphis Plant 1930 Ednard 1930 Edual Ave 5 1315 1.017/1930 Edward 1340 1930 Edward Are 5 -R 1018 1970 Edward 1970 Edward Ave 1415 - A 1019 1970 Edward /435 1970 Educad Ave 15 - B 120 1900 Edward Ave S 1900 Edward 1520 12/1900 Edward 1540 1900 Edward Are 5 -B 22 042303-RB 4/23/03 1015 W 2 * Pesticides Rinsate Blank TOTAL NO. OF CONTAINERS -AELINQUISHED BY: DATE/TIME RECEIVED BY: 1600 (sign) RELINQUISHED BY: DATE/TIME RECEIVED BY: 4-23-03 4:45pm (sign) (sign) METHOD OF SHIPMENT RECEIVED FOR LABORATORY BY: SHIPPED BY: DATE/TIME Hand Detivered CONDITION OF SEAL UPON RECEIPT: COOLER OPENED BY: DATE/TIME ENERAL CONDITION OF COOLER:

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

FILE COPY

LABORATORY REPORT

Client Contact:

Gary Hermann

Project:

MEC

Report Date: Report No:

05/30/03 R-230456

Cypress Creek Sub-Area III

Sample(s) Type:

Soil

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary (Page 1 of 2):

| Type of Analysis | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike Recoveries | <u>Blanks</u> | Overall Summary | |
|---------------------|-----------------------|---------------------|-------------------------|-------------------------|---------------|--------------------|--|
| PESTICIDES | SW-846 3550B/8081A | A | A | N-1 | A | A (See N-1) | |
| MOISTURE CONTENT | SW-846 3550B | NA | NA | NA | NA | A | |

N-1: Recoveries were unavailable due to dilution; however, the blank spike had acceptable recoveries.

A = Requirements by method were met

NA = Not applicable

QA Officer

Jerri C. Atay
Technical Manager

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

LABORATORY REPORT

Client Contact:

Gary Hermann

Project:

MEC

Report Date:

05/30/03

Report No:

R-230456

Sample(s) Type:

N-2:

Cypress Creek Sub-Area III Water

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary (Page 2 of 2):

| Type of Analysis | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike Recoveries | <u>Blanks</u> | Overall <u>Summary</u> |
|---------------------|-------------------------|------------------------|-------------------------|-------------------------|---------------|---------------------------|
| PESTICIDES | SW-846 3510C/8081A A | | A | N-2 | A | A (See N-2) |

A blank spike was analyzed that had an acceptable recovery.

A = Requirements by method were met NA = Not applicable

OA Officer

GTW ANALYTICAL SERVICES, LLC SUBMIT REPORT TO 3715 S. Perkins, Suite 7, Memphis, TN 38118 COMPANY: Memphis Environmental Center Inc CONTACT: Gary Hermann 23045 Telephone (901) 323-5554; FAX (901) 323-5573 PROJECT NO: CHAIN OF CUSTODY #003-68-03-00 Cypress Creek Sub-Area III RECORD SAMPLER'S SIGNATURE Mark Luck NO. OF (sign) REMARKS SEQ. SAMPLE DATE TIME SAMPLE LOCATION NO. NO. 1046 1858 Edward 4/28/03 1858 Edward Ave. 5 850 Pesticides and soil moisture - B content per Memphis 1047 1950 Educad 1950 Edward Ave. S 920 Plant SAP 1048 1950 Edward 935 11 11 - B 049 1867 Hubert 1867 Hubert Ave S 1005 1050 1867 Hubert 1025 1 105/1727 Greenview 1727 GRENVIEW Cir S 1100 1052 1727 Greenview 1120 1 1 5 1053 1773 Greenvien 1315 1773 Greenview Cir 5 -A 54 1773 Greenvie 1335 11 *t* : -R 55 17876 recevieu 1405 1787 Greenview Cir. 5 ~A "56 178 76 mensie 1425) (5 -B557 1772 Edward - A 1772 Edward Are. 1455 5 58 1772 Edward - B 1515 E1 159 1042803 - RB 800 Rinsate Blank W 2 Pesticides per Memphis SAP ? TOTAL NO. OF CONTAINERS -TELINQUISHED BY: DATE/TIME RECEIVED BY: Much du /53v ..ELINQUISHED BY: DATE/TIME RECEIVED BY: (sign) (sign) NETHOD OF SHIPMENT: SHIPPED BY: RECEIVED FOR LABORATORY BY: DATE/TIME Gary Hermann Hard Delivered 4-28-03/420PM (MEC) ONDITION OF SEAL UPON RECEIPT: COOLER OPENED BY: DATE/TIME NERAL CONDITION OF COOLER: On Ice 4-28-63/4:20PM

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

LABORATORY REPORT

FILE COPY

Client Contact:

Gary Hermann

Project:

MEC

Report Date: Report No:

05/30/03 R-230503

Cypress Creek Sub-Area III

Sample(s) Type:

Soil

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary (Page 1 of 2):

| Type of Analysis | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike <u>Recoveries</u> | Blanks | Overall Summary | |
|---------------------|-----------------------|---------------------|-------------------------|--------------------------------|--------|-----------------|--|
| PESTICIDES | SW-846 3550B/8081A | Α | A | N-1 | A | A (See N-1) | |
| MOISTURE CONTENT | SW-846 3550B | NA | NA | NA | NA | A | |

N-1: These samples were analyzed as part of a larger set which included matrix spikes. Recoveries were unavailable due to dilution; however, the blank spike had acceptable recoveries.

A = Requirements by method were met

NA = Not applicable

QA Officer

Jerri C. Lay
Technical Manager

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

LABORATORY REPORT

Client Contact:

Gary Hermann

Project:

MEC

Report Date: Report No:

05/30/03 R-230503

Cypress Creek Sub-Area III

Sample(s) Type:

Water

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary (Page 2 of 2):

| Type of Analysis | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike <u>Recoveries</u> | Blanks | Overall <u>Summary</u> |
|---------------------|-----------------------|------------------------|-------------------------|--------------------------------|--------|---------------------------|
| PESTICIDES | SW-846 3510C/8081A | A | Α | N-2 | A | A (See N-2) |

N-2: A blank spike was analyzed that had an acceptable recovery.

A = Requirements by method were met NA = Not applicable

QA Officer

GTW ANALYTICAL SERVICES, LLC SUBMIT REPORT TO COMPANY: Memphis Environmental Center, Inc 3715 S. Perkins, Suite 7, Memphis, TN 38118 Telephone (901) 323-5554; FAX (901) 323-5573 CONTACT: Gary Hermann 230503 PROJECT NAME: PROJECT.NO: CHAIN OF CUSTODY 003-08-03-00 RECORD Cypress Creek Sub-Area TIT SAMPLER'S SIGNATURE Mark Lucks REMARKS SEO. SAMPLE DATE TIME SAMPLE LOCATION NO. NO. Evergreen - A 5/8/03 840 Evergreen (H.H.) * Pesticides of Soil Maisture 13 Evergreen - B 900 Content per Memphis 144 1754 Edna d-A 925 1754 Edward Ave. Plant SAP 15 1754 Eduard - B 945 146 1798 Edward A 1010 1798 Edward 47 1798 Edward B 1030 48 Tax Edward-A 113c (Tax) 49 Tax Edward-B 1150 l ı 50 17436 reenview-A 1340 1743 Greenview Cir 15/ 17436-reenview-B 1410 52050803-0UP 1350 53 Springwood - A 1500 Springwood 154 Springwood-B 1520 55 1992 Edward-1 1600 156 1992 Edward -B 1620 050803-RB 5/8/03 W 2 Perticides per Menph 3 SAP Dh. 815 River TOTAL NO. OF CONTAINERS -RELINQUISHED BY: DATE/TIME RECEIVED BY: 1630 RELINQUISHED BY: DATE/TIME RECEIVED BY: 5-9.03 7:45am (sign) (sign) METHOD OF SHIPMENT: RECEIVED FOR LABORATORY BY SHIPPED BY: DATE/TIME Hand Delivere & Gary Hermann (sign), CONDITION OF SEAL UPON RECEIPT: COOLE DATE/TIME **ENERAL CONDITION OF COOLER:** (sign)

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

FILE COPY

LABORATORY REPORT

Client Contact:

Gary Hermann

Cypress Creek

Project:

MEC

Report Date:

06/23/03

Report No:

R-230561

Sample(s) Type:

Soil

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary:

| Type of Analysis | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike Recoveries | <u>Blanks</u> | Overall <u>Summary</u> | |
|---------------------|-----------------------|---------------------|-------------------------|----------------------------|---------------|---------------------------|--|
| PESTICIDES | SW-846 3550B/8081A | A | A | A (N-1) | A | A (See N-1) | |
| MOISTURE CONTENT | SW-846 3550B | NA | NA | NA | NA | A | |

N-1: The recoveries for Aldrin and Heptachlor were unacceptable due to matrix interferences. Due to the level of contamination that was present in the sample that was spiked, no valid recoveries could be determined for Dieldrin and Endrin. However, the blank spike had acceptable recoveries.

A = Requirements by method were met NA = Not applicable

OA Office

| | Halle Difference | | | | | 8:15 AM |
|--|--------------------------------|-----------------------------|--|-----------------------------------|---|-------------------------------------|
| RTTO: Gery Werman MAME: | REMARKS (ANALYSES, ETC.) | Perticists and soil moritue | * | 17 | /: DATE/TIME: | DATE/TIME: 5-22-03/ DATE/TIME: // |
| SUBMIT REPORT TO: COMPANY: CONTACT: PROJECT NAME: | MATRIX NO. OF CONTAINERS | 2 2 | | _ | RELINQUISHED BY | JOON WE ONLY! |
| SERVICES, LLC. SERVICES, LLC. MEMPHIS, TN 38118 FAX 901-323-5573 COM | TIME SAMPLE FOCATION TO NO. | new Chele-A | 5-21-03 10:45 cm 1921 Edward Corre - C S | 5-21-03 2:25pm 957 Meagher - 1A S | RELINQUISHED BY: Cam H-Ruman- S-22-63 8:15-am METHOD OF SHIPMENT: SHIPPED BY. | SEAL |

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

LABORATORY REPORT

FILE COPY

Client Contact:

Gary Hermann

Project:

MEC

Cypress Creek

Sample(s) Type:

Soil

Report Date: Report No:

06/23/03

R-230596

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary:

| Type of Analysis | <u>Method</u> | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike <u>Recoveries</u> | <u>Blanks</u> | Overall <u>Summary</u> | |
|---------------------|-----------------------|---------------------|-------------------------|--------------------------------|---------------|---------------------------|--|
| PESTICIDES | SW-846 3550B/8081A | A | Α | A (N-1) | A | A (See N-1) | |
| MOISTURE CONTENT | SW-846 3550B | NA | NA | NA | NA | A | |

N-1: As noted in the report, some of the recoveries were unacceptable due to matrix interferences. Due to the level of contamination that was present in the sample that was spiked, no valid recoveries could be determined for 4,4'-DDT, Dieldrin and Endrin. However, the blank spike had acceptable recoveries.

A = Requirements by method were met NA = Not applicable

QA Officer

| , 37 | TW ANALYTIC. 715 S. Perkins, Su elephone (901) 323 | | CON | ATD A BT | v. M. | TTO emphi? En | evironmental | Center, Inc | | |
|--------|--|------------------|-------------|------------------|------------|------------------|--------------|-------------|---------------|---|
| 1 | | ****** | | PROJECT NO: | COL | HAC | JECT N | sary ne | -t mann | 270596 |
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| EQ. | SAMPLE | T | (sign) | - T | | | n 5 | <u> </u> | REMARKS | |
| HO. | NO. | DATE | TIME | SAMPLE LO | CATION | | x ≥ 5 | 3 | | |
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| . 学 | CrA | | | | | | | 1 | t per Men | |
| | 2134No Hubert | | 930 | 11 1 | / | // 5 | 5 / | 544 | | 7 |
| | CrB | | | | | | | . , | | |
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| 133 | Harris-B | | 1040 | 11 | | 5 | 7 / | | - | |
| 337 | SyedNoA | | 1105 | Syel A | 100th | Z | 1 / | | | |
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| | 2402 Devoy-1 | | 1410 | 17 | 11 | S | / | | | |
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| | 1050 Dawes- | | 1640 | 14. 1 | | ร | 1 | V | $\overline{}$ | |
| 1 | 1 | | | | ** | | | , <u></u> - | | |
| 50 | 052803-R8 | 5/28/63 | 830 | Rinsate Bla | nk- | M | 2 | Pesticida | sper Memp | 1 = 54 B |
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| | l delivered | | | | | 7.7 | 1/2 | | DATE/ | |
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| רוםאס | TION OF SEAL UPON | RECEIPT: | _ | CO | OLER O | PENED | BY: | · | DATE/1 | TIME |
| ENER | AL CONDITION OF C | DOLER: C | n Ice | _ (si | gn) | Let | 17 | orrer | ſ | 18:48 AM |
| | | | | | | | | | | <u>, , , , , , , , , , , , , , , , , , , </u> |

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

FILE COPY

LABORATORY REPORT

Client Contact:

Gary Hermann

Project:

MEC

Report Date: Report No: 06/24/03 R-230596-A

Cypress Creek Sub-Area III

Sample(s) Type:

Water

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary:

| Type of Analysis | <u>Method</u> | Holding Surrogate Time Recoveries | | Matrix Spike <u>Recoveries</u> | Blanks | Overall <u>Summary</u> |
|---------------------|-----------------------|-----------------------------------|---|--------------------------------|--------|---------------------------|
| PESTICIDES | SW-846 3510C/8081A | A | A | N-1 | A | A (See N-1) |

A blank spike was analyzed that had an acceptable recovery.

A = Requirements by method were met

NA = Not applicable

QA Officer

Lave Blood in

| 37. | TW ANALYTIC 15 S. Perkins, S lephone (901) 32 | uite 7, Mer | aphis, TN 381 | 18 5573 | CO | MIT RE | 7. Mo. | mahis For | vironmental | Center, In 2305-9 |
|-------------|---|-----------------|---------------------------------------|---------------------------------------|---------------------------------------|------------------|--|---------------------------------------|--|----------------------|
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| *** | CrB | | | | | Ī | | | | |
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| | 050 Dawes- | | 1640 | 11 | (t | S | 7 | \ | 1/ | |
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| | 2 / ld | y Her | rem | 5-29-6 | | ne | CEIVE | | | |
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| 1 Tana | belivered | . | Gary H | ermann | (sign) | With | H | Tool | | |
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| | CONDITION OF C | • | n Ia | | (sign) | _ ^ | | over | DATE/T - <i>6-2</i> 9-63 | 18:48 AM |
| | | | | | | <u> </u> | | | // | <u> </u> |

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

LABORATORY REPORT

FILE COPY

Client Contact:

Gary Hermann

Project:

MEC

Report Date: Report No:

06/23/03 R-230606

Cypress Creek Sub-Area III

Sample(s) Type:

Soil

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary:

| Type of Analysis | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike Recoveries | <u>Blanks</u> | Overall <u>Summary</u> |
|---------------------|-----------------------|---------------------|-------------------------|-------------------------|---------------|---------------------------|
| PESTICIDES | SW-846 3550B/8081A | A | Α | A (N-1) | A | A (See N-1) |
| MOISTURE CONTENT | SW-846 3550B | NA | NA | NA | NA | A |

These samples were analyzed as part of a larger set which included matrix spikes. Recoveries were N-1: acceptable except for 4,4'-DDT, Dieldrin, and Endrin, which were unavailable due to the level of contamination that was present in the sample that was spiked; however, the blank spike had acceptable recoveries.

A = Requirements by method were met NA = Not applicable

OA Officer

| 31 | TW ANALYTICA 715 S. Perkins, Sui elephone (901) 323 | te 7, Memph | is, TN 3811 | | CO | MIT RI MPAN NTAC | Y: 11 | emp | his Envi Herma | ronne | tal Center |
|-----------|---|------------------------|-----------------|---------------------|--------------|------------------------|----------|---------------|---------------------------------------|---------------|------------|
| | REC | CUSTODY ORD | · | # 003 - 0 03 - 0 | 8 - | 1 | IECT NA | ME: | k Sub- | | D . |
| SA | MPLER'S SIGNATURE | M | nsh Z (sign) | ush | | | NO. OF | | 1 | REMARKS | 3 |
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| , , | 2077 (tube+B) 915 Bingham-A | | 1200 | 915 0 | · 1 | <u> 5</u> | <u> </u> | | | | |
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| , , | 2091 Hbert-A | - [| 1220 1400 | | Hubert | S | | | · · · · · · · · · · · · · · · · · · · | | |
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| an | d Delivery | | Garyl | termann | (sign) 2 | eñl. | Fo | ove | _ 5 | | 3/4:02 pg |
| | ION OF SEAL UPON F | | | | COOLER O | PENED | BY: | | | DATE/ | TIME |
| ERV | AL CONDITION OF CO | OLER: Oh | Ice | | (sign) | Teil | <u> </u> | ow | <u>≤</u> <u>5</u> | -30-03 | 14:02 pm |

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

FILE COPY

LABORATORY REPORT

Client Contact:

Gary Hermann

Cypress Creek Sub-Area III

Project:

MEC

Report Date:

07/02/03

Report No:

R-230625

Sample(s) Type:

Soil

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary (Page 1 of 2):

| Type of Analysis | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike <u>Recoveries</u> | <u>Blanks</u> | Overall Summary |
|---------------------|-----------------------|---------------------|-------------------------|-----------------------------------|---------------|--------------------|
| PESTICIDES | SW-846 3550B/8081A | A | A | A (N-1) | A | A (See N-1) |
| MOISTURE CONTENT | SW-846 3550B | NA | NA | NA | NA | A |

N-1: Due to the level of contamination that was present in the sample that was spiked, no valid recoveries could be determined for Dieldrin and Endrin. The recoveries for Aldrin and Hepatchlor were either unacceptable or unavailable due to matrix interferences. However, the blank spike had acceptable recoveries.

A = Requirements by method were met

NA = Not applicable

QA Officer

Jerry C. Gray
Technical Manager

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

LABORATORY REPORT

Client Contact:

Gary Hermann

Cypress Creek Sub-Area III

Project:

MEC

Report Date:

07/02/03

Report No:

R-230625

Sample(s) Type:

Water

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary (Page 2 of 2):

| Type of <u>Analysis</u> | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike Recoveries | <u>Blanks</u> | Overall Summary |
|----------------------------|-----------------------|------------------------|-------------------------|----------------------------|---------------|--------------------|
| PESTICIDES | SW-846 3510C/8081A | Α | A | N-2 | A | A (See N-2) |

N-2: A blank spike was analyzed that had an acceptable recovery.

A = Requirements by method were met

NA = Not applicable

OA Officer

GTW ANALYTICAL SERVICES, LLC SUBMIT REPORT TO COMPANY: Memphis Environmental Center 3715 S. Perkins, Suite 7, Memphis, TN 38118 Telephone (901) 323-5554; FAX (901) 323-5573 CONTACT: Gary Hermann 230623 PROJECT.NO: PROJECT NAME: CHAIN OF CUSTODY #003-08-03-00 Cypress Creek Sub-ArenIII RECORD SAMPLER'S SIGNATURE Mark Lus for NO. OF (sign) REMARKS EQ. SAMPLE DATE I TIME SAMPLE LOCATION NO. 146 2482 Voluntine 6/4/03 845 2482 Voluntine Pesticides of Soil moisture -A Content per Memphis 1417 2482 Voluntine B 905 Plant SAP 88 933 Bingham - B 933 940. 1719 948 Meagher - A 1010 420 948 Meagher-B 1030 1 928 Meagher A 928 Meagher 1130 422 928 Meagher B 1150 S 3/892 Russell-A 1240 892 Russell 424 892 Russell-B 1300 45 900 Russell-A 1320 900 Russell 6 900R USSEll-8 1340 (127 2164 Hubert Cl-A 1420 2164 Hubert Circle 8 2164 Hubert CI-B 1440 129 060403- DUP 1450 10/210 Springdale -1210 Springdale 1505 31 1210 Springdale 1525 4060403-RB 815 Rinsate Blank Pesticides per Memphis SAP TOTAL NO. OF CONTAINERS --LINQUISHED BY: DATE/TIME RECEIVED BY: 1 Mark Lish ELINQUISHED BY: DATE/TIME RECEIVED BY: 6-4-13 4123 pm (sign) ETHOD OF SHIPMENT: SHIPPED BY: RECEIVED FOR LABORATORY BY: DATE/TIME "fand belivery Gary Hermann NOITION OF SEAL UPON RECEIPT: COOLER OPENED BY: **ERAL CONDITION OF COOLER:**

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

LABORATORY REPORT

FILE COPY

Client Contact:

Gary Hermann

Project:

MEC

Report Date:

07/11/03

Report No: Cypress Creek Sub-Area III

R-230647

Sample(s) Type:

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary:

| Type of <u>Analysis</u> | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike <u>Recoveries</u> | <u>Blanks</u> | Overali <u>Summary</u> |
|----------------------------|-----------------------|------------------------|-------------------------|-----------------------------------|---------------|---------------------------|
| PESTICIDES | SW-846 3550B/8081A | A | A | A (N-1) | Α | A (See N-1) |
| MOISTURE CONTENT | SW-846 3550B | NA | NA | NA | NA | A |

Recoveries for 4,4'-DDT were unavailable due to matrix interferences. Due to the level of N-1: contamination that was present in the sample that was spiked, no valid recoveries could be determined for Aldrin, Dieldrin, Endrin, and Heptachlor. However, the blank spike had acceptable recoveries.

A = Requirements by method were met NA = Not applicable

OA Officer

GTW ANALYTICAL SERVICES, LLC SUBMIT REPORT TO 3715 S. Perkins, Suite 7, Memphis, TN 38118 COMPANY: Memphis Environmental Center CONTACT: Gary Hermann 230647 Telephone (901) 323-5554; FAX (901) 323-5573 PROJECT NO: PROJECT NAME: CHAIN OF CUSTODY Cypress Creek Sub-Area III 003-08-03-00 RECORD SAMPLER'S SIGNATURE Mark Lucker NEAS A T REMARKS NO. OF CONTAIN ΞQ. SAMPLE DATE TIME SAMPLE LOCATION ..0. 147742150HubertCL A 6/10/03 Pesticides and soil moisture 835 2150 Hubert Circle 2 75 06/003- bup 845 content per Memphis 2 1476 2150 Hubert CL-B 2150 Hubert Circle 855 Plant SAP. 77 1915 Hubert -A 920 1915 Hubert 779 1915 Hubert-B 940 1179 2289 Dexte-A 1005 7784 Dexter 80 2403 Gentry-A 1055 2403 481 2403 Gentry-B. 1115 1223976entry-A 1135 2397 5 483 3397 Genty-B 1150 "942466 Vollintine A 1240 2466 Vollintine 52466Vollisting-B 1300 486 920 Bingham- K 920 Bingham 1350 7 920 Bingham-B 1410 188 906 Russell-A 906 Russell 1435 99906 RUSSEll-B 1455 11 11 0 2620Liberty-B 520 Liberty 2620 1 191 2620Liberty-A /54 o 5 \checkmark TOTAL NO. OF CONTAINERS -LINQUISHED BY: DATE/TIME RECEIVED BY: 1555 / 6/10/03 ELINQUISHED BY: DATE/TIME RECEIVED BY: 6-11-03 7:55am (sign) (sign) ETHOD OF SHIPMENT: RECEIVED FOR LABORATORY BY: SHIPPED BY: DATE/TIME belivery Gary Hermann 16-11-03 1:55 AM INDITION OF SEAL UPON RECEIPT: COOLER OPENED BY DATE/TIME IERAL CONDITION OF COOLER:

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

FILE COPY

LABORATORY REPORT

Client Contact:

Gary Hermann

Project:

MEC

Report Date: Report No:

07/15/03 R-230705

Cypress Creek Sub-Area III

Sample(s) Type:

Soil

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary:

| Type of Analysis | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike <u>Recoveries</u> | Blanks | Overall <u>Summary</u> |
|---------------------|-----------------------|---------------------|-------------------------|-----------------------------------|------------|---------------------------|
| PESTICIDES | SW-846 3550B/8081A | A | A | A (N-1) | , A | A (See N-1) |
| MOISTURE CONTENT | SW-846 3550B | NA | NA | NA | NA | A |

As noted in the report, some recoveries were unacceptable due to matrix interferences. Due to the N-1: level of contamination that was present in the sample that was spiked, no valid recoveries could be determined for Dieldrin and Endrin. However, the blank spike had acceptable recoveries.

A = Requirements by method were met

NA = Not applicable

QA Officer

| 3715 S. Perkins, Suite 7, Memphis, TN 38118 Telephone (901) 323-5554; FAX (901) 323-5573 CHAIN OF CUSTODY RECORD PROJECT NO: O3-08-03-00 PROJECT NAME: Cypress Creek Sub-Area TII |
|--|
| CHAIN OF CUSTODY PROJECT NO: PROJECT NAME: RECORD PROJECT NAME: Cypress Creek Sub-Area TII |
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| SAMPLER'S SIGNATURE Wash Luchs (sign) EQ. SAMPLE DATE TIME SAMPLE LOCATION NO. DATE TIME SAMPLE LOCATION X 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| .:0. NO. DATE TIME SAMPLE LOCATION 기보증 |
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| 29 County on Trezvant-B 1345 County Prop. Trezvants 1 |
| 10062003- Dup 1355 S1 |
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| You |
| TOTAL NO. OF CONTAINERS - 17 |
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| 1 Mark dusk |
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| ELINQUISHED BY: DATE/TIME RECEIVED BY: |
| 2 (sign) 3 |
| (Sign) |
| ETHOD OF SHIPMENT: SHIPPED BY: RECEIVED FOR LABORATORY BY: DATE/TIME |
| and Delivered Gary Hermann (sign) Ilri C Stag 6/20/03 4/8m |
| INDITION OF SEAL UPON RECEIPT: COOLER OPENED BY: |
| ERAL CONDITION OF COOLER: OF /CC) (Sign) Jerry C. Ling) (6/20/173 4/2) |

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

LABORATORY REPORT

FILE COPY

Client Contact:

Gary Hermann

Cypress Creek Sub-Area III

Project:

MEC

Report Date:

07/25/03

Report No:

R-230705-A

Sample(s) Type:

N-1:

Water

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary:

| Type of Analysis | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike <u>Recoveries</u> | Blanks | Overall <u>Summary</u> |
|---------------------|-----------------------|---------------------|-------------------------|-----------------------------------|--------|---------------------------|
| PESTICIDES | SW-846 3510C/8081A | A | A | N-1 | A | A (See N-1) |

A blank spike was analyzed that had acceptable recoveries.

A = Requirements by method were met

NA = Not applicable

QA Officer

| TCHAIN OF CUSTODY CHAIN OF CUSTODY RECORD CHAIN OF CUSTODY RECORD PROJECT NOT: PROJECT NAME: CYPTEST CYCEK SUM-Area III AMPLES SIGNATURE Mark Time SAMPLE SAMPLE TIME SAMPLE COLOTION SES PROJECT NAME: CYPTEST CYCEK SUM-Area III AMPLES SIGNATURE Mark Time SAMPLE COLOTION SES PROJECT NAME: CYPTEST CYCEK SUM-Area III REMARKS RE | 37 | TW ANALY II 715 S. Perkins, elephone (901) 3 | Suite 7, Me | mphis, TN 38 | 118 -5573 | CO | MIT I | NY | : M | emphis E | Envir | nnente | · Center |
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| West - 8 1020 1190 Springhole East 5 | 2 | 1190Springde | le | 1000 | 11 | (1 | te e | त | 7 | | | - | |
| | _ | West - B | | | | | | 7 | - 1 | | | | |
| | 3 | 11905pringda | 6 | 102- | 119050 | 41. | | + | <i>f-</i> | | | | |
| 1905pringlab | | Fact - A | | | 11102617 | Jack E | 15+ | 2 | -/ | + | —. | | |
| East - B | -14 | 19050 Gradal | | 1040 | 1. | 7 1 | <u> </u> - | _ | 7 | | | | |
| 1130 1188 Tonica S / 1188 Tonica S / 1188 Tonica S / 1188 Tonica B 1150 1 | Ï | | | 1048. | _ | _ | ' | <u> </u> | | | · · | <u>.</u> | |
| 1987 1987 1150 1 | 25/ | | | 110 | 1,00 | | | - | <u> </u> | | | | <u> </u> |
| 17 2116 Howell-A 1255 2116 Howell 5 1 2116 Howell-B 1315- 1 | | | | | | rice | | | <i>[</i>] | | | | <u></u> |
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| County on Trezvant - B 1345 County Page Trezvant S 1 10 062003 - Dup 1355 City on Trezvant - A 1405 City Page Trezvant S 1 2 Syed So A 1440 Syed South S 1 Syed So B W 1500 1. (1 S 1) FOG 2003 - RB 6/2003 815 Riasake Blank W 2 Pesticides per Manghis SAP AND ALL OF CONTAINERS - 17 I Much Lub 1 (sign) DATE/TIME RECEIVED BY: 2 (sign) 10 OF SHIPMENT: SHIPPED BY: A COOLER OF ENEL BY: COOLER OF SEAL UPON RECEIPT: A 1 COOLER OF ENEL BY: COOLER OF SEAL UPON RECEIPT: A 1 COOLER OF ENEL BY: COOLER OF SHEEL BY: COOLER | - 1 | | | | | | _ ≤ | | 1 | | | 7 | |
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| TOTAL NO. OF CONTAINERS — 17 VQUISHED BY: 1 Mark Luch (sign) (sign) DATE/TIME RECEIVED BY: 2 (sign) DATE/TIME RECEIVED BY: 3 (sign) COOLER OPENED BY: DATE/TIME PEGILIZATES PET Tamph'S SAFF PHO 166-6 TOTAL NO. OF CONTAINERS — 17 PHO 166-6 TOTAL NO. OF CONTAINERS — 17 PHO 166-6 TOTAL NO. OF CONTAINERS — 17 PHO 166-6 TOTAL NO. OF CONTAINERS — 17 PHO 166-6 TOTAL NO. OF CONTAINERS — 17 TOTAL NO. OF CONTA | | | • | | | | | | 1 | | | | |
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| OD OF SHIPMENT: SHIPPED BY: Cooler Opened BY: Co | | . • | | | 6/20/03 | 1520 | | | | 2, | 10a | <u>m_ // /</u> | man |
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| without Schwered Gary Hermann (sign) Jerry C May 6/20/03 4/Pm COOLER OPENED BY: COOLER OPENED BY: | 00 | OF SHIPMENT: | | SHIPPED BY: | | RECEIVED | FOR L | ARO | DATO | DV DV. | | - | |
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NO.

3715 S. Perkins, Suite 7 Memphis, Tennessee 38118 (901) 323-5554

FILE COPY

LABORATORY REPORT

Client Contact:

Gary Hermann

Project:

MEC

Report Date: Report No:

08/11/03 R-230753

Cypress Creek Sub-Area III

Sample(s) Type:

Soil

All sample results reported on an "as-received" basis unless otherwise indicated.

Quality Assurance Summary:

| Type of <u>Analysis</u> | Method | Holding <u>Time</u> | Surrogate Recoveries | Matrix Spike <u>Recoveries</u> | Blanks | Overall Summary |
|----------------------------|-----------------------|---------------------|-------------------------|--------------------------------|--------|--------------------|
| PESTICIDES | SW-846 3550B/8081A | A | A | A (N-1) | A | A (See N-1) |
| MOISTURE CONTENT | SW-846 3550B | NA | NA | NA | NA | A |

N-1: As noted in the report, one of the recoveries was unacceptable due to matrix interferences for Aldrin and Heptachlor. Due to the level of contamination that was present in the sample that was spiked, no valid recoveries could be determined for Dieldrin and Endrin. However, the blank spike had acceptable recoveries.

A = Requirements by method were met NA = Not applicable

cux 1100vc

OA Officer

| 37 | TW ANALYTICA 15 S. Perkins, Sui elephone (901) 323 | ite 7, Mer | nphis, TN 381 | 18 5573 | SUI | BMIT F OMPAN ONTAC | REPO NY: CT: | ORT Ma | ETO 23075: emphis Environmental Center ary Hermann |
|------------|--|--|--|---------------------------------------|--------------|--------------------------|--|------------|--|
| · <u>-</u> | CHAIN OF Rec | CUSTO | DY | PROJECT.NO | : ?-03-00 | | DJECT Pre | | ME: Creek Sub-Area III |
| SAI | MPLER'S SIGNATUR | E M | lash Z (sign) | inh | · | _ | M A T | CONTAINERS | REMARKS |
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| | 12Ma | rk 2 | who | 1 // | E/TIME | | HECE | EIVEI | D BY: |
| | · | (sig | iu) | 7/2/0. | 3 120 | ٥ | | | (sign) |
| Linc | INQUISHED BY: DATE/TIME RECEIVED BY: | | | | | | | | |
| | 2 All Harman 7-2-03 150pm 3 (sign) | | | | | | | | |
| THO | D OF SHIPMENT: | · · · · · · · · · · · · · · · · · · · | SHIPPED BY: | · | RECEIV | ED FOR L | LABO | RATO | |
| tar | I belive | red | Gan | Herman | (sign) | Terr | υC | , رير | Gray 7/2/03 150 |
| דומא | ION OF SEAL UPON | RECEIPT: | ,) ' | | COOLER | OPENEL | D BY: | | DATE/TIME |
| ERA | L CONDITION OF CO | OOLER: | BRI L | رو٠ | (ngis) | , | _ | <u>n</u> | - Shart-63 /Pm |

Attachment C Summary of MS/MSD Analyses

Summary of MS/MSD Analyses Cypress Creek Sub-Area III

| Spiked Compound | Acceptable % Recovery Limits | MS % Recovery | MSD % Recovery | RPD | Acceptable RPD Limit | | | | |
|-------------------------|---------------------------------|------------------|-------------------|---------|-------------------------|--|--|--|--|
| | | VECA-A | <u> </u> | | | | | | |
| 4,4'-DDT | 25-160 | 56.6 | 109 | 63.29 | < 40% | | | | |
| Aldrin | 42-122 | 64.7 | c | | < 40% | | | | |
| Dieldrin | 36-146 | E | <u></u> E | | < 40% | | | | |
| Endrin | 30-147 | E | E | | < 40% | | | | |
| Gamma-BHC (Lindane) | 32-127 | 88.5 | 106 | 17.99 | < 40% | | | | |
| Heptachlor | 34-111 | 82.3 | 129 ^B | 44.20 | < 40% | | | | |
| 1772 EDWARD-A | | | | | | | | | |
| 4,4'-DDT | 25-160 | D | D | | < 40% | | | | |
| Aldrin | 42-122 | D | D | | < 40% | | | | |
| Dieldrin | 36-146 | D | 0 | | < 40% | | | | |
| Endrin | 30-147 | D | D | | < 40% | | | | |
| Gamma-BHC (Lindane) | 32-127 | D | D | | < 40% | | | | |
| -leptachlor | 34-111 | D | D | | 1 | | | | |
| 1721 GREENVIEW CIRCLE-A | | | | | | | | | |
| 1,4'-DDT | 25-160 | 67.8 | 110 | 44.47 | < 40% | | | | |
| Aldrin | 42-122 | 210 ^B | 150 ⁸ | 33.33 | < 40% | | | | |
| Dieldrin | 36-146 | E | E | | < 40% < 40% | | | | |
| Endrin | 30-147 | E | E | | < 40% < 40% | | | | |
| Bamma-BHC (Lindane) | 32-127 | 114 | 115 | 0.87 | < 40% < 40% | | | | |
| leptachlor | 34-111 | 192 ^B | 204 ^B | 6.06 | < 40% | | | | |
| | | 1050 DAWES- | B | 0.00 | 7 40 /6 | | | | |
| ,4'-DDT | 25-160 | _E | E | | < 40% | | | | |
| ldrin | 42-122 | 58.9 | 146 ^B | 85.02 | < 40% | | | | |
| ieldrin | 36-146 | E | E | | < 40% | | | | |
| ndrin | 30-147 | E | E | | < 40% | | | | |
| iamma-BHC (Lindane) | 32-127 | 63.6 | 132 ⁸ | 69.94 | < 40% | | | | |
| eptachlor | 34-111 | 93.5 | 128 ⁸ | 31.15 | < 40% | | | | |
| | | 928 MEAGHER | | 01.10 | 1 40 /8 | | | | |
| 4'-DDT | 25-160 | 121 | 96.5 | 22.53 | < 40% | | | | |
| ldrin | 42-122 | _c | 137 ^B | | < 40% < 40% | | | | |
| ieldrin | 36-146 | E | E | | | | | | |
| ndrin | 30-147 | E | E | <u></u> | < 40% | | | | |
| amma-BHC (Lindane) | 32-127 | 90.2 | 94.0 | 442 | < 40% | | | | |
| eptachlor | 34-111 | _c | _c | 4.13 | < 40% < 40% | | | | |

Summary of MS/MSD Analyses Cypress Creek Sub-Area III

| Spiked Compound | Acceptable % Recovery Limits | MS % Recovery | MSD % Recovery | RPD | Acceptable RPD Limit | | | | |
|---------------------|---------------------------------|-------------------|-------------------|-------|-------------------------|--|--|--|--|
| 2397 GENTRY-B | | | | | | | | | |
| 4,4'-DDT | 25-160 | _c | _c | | < 40% | | | | |
| Aldrin | 42-122 | E | E | | < 40% | | | | |
| Dieldrin | 36-146 | E | E | | < 40% | | | | |
| Endrin | 30-147 | E | E | | < 40% | | | | |
| Gamma-BHC (Lindane) | 32-127 | 103 | 111 | 7.48 | < 40% | | | | |
| Heptachlor | 34-111 | E | E | | < 40% | | | | |
| 1793 GREENVIEW-A | | | | | | | | | |
| 4,4'-DDT | 25-160 | 96.3 | 104 | 7.69 | < 40% | | | | |
| Aldrin | 42-122 | 37.5 ^B | 75.9 | 67.72 | < 40% | | | | |
| Dieldrin | 36-146 | E | E | | < 40% | | | | |
| Endrin | 30-147 | ^E | E | | < 40% | | | | |
| Gamma-BHC (Lindane) | 32-127 | 84.3 | 95.7 | 12.67 | < 40% | | | | |
| -leptachlor | 34-111 | 76.2 | 145 ^B | 62.21 | < 40% | | | | |
| | | 2245 HUNTER | -A | | | | | | |
| 1,4'-DDT | 25-160 | 127 | 116 | 9.05 | < 40% | | | | |
| Aldrin | 42-122 | 71.9 | c | | < 40% | | | | |
| Dieldrin | 36-146 | E | E | | < 40% | | | | |
| Endrin | 30-147 | E | E | | < 40% | | | | |
| Bamma-BHC (Lindane) | 32-127 | 114 | 119 | 4.29 | < 40% | | | | |
| leptachlor | 34-111 | 126 | 90 | 33.33 | < 40% | | | | |

Notes: B - Recovery unacceptable due to matrix interference

C - Recovery unavailable due to matrix interference

D - Recovery unavailable due to dilution

E - Recovery unavailable due to high concentration of analyte in sample

Attachment D
Summary of Field Duplicate Analyses

Summary of Field Duplicate Analyses Cypress Creek Sub-Area III

| Analysis | VECA-A | 042303-DUP | RPD (%) | RPD Control |
|-------------------------|--------|-------------------|---------|-------------|
| Analyte | VECA-A | VLOA-A 0-2303-D01 | | Limit |
| 4,4'-DDE | 8.35 | < 20 | 82.2 | < 40% |
| 4,4'-DDT | 17.4 | 48.5 | 94.4 | < 40% |
| Aldrin | 9.2 | 41.6 | 127.6 | < 40% |
| Alpha-Chlordane | 16 | 34.1 | 72.3 | < 40% |
| Chlordene | 49.4 | 282 | 140.4 | < 40% |
| Dieldrin | 369 | 854 | 79.3 | < 40% |
| Endosulfan II | 5.84 | < 20 | 109.6 | < 40% |
| Endrin | 1,330 | 3,750 | 95.3 | < 40% |
| Endrin Ketone | 1,150 | 2,790 | 83.2 | < 40% |
| Gamma-Chlordane | 76.9 | 166 | 73.4 | < 40% |
| Heptachlor Epoxide | 12 | 48.5 | 120.7 | < 40% |
| Hex VCL | 944 | 2,950 | 103.0 | < 40% |
| Hexachloronorbornadiene | 21.3 | 54 | 86.9 | < 40% |
| Isodrin | 150 | 662 | 126.1 | < 40% |

| Analyte | 1743GREENVIEW-A | 050803-DUP | RPD (%) | RPD Control |
|-------------------------|-----------------|------------|---------|-------------|
| | | | | Limit |
| 4,4'-DDD | < 5 | 11.1 | 75.8 | < 40% |
| 4,4'-DDE | 61 | 63.9 | 4.6 | < 40% |
| 4,4'-DDT | 67.6 | 75.2 | 10.6 | < 40% |
| Alpha-Chlordane | < 5 | 31.8 | 145.7 | < 40% |
| Aldrin | 26.4 | < 5 | 136.3 | < 40% |
| Beta-BHC | 5.67 | < 5 | 12.6 | < 40% |
| Chlordene . | 339 | 11 | 187.4 | < 40% |
| Dieldrin | 212 | 218 | 2.8 | < 40% |
| Endrin | 912 | 505 | 57.4 | < 40% |
| Endrin Ketone | 390 | 371 | 5.0 | < 40% |
| Gamma-Chlordane | 72.2 | 63.7 | 12.5 | < 40% |
| Heptachlor | 29.4 | < 5 | 141.9 | < 40% |
| Heptachlor Epoxide | 41.5 | 36.8 | 12.0 | < 40% |
| Hex VCL | 1330 | 1508 | 12.5 | < 40% |
| Hexachloronorbornadiene | 228 | 40.6 | 139.5 | < 40% |
| Isodrin | 790 | 35.2 | 182.9 | < 40% |

Summary of Field Duplicate Analyses Cypress Creek Sub-Area III

| Analyte | SYED NO B | 052803-DUP | RPD (%) | RPD Control |
|-------------------------|-----------|------------|---------|-------------|
| | | | | Limit |
| Aldrin | 198 | 293 | 38.7 | < 40% |
| Alpha-Chlordane | 150 | 167 | 10.7 | < 40% |
| Beta-BHC | 37.2 | 53.6 | 36.1 | < 40% |
| Chlordene | 3,330 | 4,200 | ·23.1 | < 40% |
| Dieldrin | 3,060 | 3,260 | 6.3 | < 40% |
| Endosulfan II | 57.4 | 94.3 | 48.6 | < 40% |
| Endosulfan Sulfate | 43.5 | 53.9 | 21.4 | < 40% |
| Endrin | 10,000 | 10,200 | 2.0 | < 40% |
| Endrin Ketone | 59,400 | 51,200 | 14.8 | < 40% |
| Gamma-Chlordane | 637 | 695 | 8.7 | < 40% |
| Heptachlor | 416 | 495 | 17.3 | < 40% |
| Heptachlor Epoxide | 84.7 | 89.4 | 5.4 | < 40% |
| Hex VCL | 12,700 | 14,000 | 9.7 | < 40% |
| Hexachloronorbornadiene | 5,290 | 5,760 | 8.5 | < 40% |
| Isodrin | 7,780 | 10,400 | 28.8 | < 40% |

| | 2164 HUBERT CL - B | 060403-DUP | RPD (%) | RPD Control |
|-------------------------|--------------------|------------|---------|-------------|
| Analyte | | | | Limit |
| 4,4'-DDE | < 5 | 29.9 | 142.7 | < 40% |
| 4,4'-DDT | < 5 | 49.5 | 163.3 | < 40% |
| Chlordene | 20 | 26.8 | 29.1 | < 40% |
| Dieldrin | 474 | 488 | 2.9 | < 40% |
| Endosulfan II | 53.2 | 26.5 | 67.0 | < 40% |
| Endrin | 1,420 | 1,510 | 6.1 | < 40% |
| Endrin Ketone | 3,270 | 3,290 | 0.6 | < 40% |
| Heptachlor | 43.7 | 7.72 | 139.9 | < 40% |
| Heptachlor Epoxide | 154 | 109 | 34.2 | < 40% |
| Hex VCL | 79.1 | 72.9 | 8.2 | < 40% |
| Hexachloronorbornadiene | 10.7 | 15.4 | 36.0 | < 40% |
| Isodrin | 93.3 | 114 | 20.0 | < 40% |
| Technical Chlordane | 8,410 | 5,590 | 40.3 | < 40% |

Summary of Field Duplicate Analyses Cypress Creek Sub-Area III

| Analyte | 2150 HUBERT CL - A | 061003-DUP | RPD (%) | RPD Control |
|-------------------------|--------------------|------------|---------|-------------|
| | | | | Limit |
| 4,4'-DDT | 11.1 | 8.5 | 26.5 | < 40% |
| Aldrin | 5.63 | 8.58 | 41.5 | < 40% |
| Alpha-Chlordane | 24.8 | 17.6 | 34.0 | < 40% |
| Chlordene | 69.3 | 35:4 | 64.8 | < 40% |
| Dieldrin | 452 | 319 | 34.5 | < 40% |
| Endosulfan II | 7.13 | < 5 | 35.1 | < 40% |
| Endrin | 2,560 | 1,460 | 54.7 | < 40% |
| Endrin Ketone | 5,120 | 3,820 | 29.1 | < 40% |
| Gamma-Chlordane | 130 | 87.6 | 39.0 | < 40% |
| Heptachlor | 12.6 | 6.84 | 59.3 | < 40% |
| Heptachlor Epoxide | 38.6 | 28.4 | 30.4 | < 40% |
| Hex VCL | 1,040 | 692 | 40.2 | < 40% |
| Hexachloronorbornadiene | 37.4 | 27 | 32.3 | < 40% |
| Isodrin | 258 | 302 | 15.7 | < 40% |

| Analyte | COUNTY ON TREZVANT - B | 062003-DUP | . RPD (%) | RPD Control Limit |
|---------------------------|---------------------------|------------|-----------|----------------------|
| Dieldrin | 18.9 | 20.8 | 9.6 | < 40% |
| Endrin | 46.9 | 38.5 | 19.7 | < 40% |
| Endrin Ketone | 24.7 | < 20 | 21.0 | < 40% |
| Hex VCL | 6.93 | 6.79 | 2.0 | < 40% |
| Hexachlorocyclopentadiene | 5.86 | 5.68 | 3.1 | < 40% |
| Isodrin | 5.13 | < 5 | 2.6 | < 40% |

| Analyte | MLGW - A | 070203-DUP | RPD (%) | RPD Control Limit |
|-------------------------|----------|------------|---------|----------------------|
| Aldrin | 517 | 720 | 32.8 | < 40% |
| Alpha-Chiordane | 441 | 550 | 22.0 | < 40% |
| Chlordene | 7,940 | 9,960 | 22.6 | < 40% |
| Dieldrin | 9,070 | 10,300 | 12.7 | < 40% |
| Endosulfan II | 169 | 230 | 30.6 | < 40% |
| Endosulfan Sulfate | 107 | 137 | 24.6 | < 40% |
| Endrin | 58,100 | 70,400 | 19.1 | < 40% |
| Endrin Ketone | 119,000 | 142,000 | 17.6 | < 40% |
| Gamma-Chlordane | 1,380 | 1,670 | 19.0 | < 40% |
| Heptachlor | 1,720 | 1,910 | 10.5 | < 40% |
| Heptachlor Epoxide | 149 | 168 | 12.0 | < 40% |
| Hex VCL | 23,600 | 25,000 | 5.8 | < 40% |
| Hexachloronorbornadiene | 16,500 | 17,100 | 3.6 | < 40% |
| Isodrin | 22,200 | 29,600 | 28.6 | < 40% |