FILE: 1000000 DOCNO: 0062018 DATE: 1993(E) PAGE: 3
TITLE: (DESCRIBES EAST HELENA, MONTANA HRS SCORING - POTENTIAL CERCLA SITE)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0002 THRU: 300/0004
NOTES: UPDATE 02

FILE: 1000000 DOCNO: 0062021 DATE: JAN. 1984 (E) PAGE: 7
TITLE: (HRS COVER SHEET AND WORK SHEETS FOR GROUNDWATER ROUTE, SURFACE WATER ROUTE, AIR ROUTE, COMPUTING SM, FIRE AND EXPLOSION AND DIRECT CONTACT)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):3030400 * 4030400
MICROFILM ROLL/FRAME NO.: 300/0005 THRU: 300/0011
NOTES: UPDATE 02

FILE: 1000000 DOCNO: 0062045 DATE: JAN. 12, 1984 PAGE: 24
TITLE: (HRS COVER SHEET AND WORK SHEETS FOR GROUNDWATER ROUTE, SURFACE WATER ROUTE, AIR ROUTE, COMPUTING SM, FIRE AND EXPLOSION, DIRECT CONTACT; FIT QUALITY ASSURANCE TEAM DOCUMENTATION RECORDS FOR HRS)
AUTHOR: RUSSELL, SUE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0012 THRU: 300/0035
NOTES: UPDATE 02

FILE: 1000000 DOCNO: 0062069 DATE: SEP. 16, 1986 PAGE: 26
TITLE: (NPL UPDATE GIVING HRS SCORE AND HRS WORK SHEETS WITH COVER SHEET JUN. 9, 1983; DOCUMENTATION RECORDS FOR HRS JUN. 28, 1982)
AUTHOR: SKIE, DOUG/EPA * TAYLOR, GENE/(EPA)
ADDRESSEE: CHIOTTI, KATHY/(EPA) * ROBERTSON, DUANE/MDHES * WEINSTOCK, SARA/MDHES * RPMS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0036 THRU: 300/0061
NOTES: UPDATE 02

FILE: 1000000 DOCNO: 0220735 DATE: JUN. 1990(E) PAGE: 1
TITLE: (ANALYTICAL RANDOM RESULTS OF SOIL SAMPLING FOR EAST HELENA)
AUTHOR: HALM, JUDY/MDHES
ADDRESSEE: MULLEN, GREG/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 300/0062 THRU: 300/0062
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1000000 DOCNO: 402722 DATE: MAR. 27, 1991 PAGE: 74
TITLE: (REVIEWS AND TRANSMITS ATTACHED MINING NPL SITE SUMMARY REPORT NOV. 9, 1990)
AUTHOR: HOFFMAN, STEVE/EPA * GOLIAN, STEVE/EPA
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/0002 THRU: 415/0075
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * GROUNDWATER * AIR * SOIL REMOVAL * DRINKING WATER STANDARDS * SURFACE WATER STANDARDS * ASARCO * AMC (ARCO) * AMERICAN CHEMET CORPORATION * CITY OF EAST HELENA
NOTES: UPDATE 03

FILE: 1000000 DOCNO: 424002 DATE: 1988 (E) PAGE: 4
TITLE: SITE SUMMARY EAST HELENA SUPERFUND SITE
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/0008 THRU: 581/0011
KEYWORD(S): ARSENIC * LEAD * GROUNDWATER * SOIL * SEDIMENTS
NOTES: UPDATE 06

FILE: 1000000 DOCNO: 465868 DATE: MAY 2006 PAGE: 8
TITLE: (PHASE 2 AND 3 DEMOLITION DRAWINGS, PLANT MAPS AND PHOTOS; ATTACHED TRANSMITTAL FROM JACOBSON TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
NOTES: UPDATE 33

FILE: 1010000 DOCNO: 0131544 DATE: NOV. 4, 1983 PAGE: 20
TITLE: ASARCO COMMENTS CONCERNING EPA PROPOSED AMENDMENT TO NATIONAL OIL AND HAZARDOUS SUBSTANCES CONTINGENCY PLAN, NPL; 48 FED. REG. 40674 (SEP. 8, 1983; ATTACHED ASARCO EAST HELENA WATER SAMPLE RESULTS)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART * MORISON, FRANK H./HOLLAND AND HART
ADDRESSEE: WYER, RUSSELL H./EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0063 THRU: 300/0082
NOTES: UPDATE 02

FILE: 1010000 DOCNO: 0131564 DATE: JAN. 5, 1981 PAGE: 5
TITLE: EPA POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT [PA] (FOR ASARCO EAST HELENA LEAD SMELTER HOLDING PONDS; PORTION OF TOPO MAP SHOWING ASARCO SITE ATTACHED)
AUTHOR: SHANKLIN, LEE/(EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0083 THRU: 300/0087
NOTES: UPDATE 02

FILE: 1010000 DOCNO: 0131569 DATE: JUN. 8, 1983 PAGE: 13
TITLE: "POTENTIAL HAZARDOUS WASTE SITE, SITE INSPECTION [SI] REPORT" (ATTACHED HISTORY OF EAST HELENA SITE, ENFORCEMENT STATUS AND RESPONSE STATUS)
AUTHOR: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0088 THRU: 300/0100
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131582 DATE: MAR. 25, 1983(E) PAGE: 4
TITLE: MEETING NOTES (SOILS PEOPLE; DALHOFFIN, VIVESGE, HALL, GATLAFF, GEORGIDIS)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0101 THRU: 300/0104
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131586 DATE: JUN. 2, 1983(E) PAGE: 1
TITLE: MEETING NOTES (EPA, ASARCO, STATE)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0105 THRU: 300/0105
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131587 DATE: NOV. 2, 1979 PAGE: 2
TITLE: MEETING NOTES (DESANTIS, HEARST, SEVERSON, MONTGOMERY, SHEWMAN, KEENAN)
AUTHOR: KEENAN, (KEVIN)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0106 THRU: 300/0107
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131589 DATE: AUG. 1, 1981 PAGE: 3
TITLE: ASARCO INSPECTION (INFORMATION SUPPLIED BY SIEVERSON)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0108 THRU: 300/0110
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131592 DATE: JAN. 27, 1982 PAGE: 7
TITLE: ASARCO LEAD BRIEFING
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0111 THRU: 300/0117
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131599 DATE: DEC. 23, 1982 PAGE: 2
TITLE: (BLOOD LEAD STUDY MEETING WITH STATE, CDC, EPA AND COUNTY)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 300/0118 THRU: 300/0119
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131601 DATE: FEB. 3, 1983 PAGE: 3
TITLE: MEETING NOTES (STATE [WQ, AQ, S. WASTE], EPA, ASARCO)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0120 THRU: 300/0122
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131604 DATE: MAR. 28, 1983 PAGE: 3
TITLE: MEETING NOTES (MAR. 28 AND 30, 1983)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0123 THRU: 300/0125
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131607 DATE: APR. 15, 1983 PAGE: 3
TITLE: MEETING NOTES (EAST HELENA, ASARCO, STATE, EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0126 THRU: 300/0128
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131610 DATE: APR. 20, 1983 PAGE: 3
TITLE: MEETING WITH STATE ON LEAD/BLOOD PROTOCOL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 300/0129 THRU: 300/0131
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131613 DATE: SEP. 1983 PAGE: 11
TITLE: EAST HELENA SMELTER (STATUS REPORT)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0132 THRU: 300/0142
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131624 DATE: OCT. 14, 1983 PAGE: 1
TITLE: OCT. 13, 1983 FIELD TRIP TO SITE (CH2M HILL, ASARCO, STATE, EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0143 THRU: 300/0143
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131625 DATE: JAN. 16, 1984 PAGE: 1
TITLE: JAN. 16-20, 1984 AGENDA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0144 THRU: 300/0144
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131626 DATE: MAR. 14, 1984 PAGE: 4
TITLE: MEETING NOTES PROJECT: ASARCO RI/FS (DISCUSSES LATEST MSU SOIL, CROP AND LIVESTOCK SAMPLING PLAN)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0145 THRU: 300/0148
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131630 DATE: MAY 9, 1984 PAGE: 1
TITLE: EPA/ASARCO RI/FS WORK PLAN MEETING AGENDA MAY 9, 1984
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 300/0149 THRU: 300/0149
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131631 DATE: MAY 9, 1984 PAGE: 1
TITLE: ASARCO, EPA AND STATE OF MONTANA MEETING, MAY 9, 1984 (ATTENDEES LIST)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 300/0150 THRU: 300/0150
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131632 DATE: MAY 9, 1984 PAGE: 11
TITLE: ASARCO MEETING NOTES MAY 9, 1984 (ATTACHED AGENDA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 300/0151 THRU: 300/0161
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131643 DATE: MAY 23, 1984 PAGE: 3
TITLE: MAY 23, 1984 MEETING NOTES (ASARCO, MSU, EPA, CH2M HILL, TRESHAW)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0162 THRU: 300/0164
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131646 DATE: MAY 24, 1984 PAGE: 2
TITLE: MAY 24, 1984 MEETING NOTES
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0165 THRU: 300/0166
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131648 DATE: AUG. 22, 1984 PAGE: 6
TITLE: (ATTENDEES LIST AND AUG. 23, 1984 MEETING NOTES; COMMENTS ON LABORATORY FACILITIES)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0167 THRU: 300/0172
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131654 DATE: JAN. 17, 1985 PAGE: 2
TITLE: (MEETING BETWEEN HULMAN, CALLIO, LUCERO, LOVELL [CH2M HILL], TECHLAW CONCERNING SAMPLING AND SAMPLE DATA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0173 THRU: 300/0174
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131656 DATE: FEB. 25, 1985 PAGE: 1
TITLE: NPL SUMMARY FOR TRI-WEEKLY CERCLA MEETING FEB. 25, 1985
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0175 THRU: 300/0175
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131657 DATE: MAY 9, 1985 PAGE: 6
TITLE: (MAY 9, 1985 ATTENDEES LIST AND MEETING NOTES WITH ASARCO, EPA AND STATE)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0176 THRU: 300/0181
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131663 DATE: MAR. 3, 1986 PAGE: 19
TITLE: MAR. 1, 1986 MEETING NOTES (ASARCO, EPA AND STATE)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0182 THRU: 300/0200
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131682 DATE: APR. 1986 PAGE: 4
TITLE: (SUMMARY, BACKGROUND AND CURRENT STATUS OF EAST HELENA AND IPC SITES)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0201 THRU: 300/0204
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131686 DATE: APR. 29, 1986 PAGE: 4
TITLE: ASARCO RI/FS WILDLIFE INVESTIGATION APR. 29, 1986 MEETING MINUTES
AUTHOR: BARUTH, BETH/(CH2M HILL)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0205 THRU: 300/0208
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131690 DATE: MAY 28, 1986 PAGE: 2
TITLE: (MEETING BETWEEN ASARCO, CH2M HILL, USGS, AND STATE DISCUSSING AS PLUME, WATER USAGE, SLAG PILE AND REMEDIAL PROCESS)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):5010000
MICROFILM ROLL/FRAME NO.: 300/0209 THRU: 300/0210
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131692 DATE: NOV. 20, 1986 PAGE: 1
TITLE: (NOV. 20, 1986 MEETING ATTENDEES LIST)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 300/0211 THRU: 300/0211
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131693 DATE: JAN. 22, 1987 PAGE: 2
TITLE: (JAN. 22, 1987 MEETING NOTES AND PROPOSED AGENDA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0212 THRU: 300/0213
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131695 DATE: MAR. 20, 1987 PAGE: 40
TITLE: "MONTANA OFFICE BRIEFING PREPARED FOR JIM SCHERER"
ADDRESSEE: SCHERER, JIM/(EPA)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1100200
MICROFILM ROLL/FRAME NO.: 300/0214 THRU: 300/0253
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131735 DATE: MAR. 30, 1987 PAGE: 7
TITLE: (MEETING MINUTES OF CH2M HILL REM 4/EPA REGION 8 PROGRAM MANAGEMENT)
CC: SCOTT * SHANKLIN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0254 THRU: 300/0260
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131742 DATE: APR. 1987 PAGE: 7
TITLE: "WHAT'S NEW IN THE EPA LIBRARY"
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 300/0261 THRU: 300/0267
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131749 DATE: JAN. 15, 1987 PAGE: 1
TITLE: (NOTES FROM MEETING WITH JOHNSON, FENSTER AND LCCCHD; DISCUSSES LEWIS AND CLARK COUNTY BOARD OF HEALTH POSSIBILITY OF ADVISORY COMMITTEE AND NEED TO INFORM EAST HELENA RESIDENTS OF SHALLOW WATER ARSENIC)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: NOTES
CROSS FILE(S):1101000
MICROFILM ROLL/FRAME NO.: 300/0268 THRU: 300/0268
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131750 DATE: FEB. 10, 1988 PAGE: 44
TITLE: (NOTES FROM MEETING WITH CALLAWAY AND MULLEN CONCERNING SUPERFUND ARARS; ATTACHED ARARS IDENTIFICATION PROCESS, SPECIFIC EPA/MONTANA ISSUES WITH SPECIAL FOCUS ON MILL CREEK EXPERIENCE, ARARS FOR SUPERFUND SITES: STATE ROLE, AUG. 27, 1987 FEDERAL REGISTER, EXHIBIT 1-3 SELECTED ACTION-SPECIFIC PROBABLE ARARS REQUIREMENTS AND EXHIBIT 1-5 GENERAL PROCEDURES FOR DETERMINING IF REQUIREMENT IS APPLICABLE)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):1050200
MICROFILM ROLL/FRAME NO.: 300/0269 THRU: 300/0312
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131794 DATE: MAY 17, 1988 PAGE: 14
TITLE: MEETING NOTES (AGENDA, ATTENDEES QUESTIONS AND COMMENTS, STATUS ON VARIOUS TASKS INCLUDING SURFACE SOIL, VEGETATION AND LIVESTOCK)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):4010000
MICROFILM ROLL/FRAME NO.: 300/0313 THRU: 300/0326
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131808 DATE: MAY 18, 1988 PAGE: 10
TITLE: MAY 18, 1988 MEETING NOTES
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):1060701
MICROFILM ROLL/FRAME NO.: 300/0327 THRU: 300/0336
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131818 DATE: JUN. 1, 1988 PAGE: 8
TITLE: (COMMENTS FROM MAY 15, 1988 MEETING BY CH2M HILL, DOLLHOPF, NEUMAN AND GLANZMAN)
QUALIFIER(S): MARGINALIA * HANDWRITTEN * ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0337 THRU: 300/0344
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131826 DATE: JUN. 27, 1988 PAGE: 6
TITLE: DRAFT COMMENTS ON MAY 17, 1988 MEETING WITH ASARCO (WITH TRANSMITTAL SLIP)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0345 THRU: 300/0350
NOTES: UPDATE 02

FILE: 1010200 DOCNO: 0131832 DATE: JAN. 12, 1989 PAGE: 2
TITLE: (NOTES ON MEETING WITH AIR QUALITY BUREAU DISCUSSING SIP)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 300/0351 THRU: 300/0352
NOTES: UPDATE 02

FILE: 1010300 DOCNO: 0131834 DATE: MAY 1984 PAGE: 2
TITLE: FACT SHEET, EAST HELENA SUPERFUND SITE EAST HELENA, MONTANA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 300/0353 THRU: 300/0354
NOTES: UPDATE 02

FILE: 1010300 DOCNO: 0131836 DATE: MAR. 7, 1988 PAGE: 1
TITLE: EAST HELENA SMELTER SITE UPDATE, STATE AND FEDERAL SUPERFUND MEETING
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0355 THRU: 300/0355
NOTES: UPDATE 02

FILE: 1010400 DOCNO: 0030660 DATE: JUL. 8, 1983 PAGE: 28
TITLE: (TRANSMITS ATTACHED TABLES OF EAST HELENA WELL INVENTORY DATA)
AUTHOR: PIKE, GEORGE M./DOI
ADDRESSEE: TAYLOR, GENE/EPA
CC: RAGONE
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 301/1043 THRU: 301/1070
NOTES: UPDATE 02

FILE: 1010400 DOCNO: 0131837 DATE: MAR. 11, 1983 PAGE: 24
TITLE: (DISCUSSES PROPOSAL FOR TECHNICAL ASSISTANCE OF USGS UNDER USGS/EPA IAG MAY 1, 1981 AND CORRESPONDENCE CONCERNING PROPOSAL FOR PROJECT TO DOCUMENT CURRENT QUALITY OF SHALLOW WATER FROM USGS; ATTACHED TRANSMITTAL)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4030100
MICROFILM ROLL/FRAME NO.: 300/0356 THRU: 300/0379
NOTES: UPDATE 02

FILE: 1010400 DOCNO: 0131861 DATE: APR. 1, 1983 PAGE: 9
TITLE: IAG BETWEEN EPA AND DEPARTMENT OF HEALTH AND HUMAN SERVICES (ATTACHED HANDWRITTEN NOTES)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 300/0380 THRU: 300/0388
NOTES: UPDATE 02

FILE: 1010400 DOCNO: 0131870 DATE: JUL. 22, 1983 PAGE: 7
TITLE: (IAG PROVISION OF FUNDS TO ATSDR TO COVER HEALTH ACTIVITIES IN ATTACHED SUMMARY OF EAST HELENA LEAD EFFECTS STUDY 1983)
AUTHOR: THOMAS, LEE M./EPA * FOEGE, WILLIAM H./ATSDR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 300/0389 THRU: 300/0395
NOTES: UPDATE 02

FILE: 1010400 DOCNO: 0131877 DATE: AUG. 25, 1983 PAGE: 2
TITLE: (IAG AMENDMENT TO AUTHORIZE PURCHASE OF EQUIPMENT FOR LEAD EFFECT STUDY IN EAST HELENA)
AUTHOR: HEDEMAN, WILLIAM N./EPA * FOEGE, WILLIAM H./ATSDR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 300/0396 THRU: 300/0397
NOTES: UPDATE 02

FILE: 1010400 DOCNO: 0131879 DATE: OCT. 3, 1983 PAGE: 5
TITLE: PRELIMINARY SURVEYS OF DAMAGES TO NATURAL RESOURCES (MEMO OF UNDERSTANDING BETWEEN EPA AND DOI)
AUTHOR: /EPA * /DOI
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 300/0398 THRU: 300/0402
NOTES: UPDATE 02

FILE: 1010400 DOCNO: 0131884 DATE: JUL. 27, 1984 PAGE: 2
TITLE: (IAG AMENDMENT TO EXTEND COMPLETION DATE OF LEAD EFFECTS STUDY IN EAST HELENA FROM JUN. 30 TO DEC. 31, 1984)
AUTHOR: HEDEMAN, WILLIAM N./EPA * MASON, JAMES O./ATSDR
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 300/0403 THRU: 300/0404
NOTES: UPDATE 02

FILE: 1010400 DOCNO: 0131886 DATE: JAN. 2, 1985 PAGE: 4
TITLE: IAG BETWEEN EPA AND HHS PROJECT: LEAD EFFECTS STUDY IN EAST HELENA
AUTHOR: HEDEMAN, WILLIAM N./EPA * HADD, THOMAS L./EPA
ADDRESSEE: MASON, JAMES O./ATSDR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: CONTRACT
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 300/0405 THRU: 300/0408
NOTES: UPDATE 02

FILE: 1010400 DOCNO: 0220736 DATE: MAR. 18, 1991 PAGE: 1
TITLE: (BUDGET ESTIMATES FOR IAG WITH USGS)
AUTHOR: MORELAND, JOE A./USGS * SHIELDS, RONALD R./USGS
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0409 THRU: 300/0409
NOTES: UPDATE 02

FILE: 1010400 DOCNO: 0220737 DATE: MAR. 27, 1991 PAGE: 8
TITLE: (INITIATION OF IAG TO PROVIDE TECHNICAL ASSISTANCE; ATTACHED FINAL RD/RA WORKPLAN COVER SHEET, LETTER WITH BUDGET ESTIMATES)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MORELAND, JOE A./USGS
CC: PIZZINI * CHIOTTI * BOHAN * DAVIS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
CROSS FILE(S):2060000
MICROFILM ROLL/FRAME NO.: 300/0410 THRU: 300/0417
NOTES: UPDATE 02

FILE: 1010400 DOCNO: 424478 DATE: NOV. 29, 1992 PAGE: 2
ATTACHED DOC(S): 424479
TITLE: (QUARTERLY PROGRESS REPORT OF TECHNICAL ASSISTANCE ACTIVITIES JUL. 1 - SEP. 30, 1992)
AUTHOR: HARMS, DALE/FWS
ADDRESSEE: BROWN, SCOTT/EPA
CC: JACKSON * STEWART * HATCH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0015 THRU: 627/0016
NOTES: UPDATE 07

FILE: 1010400 DOCNO: 424479 DATE: NOV. 4, 1992 PAGE: 2
ATTACHED TO: 424478
TITLE: PROJECT OFFICER IAG INVOICE APPROVAL
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: /DOI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: ACCOUNTING DOCUMENT
MICROFILM ROLL/FRAME NO.: 627/0017 THRU: 627/0018
NOTES: UPDATE 07

FILE: 1010400 DOCNO: 424754 DATE: NOV. 23, 1993 PAGE: 2
TITLE: (QUARTERLY PROGRESS REPORT OF FWS TECHNICAL ACTIVITIES FOR JUL. 1 - SEP. 30, 1993)
AUTHOR: MCMASTER, KEMPER/FWS
ADDRESSEE: BROWN, SCOTT/EPA
CC: /EPA * /FWS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0002 THRU: 669/0003
NOTES: UPDATE 08

FILE: 1010400 DOCNO: 424974 DATE: MAR. 9, 1994 PAGE: 2
TITLE: (QUARTERLY PROGRESS REPORT FOR TECHNICAL ASSISTANCE ACTIVITIES CONDUCTED OCT. 1 - DEC. 31, 1993)
AUTHOR: MCMASTER, KEMPER/FWS
ADDRESSEE: BROWN, SCOTT/EPA
CC: /EPA * /FWS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0004 THRU: 669/0005
NOTES: UPDATE 08

FILE: 1010400 DOCNO: 424976 DATE: APR. 12, 1994 PAGE: 2
TITLE: (QUARTERLY PROGRESS REPORT FOR TECHNICAL ASSISTANCE ACTIVITIES CONDUCTED JAN. 1 - MAR. 31, 1994)
AUTHOR: MCMASTER, KEMPER/FWS
ADDRESSEE: BROWN, SCOTT/EPA
CC: /EPA * /FWS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0006 THRU: 669/0007
NOTES: UPDATE 08

FILE: 1010400 DOCNO: 450642 DATE: APR. 27, 1998 PAGE: 2
TITLE: (JAN. 1 - MAR. 31, 1998 TECHNICAL ASSISTANCE ACTIVITIES PROGRESS REPORT SECOND QUARTER FISCAL YEAR 1998)
AUTHOR: OLSEN, BILL/FWS
ADDRESSEE: CHIOTTI, KATHY/EPA
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1102/0017 THRU: 1102/0018
NOTES: UPDATE 17

FILE: 1010404 DOCNO: 465892 DATE: DEC. 5, 2006 PAGE: 2
TITLE: (RESPONDS TO INCLUDED DEC. 2, 2006 EMAIL REGARDING DRAFT RESIDENTIAL YARDS CLEAN UP PROPOSED PLAN AND INSTITUTIONAL CONTROLS CONCERNS)
AUTHOR: STRAUSBAUGH, DAN/EPA
ADDRESSEE: HELGERSON, STEVEN/(MONTANA DEPARTMENT OF HEALTH AND HUMAN SERVICES)
CC: REYNOLDS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1908/0022 THRU: 1908/0023
NOTES: UPDATE 34

FILE: 1020000 DOCNO: 0220745 DATE: OCT. 1990 PAGE: 2
TITLE: PRP NEWSLETTER "COMMUNITY UPDATE"
AUTHOR: /ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 300/0418 THRU: 300/0419
NOTES: UPDATE 02

FILE: 1020100 DOCNO: 0010127 DATE: MAY 16, 1988 PAGE: 37
TITLE: INTERIM GUIDANCE ON PRP PARTICIPATION IN RI AND FS
AUTHOR: PORTER, J. WINSTON/EPA
ADDRESSEE: REGIONAL ADMINISTRATORS/REGIONS 1-10 * REGIONAL COUNSEL/REGIONS * DIRECTOR, WASTE MANAGEMENT DIVISION/REGION 1, 4, 5, 7, 8 * DIRECTOR, EMERGENCY AND REMEDIAL RESPONSE DIVISION/REGION 2 * DIRECTOR, HAZARDOUS WASTE MANAGEMENT DIVISION/REGION 3, 6 * DIRECTOR, TOXICS AND WASTE MANAGEMENT DIVISION/REGION 9 * DIRECTOR, HAZARDOUS WASTE DIVISION/REGION 10
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 300/0420 THRU: 300/0456
NOTES: UPDATE 02

FILE: 1020100 DOCNO: 0131890 DATE: DEC. 19, 1986 PAGE: 34
TITLE: "INTERIM FINAL DRAFT CHAPTER 10 POTENTIALLY RESPONSIBLE PARTY (PRP) PARTICIPATION IN REMEDIAL INVESTIGATION AND FEASIBILITY STUDIES [RI/FS]" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 300/0457 THRU: 300/0490
NOTES: UPDATE 02

FILE: 1020100 DOCNO: 0190000 DATE: AUG. 10, 1989 PAGE: 1
TITLE: REQUEST TO DISPOSE OF FIRE ASSAY WASTE AT EAST HELENA SMELTER PRP IMPLICATIONS
AUTHOR: CRAWFORD, J. M./FREEPORT-MCMORAN GOLD
ADDRESSEE: MORENO, SANDRA/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0491 THRU: 300/0491
NOTES: UPDATE 02

FILE: 1020101 DOCNO: 0131924 DATE: NOV. 1, 1983 PAGE: 15
TITLE: ASARCO DEPARTMENT OF ENVIRONMENTAL SCIENCES SALT LAKE CITY, UTAH ORGANIZATIONAL CHART (WITH PERSONNEL RECORDS)
AUTHOR: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 300/0492 THRU: 300/0506
NOTES: UPDATE 02

FILE: 1020101 DOCNO: 0131939 DATE: 1984 (E) PAGE: 19
TITLE: (BROCHURE ON EAST HELENA SMELTER)
AUTHOR: /ASARCO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 300/0507 THRU: 300/0523
NOTES: UPDATE 02

FILE: 1020101 DOCNO: 0131958 DATE: MAR. 7, 1986 PAGE: 2
TITLE: NOTIFICATION FOR UNDERGROUND STORAGE TANKS
AUTHOR: SHARP, M.A./ASARCO
ADDRESSEE: /MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0524 THRU: 300/0525
NOTES: UPDATE 02

FILE: 1020101 DOCNO: 0131960 DATE: AUG. 1987 PAGE: 4
TITLE: (NOTES FROM TELEPHONE CONVERSATIONS WITH RUDY B, KELLER, AND DAVE B CONCERNING NUMBER OF SAMPLES RECEIVED BY ASARCO LAB AT SALT LAKE CITY)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN * ORIGINAL
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 300/0526 THRU: 300/0529
NOTES: UPDATE 02

FILE: 1020101 DOCNO: 0131964 DATE: JAN. 23, 1989 PAGE: 31
TITLE: (LOG OF DATA SUBMITTED BY ASARCO; ATTACHED COPIES OF RELATED CORRESPONDENCE)
AUTHOR: BROWN, SCOTT/(EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 300/0530 THRU: 300/0560
NOTES: UPDATE 02

FILE: 1020102 DOCNO: 0191575 DATE: MAR. 15, 1990 PAGE: 5
TITLE: (RESPONSE TO FEB. 8, 1990 INFORMATION REQUEST CONCERNING ZINC OPERATION AT EAST HELENA CERCLA SITE)
AUTHOR: DENT, ROBERT L./ARCO COAL
ADDRESSEE: SHANNON, DIANA/EPA
CC: MORENO * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020200
MICROFILM ROLL/FRAME NO.: 300/0561 THRU: 300/0565
KEYWORD(S): LEAD * ZINC * AMC (ARCO)
NOTES: UPDATE 02

FILE: 1020102 DOCNO: 434718 DATE: MAR. 15, 1990 PAGE: 6
ATTACHED DOC(S): 434719 THRU: 434728
TITLE: (TRANSMITS DOCUMENTS IN RESPONSE TO FEB. 8, 1990 INFORMATION REQUEST CONCERNING EAST HELENA CERCLA SITE)
AUTHOR: DENT, ROBERT L./ARCO
ADDRESSEE: SHANNON, DIANA/EPA
CC: MORENO * BROWN * DESAUTELS * SPAANSTRA * LAWRENCE * KRABLIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0015 THRU: 749/0020
NOTES: UPDATE 10

FILE: 1020102 DOCNO: 434719 DATE: JUN. 29, 1989 PAGE: 2
ATTACHED TO: 434718
TITLE: (ATTACHMENT 1: CERTIFICATE OF CHRONOLOGICAL SUMMARY OF ANACONDA AND ARCO CORPORATE EVOLUTION 1895-1986)
AUTHOR: LINN, THOMAS F./ARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 749/0021 THRU: 749/0022
NOTES: UPDATE 10

FILE: 1020102 DOCNO: 434720 DATE: MAR. 1990 (E) PAGE: 1
ATTACHED TO: 434718
TITLE: (ATTACHMENT 2: REDUCTION OF MAP BLUEPRINT LOCATING ZINC FUMING PLANT)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0023 THRU: 749/0023
NOTES: UPDATE 10

FILE: 1020102 DOCNO: 434721 DATE: APR. 30, 1968 PAGE: 7
ATTACHED TO: 434718
TITLE: (ATTACHMENT 3: GENERAL INFORMATION, CHEMICAL ANALYSIS, EXIT GASES, COLLECTION SYSTEM, AND PROCESS DIAGRAM OF EAST HELENA SLAG TREATING PLANT)
AUTHOR: KANE, A.B./EAST HELENA SLAG TREATING PLANT)
ADDRESSEE: MICHAELY, WILLIAM D./ARTHUR G. MCKEE AND CO.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * HANDWRITTEN * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 749/0024 THRU: 749/0030
KEYWORD(S): DUST * COPPER * SLAG * LEACHATE * IRON * ZINC
NOTES: UPDATE 10
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FILE: 1020102 DOCNO: 434722 DATE: MAY 1, 1972 PAGE: 22
ATTACHED TO: 434718
TITLE: (ATTACHMENT 4: TRANSMITS ATTACHED INFORMATION CONCERNING CHEMICAL CONSTITUENTS AND CONCENTRATIONS FOR EAST HELENA OPERATIONS)
AUTHOR: GRAY, W.E./ANACONDA COMPANY GREAT FALLS REDUCTION DEPARTMENT
ADDRESSEE: ROBERTS, W.J.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/0031 THRU: 749/0052
KEYWORD(S): SLAG * LEAD * ZINC
NOTES: UPDATE 10
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FILE: 1020102 DOCNO: 434723 DATE: DEC. 4, 1969 PAGE: 25
ATTACHED TO: 434718
TITLE: (ATTACHMENT 5: VARIOUS CORRESPONDENCE REGARDING SHIPPING AND SALES RECORDS OF ZINC FUME AND ZINC DROSS SOLD TO AMERICAN CHEMET)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0053 THRU: 749/0077
NOTES: UPDATE 10
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FILE: 1020102 DOCNO: 434724 DATE: DEC. 14, 1971 PAGE: 7
ATTACHED TO: 434718
TITLE: (EXHIBIT 6: SALES AGREEMENT BETWEEN ANACONDA COMPANY AND AMERICAN CHEMET)
AUTHOR: /ANACONDA COMPANY * /AMERICAN CHEMET
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 749/0078 THRU: 749/0084
NOTES: UPDATE 10
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FILE: 1020102 DOCNO: 434725 DATE: 1971 PAGE: 21
ATTACHED TO: 434718
TITLE: (EXHIBIT 7: VARIOUS CORRESPONDENCE REGARDING SALES OF FUME ALLOTMENT FOR 1971)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0085 THRU: 749/0105
NOTES: UPDATE 10
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FILE: 1020102 DOCNO: 434726 DATE: 1970 PAGE: 23
ATTACHED TO: 434718
TITLE: (EXHIBIT 8: VARIOUS CORRESPONDENCE REGARDING SALES OF FUME ALLOTMENT FOR 1970)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0106 THRU: 749/0128
NOTES: UPDATE 10
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FILE: 1020102 DOCNO: 434727 DATE: SEP. 26, 1972 PAGE: 42
ATTACHED TO: 434718
TITLE: (CORRESPONDENCE REGARDING SALES OF FUME ALLOTMENT FOR VARIOUS YEARS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/0129 THRU: 749/0170
NOTES: UPDATE 10
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FILE: 1020102 DOCNO: 434728 DATE: APR. 1, 1958 PAGE: 51
ATTACHED TO: 434718
TITLE: (ATTACHMENT 7: "RESIDUES AND LEAD CONCENTRATES TREATMENT CONTRACT")
AUTHOR: /ASARCO * /ANACONDA COMPANY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 749/0171 THRU: 749/0221
KEYWORD(S): AIR * COPPER * LEAD * SILVER * ZINC
NOTES: UPDATE 10
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FILE: 1020103 DOCNO: 0220747 DATE: AUG. 9, 1990 PAGE: 1
TITLE: (EPA REJECTION OF AMERICAN CHEMET DEMINIMIS SETTLEMENT OFFER)
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: LAKE, CLIFTON A./MCBRIDE, BAKER AND COLES
CC: WARDELL * BROWN * BOHAN * GOODSTEIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0566 THRU: 300/0566
NOTES: UPDATE 02
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FILE: 1020103 DOCNO: 465847 DATE: DEC. 12, 2005 PAGE: 3
TITLE: (COMMENTS ON PURCHASING ASARCO PROPERTY AND PRP STATUS)
AUTHOR: BRIMHALL, DANIEL B./AMERICAN CHEMET
ADDRESSEE: WARDELL, JOHN/EPA
CC: BROWN * SHROPSHIRE * SCHINDLER * PALMER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1804/0022 THRU: 1804/0024
NOTES: UPDATE 32

FILE: 1020103 DOCNO: 465848 DATE: DEC. 14, 2005 PAGE: 3
TITLE: (DISCUSSES SECOND PRP STATUS REQUEST AND ASARCO FIVE YEAR PLAN; ATTACHED ORE STORAGE YARD MAP)
AUTHOR: BRIMHALL, DANIEL B./AMERICAN CHEMET
ADDRESSEE: WARDELL, JOHN/EPA
CC: BROWN * SCHROPSHIRE * SCHINDLER * PALMER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1804/0025 THRU: 1804/0028
NOTES: UPDATE 32

FILE: 1020103 DOCNO: 465849 DATE: DEC. 15, 2005 PAGE: 1
ATTACHED DOC(S): 465850 THRU: 465851
TITLE: (RESPONDS TO AND ACKNOWLEDGES RECEIPT OF DEC. 12, 2005 PRP STATUS CHANGE LETTER AND STATES LETTER FORWARDED TO EPA HEADQUARTERS)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: BRIMHALL, DANIEL B./AMERICAN CHEMET
CC: MOORES * KERCHER * TIEGER * JACOBSON * BROWN * FIGUR * MADIGAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1804/0029 THRU: 1804/0029
NOTES: UPDATE 32

FILE: 1020103 DOCNO: 465850 DATE: DEC. 15, 2005 PAGE: 1
ATTACHED TO: 465849
TITLE: (RESPONDS TO AND ACKNOWLEDGES RECEIPT OF DEC. 14, 2005 LETTER PROVIDING ADDITIONAL INFORMATION AND REQUESTING MEETING)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: BRIMHALL, DANIEL B./AMERCIAN CHEMET
CC: MOORES * MADIGAN * TIEGER * KERCHER * JACOBSON * FIGUR * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1804/0030 THRU: 1804/0030
NOTES: UPDATE 32

FILE: 1020103 DOCNO: 465851 DATE: DEC. 20, 2005 PAGE: 1
ATTACHED TO: 465849
TITLE: (RESPONDS TO DEC. 12-14, 2005 LETTERS AND STATES WILLING TO DISCUSS PROPOSED LAND USE PLANS AND REQUESTS HISTORICAL, DISCHARGE AND EMISSIONS AND CONTAMINATION INFORMATION)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: BRIMHALL, DANIEL B./AMERICAN CHEMET
CC: MOORES * MADIGAN * KERCHER * BROWN * JACOBSON * LAND * FIGUR
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1804/0031 THRU: 1804/0031
NOTES: UPDATE 32

FILE: 1020200 DOCNO: 0131995 DATE: FEB. 1, 1996 (E) PAGE: 12
TITLE: SOW WORK ASSIGNMENT 13 (GUIDANCE ON PREPARATION OF SOWS)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 300/0568 THRU: 300/0579
NOTES: UPDATE 02

FILE: 1020200 DOCNO: 0132007 DATE: FEB. 1996 (E) PAGE: 7
TITLE: PROPOSED WORK PLAN FOR WORK ASSIGNMENT 13
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 300/0580 THRU: 300/0586
NOTES: UPDATE 02

FILE: 1020200 DOCNO: 0132014 DATE: MAY 1987 (E) PAGE: 3
TITLE: GENERIC SOW, PRP SEARCH
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0587 THRU: 300/0589
NOTES: UPDATE 02

FILE: 1020200 DOCNO: 0132017 DATE: MAY 7, 1987 PAGE: 2
TITLE: RESPONSIBLE PARTY SEARCH (NOTES ON CONVERSATIONS CONCERNING PRP SEARCH FOR AMERICAN CHEMET OR ANACONDA)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 300/0590 THRU: 300/0591
KEYWORD(S): AMC/ARCO * AMERICAN CHEMET CORPORATION
NOTES: UPDATE 02

FILE: 1020200 DOCNO: 0132019 DATE: JUN. 4, 1987 PAGE: 4
TITLE: (GENERIC SOW AND CONTRACT FOR PRP SEARCH AT BNRR SITE)
AUTHOR: FINKE, ERIC/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 300/0592 THRU: 300/0595
NOTES: UPDATE 02

FILE: 1020200 DOCNO: 0161481 DATE: MAY 23, 1989 PAGE: 2
TITLE: (TRANSMITS ATTACHED APR. 1989 PROGRESS REPORT ON PRP SEARCH)
AUTHOR: /J. F. SATO AND ASSOCIATES
ADDRESSEE: PHOEBE, GREG/EPA
CC: HANLEY * KALWEI * BROWN * WALLACE * HOLMES * COURSEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0596 THRU: 300/0597
NOTES: UPDATE 02

FILE: 1020200 DOCNO: 0191571 DATE: FEB. 8, 1990 PAGE: 4
TITLE: (CERTIFIED PRP SEARCH FOLLOW-UP REQUEST FOR INFORMATION FROM ARCO CONCERNING EAST HELENA CERCLA SITE)
AUTHOR: SHANNON, DIANA/EPA
ADDRESSEE: DENT, ROBERT/AMC
CC: MORENO * BROWN * WARDELL * DESAUTELS * SATO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0598 THRU: 300/0601
NOTES: UPDATE 02

FILE: 1020200 DOCNO: 0191580 DATE: FEB. 8, 1990 PAGE: 3
TITLE: (CERTIFIED PRP SEARCH FOLLOW-UP REQUEST FOR INFORMATION FROM AMERICAN CHEMET CONCERNING EAST HELENA CERCLA SITE)
AUTHOR: SHANNON, DIANA/EPA
ADDRESSEE: ROOKS, PITTS AND POUST/AMERICAN CHEMET
CC: MORENO * BROWN * WARDELL * DESAUTELS * LAWRENCE * SATO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0602 THRU: 300/0604
KEYWORD(S): LEAD * ZINC * AMERICAN CHEMET CORPORATION
NOTES: UPDATE 02

FILE: 1020300 DOCNO: 0230848 DATE: OCT. 31, 1990 PAGE: 2
ATTACHED DOC(S): 0230850 THRU: 0230898
TITLE: (TRANSMITS ASARCO DEMONSTRATION OF FINANCIAL ASSURANCE DOCUMENTS)
AUTHOR: DOWNING, PETER W./HOLLAND AND HART * LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: BOHAN, SUZANNE J./EPA
CC: GOODSTEIN * HART * DAVIS * NICKEL * MORISON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 321/0351 THRU: 321/0352
NOTES: UPDATE 02

FILE: 1020300 DOCNO: 0230850 DATE: OCT. 25, 1990 PAGE: 4
ATTACHED TO: 0230848
TITLE: (DISCUSSES DEMONSTRATION OF FINANCIAL ASSURANCE)
AUTHOR: MCALLISTER, FRANCIS R./ASARCO
ADDRESSEE: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 321/0353 THRU: 321/0356
NOTES: UPDATE 02

FILE: 1020300 DOCNO: 0230854 DATE: OCT. 25, 1990 PAGE: 2
ATTACHED TO: 0230848
TITLE: (DISCUSSES ASSISTANCE TO DEMONSTRATE FINANCIAL ASSURANCE)
AUTHOR: /COOPERS AND LYBRAND
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 321/0357 THRU: 321/0358
NOTES: UPDATE 02

FILE: 1020300 DOCNO: 0230856 DATE: 1989 PAGE: 43
ATTACHED TO: 0230848
TITLE: "ASARCO INCORPORATED 1989 ANNUAL REPORT"
AUTHOR: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 321/0359 THRU: 321/0401
NOTES: UPDATE 02

FILE: 1020300 DOCNO: 424480 DATE: FEB. 19, 1993 PAGE: 52
TITLE: (TRANSMITS ATTACHED DOCUMENTS AS DEMONSTRATION OF FINANCIAL ASSURANCE; ATTACHED NOTE FROM BOHAN TO BROWN STATING RESPONSE NOT NECESSARY)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: GOODSTEIN * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0019 THRU: 627/0069
NOTES: UPDATE 07

FILE: 1020400 DOCNO: 0132023 DATE: JUL. 9, 1987 PAGE: 26
TITLE: (DISCUSSES DRAFT PROCEDURES FOR ADMINISTRATIVE SETTLEMENTS UNDER SECTION 122(H)(1) AND (G)(4) OF CERCLA AND JUL. 2, 1987 REQUEST LETTER FROM LEIFER FOR REVIEW AND COMMENT ON DRAFT GUIDANCE DOCUMENT; ATTACHED JUL. 9, 1987 TRANSMITTAL FROM CLEMMONS)
AUTHOR: ADAMS, THOMAS L./(EPA) * PORTER, J. WINSTON/(EPA) * HABICHT, F. HENRY
ADDRESSEE: REGIONAL ADMINISTRATORS * REGIONAL COUNSELS * REGIONAL WASTE MANAGEMENT DIVISION DIRECTORS
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0605 THRU: 300/0630
NOTES: UPDATE 02

FILE: 1020400 DOCNO: 0132049 DATE: JUL. 13, 1987 PAGE: 2
TITLE: (DISCUSSION WITH ERIC CONCERNING COST RECOVERY)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 300/0631 THRU: 300/0632
NOTES: UPDATE 02

FILE: 1020400 DOCNO: 0191583 DATE: FEB. 28, 1990 PAGE: 4
TITLE: (CERTIFIED GENERAL NOTICE AND DEMAND LETTER FOR PAST COSTS INCURRED IN CONNECTION WITH RESPONSE ACTIONS AT EAST HELENA SMELTER SITE)
AUTHOR: DUPREY, ROBERT/EPA
ADDRESSEE: BRIMHALL, DAN/AMERICAN CHEMET * SEEP, DAVE/BNRR
CC: MORENO * BROWN * EGGERT * MULLEN * THORVILSON * MAGONE * WRIGHT * GOODSTEIN * LAKE * ZAEGEL * KATHY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0633 THRU: 300/0636
NOTES: UPDATE 02

FILE: 1020400 DOCNO: 0220748 DATE: AUG. 24, 1990 PAGE: 1
TITLE: (COMMENTS REGARDING FINALIZING ACCOUNTING OF PAST RESPONSE COSTS INCURRED BY UNITED STATES)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: NICKEL * MCCORMICK * BROWN * STURN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0567 THRU: 300/0567
NOTES: UPDATE 02

FILE: 1020400 DOCNO: 402723 DATE: MAR. 25, 1991 PAGE: 2
TITLE: (REQUESTS DOCUMENTATION OF ANNUAL OVERSIGHT COSTS FROM JAN. 1 - DEC. 31, 1990)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BOHAN, SUZANNE J./EPA * BROWN, D. SCOTT/EPA * STURN, DAVID/EPA
CC: DAVIS * HART * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0076 THRU: 415/0077
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402724 DATE: MAR. 25, 1991 PAGE: 2
TITLE: (REGARDS ACCOUNTING FOR COST RECOVERY FROM JAN. 1 - DEC. 31, 1990)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BOHAN, SUZANNE J./EPA * BROWN, D. SCOTT/EPA * STURN, DAVID/EPA
CC: DAVIS * HART * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0078 THRU: 415/0079
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402725 DATE: MAR. 27, 1991 PAGE: 1
TITLE: (REGARDS REIMBURSEMENT OF RESPONSES COST FOR EAST HELENA AND DESIGNATED ADDRESS FOR DELIVERY OF PAYMENT BY ASARCO)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: BROWN * STURN * RODRIGUEZ
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0080 THRU: 415/0080
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402726 DATE: MAR. 28, 1991 PAGE: 8
TITLE: (CONTESTS COSTS FOR OVERSIGHT FROM JAN. 1, 1981 - DEC. 31, 1990; ATTACHED COPIES OF CERTIFIED CHECKS)
AUTHOR: DAVIS, J.B./ASARCO
ADDRESSEE: BOHAN, SUZANNE J./EPA * GOODSTEIN, MICHAEL D./DOJ
CC: BROWN * NICKEL * HART * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0081 THRU: 415/0088
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402727 DATE: MAR. 29, 1991 PAGE: 5
TITLE: (TRANSMITS ATTACHED COPIES OF CERTIFIED CHECKS AS PAYMENT FOR RESPONSE AND OVERSIGHT COSTS; ATTACHED FEDERAL EXPRESS RECEIPT 7468258125)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: RODRIGUEZ, BARBARA/EPA
CC: BROWN * BOHAN * GOODSTEIN * DAVIS * NICKEL * HART
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0089 THRU: 415/0093
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402728 DATE: APR. 8, 1991 PAGE: 9
TITLE: (TRANSMITS ATTACHED DOCUMENTATION SHOWING PARTIAL PAYMENT OF PAST COSTS AND OVERSIGHT COSTS BY ASARCO ON SITE 30)
AUTHOR: MACFADDEN, FRANK P./EPA
ADDRESSEE: STURN, DAVID/EPA
CC: BROWN * BOHAN * LAND
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/0094 THRU: 415/0102
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402729 DATE: MAY 24, 1991 PAGE: 2
TITLE: (COMMENTS REGARDING RESOLUTION OF DISPUTE FOR RESPONSE COSTS BY EPA AND REQUEST TO END INFORMAL NEGOTIATIONS)
AUTHOR: SCHERER, JAMES J./EPA
ADDRESSEE: DAVIS, J.B./ASARCO
CC: BOHAN * GOODSTEIN * STURN * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0103 THRU: 415/0104
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402730 DATE: MAY 31, 1991 PAGE: 6
TITLE: (RESPONDS TO MAY 24, 1991 LETTER REQUESTING WRITTEN AGREEMENT TERMINATING INFORMAL NEGOTIATION PERIOD BY ASARCO; ATTACHED STATUS OF COST DOCUMENTATION REQUESTED)
AUTHOR: DAVIS, J.B./ASARCO
ADDRESSEE: SCHERER, JAMES J./EPA
CC: BOHAN * GOODSTEIN * STURN * BROWN * JENSEN * HART * NICKEL * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0105 THRU: 415/0110
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402731 DATE: JUL. 23, 1991 PAGE: 3
TITLE: (TRANSMITS ATTACHED ACCOUNTING FOR RECOVERY OF PAST COSTS FOR RESPONSE ACTIVITY)
AUTHOR: MACFADDEN, FRANK P./EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: LAND * BROWN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0111 THRU: 415/0113
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402732 DATE: MAR. 29, 1991 PAGE: 2
TITLE: (TRANSMITS CERTIFIED CHECKS IN PAYMENT OF UNCONTESTED RECOVERY COSTS FOR JAN. 1, 1981 - DEC. 31, 1989)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: RODRIGUEZ, BARBARA/EPA
CC: BROWN * BOHAN * GOODSTEIN * DAVIS * NICKEL * HART * LAND * STURN * ELBECK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0114 THRU: 415/0115
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402734 DATE: APR. 17, 1999 (1991) PAGE: 2
TITLE: (RESPONDS TO MAR. 28 LETTER FROM DAVIS CONCERNING CONTESTED COST RECOVERY COSTS)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: DAVIS * GOODSTEIN * STURN * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0116 THRU: 415/0117
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402735 DATE: MAY 14, 1991 PAGE: 1
TITLE: (REQUESTS TO EXTEND DISPUTE RESOLUTION PERIOD FOR COST RECOVERY NEGOTIATIONS)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: GOODSTEIN * STURN * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0118 THRU: 415/0118
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402888 DATE: APR. 15, 1991 PAGE: 5
ATTACHED DOC(S): 402889
TITLE: (TRANSMITS ATTACHED DUPLICATES PROVING COST RECOVERY CHECKS WERE DEPOSITED IN UNITED BANK OF DENVER ESCROW ACCOUNT)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: BROWN, D. SCOTT/EPA * BOHAN, SUZANNE J./EPA
CC: NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 416/0567 THRU: 416/0571
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402889 DATE: MAR. 28, 1991 PAGE: 8
ATTACHED TO: 402888
TITLE: (CONTESTS RECOVERY OF RESPONSE COST AND TRANSMITS ATTACHED CHECKS IN PAYMENT FOR OVERSIGHT COSTS JAN. 1, 1981 - DEC. 31, 1990)
AUTHOR: DAVIS, J. B./ASARCO
ADDRESSEE: BOHAN, SUZANNE J./EPA * GOODSTEIN, MICHAEL D./DOJ
CC: BROWN * NICKEL * HART * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 416/0572 THRU: 416/0579
NOTES: UPDATE 03

FILE: 1020400 DOCNO: 402954 DATE: JUL. 22, 1991 PAGE: 6
ATTACHED DOC(S): 402955
TITLE: (IDENTIFYING ADDITIONAL COSTS UNCOVERED FOR COST RECOVERY AND TRANSMITS ATTACHED STATE QUARTERLY PROGRESS REPORTS AND ROUTE SLIP STATING BILL WAS HAND DELIVERED)
AUTHOR: STURN, DAVID/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: BOHAN * LAND * BROWN * PIZZINI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0013 THRU: 436/0018
NOTES: UPDATE 04

FILE: 1020400 DOCNO: 402955 DATE: JUL. 23, 1991 PAGE: 1
ATTACHED TO: 402954
TITLE: (BILL FOR COLLECTION OF ADDITIONAL COSTS)
AUTHOR: /EPA
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: ACCOUNTING DOCUMENT
MICROFILM ROLL/FRAME NO.: 436/0019 THRU: 436/0019
NOTES: UPDATE 04

FILE: 1020400 DOCNO: 424481 DATE: SEP. 13, 1993 PAGE: 8
TITLE: (TRANSMITS ATTACHED DOCUMENTATION FOR 1992 COSTS RECOVERED)
AUTHOR: MACFADDEN, FRANK P./EPA
ADDRESSEE: STURN, DAVE/EPA
CC: LAND * BOHAN * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/0070 THRU: 627/0077
NOTES: UPDATE 07

FILE: 1020400 DOCNO: 424482 DATE: OCT. 1, 1993 PAGE: 4
TITLE: (TRANSMITS ATTACHED ANNUAL BILLING CONSENT DECREE CV90-46-H-CCL; ATTACHED INTEREST CALCULATIONS AND BILL FOR COLLECTION)
AUTHOR: MACFADDEN, FRANK P./EPA
ADDRESSEE: SPICKELMIER, JAY/ASARCO
CC: STURN * BOHAN * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0078 THRU: 627/0081
NOTES: UPDATE 07

FILE: 1020400 DOCNO: 424755 DATE: NOV. 10, 1993 PAGE: 3
ATTACHED DOC(S): 424756
TITLE: (TRANSMITS DOCUMENTS RELATING TO PAYMENT RECEIVED FOR SUPERFUND SITE 8T30; ATTACHED STATEMENT AND COPY OF CHECK FOR INTEREST PAYMENT)
AUTHOR: MACFADDEN, FRANK P./EPA
ADDRESSEE: STURN, DAVID/EPA
CC: LAND * BOHAN * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 669/0008 THRU: 669/0010
KEYWORD(S): COST DOCUMENT
NOTES: UPDATE 08

FILE: 1020400 DOCNO: 424756 DATE: NOV. 8, 1993(E) PAGE: 4
ATTACHED TO: 424755
TITLE: (REQUESTS PAYMENT OF INTEREST CHARGES ACCRUED FOR REIMBURSEMENT OF RESPONSE COSTS; ATTACHED INTEREST CALCULATIONS AND BILL FOR COLLECTION)
AUTHOR: MACFADDEN, FRANK P./EPA
ADDRESSEE: SPICKELMIER, JAY/ASARCO
CC: STURN * BOHAN * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0011 THRU: 669/0014
KEYWORD(S): COST DOCUMENT
NOTES: UPDATE 08

FILE: 1020400 DOCNO: 425851 DATE: JUN. 15, 1994 PAGE: 2
ATTACHED DOC(S): 425852
TITLE: (TRANSMITS DOCUMENTS CONCERNING PAYMENT RECEIVED FOR SUPERFUND SITE 8T30 EAST HELENA SMELTER; ATTACHED TRANSMITTAL SLIP)
AUTHOR: MACFADDEN, FRANK P./EPA
ADDRESSEE: STURN, DAVID/EPA
CC: LAND * BOHAN * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/0015 THRU: 737/0016
NOTES: UPDATE 09

FILE: 1020400 DOCNO: 425852 DATE: JUN. 10, 1994 PAGE: 4
ATTACHED TO: 425851
TITLE: (TRANSMITS COPY OF CHECK FOR PAYMENT OF RESPONSE COSTS)
AUTHOR: HART, WILLIAM O./ASARCO
ADDRESSEE: /MELLON BANK
CC: BROWN * GOODSTEIN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0017 THRU: 737/0020
NOTES: UPDATE 09

FILE: 1020500 DOCNO: 0132051 DATE: APR. 25, 1983(E) PAGE: 1
TITLE: (TELEPHONE MESSAGE FROM DITOMMASE/OSHA TO SCOTT AND NOTE ON RETURN CALL)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 300/0637 THRU: 300/0637
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190001 DATE: JAN. 9, 1981 PAGE: 1
TITLE: PRE-REMEDIAL ACTIVITIES (POTENTIAL HAZARDOUS WASTE SITE LOG - EAST HELENA PLANT - AMERICAN SMELTING AND REFINING)
AUTHOR: NIELSEN, M.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 300/0638 THRU: 300/0638
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190002 DATE: FEB. 21, 1981 PAGE: 1
TITLE: "PANEL AXES STRICT FLUORIDE LIMIT" (PRE-REMEDIAL ACTIVITIES)
AUTHOR: ELKIN, LARRY/INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 300/0639 THRU: 300/0639
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190003 DATE: FEB. 21, 1981 PAGE: 1
TITLE: "ASARCO, STATE IN AGREEMENT ON SULFUR LIMIT"; "EXPLORATORY DRILLING SETS MARK IN STATE" (PRE-REMEDIAL ACTIVITIES)
AUTHOR: /INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 300/0640 THRU: 300/0640
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190004 DATE: 1993 (E) PAGE: 7
TITLE: (PRE-REMEDIAL ACTIVITIES: HRS COVER SHEET AND WORK SHEETS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0641 THRU: 300/0647
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190011 DATE: 1982 (E) PAGE: 2
TITLE: (PRE-REMEDIAL ACTIVITIES: EAST HELENA DESCRIPTION OF SITE INVESTIGATIONS)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 300/0648 THRU: 300/0649
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190013 DATE: 1982 (E) PAGE: 3
TITLE: (PRE-REMEDIAL ACTIVITIES: EAST HELENA: DESCRIPTION OF SITE INVESTIGATION, RESPONSE STATUS AND ENFORCEMENT STATUS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0650 THRU: 300/0652
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190016 DATE: JUN. 28, 1982 PAGE: 13
TITLE: (PRE-REMEDIAL ACTIVITIES: DOCUMENTATION RECORDS FOR HRS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0653 THRU: 300/0665
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190029 DATE: JUN. 28, 1982 PAGE: 13
TITLE: (PRE-REMEDIAL ACTIVITIES: DOCUMENTATION RECORDS FOR HRS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0666 THRU: 300/0678
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190042 DATE: JUN. 28, 1982 PAGE: 13
TITLE: (PRE-REMEDIAL ACTIVITIES: DOCUMENTATION RECORDS FOR HRS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0679 THRU: 300/0691
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190055 DATE: FEB. 18, 1983 PAGE: 5
TITLE: (PRE-REMEDIAL ACTIVITIES: REQUESTS TECHNICAL ASSISTANCE FROM USGS; ATTACHED PROPOSAL FOR USGS REVIEW)
AUTHOR: ALKEMA, KENNETH L./EPA
ADDRESSEE: MURPHY, J. ROY/EPA
CC: WARDELL * ANDERSEN * GREENE * MORELAND
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 300/0692 THRU: 300/0696
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190060 DATE: MAY 13, 1983 PAGE: 4
TITLE: (PRE-REMEDIAL ACTIVITIES: AMENDMENT TO TECHNICAL ASSISTANCE AGREEMENT BETWEEN REGION 8 MONTANA EPA AND MONTANA USGS; ATTACHED DESCRIPTIONS OF PHASE 1 WORK AND BUDGET)
AUTHOR: ALKEMA, KENNETH L./EPA
ADDRESSEE: MURPHY, J. ROY/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 300/0697 THRU: 300/0700
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190064 DATE: JUN. 8, 1983 PAGE: 10
TITLE: (PRE-REMEDIAL ACTIVITIES: POTENTIAL HAZARDOUS WASTE SITE INSPECTION [SI] REPORT)
AUTHOR: TAYLOR, GENE/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0701 THRU: 300/0710
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190074 DATE: JUN. 9, 1983 PAGE: 8
TITLE: (PRE-REMEDIAL ACTIVITIES: HRS COVER SHEET WITH ATTACHED WORK SHEETS)
AUTHOR: TAYLOR, GENE/(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0711 THRU: 300/0718
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190082 DATE: JUN. 9, 1983 PAGE: 6
TITLE: (PRE-REMEDIAL ACTIVITIES: HRS COVER SHEET AND WORK SHEETS)
AUTHOR: TAYLOR, GENE/(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0719 THRU: 300/0724
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190088 DATE: JUN. 9, 1983 PAGE: 7
TITLE: (PRE-REMEDIAL ACTIVITIES: HRS COVER SHEET AND WORK SHEETS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0725 THRU: 300/0731
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190095 DATE: SEP. 8, 1983 PAGE: 7
TITLE: (PRE-REMEDIAL ACTIVITIES: EAST HELENA GROUNDWATER SAMPLING QUALITY ASSURANCE PLAN WITH TRANSMITTAL MEMO)
AUTHOR: TAYLOR, GENE/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0732 THRU: 300/0738
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190102 DATE: SEP. 14, 1983 PAGE: 6
TITLE: (PRE-REMEDIAL ACTIVITIES: AUTHORIZATION TO PROCEED WITH RI/FS AT EAST HELENA SMELTER SITE ACTION MEMORANDUM)
AUTHOR: LUCERO, GENE A./EPA
ADDRESSEE: THOMAS, LEE M./EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 300/0739 THRU: 300/0744
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190108 DATE: NOV. 2, 1983 PAGE: 12
TITLE: (PRE-REMEDIAL ACTIVITIES: FOIA REQUEST FOR COPIES OF ALL MATERIALS IN POSSESSION OF EPA RELATING TO EAST HELENA SMELTER SITE; ATTACHED LIST OF MATERIALS POSSESSED BY ASARCO)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: GREEN, JERALENE/EPA
CC: EVANS * TAYLOR
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0745 THRU: 300/0756
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190120 DATE: NOV. 21, 1983 PAGE: 3
TITLE: (PRE-REMEDIAL ACTIVITIES: PROPOSED EAST HELENA SUPERFUND SITE; STATEMENT OF ASARCO POSITION EAST HELENA SITE NOT BE INCLUDED ON NPL)
AUTHOR: MORISON, FRANK H./HOLLAND AND HART
ADDRESSEE: DRYNAN, JOHN J./MDHES * WELLES, JOHN G./EPA
CC: BARTLETT * ROBBINS * WARDELL * TAYLOR * SHARP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0757 THRU: 300/0759
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190123 DATE: NOV. 21, 1983 PAGE: 23
TITLE: (PRE-REMEDIAL ACTIVITIES: PROPOSED EAST HELENA SUPERFUND SITE, STATEMENT OF ASARCO POSITION EAST HELENA SITE NOT BE INCLUDED ON NPL; ATTACHED ASARCO COMMENTS REGARDING PROPOSED LISTING)
AUTHOR: MORISON, FRANK H./HOLLAND AND HART
ADDRESSEE: DRYNAN, JOHN J./MDHES * WELLES, JOHN G./EPA
CC: BARTLETT * ROBBINS * WARDELL * TAYLOR * SHARP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0760 THRU: 300/0782
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190146 DATE: DEC. 5, 1983 PAGE: 4
TITLE: (PRE-REMEDIAL ACTIVITIES: EAST HELENA SUPERFUND SITE; SUMMARY OF INVESTIGATION RESULTS; ATTACHED MAPS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0783 THRU: 300/0786
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190150 DATE: DEC. 6, 1983 PAGE: 1
TITLE: (PRE-REMEDIAL ACTIVITIES: RESPONSE TO LETTER OF NOV. 21, 1983 REGARDING ASARCO SMELTER; REQUESTS MEETING TO ADDRESS ISSUES)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: MORISON, FRANK H./HOLLAND AND HART
CC: DRYNAN * ROBERTSON * MANGANIELLO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0787 THRU: 300/0787
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190151 DATE: JAN. 6, 1984 PAGE: 1
TITLE: (PRE-REMEDIAL ACTIVITIES: DALLAS SOIL SAMPLES)
AUTHOR: DICKSTEIN, IRWIN L./EPA
ADDRESSEE: DAVIS, AL
CC: /SUPERFUND PROGRAM CHIEF * SKIE * TOURANGEAU
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 300/0788 THRU: 300/0788
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190152 DATE: APR. 9, 1984 PAGE: 3
TITLE: (PRE-REMEDIAL ACTIVITIES: TRANSMITS WORK PLAN FOR RI FOR EAST HELENA SITE; ATTACHED TRANSMITTAL SLIP)
AUTHOR: SKIE, DOUGLAS M./(EPA)
ADDRESSEE: SHARP, M. A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 300/0789 THRU: 300/0791
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190155 DATE: APR. 23, 1984 PAGE: 1
TITLE: (PRE-REMEDIAL ACTIVITIES: REVIEW COMMENTS ON FINAL WORK PLAN FOR ASARCO PHASE 1 RI)
AUTHOR: DICKSTEIN, IRWIN L./EPA
ADDRESSEE: TAYLOR, GENE/EPA
CC: JOHNSON * WARDELL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 300/0792 THRU: 300/0792
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190156 DATE: MAY 1984 PAGE: 27
TITLE: (PRE-REMEDIAL ACTIVITIES: FINAL COMMUNITY RELATIONS PLAN EAST HELENA SMELTER SITE EAST HELENA, MONTANA; ATTACHED TRANSMITTAL FROM GILSON)
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0793 THRU: 300/0819
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190183 DATE: MAY 17, 1984 PAGE: 6
TITLE: (PRINTOUT OF SCHEDULE AND PRE-REMEDIAL ACTIVITIES: OERR T-1 ERRIS TURNAROUND DOCUMENT)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0820 THRU: 300/0825
NOTES: UPDATE 02

FILE: 1030000 DOCNO: 0190217 DATE: MAY 17, 1985 PAGE: 8
TITLE: (PRE-REMEDIAL ACTIVITIES: MODIFICATION TO STILLER AND ASSOCIATES SUBCONTRACT PHASE 1 RI ASARCO RI/FS)
AUTHOR: LUCERO, JOHN/CH2M HILL * SCHWING, JIM/CH2M HILL
ADDRESSEE: LAMB, KATHY/CH2M HILL
CC: LOVELL * KOHONOSKI * VAN MUNSTER * TAYLOR * WONG * BUTT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 300/0854 THRU: 300/0861
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0020001 DATE: JUL. 1985 PAGE: 113
TITLE: "EAST HELENA, MONTANA CHILD LEAD STUDY SUMMER 1983" (FINAL DRAFT REPORT)
AUTHOR: /LEWIS AND CLARK COUNTY HEALTH DEPARTMENT * /MDHES * /CDC * /EPA
QUALIFIER(S): DRAFT * REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0862 THRU: 300/0974
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0020114 DATE: JUL. 26, 1985 PAGE: 37
TITLE: "ESTIMATING THE AMOUNT OF SOIL INGESTED BY YOUNG CHILDREN THROUGH TRACER ELEMENTS" (WITH JUL. 26, 1985 TRANSMITTAL FROM BINDER)
AUTHOR: BINDER, SUE/CDC * SOKAL, DAVID/CDC * MAUGHAN, DAVID/MDHES
QUALIFIER(S): REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/0975 THRU: 300/1011
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0020151 DATE: AUG. 1, 1985 PAGE: 116
TITLE: "EAST HELENA, MONTANA, CHILD LEAD STUDY SUMMER 1983" (FINAL DRAFT REPORT)(ATTACHED TRANSMITTAL FROM SCHILLING)
AUTHOR: /MDHES * /CDC * /EPA * /LEWIS AND CLARK COUNTY HEALTH DEPARTMENT
QUALIFIER(S): DRAFT * REPRODUCTION * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/1012 THRU: 300/1127
KEYWORD(S): LEAD * ARSENIC * CADMIUM * COPPER * ZINC
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0020267 DATE: JAN. 24, 1986 PAGE: 316
TITLE: (DATA PACKAGE CONSISTING OF DRAFT 1983 EAST HELENA, MONTANA, CHILD LEAD STUDY FOR REVIEW; INCLUDES COMMENTS ON REPORT)
AUTHOR: SCHILLING, REBECCA J./CDC
ADDRESSEE: TAYLOR, GENE D./EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * DRAFT * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/1128 THRU: 300/1443
KEYWORD(S): LEAD * ARSENIC * CADMIUM * ZINC * AIR * DUST
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0020583 DATE: MAR. 1986 PAGE: 377
TITLE: "EAST HELENA, MONTANA CHILD LEAD STUDY SUMMER 1983" (FINAL DRAFT REPORT)
AUTHOR: /LEWIS AND CLARK COUNTY HEALTH DEPARTMENT * /MDHES * /CDC * /EPA
QUALIFIER(S): DRAFT * REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/1444 THRU: 300/1820
KEYWORD(S): LEAD * ARSENIC * CADMIUM * COPPER * ZINC * AIR * DUST * SOIL
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0020960 DATE: MAR. 1988 PAGE: 2
TITLE: "LEWIS AND CLARK COUNTY BLOOD LEAD SCREENING PROGRAM FOURTH QUARTER 1987"
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/1821 THRU: 300/1822
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0020962 DATE: JUL. 1986 PAGE: 186
TITLE: "KELLOGG REVISITED 1983, CHILDHOOD BLOOD LEAD AND ENVIRONMENTAL STATUS REPORT"
AUTHOR: /PANHANDLE DISTRICT HEALTH DEPARTMENT * /IDAHO DEPARTMENT OF HEALTH AND WELFARE * /CENTER FOR ENVIRONMENTAL HEALTH * /CDC * /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/1823 THRU: 300/2008
KEYWORD(S): LEAD * ZINC * DUST * AIR
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0021148 DATE: JUL. 1986 PAGE: 324
TITLE: "EAST HELENA, MONTANA CHILD LEAD STUDY SUMMER 1983" (FINAL REPORT CORRECTED COPY)(FOR 2 COLOR SLIDES OF CHILDREN BLOOD LEAD LEVEL GRAPHS SEE 1030100/450760)
AUTHOR: /LCCCHD * /MDHES * /CDC * /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 300/2009 THRU: 300/2332
KEYWORD(S): LEAD * CADMIUM * ARSENIC * ZINC * AIR * DUST * SOIL
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0021472 DATE: 1985 (E) PAGE: 1
TITLE: PROJECT MANAGERS JOB DESCRIPTION
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 301/0002 THRU: 301/0002
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0021473 DATE: 1985 (E) PAGE: 4
TITLE: RECOMMENDATIONS AND TIME SCHEDULE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 301/0003 THRU: 301/0006
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0021477 DATE: MAR. 19, 1982 PAGE: 1
TITLE: "BLOOD-LEAD LEVELS IN U.S. POPULATION"
AUTHOR: /MMWR
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 301/0007 THRU: 301/0008
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0021478 DATE: JUN. 2, 1982 PAGE: 61
TITLE: (CONTAINS MATERIALS DEVELOPED FOR DALLAS CHILDHOOD LEAD EXPOSURE STUDY; TRANSMITTAL FROM ING TO STRUGGS)
AUTHOR: /CDC
QUALIFIER(S): REPRODUCTION * DRAFT * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060706 * 1150000
MICROFILM ROLL/FRAME NO.: 301/0009 THRU: 301/0069
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0021539 DATE: SEP. 27, 1982 PAGE: 81
TITLE: (CONTAINS INFORMATION ON EPA STUDY HELENA VALLEY, MONTANA, AREA ENVIRONMENTAL POLLUTION STUDY AND RECENT INFORMATION ON METAL DEPOSITIONS, SOURCES OF PARTICULATES AND LEAD, 1975 EAST HELENA BLOOD-LEAD DATA; TRANSMITTAL FROM ANDERSON TO FALK)
AUTHOR: ANDERSON, JOHN S./MDHES
ADDRESSEE: FALK, HENRY/CDC
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060708 * 1060704 * 1060705
MICROFILM ROLL/FRAME NO.: 301/0070 THRU: 301/0150
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ASARCO * AMERICAN CHEMET CORPORATION
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0021620 DATE: DEC. 22, 1982 PAGE: 3
TITLE: EAST HELENA LEAD STUDY (OUTLINES REVIEW OF STUDIES UNDERTAKEN AT EAST HELENA DISCUSSED DURING MEETING DEC. 8-9, 1982 WITH ING AND SIMPSON)
AUTHOR: MAUGHAN, DAVID/(MDHES)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
CROSS FILE(S):1010200
MICROFILM ROLL/FRAME NO.: 301/0151 THRU: 301/0153
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0021623 DATE: 1983 PAGE: 109
TITLE: "PROPOSED PROTOCOL EAST HELENA CHILDHOOD LEAD EFFECTS STUDY, 1983"
AUTHOR: /MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 301/0154 THRU: 301/0262
KEYWORD(S): LEAD * DUST
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0021732 DATE: MAY 1983 PAGE: 169
TITLE: "EAST HELENA, MONTANA CHILD HEALTH STUDY PROTOCOL"
AUTHOR: /MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 301/0263 THRU: 301/0431
KEYWORD(S): LEAD * SOIL * DUST
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0021901 DATE: JUN. 17, 1983 PAGE: 3
TITLE: (PHONE NOTES BY MAUGHAN DURING CALL TO CDC JUN. 17, 1983; SCHEDULE OF REVIEW AND APPROVAL OF EAST HELENA BLOOD LEAD STUDY)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 301/0432 THRU: 301/0434
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0021904 DATE: JUL. 29, 1983 PAGE: 197
ATTACHED DOC(S): 0022101 THRU: 0022136
TITLE: (INFORMATION ON SCOPE AND AIMS OF SUPERFUND STUDY OF EAST HELENA CHILDREN EXPOSURE TO LEAD; INCLUDES APPENDICES 1-21)
AUTHOR: ROBBINS, HAL/MDHES
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 301/0435 THRU: 301/0631
KEYWORD(S): LEAD * CADMIUM
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0022101 DATE: JUL. 31, 1985 PAGE: 36
ATTACHED TO: 0021904
TITLE: "ESTIMATING THE AMOUNT OF SOIL INGESTED BY YOUNG CHILDREN THROUGH TRACER ELEMENTS"
AUTHOR: BINDER, SUE/CDC * SOKAL, DAVID/CDC * MAUGHAN, DAVID/MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/0632 THRU: 301/0667
KEYWORD(S): SOIL * DUST * LEAD
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0022137 DATE: FEB. 23, 1984 PAGE: 1
TITLE: BLOOD LEAD SCREENING FOR EAST HELENA CHILDREN
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/0668 THRU: 301/0668
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0022138 DATE: JUN. 13, 1984 PAGE: 187
TITLE: DRAFT "1983 KELLOGG LEAD SURVEY"
AUTHOR: /IDAHO DEPARTMENT OF HEALTH AND WELFARE
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 301/0669 THRU: 301/0855
KEYWORD(S): LEAD * SOIL * DUST * ARSENIC * CADMIUM * ZINC
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0022325 DATE: NOV. 1984 PAGE: 92
TITLE: DRAFT "PREVENTING LEAD POISONING IN YOUNG CHILDREN A STATEMENT BY THE CENTERS FOR DISEASE CONTROL"
AUTHOR: /CDC
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060706 * 1150000
MICROFILM ROLL/FRAME NO.: 301/0856 THRU: 301/0947
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0022417 DATE: NOV. 8, 1984 PAGE: 20
TITLE: HAZARDOUS MATERIALS CONTROL RESEARCH INSTITUTE CONFERENCE, MANAGEMENT OF UNCONTROLLED HAZARDOUS WASTE SITES, "CHILDREN'S EXPOSURE TO SMELTER - ASSOCIATED LEAD, MONTANA AND IDAHO"
AUTHOR: SCHILLING, (REBECCA)/CDC * ROSS, D./CDC * SOKAL, D./CDC * ING, (ROY)/CDC * BROKOPP, C./IDAHO DEPARTMENT OF HEALTH AND WELFARE * MAUGHAN, A. D./MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060701
MICROFILM ROLL/FRAME NO.: 301/0948 THRU: 301/0967
KEYWORD(S): LEAD * AIR
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0022437 DATE: DEC. 14, 1984 PAGE: 3
TITLE: (TRANSMITS ATTACHED JUL. 1 - SEP. 30, 1984 QUARTERLY STATUS REPORT TO CDC)
AUTHOR: JONES, GEORGI A./ATSDR
ADDRESSEE: HEDEMAN, WILLIAM N./EPA
CC: PERRY * MILLER * MARGOLIS * GREEN * ROBERTSON * GRAY * GRIFFITH
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 301/0968 THRU: 301/0970
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 0022440 DATE: DEC. 19, 1984 PAGE: 21
TITLE: (TRANSMITS ATTACHED DEC. 1984 STATUS REPORTS ON RELOCATION ACTIVITIES)
AUTHOR: WINKLE, JOE/FEMA
ADDRESSEE: HEDEMAN, WILLIAM/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 301/0971 THRU: 301/0991
NOTES: UPDATE 02

FILE: 1030100 DOCNO: 402956 DATE: SEP. 3, 1991(E) PAGE: 59
TITLE: "1991 CHILD LEAD STUDY REPORT EAST HELENA, MONTANA APR. - JUN. 1991" (ATTACHED SEP. 11, 1991 TRANSMITTAL FROM NICKEL)
AUTHOR: /LCCCHD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/0020 THRU: 436/0078
NOTES: UPDATE 04

FILE: 1030100 DOCNO: 402957 DATE: SEP. 4, 1991 PAGE: 2
TITLE: (CONCERNING BLOOD LEAD LEVELS OF EAST HELENA CHILDREN)
AUTHOR: /LCCCHD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 436/0079 THRU: 436/0080
NOTES: UPDATE 04

FILE: 1030100 DOCNO: 465879 DATE: MAY 6, 1992 PAGE: 58
TITLE: (COMMENTS ON BLOOD LEAD LEVEL DECLINE AND TRANSMITS ATTACHED APR.-JUN. 1991 CHILD LEAD STUDY REPORT)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: HAINES, JOHN/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
KEYWORD(S): LEAD
NOTES: UPDATE 33

FILE: 1030200 DOCNO: 0030609 DATE: 1985 (E) PAGE: 10
TITLE: (PHOTOGRAPHS OF PRICKLY PEAR CREEK AND AREA SURROUNDING ASARCO)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PHOTO/SLIDE
MICROFILM ROLL/FRAME NO.: 301/0992 THRU: 301/1001
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030619 DATE: 1985 (E) PAGE: 1
TITLE: EXPLANATION OF CODES ON WELL TABLE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 301/1002 THRU: 301/1002
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030620 DATE: 1983 (E) PAGE: 29
TITLE: INORGANICS ANALYSIS DATA SHEETS
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/1003 THRU: 301/1031
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * IRON
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030649 DATE: 1983 (E) PAGE: 1
TITLE: SURFACE WATER RECONNAISSANCE OF CERCLA DESIGNATED SITE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/1032 THRU: 301/1032
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030650 DATE: 1983 (E) PAGE: 8
TITLE: "METHOD OF STUDY OF WATER QUALITY IN THE EAST HELENA AREA"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/1033 THRU: 301/1040
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030658 DATE: 1983 (E) PAGE: 2
TITLE: "INVENTORY OF GROUNDWATER IN THE EAST HELENA AREA"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/1041 THRU: 301/1042
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030688 DATE: OCT. 1, 1983 PAGE: 2
TITLE: SAS CLIENT REQUEST
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: FORM
MICROFILM ROLL/FRAME NO.: 301/1071 THRU: 301/1072
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030690 DATE: OCT. 17, 1983 PAGE: 27
TITLE: EAST HELENA AREA GROUNDWATER SAMPLING (LOG BOOK)
AUTHOR: /EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 301/1073 THRU: 301/1099
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030717 DATE: OCT. 24, 1983 PAGE: 72
TITLE: INORGANIC TRAFFIC REPORTS (CASE SAS 796-H OCT. 17-24, 1983; ATTACHED COPIES)
AUTHOR: /EPA
ADDRESSEE: /ROCKY MOUNTAIN ANALYTICAL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/1100 THRU: 301/1171
KEYWORD(S): COPPER * LEAD * ARSENIC * CADMIUM * IRON
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030789 DATE: OCT. 26, 1983 PAGE: 5
TITLE: CHAIN OF CUSTODY RECORDS (OCT. 26, 1983)
AUTHOR: DAVIS, R.E./ROCKY MOUNTAIN ANALYTICAL LABORATORIES
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: FORM
MICROFILM ROLL/FRAME NO.: 301/1172 THRU: 301/1176
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030794 DATE: NOV. 1, 1983 PAGE: 6
TITLE: SPECIAL ANALYTICAL SERVICE PACKING LIST (SAS 796-H)
AUTHOR: /EPA
ADDRESSEE: /CALIFORNIA ANALYTICAL LAB * /ROCKY MOUNTAIN ANALYTICAL LABORATORIES
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 301/1177 THRU: 301/1182
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030800 DATE: NOV. 8, 1983 PAGE: 41
TITLE: (TRANSMITS ATTACHED DATA AND QA SUMMARY SHEETS FOR SAMPLES AND QA/QC COMPRISING CASE 796-H)
AUTHOR: MASINO, MARK/CALIFORNIA ANALYTICAL LAB * WONG, ANTHONY/CALIFORNIA ANALYTICAL LAB
ADDRESSEE: HAEBERER, FRED/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 301/1183 THRU: 301/1222
KEYWORD(S): ARSENIC * COPPER * IRON * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030841 DATE: DEC. 1, 1983 PAGE: 4
TITLE: INORGANICS QUALITY ASSURANCE (SAS 796-H)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/1223 THRU: 301/1226
KEYWORD(S): ARSENIC * CADMIUM * MERCURY * LEAD * SILVER * CHROMIUM * IRON * ZINC
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0030845 DATE: DEC. 20, 1983 PAGE: 27
TITLE: (TRANSMITS ATTACHED WATER SAMPLE RESULTS AND INORGANIC ANALYSIS DATA SHEETS FOR SAS 796-H)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LAMPING, CLIFF
QUALIFIER(S): TISSUE COPY * ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 301/1227 THRU: 301/1253
KEYWORD(S): ARSENIC * COPPER * IRON * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1030200 DOCNO: 0151011 DATE: NOV. 12, 1984 PAGE: 3
TITLE: (TRANSMITS ATTACHED WEEKLY REPORT FOR NOV. 5, 1984 CONCERNING EAST HELENA HYDROGEOLOGICAL STUDY)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: ROBBINGS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1170306
MICROFILM ROLL/FRAME NO.: 301/1254 THRU: 301/1256
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0022461 DATE: JAN. 1972 PAGE: 192
TITLE: "HELENA VALLEY, MONTANA, AREA ENVIRONMENTAL POLLUTION STUDY"
AUTHOR: /EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070600 * 4070400
MICROFILM ROLL/FRAME NO.: 301/1257 THRU: 301/1451
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SOIL * AIR
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030001 DATE: MAY 20, 1974 PAGE: 189
TITLE: "FINAL ENVIRONMENTAL IMPACT STATEMENT FOR AIR POLLUTION VARIANCE"
AUTHOR: ANDERSON, JOHN S./MDHES * WAKE, BENJAMIN F./MDHES * HOLTZ, DON/MDHES
ADDRESSEE: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/1452 THRU: 301/1639
KEYWORD(S): LEAD * COPPER * ZINC * AIR
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030190 DATE: MAY 1980 PAGE: 6
TITLE: "EMISSION MEASUREMENTS AT THE ASARCO LEAD SMELTER IN EAST HELENA, MONTANA 1. EXECUTIVE SUMMARY AND CONCLUSIONS"
AUTHOR: BUSIK, JOHN/PACIFIC ENVIRONMENTAL SERVICES * HARRIS, THOMAS O./PACIFIC ENVIRONMENTAL SERVICES
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/1640 THRU: 301/1645
KEYWORD(S): LEAD * CADMIUM * ARSENIC * AIR
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030196 DATE: MAY 1980 PAGE: 117
TITLE: "EMISSION MEASUREMENTS AT THE ASARCO LEAD SMELTERS IN EAST HELENA, MONTANA 2. RESULTS, CALCULATIONS AND APPENDIXES"
AUTHOR: BUSIK, JOHN/PACIFIC ENVIRONMENTAL SERVICES * HARRIS, THOMAS O./PACIFIC ENVIRONMENTAL SERVICES
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/1646 THRU: 301/1762
KEYWORD(S): AIR * ZINC * ARSENIC * LEAD * CADMIUM
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030313 DATE: MAY 21, 1980 PAGE: 70
TITLE: (WATER SAMPLE REPORTS ON WILSON DITCH OVERFLOW AND SEEPS AT BASE OF SLAG PILE DISCHARGING INTO PRICKLY PEAR; INDIVIDUAL ACTIVITY REPORTS OCT. 1979 TO OCT. 1980)
AUTHOR: /MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070800 * 2030400 * 5020000
MICROFILM ROLL/FRAME NO.: 301/1763 THRU: 301/1832
KEYWORD(S): CADMIUM * LEAD * IRON * ARSENIC * MERCURY * MANGANESE * COPPER * ZINC
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030383 DATE: OCT. 1980 PAGE: 34
TITLE: "EVALUATION OF SHALLOW AQUIFERS IN THE HELENA VALLEY, LEWIS AND CLARK COUNTY, MONTANA"
AUTHOR: MORELAND, JOE A./USGS * LEONARD, ROBERT B./USGS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):3020000
MICROFILM ROLL/FRAME NO.: 301/1833 THRU: 301/1866
KEYWORD(S): GROUNDWATER
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030417 DATE: 1981 PAGE: 12
TITLE: "SUMMARY OF TOXIC METALS PROJECT PROPOSAL FOR 1981"
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/1867 THRU: 301/1878
KEYWORD(S): COPPER * ZINC
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030429 DATE: JAN. 5, 1981 PAGE: 4
TITLE: POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT [PA] (THREE HOLDING PONDS AT ASARCO DISCHARGE INTO PRICKLY PEAR CREEK)
AUTHOR: KEENAN, KEVIN/(MDHES) * SHANKLIN, LEE/EPA
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/1879 THRU: 301/1882
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030433 DATE: JUN. 29, 1981 PAGE: 26
TITLE: "STATUS REPORT ON THE LEAD/CADMIUM STUDY CONDUCTED IN DALLAS AND A SCENARIO OF POSSIBLE ACTIONS"
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/1883 THRU: 301/1908
KEYWORD(S): CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030459 DATE: AUG. 4, 1981 PAGE: 10
TITLE: POTENTIAL HAZARDOUS WASTE SITE INSPECTION [SI] REPORT (PASI) (PRIMARY LEAD SMELTER, PONDS, SLAG PILES)
AUTHOR: SHANKLIN, LEE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):5020000
MICROFILM ROLL/FRAME NO.: 301/1909 THRU: 301/1918
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030469 DATE: SEP. 1982 PAGE: 140
TITLE: "EAST HELENA SOURCE APPORTIONMENT STUDY PARTICULATE SOURCE APPORTIONMENT ANALYSIS USING THE CHEMICAL MASS BALANCE RECEPTOR MODEL" (VOL. 1 DRAFT FINAL REPORT)
AUTHOR: HOUCK, JAMES E./NEA * COOPER, JOHN A./NEA * FRAZIER, CLIFTON A./NEA * DECESAR, RICHARD T./NEA
ADDRESSEE: /MDHES
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 301/1919 THRU: 301/2058
KEYWORD(S): SOIL * DUST * ARSENIC * LEAD
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030872 DATE: MAR. 24, 1983 PAGE: 107
TITLE: (TRANSMITS ATTACHED SUMMARY PAPERS, GRAPHS, AND CALCULATIONS REGARDING ARSENIC IN HONEY BEE SYSTEMS NEAR EAST HELENA INDUSTRIAL COMPLEX)
AUTHOR: BROMENSHENK, JERRY J./U OF M
ADDRESSEE: ALKEMA, KEN/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 301/2059 THRU: 301/2165
KEYWORD(S): ARSENIC * IRON * LEAD
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030979 DATE: MAY 1983 PAGE: 8
TITLE: "HEAVY METALS IN THE SEDIMENTS OF LAKE HELENA A REPORT TO THE RESEARCH ADMINISTRATION FOR A FACULTY DEVELOPMENT GRANT UNIVERSITY OF MONTANA (U OF M)"
AUTHOR: MOORE, JOHNNIE N./U OF M
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/2166 THRU: 301/2173
KEYWORD(S): LEAD * IRON * ZINC
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030987 DATE: JUN. 8, 1983 PAGE: 11
TITLE: POTENTIAL HAZARDOUS WASTE SITE INSPECTION [SI] REPORT (PASI) (ASARCO LEAD SMELTER AND APPROXIMATELY 8 1/2 SQUARE MILES OF URBAN AND RURAL LAND AROUND SMELTER)
AUTHOR: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/2174 THRU: 301/2184
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0030998 DATE: SEP. 16, 1983 PAGE: 3
TITLE: (REPORT ON SAMPLING OF METALS IN SOILS AND GRASSES; ATTACHED NOTES)
AUTHOR: STUKENHOLTZ, DALE/STUKENHOLTZ LABORATORY
ADDRESSEE: HATLELID/AGRI-FEEDS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/2185 THRU: 301/2187
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0031001 DATE: OCT. 3, 1983 PAGE: 41
TITLE: (EAST HELENA SOIL AND VEGETATION SAMPLE RESULTS OF PINE NEEDLES, SOIL, GRASS FROM OCT. 1957 - OCT. 1983; MAPS OF SAMPLING SITES)
AUTHOR: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 301/2188 THRU: 301/2228
KEYWORD(S): LEAD * ARSENIC * CADMIUM * ZINC
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0031042 DATE: OCT. 26, 1983 PAGE: 2
TITLE: (NOTES ON PRESENTATION OF NEW SOILS/PLANT SCHEME; TABLE OF PROPOSED SOIL AND CROP SAMPLING SITES AROUND SMELTER IN HELENA VALLEY)
AUTHOR: /MSU
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 301/2229 THRU: 301/2230
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0031044 DATE: FEB. 23, 1984 PAGE: 102
TITLE: DRAFT "STREAM CORRIDOR MANAGEMENT PLAN PRICKLY PEAR CREEK"
AUTHOR: /STREAMWORKS
ADDRESSEE: /JEFFERSON AND LEWIS AND CLARK CONSERVATION DISTRICTS
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 301/2231 THRU: 301/2332
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0031146 DATE: MAY 17, 1984 PAGE: 119
TITLE: (TRANSMITS ATTACHED DATA CONTAINING ANALYTICAL DATA ADDRESSING LIVESTOCK SAMPLING)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: WARDELL * SKIE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 302/0002 THRU: 302/0121
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0031265 DATE: MAY 23, 1984 PAGE: 21
TITLE: (TRANSMITS ATTACHED DATA CONTAINING DRAFT OPERATIONAL PLAN, SOIL SAMPLING PLAN FOR ASARCO, MONTANA)
AUTHOR: DAWSON, GAYNOR W./BATTELLE
ADDRESSEE: LOVELL, DOUG/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):3020000 * 4020000
MICROFILM ROLL/FRAME NO.: 302/0122 THRU: 302/0142
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0031286 DATE: MAY 24, 1984 PAGE: 14
TITLE: (TRANSMITS ATTACHED DATA CONTAINING ANNUAL SOIL AND VEGETATION SURVEY AND GRID COORDINATES FOR SAMPLE SITE LOCATIONS FOR 1977 - 1983)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: DEVARY, JOE
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 302/0143 THRU: 302/0156
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0031300 DATE: JUN. 11, 1984 PAGE: 13
TITLE: "PRELIMINARY STUDY OF AVAILABLE LEAD IN SOILS PROXIMATE TO THE ASARCO LEAD SMELTER IN EAST HELENA, MONTANA"
AUTHOR: SCHLIEMAN, BRUCE * BEIHOFFER, JON * NAEGELE, LORNA * WATSON, V. J.
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/0157 THRU: 302/0169
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1030300 DOCNO: 0031313 DATE: OCT. 18, 1984 PAGE: 32
TITLE: (TRANSMITS ATTACHED EAST HELENA SOIL SAMPLES)
AUTHOR: MAUGHAN, DAVID/MDHES
ADDRESSEE: TAYLER (TAYLOR) GENE/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 302/0170 THRU: 302/0201
KEYWORD(S): LEAD * ZINC * CADMIUM * COPPER
NOTES: UPDATE 02

FILE: 1030400 DOCNO: 0031386 DATE: SEP. 2, 1986 PAGE: 12
TITLE: FEDERAL REGISTER VOL. 51 NO. 169 RULES AND REGULATIONS (PROTECTION OF HISTORIC PROPERTIES)
AUTHOR: /FEDERAL REGISTER
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 302/0243 THRU: 302/0254
NOTES: UPDATE 02

FILE: 1030400 DOCNO: 0031398 DATE: OCT. 1986 PAGE: 55
TITLE: "SECTION 106, STEP BY STEP" (EXPLANATION OF PART OF NATIONAL HISTORIC PRESERVATION ACT)
AUTHOR: /ADVISORY COUNCIL ON HISTORIC PRESERVATION
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 302/0255 THRU: 302/0309
NOTES: UPDATE 02

FILE: 1030400 DOCNO: 0031453 DATE: JUN. 24, 1987 PAGE: 12
TITLE: (CONVERSATION NOTES CONCERNING EPA ACTIVITIES INVOLVING HISTORIC PRESERVATION ISSUES; TRANSMITS ATTACHED NPS QUESTIONNAIRE)
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 302/0310 THRU: 302/0321
NOTES: UPDATE 02

FILE: 1040000 DOCNO: 0161483 DATE: AUG. 31, 1984 PAGE: 9
TITLE: "UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) REGION 8 IN THE MATTER OF: ASARCO INCORPORATED EAST HELENA, MONTANA PROCEEDING UNDER SECTION 106 OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF 1980 (CERCLA) (42 U.S.C. 9606(A)) ADMINISTRATIVE ORDER ON CONSENT (AOC) DOCKET NO. CERCLA-VIII-84-006" (SIGNED)
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: LABBE, ARMAND L./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 302/0322 THRU: 302/0330
KEYWORD(S): LEAD * ARSENIC * CADMIUM
DOCKET NO.: CERCLA VIII-84-006
NOTES: UPDATE 02

FILE: 1040000 DOCNO: 402736 DATE: MAR. 1, 1991 PAGE: 3
TITLE: (TRANSMITS ATTACHED SIGNED AMENDMENT TO AOC CERCLA VIII-89-10 OF 1989)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: BROWN * NICKEL * EGGERT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0119 THRU: 415/0121
NOTES: UPDATE 03

FILE: 1040100 DOCNO: 0031481 DATE: AUG. 7, 1984(E) PAGE: 16
TITLE: DRAFT (AMENDED AOC REGARDING RI/FS CERCLA-VIII-84-006)
AUTHOR: /EPA * /ASARCO
QUALIFIER(S): DRAFT * MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 302/0347 THRU: 302/0362
KEYWORD(S): ARSENIC * CADMIUM * COPPER * MANGANESE * LEAD * SELENIUM * ZINC
NOTES: UPDATE 02

FILE: 1040100 DOCNO: 0031497 DATE: SEP. 8, 1984(E) PAGE: 33
TITLE: (DISCUSSES GUIDANCE MEMORANDUM ON USE AND ISSUANCE OF ADMINISTRATIVE ORDERS UNDER 106(A) OF CERCLA)
AUTHOR: THOMAS, LEE M./EPA * PRICE, COURTNEY M./EPA
ADDRESSEE: REGIONAL ADMINISTRATORS, REGIONS 1-10 * REGIONAL COUNSELS, REGIONS 1-10 * AIR AND WASTE MANAGEMENT DIVISION DIRECTORS, REGIONS 1-10 * REGIONAL SUPERFUND COORDINATORS * DIRECTOR, OFFICE OF WASTE PROGRAMS ENFORCEMENT * DIRECTOR, OFFICE OF EMERGENCY AND REMEDIAL RESPONSE * ASSOCIATE ENFORCEMENT COUNSEL, WASTE DIVISION
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 302/0363 THRU: 302/0395
NOTES: UPDATE 02

FILE: 1040100 DOCNO: 0031530 DATE: AUG. 6, 1984 PAGE: 106
TITLE: (DRAFT WORKING COPIES OF AOC CERCLA VIII-84)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * DRAFT * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 302/0396 THRU: 302/0501
NOTES: UPDATE 02

FILE: 1040100 DOCNO: 0031724 DATE: MAR. 8, 1985 PAGE: 27
TITLE: (AOC CERCLA VIII-84-006 PROGRESS REPORT 3)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 302/0502 THRU: 302/0528
NOTES: UPDATE 02

FILE: 1040100 DOCNO: 0031919 DATE: JAN. 20, 1989 PAGE: 1
TITLE: PUBLIC NOTICE (NOTIFICATION OF EXECUTION OF AOC SPECIFYING ADDITIONAL STUDIES TO BE PERFORMED BY ASARCO IN AND AROUND EAST HELENA LEAD SMELTER)
AUTHOR: /EPA * /MDHES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 302/0701 THRU: 302/0701
NOTES: UPDATE 02

FILE: 1040100 DOCNO: 0031920 DATE: MAR. 9, 1989 PAGE: 6
TITLE: (DISCUSSES AOC CERCLA VIII-84-006, CERCLA VIII-89-010, PROGRESS REPORT 27)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/MDHES
CC: MORENO * EGGERT * LEAP
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1170802 * 1060100
MICROFILM ROLL/FRAME NO.: 302/0702 THRU: 302/0707
NOTES: UPDATE 02

FILE: 1040200 DOCNO: 0031926 DATE: JUL. 9, 1985 PAGE: 3
ATTACHED DOC(S): 0031929 THRU: 0031930
TITLE: TELECOPIER REQUEST (EXCERPT FROM AMENDMENT 2 FOR EAST HELENA ADMINISTRATIVE ORDER)
AUTHOR: CRANE, JOLENE/EPA
ADDRESSEE: TAYLOR, GENE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: FORM
MICROFILM ROLL/FRAME NO.: 302/0708 THRU: 302/0711
NOTES: UPDATE 02

FILE: 1040200 DOCNO: 0031929 DATE: MAY 20, 1985 PAGE: 2
ATTACHED TO: 0031926
TITLE: "TABLE 1 COMPLIANCE SCHEDULE DATES FOR ADMINISTRATIVE ORDER PHASE 1 RI"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/0712 THRU: 302/0713
NOTES: UPDATE 02

FILE: 1040200 DOCNO: 0190218 DATE: SEP. 29, 1989 PAGE: 2
TITLE: (REQUESTS EXTENSION OF TIME TO COMPLETE COMPREHENSIVE RI/FS; CONCERNS SCHEDULE SET FORTH IN ADMINISTRATION ORDER)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN * MORENO * EGGERT * LEAP * BUNTE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070400
MICROFILM ROLL/FRAME NO.: 302/0714 THRU: 302/0715
NOTES: UPDATE 02

FILE: 1040200 DOCNO: 418574 DATE: MAR. 1, 1991 PAGE: 2
TITLE: (SIGNED AMENDMENT TO CONSENT ORDER CERCLA VIII - 89 - 10)
AUTHOR: DUPREY, ROBERT L./EPA * IVERSON, DENNIS/(MDHES) * DAVIS, J.B./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 544/0014 THRU: 544/0015
NOTES: UPDATE 05

FILE: 1040200 DOCNO: 424483 DATE: APR. 26, 1993 PAGE: 2
TITLE: (NOTICE OF CHANGE IN PROJECT COORDINATOR TO SPICKELMIER)
AUTHOR: SPICKELMIER, JAY/ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/MDHES * ROGNESS, DOUG/MDHES * /DOJ
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0082 THRU: 627/0083
NOTES: UPDATE 07

FILE: 1040200 DOCNO: 434747 DATE: FEB. 16, 1989 PAGE: 3
TITLE: (COMMENTS ON AOC CERCLA VIII-89-10 FOR EAST HELENA RI/FS; REQUESTS EXTENSION OF PUBLIC COMMENT PERIOD)
AUTHOR: LAWRENCE, ROBERT W./PMHS
ADDRESSEE: MORENO, SANDRA R./EPA
CC: DESAUTELS * SPAANSTRA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0222 THRU: 749/0224
NOTES: UPDATE 10

FILE: 1040200 DOCNO: 434750 DATE: FEB. 27, 1991 PAGE: 4
TITLE: (AMENDMENT OF CONSENT ORDER CERCLA VIII-89-10; SIGNED)
AUTHOR: DUPREY, ROBERT/EPA * IVERSON, DENNIS/MDHES * DAVIS, J.B./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 749/0225 THRU: 749/0228
DOCKET NO.: CERCLA VIII-89-10
NOTES: UPDATE 10

FILE: 1040200 DOCNO: 465817 DATE: OCT. 8, 1992 PAGE: 1
TITLE: (SIGNED MODIFICATION OF ADMINISTRATIVE ORDER CERCLA - VIII - 91 - 17) (THIS 5 PAGE CROSS FILED DOCUMENT IS LOCATED AT 4070200/424137)
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: NICKEL, JON C./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 1696/0022 THRU: 1696/0022
KEYWORD(S): SOIL REMOVAL * ARSENIC * LEAD
NOTES: UPDATE 30

FILE: 1040200 DOCNO: 465818 DATE: MAY 11, 1993 PAGE: 1
TITLE: "UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) REGION 8 IN THE MATTER OF: EAST HELENA SITE SITE NO. 8T30 ASARCO INCORPORATED, RESPONDENT. PROCEEDING UNDER SECTION 106(A) OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA), AS AMENDED (42 U.S.C. SS 9606(A). EPA DOCKET NO. CERCLA-VIII-91-17 MODIFICATION OF THE ADMINISTRATIVE ORDER ON CONSENT (AOC)" (SIGNED) (THIS 3 PAGE CROSS FILED DOCUMENT IS LOCATED AT 4070200/424587)
AUTHOR: DUPREY, ROBERT/EPA
ADDRESSEE: ILLEGIBLE/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 1696/0023 THRU: 1696/0023
DOCKET NO.: CERCLA-VIII-91-17
NOTES: UPDATE 30

FILE: 1040200 DOCNO: 465819 DATE: JUN. 20, 1996 PAGE: 1
TITLE: "UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) REGION 8 IN THE MATTER OF EAST HELENA SITE SITE NO. 8T30 ASARCO INCORPORATED, RESPONDENT PROCEEDING UNDER SECTION 106(A) OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA), AS AMENDED (42 USC ss9606(A). EPA DOCKET NO. CERCLA-VIII-91-17 THIRD MODIFICATION OF THE ADMINISTRATIVE ORDER ON CONSENT (AOC)" (SIGNED; COPY ATTACHED) (THIS 12 PAGE CROSS FILED DOCUMENT IS LOCATED AT 4070200/450257)
AUTHOR: DODSON, MAX/EPA * WARNER, MICHAEL/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 1696/0024 THRU: 1696/0024
NOTES: UPDATE 30

FILE: 1040300 DOCNO: 0200330 DATE: APR. 5, 1990 PAGE: 4
TITLE: (DISCUSSES SECTION 104 REQUEST FOR INFORMATION FROM ASARCO REGARDING ZINC PLANT; ATTACHED NOTARIZED CERTIFICATE EXAMPLE)
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: BROWN * GOODSTEIN * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 302/0716 THRU: 302/0719
NOTES: UPDATE 02

FILE: 1040300 DOCNO: 402737 DATE: 1941(E) PAGE: 13
ATTACHED DOC(S): 402738
TITLE: "BRIEF REVIEW OF OPERATIONS AT THE GREAT FALLS PLANT AND AT THE SLAG TREATING PLANT, EAST HELENA, FOR THE YEAR 1941" (021 5295 - 021 5307)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/0122 THRU: 415/0134
KEYWORD(S): CADMIUM * COPPER * ZINC
NOTES: UPDATE 03

FILE: 1040300 DOCNO: 402738 DATE: JUN. 11, 1928(E) PAGE: 44
ATTACHED TO: 402737
TITLE: (TRANSMITS ATTACHED WARRANTY DEED OF EAST HELENA STATE BANK TO ACMC CONVEYING PRICKLY PEAR CREEK WATER RIGHT; ATTACHED ABSTRACT TITLE 2394 OF JEFFERSON COUNTY AND TRANSMITTAL FROM JACKSON TO COLE; 021 1135 - 021 1178)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 415/0135 THRU: 415/0178
NOTES: UPDATE 03

FILE: 1040400 DOCNO: 0031931 DATE: 1990 (E) PAGE: 6
TITLE: (TRANSMITS ATTACHED SAMPLE OF STATE NOTIFICATION LETTER AND SAMPLE ORDER)
AUTHOR: /EPA
ADDRESSEE: JONES, R.
CC: SMITH
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 302/0720 THRU: 302/0725
NOTES: UPDATE 02

FILE: 1040400 DOCNO: 0191587 DATE: FEB. 23, 1990 PAGE: 7
TITLE: (CERTIFIED SPECIAL NOTICE LETTER FOR PROCESS PONDS RD/RA; ATTACHED LIST OF PRP REPRESENTATIVES)
AUTHOR: DUPREY, ROBERT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: MORENO * BROWN * MANGONE * WRIGHT * GOODSTEIN * STEWART * EGGERT * THORVILSON * DRYNAN * COOL * HEMMER * ZAEGEL * KATHY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 302/0726 THRU: 302/0732
KEYWORD(S): ASARCO
NOTES: UPDATE 02

FILE: 1040400 DOCNO: 0191594 DATE: FEB. 23, 1990 PAGE: 7
TITLE: (CERTIFIED SPECIAL NOTICE LETTER FOR PROCESS PONDS RD/RA; ATTACHED LIST OF PRP REPRESENTATIVES)
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: DENT, ROBERT L./AMC
CC: MORENO * BROWN * MANGONE * GOODSTEIN * WRIGHT * STEWART * EGGERT * MULLEN * THORVILSON * DRYNAN * COOL * HEMMER * ZAEGEL * KATHY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 302/0733 THRU: 302/0739
NOTES: UPDATE 02

FILE: 1040400 DOCNO: 0191601 DATE: FEB. 27, 1990 PAGE: 67
TITLE: (UNSIGNED DRAFT CONSENT DECREE SENT WITH SPECIAL NOTICE TO ASARCO AND ARCO)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 302/0740 THRU: 302/0806
NOTES: UPDATE 02

FILE: 1040400 DOCNO: 0200334 DATE: APR. 12, 1990 PAGE: 6
TITLE: FURTHER REQUEST FOR INFORMATION PURSUANT TO SECTION 104 OF CERCLA REGARDING EAST HELENA SMELTER SITE
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: BOHAN * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):2060000
MICROFILM ROLL/FRAME NO.: 302/0807 THRU: 302/0812
NOTES: UPDATE 02

FILE: 1040400 DOCNO: 0200340 DATE: APR. 12, 1990 PAGE: 6
TITLE: (ASARCO RESPONSE TO NOTICE LETTER AND CONSENT DECREE FOR PROCESS PONDS)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART * DOWNING, PETER W./HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA R./EPA
CC: GOODSTEIN * DAVIS * HART * NICKEL * THORP * LAWRENCE * MORISON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):2060000
MICROFILM ROLL/FRAME NO.: 302/0813 THRU: 302/0818
NOTES: UPDATE 02

FILE: 1040400 DOCNO: 0200346 DATE: APR. 27, 1990 PAGE: 1
TITLE: (CONFIRMS RECEIPT OF APR. 13, 1990 SECOND 104(E) REQUEST)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: BOHAN, SUZANNE J./EPA
CC: HART * NICKEL * DAVIS * BROWN * MORISON * DOWNING
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):2060000
MICROFILM ROLL/FRAME NO.: 302/0819 THRU: 302/0819
NOTES: UPDATE 02

FILE: 1040400 DOCNO: 0200347 DATE: MAY 1, 1990 PAGE: 76
TITLE: (ASARCO RESPONSE TO EPA REQUEST FOR GOOD FAITH OFFER CONCERNING PROCESS PONDS RD/RA CONSENT DECREE; ATTACHED FEDERAL EXPRESS COPY AND ARCO 1989 ANNUAL REPORT)
AUTHOR: DENT, ROBERT L./ARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BOHAN * MORENO * GOODSTEIN * LEAP * HART * DESAUTELS * KRABLIN * LAWRENCE * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):2060000
MICROFILM ROLL/FRAME NO.: 302/0820 THRU: 302/0895
NOTES: UPDATE 02

FILE: 1040400 DOCNO: 0200675 DATE: APR. 26, 1990 PAGE: 8
TITLE: (TRANSMITS ATTACHED AFFIDAVITS FROM UNGER AND KANE REGARDING OPERATION OF COOLING WATER SYSTEM AT ZINC FUMING PLANT; PARTIAL RESPONSE TO 104E REQUEST AND SPECIAL NOTICE)
AUTHOR: DESAUTELS, JEFFREY H./ARCO
ADDRESSEE: MORENO, SANDRA R./EPA * BOHAN, SUZANNE/EPA * GOODSTEIN, MICHAEL/DOJ
CC: LEAP * HART * KRABLIN * DENT * LAWRENCE * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):2060000
MICROFILM ROLL/FRAME NO.: 302/0896 THRU: 302/0903
NOTES: UPDATE 02

FILE: 1040400 DOCNO: 0200682 DATE: APR. 30, 1990 PAGE: 8
TITLE: (AMERICAN CHEMET RESPONSE TO FEB. 28, 1990 EPA DEMAND LETTER FOR PAYMENT OF PAST VIOLATIONS; SUBMITS OFFER FOR DE MINIMIS SETTLEMENT)
AUTHOR: LAKE, CLIFTON (A.)/MCBRIDE BAKER AND COLES
ADDRESSEE: MORENO, SANDRA R./EPA
CC: MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):2060000
MICROFILM ROLL/FRAME NO.: 302/0904 THRU: 302/0911
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 02

FILE: 1040400 DOCNO: 402739 DATE: MAR. 6, 1991 PAGE: 3
TITLE: (TRANSMITS ATTACHED SIGNED AMENDMENT TO AOC CERCLA VIII-89-10 FOR RI/FS)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: DUPREY, ROBERT L./EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):2060000
MICROFILM ROLL/FRAME NO.: 415/0179 THRU: 415/0181
NOTES: UPDATE 03

FILE: 1040400 DOCNO: 434753 DATE: APR. 30, 1990 PAGE: 4
TITLE: (AMERICAN CHEMET RESPONSE TO EPA FEB. 28, 1990 DEMAND LETTER FOR PAYMENT OF PAST RESPONSE COSTS; SUBMITS OFFER FOR DE MINIMIS SETTLEMENT)
AUTHOR: LAKE, CLIFTON A./MCBRIDE BAKER AND COLES
ADDRESSEE: MORENO, SANDRA R./EPA
CC: MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0229 THRU: 749/0232
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 10

FILE: 1040600 DOCNO: 0031937 DATE: OCT. 22, 1980 PAGE: 124
TITLE: "REPORTER'S TRANSCRIPT OF PROCEEDINGS IN THE MATTER OF THE NOTICE OF VIOLATION FOR ASARCO, INCORPORATED, EAST HELENA PLANT, EAST HELENA, MONTANA"
AUTHOR: EAYRS-JOHNSON, COLLEEN/COURT REPORTING
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 302/0912 THRU: 302/1035
NOTES: UPDATE 02

FILE: 1040600 DOCNO: 0032061 DATE: APR. 5, 1984 PAGE: 17
ATTACHED DOC(S): 0032078 THRU: 0032083
TITLE: COMPLAINT AND APPLICATION FOR INJUNCTION (AGAINST ASARCO)
AUTHOR: CROWLEY, FRANK C./MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 302/1036 THRU: 302/1052
NOTES: UPDATE 02

FILE: 1040600 DOCNO: 0032078 DATE: MAY 21, 1984 PAGE: 6
ATTACHED TO: 0032061
TITLE: (DISCUSSES ATTACHED COMMENTS ON ASARCO WATER RESOURCES MONITORING PLAN [WRMP])
AUTHOR: SKIE, DOUG/EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
CC: PILCHER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 302/1053 THRU: 302/1058
NOTES: UPDATE 02

FILE: 1050100 DOCNO: 0032084 DATE: APR. 6, 1988 PAGE: 42
TITLE: (TRANSMITS ATTACHED DRAFT LIST OF STATE OF MONTANA REGULATIONS THAT ARE POSSIBLE ARARS FOR SUPERFUND PROJECTS)
AUTHOR: ROGNESS, DOUG/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * BUNTE * MILLER
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 302/1071 THRU: 302/1112
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032126 DATE: 1987 (E) PAGE: 43
TITLE: "AIR POLLUTION AND THE LAW: THE CLEAN AIR ACT"
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/1113 THRU: 302/1155
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032169 DATE: 1987 (E) PAGE: 4
TITLE: TABLE 3 (LOWRY LANDFILL LEACHATE REMOVAL ACTION OU) LOCATION-SPECIFIC FEDERAL ARARS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/1156 THRU: 302/1159
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032173 DATE: 1987 (E) PAGE: 6
TITLE: TABLE 2 (LOWRY LANDFILL LEACHATE REMOVAL ACTION OU) ACTION-SPECIFIC FEDERAL ARARS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/1160 THRU: 302/1165
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032179 DATE: 1987 (E) PAGE: 6
TITLE: MAJOR FEDERAL ARARS (DEFINITION AND REQUIREMENTS OF MAJOR ELEMENTS OF ARARS)
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/1166 THRU: 302/1171
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032185 DATE: 1987 (E) PAGE: 14
TITLE: ARARS (HISTORY, APPLICABILITY TO RI/FS, GENERAL INFORMATION)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/1172 THRU: 302/1185
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032199 DATE: MAR. 12, 1987 PAGE: 13
TITLE: TABLE ONE CONTAMINANT - SPECIFIC FEDERAL ARARS FOR MINING SITES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/1186 THRU: 302/1198
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032212 DATE: MAR. 12, 1987 PAGE: 16
TITLE: (OUTLINES) APPLICABLE AND RELEVANT OR APPROPRIATE REQUIREMENTS (ARARS) FOR MINING SITES
AUTHOR: MULLIN, ELIZABETH D.
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/1199 THRU: 302/1214
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032228 DATE: MAY 5, 1987 PAGE: 2
TITLE: CONTAMINANT - SPECIFIC FEDERAL ARARS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/1215 THRU: 302/1216
KEYWORD(S): DRINKING WATER STANDARDS * SURFACE WATER STANDARDS * AIR POLLUTION STANDARDS
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032230 DATE: JUL. 1987 PAGE: 120
TITLE: "REQUEST FOR APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) FOR REMEDIAL ALTERNATIVES BELVIDERE MUNICIPAL NO. 1 LANDFILL SITE BELVIDERE, ILLINOIS"
AUTHOR: /WESTON
ADDRESSEE: /ILLINOIS EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 302/1217 THRU: 302/1336
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032350 DATE: JUL. 1, 1987 PAGE: 12
TITLE: (DRAFT EXHIBITS FOR PROCEDURE FOR IDENTIFYING ARARS)
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/1337 THRU: 302/1348
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032362 DATE: JUL. 1, 1987 PAGE: 27
TITLE: DRAFT EXHIBIT 1-1 SELECTED CHEMICAL - SPECIFIC ARARS REQUIREMENTS AND EXHIBIT 1-3 SELECTED ACTION - SPECIFIC PROBABLE ARARS REQUIREMENTS
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/1349 THRU: 302/1375
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032389 DATE: JUL. 15, 1987 PAGE: 2
TITLE: DRAFT IDENTIFICATION AND COMMUNICATION OF ARARS
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/1376 THRU: 302/1377
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032391 DATE: SEP. 1987(E) PAGE: 7
TITLE: (ARARS INFORMATION FROM OTHER SITES AS EXAMPLE)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 302/1378 THRU: 302/1384
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0032398 DATE: AUG. 27, 1987 PAGE: 4
TITLE: "SUPERFUND PROGRAM INTERIM GUIDANCE ON COMPLIANCE WITH OTHER APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS)"
AUTHOR: /FEDERAL REGISTER * /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 302/1385 THRU: 302/1388
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0040001 DATE: NOV. 25, 1987 PAGE: 213
TITLE: "DRAFT CERCLA COMPLIANCE WITH OTHER LAWS MANUAL"
AUTHOR: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/1389 THRU: 302/1601
NOTES: UPDATE 02

FILE: 1050200 DOCNO: 0040214 DATE: DEC. 1, 1987 PAGE: 13
TITLE: "FEDERAL REGISTER PART 5, EPA 40 CFR PARTS 144, 264, 265, 270, AND 271 HAZARDOUS WASTE CODIFICATION RULE FOR 1984 RCRA AMENDMENTS FINAL RULE"
AUTHOR: /FEDERAL REGISTER * /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 302/1602 THRU: 302/1614
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040227 DATE: 1984 (E) PAGE: 6
TITLE: PERSONAL RESUME OF PAUL OWEN KRESGE
AUTHOR: KRESGE, PAUL OWEN/MSU
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: RESUME
MICROFILM ROLL/FRAME NO.: 302/1615 THRU: 302/1620
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040233 DATE: 1984 (E) PAGE: 14
TITLE: (DEVELOPMENT PLAN TO ADDRESS EAST HELENA CONTAMINATION PROBLEM WITH INTENTIONS TO PREPARE DETAILED STUDY PLANS)
AUTHOR: /MSU
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/1621 THRU: 302/1634
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040247 DATE: 1987 (E) PAGE: 13
TITLE: EXHIBIT 1, SOW (TDD R8-8304-14) (EAST HELENA, MONTANA SOIL, CROP, STUDY PLAN AND PROTOCOL DEVELOPMENT AND TECHNICAL ASSISTANCE)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 302/1635 THRU: 302/1647
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040260 DATE: 1989 (E) PAGE: 8
TITLE: "EAST HELENA, MONTANA SOIL, GARDEN, CROP, STUDY PLAN AND PROTOCOL DETERMINATION REQUEST FOR PROPOSAL" (RFP-TDD R8-8304-14)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 302/1648 THRU: 302/1655
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040268 DATE: 1989 (E) PAGE: 11
TITLE: "SCOPE OF WORK (SOW) ASARCO RI FISH AND WILDLIFE SURVEY"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 302/1656 THRU: 302/1666
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040279 DATE: 1989 (E) PAGE: 1
TITLE: (USGS QUADRANGLE MAP OF EAST HELENA AREA; SLAG, PONDS AND SWAMP AREAS HIGHLIGHTED)
AUTHOR: /USGS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 302/1667 THRU: 302/1667
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040280 DATE: 1989 (E) PAGE: 1
TITLE: (ISOLINE MAP OF EAST HELENA AREA)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 302/1668 THRU: 302/1668
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040281 DATE: 1989 (E) PAGE: 1
TITLE: EAST HELENA QUADRANGLE (TOPOGRAPHIC MAP INDICATING ALTITUDE OF WATER TABLE AND GENERAL DIRECTION OF FLOW)
AUTHOR: /USGS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 302/1669 THRU: 302/1669
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040282 DATE: 1989 (E) PAGE: 13
ATTACHED TO: 0040281
TITLE: (ISOLINE MAPS OF GEOMETRIC MEAN [LOG 10] FOR VARIOUS METALS IN THE 0-4 INCH SOIL DEPTH, ASARCO SMELTER STUDY RI; ATTACHED LOG CONVERSION)
AUTHOR: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 302/1670 THRU: 302/1682
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040295 DATE: 1989 (E) PAGE: 1
TITLE: (RECEPTOR/CRITERIA PATHWAYS DIAGRAM FOR HUMAN, ANIMALS AND WATER PLANTS)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 302/1683 THRU: 302/1683
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040296 DATE: 1989 (E) PAGE: 1
TITLE: SOURCE PATHWAY RECEPTOR DIAGRAM FOR ASARCO RI/FS WILDLIFE INVESTIGATION
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 302/1684 THRU: 302/1685
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040297 DATE: 1989 (E) PAGE: 23
TITLE: (BIBLIOGRAPHY OF HEAVY METALS AND THEIR COMPOUNDS WITH DEFINITIONS, SPECIFICALLY, ARSENIC, CADMIUM, COPPER, LEAD AND ZINC)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/1686 THRU: 302/1708
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040320 DATE: 1987 (E) PAGE: 9
TITLE: DRAFT "CONCEPTUAL APPROACH TO OU BREAKOUT FOR ASARCO RI/FS"
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/1709 THRU: 302/1719
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040329 DATE: 1987 (E) PAGE: 1
TITLE: PGA SOILS OUFS/ROD SCHEDULE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 302/1720 THRU: 302/1720
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040330 DATE: MAR. 29, 1979 PAGE: 8
TITLE: "DEPOSITION OF TRACE METALS IN STREAM SEDIMENTS" (WITH TELECOPY ORDER FORM)
AUTHOR: PAGENKOPF, GORDON K./MSU
ADDRESSEE: CAMERON, DOUGLAS/MSU
QUALIFIER(S): REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/1721 THRU: 302/1728
KEYWORD(S): CADMIUM * IRON * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040338 DATE: JAN. 1983 PAGE: 1
TITLE: (SCHEDULE OF EVENTS AND START DATES FOR RI, FS AND PUBLIC COMMENTS FOR THREE OPTIONS)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/1729 THRU: 302/1729
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040339 DATE: NOV. 22, 1983 PAGE: 40
TITLE: (TRANSMITS ATTACHED DRAFT PROJECT ORGANIZATION CHART AND RESUMES FOR PERSONNEL PROPOSED FOR USE ON ASARCO RI/FS)
AUTHOR: MCKOWN, GARY L./BATTELLE
ADDRESSEE: LOVELL, DOUGLAS/CH2M HILL
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 302/1730 THRU: 302/1770
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040379 DATE: FEB. 1, 1984 PAGE: 1
TITLE: (SCHEDULE OF PROPOSED EVENTS MAR. 30, 1983 - FEB. 1, 1984 ON EAST HELENA PROJECT)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/1771 THRU: 302/1771
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040380 DATE: APR. 25, 1984 PAGE: 1
TITLE: (ASARCO WORKPLAN SCHEDULE)
AUTHOR: FROHARDT, PAUL/(HOLLAND AND HART)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN * MARGINALIA
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/1772 THRU: 302/1772
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040381 DATE: JUN. 26, 1984 PAGE: 136
TITLE: "CASE ASSIGNMENT REQUEST (CLP REQUEST) SOIL/CROP INVESTIGATION, PHASE 1 RI, ASARCO, MONTANA RI/FS (EAST HELENA SMELTER)"
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/1773 THRU: 302/1908
KEYWORD(S): SOIL * ZINC * ARSENIC
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040517 DATE: JAN. 3, 1985 PAGE: 157
TITLE: (TRANSMITS ATTACHED ATTACHMENTS A, B, C CONTAINING SUBCONTRACTOR APPROVAL PACKAGE MATERIAL)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: VANMUNSTER, JOAN/CH2M HILL
CC: TAYLOR * DOLLHOPF * KAIN * SCHWING
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 302/1909 THRU: 302/2065
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040674 DATE: OCT. 23, 1985 PAGE: 25
TITLE: CERCLA, M.2 - MAINTENANCE FORMS
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: FORM
MICROFILM ROLL/FRAME NO.: 302/2066 THRU: 302/2090
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040699 DATE: NOV. 20, 1985 PAGE: 10
TITLE: (RULES AND REGULATIONS INVOLVING POTENTIALLY ARARS AND PART 300 - NATIONAL OIL AND HAZARDOUS SUBSTANCES POLLUTION CONTINGENCY PLAN)
AUTHOR: /FEDERAL REGISTER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 302/2091 THRU: 302/2100
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040709 DATE: MAR. 10, 1986 PAGE: 1
TITLE: (SCHEDULES RI/FS, RD/RA EVENTS FOR ASARCO OU)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/2101 THRU: 302/2101
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040710 DATE: MAY 5, 1986 PAGE: 60
TITLE: PROPOSED RULES (DOI NATURAL RESOURCE DAMAGE ASSESSMENTS DEC. 20, 1985 AND MAY 5, 1986; TRANSMITTAL SLIP)
AUTHOR: FEDERAL REGISTER
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/2102 THRU: 302/2161
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040770 DATE: JUL. 30, 1986 PAGE: 11
TITLE: "REVISED SCOPE OF WORK ASARCO RI FISH AND WILDLIFE SURVEY"
AUTHOR: EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2030100 * 4070700
MICROFILM ROLL/FRAME NO.: 302/2162 THRU: 302/2172
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040781 DATE: JUL. 31, 1986 PAGE: 13
TITLE: "CH2M HILL SITE SAFETY PLAN FOR THE ASARCO WILDLIFE SURVEY" (ATTACHED TRANSMITTAL)
AUTHOR: CHILLINGWORTH, M. A./CH2M HILL * BARUTH, B. A./CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/2173 THRU: 302/2185
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040794 DATE: NOV. 1986 PAGE: 1
TITLE: FS PROCESS EAST HELENA RI/FS (DRAFT)
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
CROSS FILE(S):1070401
MICROFILM ROLL/FRAME NO.: 302/2186 THRU: 302/2186
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040795 DATE: APR. 15, 1987 PAGE: 3
TITLE: (LISTS ITEMS TO DISCUSS WITH NICKEL; MEMORANDUM OF CALL ATTACHED)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: NOTES
CROSS FILE(S):2010000
MICROFILM ROLL/FRAME NO.: 302/2187 THRU: 302/2189
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040798 DATE: JUL. 1987 PAGE: 2
TITLE: (DISCUSSES CERCLA PROFILE OF EAST HELENA)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 302/2190 THRU: 302/2191
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040800 DATE: JUL. 2, 1987 PAGE: 2
TITLE: (LISTS PEOPLE WHO CHECKED OUT RI REPORT FOR SOILS, VEGETATION AND LIVESTOCK AND 2 VOLUMES OF HAZARD CRITERIA)
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/2192 THRU: 302/2193
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040802 DATE: SEP. 14, 1987 PAGE: 1
TITLE: (NOTES ON MINI-AMENDMENT TO RI)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 302/2194 THRU: 302/2194
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040803 DATE: SEP. 28, 1987 PAGE: 4
TITLE: (OUTLINES) "EAST HELENA RI/FS AND ES MAJOR PROJECT ISSUES SEP. 1987"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/2195 THRU: 302/2198
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040807 DATE: 1988 (E) PAGE: 1
TITLE: (UPCOMING ACTIVITIES SCHEDULE FOR PHASE 2 FS JUN. 1988 - FALL 1989)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/2199 THRU: 302/2199
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040808 DATE: FEB. 22, 1988 PAGE: 3
TITLE: "EAST HELENA RI/FS AND ES MAJOR PROJECT ISSUES FEB. 1988"
AUTHOR: OUTLINE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 302/2200 THRU: 302/2202
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040811 DATE: MAR. 24, 1988 PAGE: 4
TITLE: (OUTLINES) "EAST HELENA RI/FS AND ES MAJOR PROJECT ISSUES MAR. 1988"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/2203 THRU: 302/2206
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040815 DATE: APR. 1, 1988 PAGE: 8
TITLE: "FEASIBILITY STUDY [FS] OUTLINE AND CHECKLIST"
AUTHOR: /EPA
CC: JOHN * DAVE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 302/2207 THRU: 302/2214
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0040823 DATE: JUL. 12, 1988 PAGE: 1
TITLE: (DISCUSSES ALLOWABLE COSTS UNDER MULTI-SITE COOPERATIVE AGREEMENT)
AUTHOR: BERTRAM, RON/(EPA)
ADDRESSEE: WINE, JAN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 302/2215 THRU: 302/2215
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0200690 DATE: FEB. 1990 PAGE: 8
TITLE: "EPA OVERSIGHT OF REMEDIAL DESIGNS AND REMEDIAL ACTIONS PERFORMED BY PRPS" (OSWER DIRECTIVE 9355.5-01/FS)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1090000 * 2060000
MICROFILM ROLL/FRAME NO.: 302/2216 THRU: 302/2223
NOTES: UPDATE 02

FILE: 1060100 DOCNO: 0200698 DATE: FEB. 14, 1990 PAGE: 57
TITLE: (TRANSMITS ATTACHED GUIDANCE ON OVERSIGHT OF PRP PERFORMED RD/RA-OSWER DIRECTIVE 9355.5-01)
AUTHOR: LONGEST, HENRY L./EPA
ADDRESSEE: DIRECTOR, WASTE MANAGEMENT DIVISION REGION 1, 4, 5, 7, 8 * DIRECTOR, EMERGENCY AND REMEDIAL RESPONSE DIVISION REGION 2 * DIRECTOR, HAZARDOUS WASTE MANAGEMENT DIVISION REGIONS 3, 6, 9 * DIRECTOR, HAZARDOUS WASTE DIVISION REGION 10
CC: JON * BILL * DENT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1090000 * 2060000
MICROFILM ROLL/FRAME NO.: 302/2224 THRU: 302/2280
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0011566 DATE: MAR. 14, 1985 PAGE: 52
TITLE: "FINAL OVERSIGHT WORK PLAN FOR ASARCO, MT., RI/FS (EAST HELENA SMELTER), VOL. 1: SCOPE AND SCHEDULE" (ATTACHED TRANSMITTAL)
AUTHOR: /CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/0002 THRU: 303/0053
KEYWORD(S): SURFACE WATER * SEDIMENTS * GROUNDWATER * SOIL
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0040824 DATE: SEP. 1987 PAGE: 208
TITLE: "COMPREHENSIVE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) PLAN ASARCO INCORPORATED EAST HELENA PLANT"
AUTHOR: /HYDROMETRICS * /MDI
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2040000 * 3040000 * 4040000 * 5040000 * 6040000
MICROFILM ROLL/FRAME NO.: 303/0054 THRU: 303/0262
KEYWORD(S): ARSENIC * ZINC * CADMIUM * LEAD * MERCURY * COPPER * GROUNDWATER * SEDIMENTS
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041032 DATE: NOV. 11, 1987 PAGE: 20
TITLE: (TRANSMITS ATTACHED COMPREHENSIVE RI/FS WORKPLAN RESPONSES AND ERRATA SHEET)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS * BUNTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 303/0263 THRU: 303/0283
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041052 DATE: NOV. 30, 1987 PAGE: 62
TITLE: (FINAL ACCEPTANCE OF COMPREHENSIVE RI/FS WORK PLAN; ATTACHED DOCUMENTS COMMENTING ON COMPREHENSIVE RI/FS WORK PLAN)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * BUNTE * ROGNESS * BAKER * MCGEEHIN * SPRENGER * JONES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 303/0284 THRU: 303/0345
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041114 DATE: MAY 1987 PAGE: 127
TITLE: "COMPREHENSIVE REMEDIAL INVESTIGATION [RI] STUDY PLAN ASARCO, EAST HELENA, MONTANA" (COMMENT COPY)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/0346 THRU: 303/0473
KEYWORD(S): GROUNDWATER * SURFACE WATER * VEGETATION * SOIL * ARSENIC * AIR
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041240 DATE: MAY 1987 PAGE: 128
TITLE: "COMPREHENSIVE REMEDIAL INVESTIGATION [RI] STUDY PLAN ASARCO, EAST HELENA, MONTANA"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/0474 THRU: 303/0602
KEYWORD(S): SOIL * AIR * SURFACE WATER * GROUNDWATER * ARSENIC * CADMIUM * COPPER * LEAD * ZINC * IRON * MANGANESE
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041368 DATE: MAY 27, 1987 PAGE: 9
TITLE: COMMENTS ON COMPREHENSIVE RI STUDY PLAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/0603 THRU: 303/0611
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041377 DATE: MAY 27, 1987 PAGE: 7
TITLE: (LISTS) COMMENTS ON COMPREHENSIVE RI STUDY PLAN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 303/0612 THRU: 303/0618
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041384 DATE: AUG. 1987 PAGE: 11
TITLE: (LISTS) COMMENTS ON COMPREHENSIVE RI/FS WORK PLAN SECOND DRAFT
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 303/0619 THRU: 303/0629
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041395 DATE: AUG. 1987 PAGE: 8
TITLE: RESPONSE DIRECTORY TO EPA COMMENTS ON COMPREHENSIVE RI/FS WORK PLAN SECOND DRAFT AUG. 1987
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/0630 THRU: 303/0637
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041403 DATE: AUG. 1987 PAGE: 178
TITLE: "COMPREHENSIVE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) PLAN ASARCO, EAST HELENA PLANT"
AUTHOR: /HYDROMETRICS * /MDI
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/0638 THRU: 303/0817
KEYWORD(S): SOIL * SURFACE WATER * GROUNDWATER * VEGETATION * AIR
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041581 DATE: AUG. 1987 PAGE: 179
TITLE: "COMPREHENSIVE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) PLAN ASARCO INCORPORATED EAST HELENA PLANT" (ATTACHED TRANSMITTAL FROM NICKEL)
AUTHOR: /HYDROMETRICS * /MDI
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/0818 THRU: 303/0998
KEYWORD(S): SOIL * AIR * GROUNDWATER * VEGETATION * SURFACE WATER * ARSENIC * CADMIUM * ZINC * LEAD
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041837 DATE: DEC. 5, 1984 PAGE: 60
TITLE: (TRANSMITS ATTACHED CORRESPONDENCE, NOTES AND REPORTS ON BLOOD LEAD STUDIES, XRF ANALYZER AND BUDGET MODIFICATIONS OF RI/FS PLAN)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
CC: NICKEL * METCALF * KARLSEN * SOKHOL
QUALIFIER(S): REPRODUCTION * TISSUE COPY * CONCURRENCE COPY * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 303/0999 THRU: 303/1058
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041897 DATE: FEB. 15, 1985 PAGE: 19
TITLE: (TRANSMITS ATTACHED SCORE SHEETS AND ANALYTICAL SPREAD SHEETS OF ASARCO AND MULTI-TECH PARTICIPATION IN EMSL-LV FIRST QUARTER INORGANIC PERFORMANCE EVALUATION STUDY)
AUTHOR: BUTLER, LARRY C./EPA
ADDRESSEE: TAYLOR, GENE/EPA * DUNN, JIM/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 303/1059 THRU: 303/1081
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0041916 DATE: JUN. 3, 1985 PAGE: 110
TITLE: (TRANSMITS ATTACHED WORK PLAN REVISION NUMBER THREE PHASE 1 RI ASARCO, MT RI/FS [EAST HELENA SMELTER])
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * MCNAB * LOVELL * KOHONOSKI * SELLMAN
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 303/1082 THRU: 303/1191
NOTES: UPDATE 02

~~FILE: 1060200 DOCNO: 0042026 DATE: JUN. 9, 1986 PAGE: 42~~
~~TITLE: "WATER RESOURCES INVESTIGATION ASARCO EAST HELENA PLANT-PHASE 2 REMEDIAL INVESTIGATION [RI] WORK PLAN"~~
~~AUTHOR: /HYDROMETRICS~~
~~ADDRESSEE: /ASARCO~~
~~QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**~~
~~DOCUMENT TYPE: REPORT/STUDY~~
~~MICROFILM ROLL/FRAME NO.: 303/1192 THRU: 303/1234~~
~~KEYWORD(S): GROUNDWATER * SURFACE WATER * ARSENIC~~
~~NOTES: UPDATE 02~~

FILE: 1060200 DOCNO: 0042068 DATE: JUL. 11, 1986 PAGE: 38
TITLE: "APPENDIX 1 EPA LETTER TO ASARCO JUL. 11, 1986 COMMENTING ON THE DRAFT PHASE 2 WORK PLAN AND ASARCOS RESPONSE" (APPENDIX 2 AND 3 ATTACHED)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/1235 THRU: 303/1272
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0042106 DATE: JUL. 11, 1986 PAGE: 6
TITLE: "ATTACHMENT A: COMMENTS ON THE WATER RESOURCES INVESTIGATION PHASE 2 WORK PLAN" (ATTACHED MEETING NOTES ON ASARCO WQ WORK PLAN)
AUTHOR: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/1273 THRU: 303/1278
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0042112 DATE: MAY 17, 1984 PAGE: 35
TITLE: (TRANSMITS AND DISCUSSES RECOMMENDED CHANGES TO WRMP AND BATTELLE SUPPORTING EVALUATIONS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * HARRIS * CHATWIN * MCKOWN * DOLLHOPF
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 303/1279 THRU: 303/1313
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0042147 DATE: JUL. 16, 1986 PAGE: 44
TITLE: "WATER RESOURCES INVESTIGATION ASARCO EAST HELENA PLANT PHASE 2 REMEDIAL INVESTIGATION [RI] WORK PLAN"
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/1314 THRU: 303/1357
KEYWORD(S): GROUNDWATER * SURFACE WATER * ARSENIC * CADMIUM * COPPER * LEAD * IRON * ZINC * MANGANESE
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0042206 DATE: JAN. 13, 1987 PAGE: 80
TITLE: "DRAFT CONCEPTUAL WORK PLAN RI/FS EAST HELENA SITE (ASARCO) HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2030100 * 3030100 * 4030100 * 5030100
MICROFILM ROLL/FRAME NO.: 303/1358 THRU: 303/1437
KEYWORD(S): SURFACE WATER * ARSENIC * CADMIUM * COPPER * LEAD * ZINC * GROUNDWATER
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0042286 DATE: JAN. 13, 1987 PAGE: 80
TITLE: "DRAFT CONCEPTUAL WORK PLAN RI/FS EAST HELENA SITE (ASARCO) HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2030100 * 4030100 * 6030100 * 3030100 * 5030100
MICROFILM ROLL/FRAME NO.: 303/1438 THRU: 303/1517
KEYWORD(S): SURFACE WATER * GROUNDWATER * ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0042366 DATE: FEB. 16, 1987 PAGE: 80
TITLE: "DRAFT CONCEPTUAL WORK PLAN RI/FS EAST HELENA SITE [ASARCO] HELENA, MONTANA CONTRACT NO. 68-017251" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * DRAFT * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2030100 * 3030100 * 4030100 * 5030100 * 6030100
MICROFILM ROLL/FRAME NO.: 303/1518 THRU: 303/1597
KEYWORD(S): GROUNDWATER * SURFACE WATER * ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0042446 DATE: MAY 1987 PAGE: 127
TITLE: "COMPREHENSIVE REMEDIAL INVESTIGATION [RI] STUDY PLAN"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/1598 THRU: 303/1724
KEYWORD(S): SOIL * SLAG * AIR * GROUNDWATER * SURFACE WATER * VEGETATION * ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050001 DATE: AUG. 1987 PAGE: 177
TITLE: "COMPREHENSIVE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) PLAN ASARCO INCORPORATED EAST HELENA PLANT"
AUTHOR: /HYDROMETRICS * /MDI
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2040000 * 3040000 * 4040000 * 5040000 * 6040000
MICROFILM ROLL/FRAME NO.: 303/1725 THRU: 303/1901
KEYWORD(S): SOIL * SLAG * AIR * SURFACE WATER * GROUNDWATER * VEGETATION * COPPER * LEAD * ZINC * CADMIUM * ARSENIC * MANGANESE * IRON
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050178 DATE: MAY 8, 1984 PAGE: 24
TITLE: (TRANSMITS ATTACHED COMMENTS FROM LOVELL ON AND FIRST DRAFT HEALTH AND SAFETY PLAN AND REPORTS ON INDUSTRIAL HYGIENE AND SEVERAL HEAVY METALS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * CHILLINGWORTH * MCKOWN * DOLLHOPF * KARP * HOLM * FLEISSNER
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 303/1902 THRU: 303/1925
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050202 DATE: MAY 9, 1984 PAGE: 86
TITLE: (TRANSMITS ATTACHED FIRST DRAFT OF ASARCO RESPONSE TO RI WORK PLAN FOR PROPOSED EAST HELENA SUPERFUND SITE, APPENDICES A, B AND C)
AUTHOR: SHARP, M. A./ASARCO
ADDRESSEE: SKIE, DOUGLAS M./EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 303/1926 THRU: 303/2011
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050288 DATE: MAY 9, 1984 PAGE: 86
TITLE: ATTACHMENT 2 ASARCO COMMENTS (INCLUDES TRANSMITTAL FROM SHARP AND DRAFT COPY OF COMMENTS REGARDING RI WORK PLAN WITH APPENDICES A, B AND C)
AUTHOR: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/2012 THRU: 303/2097
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050374 DATE: MAY 15, 1984 PAGE: 37
TITLE: (TRANSMITS ATTACHED CRITERIA FOR CONTAMINANT LEVELS OF LEAD, CADMIUM, ZINC, AND ARSENIC IN HELENA VALLEY SOILS AND CROPS)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: MCKOWN * TAYLOR * DOLLHOPF * KRESGE * GAVLAK
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070500 * 1070301
MICROFILM ROLL/FRAME NO.: 303/2098 THRU: 303/2134
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SOIL
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050411 DATE: MAY 25, 1984 PAGE: 7
TITLE: WORK PLAN REVISION REQUEST (REVISION 1A WITH ATTACHMENT 1 FOR PHASE 1 RI)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: WILLIS, NANCY
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 303/2135 THRU: 303/2141
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050418 DATE: MAY 18, 1984 PAGE: 46
TITLE: (TRANSMITS ATTACHED MURPHY COMMENTS ON PHASE 1 RI FINAL WORK PLAN)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 303/2142 THRU: 303/2187
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050464 DATE: JUN. 1, 1984 PAGE: 54
TITLE: (TRANSMITS ATTACHED WORK PLAN FOR CONDUCTING RI AND FACT SHEET SUMMARIZING RI)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: INTERESTED GROUPS, INDIVIDUALS AND GOVERNMENTAL AGENCIES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 303/2188 THRU: 303/2241
KEYWORD(S): GROUNDWATER * SOIL * SURFACE WATER
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050518 DATE: JUN. 11, 1984 PAGE: 51
TITLE: (TRANSMITS ATTACHED ASARCO COMMENTS TO EPA REVISED EAST HELENA WORK PLAN JUN. 4, 1984)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: SKIE, DOUGLAS M./EPA
CC: WARDELL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 304/0002 THRU: 304/0052
KEYWORD(S): LEAD * SOIL * GROUNDWATER * SURFACE WATER
NOTES: UPDATE 02 * APPEARS ON MICROFILM AS FILE 1020200

FILE: 1060200 DOCNO: 0050569 DATE: MAY 25, 1984 PAGE: 7
TITLE: (WORK PLAN REVISION REQUEST REVISION 1B WITH ATTACHMENT 1, PHASE 1 RI)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: WILLIS, NANCY
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/0053 THRU: 304/0059
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050576 DATE: MAY 29, 1984 PAGE: 50
TITLE: "REVISED FINAL WORK PLAN FOR ASARCO, MONTANA (EAST HELENA SMELTER)" (WITH TRANSMITTAL FROM LOVELL/CH2M HILL TO MANGANIELLO/EPA)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/0060 THRU: 304/0109
KEYWORD(S): SURFACE WATER * GROUNDWATER * SOIL * LEAD * ARSENIC * CADMIUM
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050626 DATE: MAY 29, 1984 PAGE: 53
TITLE: (TRANSMITS ATTACHED "REVISED FINAL WORK PLAN FOR ASARCO, MONTANA PHASE 1 RI EAST HELENA, MONTANA")
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: WILLIS * BOORNAZIAN * TYLER * MURPHY * SELLMAN * D'AGOSTARO * DAVIS * SCHILLING * HARRIS * WALLACE * CHATWIN * HARRIS * SCHWAB * DAWSON * LINCOLN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 304/0110 THRU: 304/0162
KEYWORD(S): SOIL * GROUNDWATER * SURFACE WATER * LEAD
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050679 DATE: JUN. 29, 1984 PAGE: 96
TITLE: "HYDROGEOLOGICAL INVESTIGATION OF THE ASARCO EAST HELENA PLANT WATER RESOURCES MONITORING PLAN"
AUTHOR: /ASARCO * /HYDROMETRICS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/0163 THRU: 304/0258
KEYWORD(S): GROUNDWATER * SURFACE WATER * ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050976 DATE: 1987 (E) PAGE: 2
TITLE: (LISTS) COMMENTS ON ASARCO COMPREHENSIVE RI/FS WORK PLAN THIRD DRAFT
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 304/0259 THRU: 304/0260
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050978 DATE: 1987 (E) PAGE: 22
TITLE: (EPA RESPONSE TO ASARCO CRITIQUE OF EAST HELENA DRAFT RI/FS WORK PLAN)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/0261 THRU: 304/0282
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0050999 DATE: 1987 (E) PAGE: 4
TITLE: (CATEGORIES 1, 2, AND 3 ADDRESSED CONCERNING COMMENTS NOT ADDRESSED/NEW COMMENTS; OBSERVATIONS, NOTES, REMINDERS AND MISSPELLINGS, ERRORS EASILY CORRECTED)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2030100
MICROFILM ROLL/FRAME NO.: 304/0283 THRU: 304/0286
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0051003 DATE: 1987 (E) PAGE: 22
TITLE: (EPA RESPONSE TO ASARCO CRITIQUE OF EAST HELENA RI/FS WORK PLAN DRAFT)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/0287 THRU: 304/0308
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0051025 DATE: 1983 (E) PAGE: 47
TITLE: (TABLE OF CONTENTS AND WORK PLAN FOR EAST HELENA SMELTER SITE)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/0309 THRU: 304/0355
KEYWORD(S): GROUNDWATER * SURFACE WATER * LEAD
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0051149 DATE: NOV. 18, 1983 PAGE: 76
TITLE: "DRAFT WORK PLAN FOR ASARCO, MT (EAST HELENA SMELTER) REMEDIAL INVESTIGATION (RI)"
AUTHOR: /BATTELLE * /CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/0356 THRU: 304/0431
KEYWORD(S): SOIL * SURFACE WATER * GROUNDWATER * SEDIMENTS
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0051225 DATE: DEC. 27, 1983 PAGE: 50
TITLE: "DRAFT WORK PLAN FOR ASARCO, MT (EAST HELENA SMELTER) REMEDIAL INVESTIGATION (RI)" (WITH TRANSMITTAL FROM TAYLOR TO WALLINE)
AUTHOR: /BATTELLE * /CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/0432 THRU: 304/0481
KEYWORD(S): GROUNDWATER * SURFACE WATER * SEDIMENTS * SOIL * LEAD
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0051275 DATE: JAN. 18, 1984 PAGE: 74
TITLE: "DRAFT WORK PLAN FOR ASARCO, MT (EAST HELENA SMELTER) REMEDIAL INVESTIGATION (RI) PHASE 1"
AUTHOR: /BATTELLE * /CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/0482 THRU: 304/0555
KEYWORD(S): GROUNDWATER * SURFACE WATER * SEDIMENTS * LEAD * SOIL
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0051372 DATE: MAR. 23, 1984 PAGE: 111
TITLE: (DISCUSSES AND TRANSMITS ATTACHED CH2M HILL MARK-UP OF THIRD DRAFT WORK PLAN)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: MCKOWN * DAVIS * SHOUP * MURPHY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 304/0556 THRU: 304/0666
KEYWORD(S): ARSENIC * CADMIUM * COPPER * ZINC * SURFACE WATER * GROUNDWATER * SEDIMENTS * SOIL * LEAD
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0051483 DATE: APR. 2, 1984 PAGE: 183
TITLE: "FINAL WORK PLAN FOR ASARCO, MONTANA PHASE 1 RI" (ATTACHED TRANSMITTAL FROM LOVELL)
AUTHOR: /CH2M HILL * /BATTELLE
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/0667 THRU: 304/0849
KEYWORD(S): GROUNDWATER * SURFACE WATER
NOTES: UPDATE 02

FILE: 1060200 DOCNO: 0051666 DATE: APR. 2, 1984 PAGE: 166
TITLE: "FINAL WORK PLAN FOR ASARCO, MT PHASE 1 RI" (ATTACHED TRANSMITTAL FROM LOVELL)
AUTHOR: /CH2M HILL * /BATTELLE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/0850 THRU: 304/1015
KEYWORD(S): SURFACE WATER * GROUNDWATER
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0051832 DATE: 1984 (E) PAGE: 11
TITLE: "EXHIBIT F CHAIN OF CUSTODY AND DOCUMENT CONTROL PROCEDURES"
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/1016 THRU: 304/1026
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0051843 DATE: JUN. 11, 1984 PAGE: 94
TITLE: "QUALITY ASSURANCE PROJECT PLAN (QAPP) AND FIELD OPERATIONS PLAN SOIL/CROP INVESTIGATION PHASE 1 RI"
AUTHOR: LOVELL, DOUGLAS/CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/1027 THRU: 304/1120
KEYWORD(S): ARSENIC * CADMIUM * MANGANESE * IRON * COPPER * ZINC
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0051937 DATE: AUG. 7, 1984 PAGE: 88
TITLE: "QUALITY ASSURANCE PROGRAM PLAN ASARCO EAST HELENA PLANT WATER RESOURCES INVESTIGATION" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: /HYDROMETRICS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/1121 THRU: 304/1208
KEYWORD(S): GROUNDWATER * SURFACE WATER
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0052025 DATE: MAY 14, 1984 PAGE: 80
TITLE: (TRANSMITS ATTACHED DRAFT QAPP PHASE 1 RI)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * HARRIS * CHATWIN * LINCOLN * MOORE * MCKOWN * MEUSER * SCHWAB * STAIBLE * HILLMAN * DOLLHOPF * FLEISSNER * HOLM
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 304/1209 THRU: 304/1288
KEYWORD(S): LEAD * CADMIUM * SOIL * SURFACE WATER * GROUNDWATER
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0052105 DATE: JUN. 1, 1984 PAGE: 103
TITLE: (TRANSMITS ATTACHED EPA CONTRACT LABORATORY REQUEST MATERIALS ON SOIL/CROP INVESTIGATION PHASE 1 RI)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MASINO, MARK/CALIFORNIA ANALYTICAL LABORATORIES * SCHOFFMAN, ALAN/CHEMTECH CONSULTING * MAIORANA, TONY/ROCKY MOUNTAIN ANALYTICAL LABORATORIES * NIVENS, BILL/VERSAR
CC: SCHWAM * TAYLOR * DAVIS * SHOUP * AUSSERER * DAWSON * DOLLHOPF
QUALIFIER(S): REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070500
MICROFILM ROLL/FRAME NO.: 304/1289 THRU: 304/1391
KEYWORD(S): SOIL * ARSENIC * LEAD
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0052208 DATE: AUG. 27, 1984 PAGE: 61
TITLE: (TRANSMITS ATTACHED COMMENTS FROM CH2M HILL REVIEW OF ASARCO QAPP; EVALUATION CRITERIA FOR EXISTING DATA FROM CERCLA STUDY AREAS)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * LOVELL * DEVARY * SCHALLA * SHOUP * BOTZ * ROBBINS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 304/1392 THRU: 304/1452
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0052269 DATE: SEP. 21, 1984 PAGE: 118
TITLE: "QUALITY ASSURANCE PROGRAM PLAN ASARCO EAST HELENA PLANT WATER RESOURCES INVESTIGATION" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: BOTZ, M. K./HYDROMETRICS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/1453 THRU: 304/1570
KEYWORD(S): GROUNDWATER * SURFACE WATER
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0052387 DATE: SEP. 21, 1984 PAGE: 117
TITLE: "QUALITY ASSURANCE PROGRAM PLAN ASARCO EAST HELENA PLANT WATER RESOURCES INVESTIGATION" (ATTACHED TRANSMITTAL FROM BOTZ)
AUTHOR: BOTZ, M. K./HYDROMETRICS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/1571 THRU: 304/1687
KEYWORD(S): SURFACE WATER * GROUNDWATER * SEDIMENTS
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0060001 DATE: JAN. 5, 1985 PAGE: 6
TITLE: "EVALUATION CRITERIA FOR EXISTING DATA FROM CERCLA STUDY AREAS"
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/1688 THRU: 304/1693
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0060007 DATE: JAN. 1985 PAGE: 256
TITLE: "PRE-1984 SOILS DATA REPORT FOR HEAVY METAL CONTAMINATION IN THE ASARCO, EAST HELENA SITE PHASE 1 REMEDIAL ACTION (RA)" (ATTACHED TRANSMITTALS FROM LOVELL AND DEVARY)
AUTHOR: /BATTELLE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/1694 THRU: 304/1950
KEYWORD(S): SOIL * ARSENIC * CHROMIUM * ZINC * CADMIUM * LEAD * COPPER
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0060263 DATE: APR. 17, 1985 PAGE: 49
TITLE: "DRAFT INITIAL DATA VALIDATION AND REDUCTION PROTOCOL PHASE 1 RI ASARCO, MONTANA RI/FS (EAST HELENA SMELTER)" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: LUCERO, JOHN D./CH2M HILL
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/1951 THRU: 304/1999
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0060312 DATE: APR. 19, 1985 PAGE: 184
TITLE: "DRAFT QUALITY ASSURANCE PROJECT PLAN (QAPP) FOR PHASE 1 RI ASARCO, MONTANA RI/FS (EAST HELENA SMELTER)" (ATTACHED TRANSMITTAL FROM LOVELL)
AUTHOR: /CH2M HILL
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/2000 THRU: 304/2183
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0060496 DATE: JUN. 17, 1985 PAGE: 125
TITLE: "FINAL QUALITY ASSURANCE PROJECT PLAN (QAPP) FOR PHASE 1 RI ASARCO, MONTANA RI/FS (EAST HELENA SMELTER)" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 304/2184 THRU: 304/2308
KEYWORD(S): CADMIUM * CHROMIUM * COPPER * LEAD * MERCURY
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0161492 DATE: MAY 2, 1989 PAGE: 1
TITLE: (APPROVES QAPP ADDENDUM REQUEST BY ASARCO (AIR QUALITY MONITORING))
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: STANGA, GARY R./ASARCO
CC: SPRENGER * KIRLEY * BUNTE * NICKEL * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 304/2309 THRU: 304/2309
NOTES: UPDATE 02

FILE: 1060300 DOCNO: 0161493 DATE: MAY 10, 1989 PAGE: 1
TITLE: (APPROVES AMENDING ADDENDUM TO LABORATORY QAPP)
AUTHOR: SPRENGER, LESTER D./EPA
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 304/2310 THRU: 304/2310
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0060621 DATE: 1984 (E) PAGE: 1
TITLE: (METHODOLOGY FOR COLLECTION OF GROUNDWATER SAMPLES IN EAST HELENA AREA)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 305/0002 THRU: 305/0002
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0060622 DATE: MAY 15, 1984 PAGE: 36
TITLE: (TRANSMITS ATTACHED CORRESPONDENCE RELATIVE TO LABORATORY INSPECTIONS AT ASARCO SALT LAKE CITY DEPARTMENT OF ENVIRONMENTAL SCIENCES)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: STAIBLE, TOM/EPA
CC: TAYLOR * MCKOWN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 305/0003 THRU: 305/0038
KEYWORD(S): CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0060658 DATE: JUN. 6, 1984 PAGE: 37
TITLE: (TRANSMITS ATTACHED REQUESTED INFORMATION REGARDING USE OF STANDARD LABORATORY CONTROL SAMPLES FOR USE IN SOIL/CROP STUDY AND PROCEDURES FOR LAB QC CHECKS)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: DOLLHOPF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 305/0039 THRU: 305/0075
KEYWORD(S): ARSENIC * IRON * LEAD * CHROMIUM * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0060695 DATE: JUN. 17, 1984 PAGE: 130
TITLE: (TRANSMITS ATTACHED REVISED REQUEST FOR RI/FS SOIL/CROP INVESTIGATION AND FOR LIST OF QUESTIONS AND ANSWERS; SUMMARY OF REVISION TO JUN. 1 REQUEST; DESCRIPTIONS OF VARIOUS ANALYTICAL METHOD WITH ASSOCIATED REFERENCE MATERIAL)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MAIORANA, TONY/ROCKY MOUNTAIN ANALYTICAL LABORATORIES * MASINO, MARK/CALIFORNIA ANALYTICAL LABORATORIES * SCHOFFMAN, ALAN/CHEMTECH CONSULTING * NIVENS, BILL/VERSAR
CC: SCHWAB * TAYLOR * DAVIS * SHOUP * AUSSERER * DAWSON * DOLLHOPF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070500
MICROFILM ROLL/FRAME NO.: 305/0076 THRU: 305/0205
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0060825 DATE: JUN. 8, 1984 PAGE: 23
TITLE: (TRANSMITS ATTACHED REVISION 2 FOR ASARCO RI/FS SOIL/CROP INVESTIGATION)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MASINO, MARK/CALIFORNIA ANALYTICAL LABORATORIES * SCHOFFMAN, ALAN/CHEMTECH CONSULTING * MAIORANA, TONY/ROCKY MOUNTAIN ANALYTICAL LABORATORIES * NIVENS, BILL/VERSAR
CC: SCHWAB * TAYLOR * DAVIS * SHOUP * AUSSERER * DAWSON * DOLLHOPF
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 305/0206 THRU: 305/0228
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0060848 DATE: JUL. 19, 1984 PAGE: 96
TITLE: (DISCUSSES AND TRANSMITS ATTACHED PROTOCOL ASARCO LABORATORY PLANS TO USE FOR ANALYSIS OF SAMPLES RESULTING FROM HYDROGEOLOGICAL INVESTIGATION OF ASARCO EAST HELENA PLANT)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: SKIE, DOUGLAS M./EPA
CC: TAYLOR * LOVELL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 305/0229 THRU: 305/0324
KEYWORD(S): CADMIUM * LEAD * ARSENIC * MERCURY * SELENIUM * CHROMIUM * SEDIMENTS
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0060944 DATE: AUG. 13, 1984 PAGE: 14
TITLE: "CASE ASSIGNMENT REQUEST (CLP REQUEST) SURFACE WATER, SEDIMENT, CORE, AND GROUNDWATER SAMPLES PHASE 1 RI ASARCO, MONTANA RI/FS"
AUTHOR: LUCERO, JOHN/CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4030200
MICROFILM ROLL/FRAME NO.: 305/0325 THRU: 305/0338
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0060958 DATE: MAR. 22, 1985 PAGE: 12
TITLE: "LABORATORY ANALYTICAL PROTOCOL (LAP) SURFACE WATER, SEDIMENT, AND GROUNDWATER SAMPLES OVERSIGHT OF WRMP PHASE 1 RI ASARCO, MONTANA RI/FS (EAST HELENA SMELTER)"
AUTHOR: LUCERO, JOHN/CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 305/0339 THRU: 305/0350
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0060970 DATE: AUG. 16, 1984 PAGE: 21
TITLE: (TRANSMITS ATTACHED SUPPLEMENT TO PROTOCOL FOR COMPLIANCE WITH REQUIREMENTS FOR LABORATORY ANALYTICAL WORK ADDRESSING SURFACE WATER, SEDIMENT AND GROUNDWATER SAMPLES FOR PHASE 1 RI ASARCO, MT RI/FS)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: SKIE * LOVELL * STANGA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030200 * 3030300
MICROFILM ROLL/FRAME NO.: 305/0351 THRU: 305/0371
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0060991 DATE: APR. 5, 1985 PAGE: 77
TITLE: "DRAFT LABORATORY ANALYTICAL PROTOCOL (LAP) LIVESTOCK STUDIES PHASE 1 RI ASARCO, MONTANA RI/FS (EAST HELENA SMELTER)" (ATTACHED TRANSMITTAL FROM LOVELL)
AUTHOR: LUCERO, JOHN D./CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * DRAFT * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 305/0372 THRU: 305/0448
KEYWORD(S): ARSENIC * COPPER * IRON * LEAD * CADMIUM * ZINC
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0061068 DATE: APR. 17, 1984 PAGE: 48
TITLE: (TRANSMITS ATTACHED WILSON LABORATORIES QUALIFICATIONS AND TELECOM RESPONDING TO QUESTIONS FROM CH2M HILL)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: AUSSERER, PAULA/(EPA)
CC: TAYLOR * HILLMAN * SCHWING * KOHONOSKI * LUCERO * SHERMAN * DOLLHOPF * CASNE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 305/0449 THRU: 305/0496
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0061116 DATE: APR. 25, 1985 PAGE: 76
TITLE: "FINAL DRAFT LABORATORY ANALYTICAL PROTOCOL (LAP) FOR LIVESTOCK STUDIES PHASE 1 RI ASARCO, MONTANA RI/FS (EAST HELENA SMELTER)" (ATTACHED TRANSMITTAL FROM LOVELL)
AUTHOR: LUCERO, JOHN D./CH2M HILL
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 305/0497 THRU: 305/0572
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0061191 DATE: MAY 9, 1985 PAGE: 91
TITLE: "FINAL LABORATORY ANALYTICAL PROTOCOL (LAP) FOR LIVESTOCK STUDIES PHASE 1 RI ASARCO, MONTANA RI/FS (EAST HELENA SMELTER)" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: LUCERO, JOHN D./CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 305/0573 THRU: 305/0663
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0061282 DATE: MAY 28, 1985 PAGE: 34
TITLE: (TRANSMITS ATTACHED RESPONSE TO FINAL LAP FOR LIVESTOCK STUDIES TO LUCERO FROM KEENAN, CURRENT LABORATORY LICENSES; COPY OF USDA OSHA NOTICE CLP 2 AND RESUMES FOR ESA EMPLOYEES)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 305/0664 THRU: 305/0697
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0061316 DATE: JUN. 23, 1986 PAGE: 137
TITLE: "DRAFT LABORATORY ANALYTICAL PROTOCOL (LAP) FOR WILDLIFE STUDIES PHASE 1 RI ASARCO, MONTANA RI/FS EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM BARUTH)
AUTHOR: /CH2M HILL * NEUMAN, DENNIS R./MSU
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 305/0698 THRU: 305/0834
KEYWORD(S): CHROMIUM * COPPER * IRON * MANGANESE
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0061453 DATE: AUG. 27, 1985 PAGE: 17
TITLE: (TRANSMITS ATTACHED LABORATORY EVIDENCE AUDIT [CONTRACT EVIDENCE AUDIT TEAM] REPORTS ASARCO FOR AUG. 7, 1985)
AUTHOR: HILDEN, GERRI/EPA
ADDRESSEE: TAYLOR, GENE/EPA
CC: LAIDLAW * LUCERO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 305/0835 THRU: 305/0851
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0061470 DATE: SEP. 30, 1986 PAGE: 6
TITLE: LABORATORY EVIDENCE AUDIT REPORT ASARCO
AUTHOR: /ASARCO * /EPA * /CH2M HILL * /CONTRACT EVIDENCE AUDIT TEAM
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 305/0852 THRU: 305/0857
NOTES: UPDATE 02

FILE: 1060400 DOCNO: 0161494 DATE: APR. 17, 1989 PAGE: 33
TITLE: (TRANSMITS ATTACHED LABORATORY QAPP FOR INDUCTIVELY COUPLED ARGON PLASMA-ATOMIC EMISSION SPECTOMETRY)
AUTHOR: STANGA, GARY R./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NICKEL * DAVIS * MILLER * ROBBINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 305/0858 THRU: 305/0890
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * MANGANESE * LEAD * SELENIUM * ZINC * THALLIUM
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061476 DATE: 1984 (E) PAGE: 2
TITLE: "SAMPLING PLAN"
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 305/0891 THRU: 305/0892
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061478 DATE: MAY 29, 1984 PAGE: 34
TITLE: "SOIL SAMPLING PLAN FOR ASARCO, MONTANA PHASE 1 REMEDIAL ACTION (RA)" (ATTACHED TRANSMITTAL FROM DEVARY)
AUTHOR: /BATTELLE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 305/0893 THRU: 305/0926
KEYWORD(S): LEAD * ZINC * CADMIUM * ARSENIC * CHROMIUM * COPPER
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061512 DATE: JUN. 6, 1984 PAGE: 42
TITLE: "INTEGRATED SOIL AND CROP SAMPLING PLAN ASARCO, MONTANA"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 305/0927 THRU: 305/0968
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061554 DATE: JUL. 1984 PAGE: 5
TITLE: "MONITORING PROGRAM" (CONCERNS WATER QUALITY SAMPLING; ATTACHED PARAMETER GROUPS AND PROGRAM COSTS)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 305/0969 THRU: 305/0973
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061559 DATE: JUL. 9, 1984 PAGE: 117
TITLE: (TRANSMITS ATTACHED REQUIREMENTS FOR LABORATORY ANALYTICAL WORK SURFACE WATER, SEDIMENT, CORE AND GROUNDWATER SAMPLES PHASE 1 RI; SOW, INORGANIC ANALYSIS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA * SKIE, DOUG/EPA
CC: ROBBINS * STAIBLE * DAVIS * AYCOCK * LUCERO * SHOUP
QUALIFIER(S): ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):3010000 * 4010000
MICROFILM ROLL/FRAME NO.: 305/0974 THRU: 305/1090
KEYWORD(S): COPPER * IRON * ARSENIC * LEAD * CADMIUM * MERCURY
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061676 DATE: JUL. 24, 1984 PAGE: 24
TITLE: (TRANSMITS ATTACHED CASE ASSIGNMENT REQUEST [CLP REQUEST], GRAIN CROP INVESTIGATION PHASE 1 RI)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: CARTER, MARK J./ROCKY MOUNTAIN ANALYTICAL LABORATORIES * HESSEMER, DON/CHEMTECH CONSULTING GROUP, LTD. * MASINO, MARK/CALIFORNIA ANALYTICAL * /U.S. TESTING
CC: SCHWAB * TAYLOR * DAVIS * SHOUP * AUSSERER * DOLLHOPF * DEVARY * LUCERO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070500
MICROFILM ROLL/FRAME NO.: 305/1091 THRU: 305/1114
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061700 DATE: AUG. 1984 PAGE: 5
TITLE: "FIELD OPERATING PROCEDURES SAMPLING OF MONITORING WELLS"
AUTHOR: /HYDROMETRICS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):3020000
MICROFILM ROLL/FRAME NO.: 305/1115 THRU: 305/1119
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061705 DATE: MAR. 19, 1985 PAGE: 2
TITLE: "SUMMARY OF SOIL AND CROP TEST METHODS PHASE 1 RI ASARCO, MT RI/FS (EAST HELENA SMELTER)"
AUTHOR: LOVELL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 305/1120 THRU: 305/1121
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061707 DATE: APR. 15, 1985 PAGE: 88
TITLE: (TRANSMITS ATTACHED COMMENTS TO MSU DRAFT LIVESTOCK SAMPLING FOP)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUGLAS J./MSU
CC: SCHWING * KOHONOSKI * LUCERO * SHERMAN * TAYLOR * CASNE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 305/1122 THRU: 305/1209
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061795 DATE: MAY 1985 PAGE: 3
TITLE: DRAFT "EAST HELENA CERCLA SITE CLP (CLP) SUPPORT REQUIREMENTS"
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 305/1210 THRU: 305/1212
KEYWORD(S): GROUNDWATER * SURFACE WATER * SOIL * SEDIMENTS * ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061798 DATE: MAY 14, 1985 PAGE: 74
TITLE: "DRAFT FIELD OPERATIONS PLAN (FOP) LIVESTOCK STUDIES FOR PHASE 1 RI ASARCO, MONTANA RI/FS (EAST HELENA SMELTER)" (ATTACHED TRANSMITTAL FROM LOVELL)
AUTHOR: /CH2M HILL
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 305/1213 THRU: 305/1286
KEYWORD(S): ZINC * LEAD * CADMIUM
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061872 DATE: JUN. 28, 1985 PAGE: 83
TITLE: "FINAL FIELD OPERATIONS PLAN (FOP) LIVESTOCK STUDIES FOR PHASE 1 RI ASARCO, MONTANA RI/FS (EAST HELENA SMELTER)" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 305/1287 THRU: 305/1369
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1060500 DOCNO: 0061955 DATE: JUL. 3, 1986 PAGE: 57
TITLE: "DRAFT FIELD OPERATION PLAN (FOP) WILDLIFE STUDIES PHASE 1 RI ASARCO MONTANA RI/FS EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM BARUTH)
AUTHOR: /CH2M HILL * RENNICK, ROBERT B./MSU * NEUMAN, DENNIS R./MSU
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 305/1370 THRU: 305/1426
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1060600 DOCNO: 0062012 DATE: OCT. 24, 1987 PAGE: 2
TITLE: "ASARCO EAST HELENA RESIDENTIAL SOIL SAMPLING STANDARD OPERATING PROCEDURE (SOP)"
AUTHOR: /MDI
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 305/1427 THRU: 305/1428
NOTES: UPDATE 02

FILE: 1060700 DOCNO: 0062014 DATE: JAN. 1988 PAGE: 4
TITLE: "HEALTH ASSESSMENT CRITERIA DOCUMENTS"
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 305/1429 THRU: 305/1432
NOTES: UPDATE 02

FILE: 1060700 DOCNO: 0190220 DATE: JUL. 19, 1989 PAGE: 2
TITLE: (ACKNOWLEDGES RECEIPT OF ENDANGERMENT ASSESSMENT FROM ASARCO)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * FORBA * WEIS * KIRLEY * BUNTE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 305/1433 THRU: 305/1434
NOTES: UPDATE 02

FILE: 1060700 DOCNO: 0191668 DATE: 1989(E) PAGE: 4
TITLE: "LEAD IN SOIL: RECOMMENDED MAXIMUM PERMISSIBLE LEVELS"
AUTHOR: MADHAVEN, SHANTHA/ALBERT EINSTEIN COLLEGE OF MEDICINE * ROSENMAN, KENNETH D./MICHIGAN STATE UNIVERSITY * SHEHATA, TERRY/NEW JERSEY DEPARTMENT OF HEALTH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1060706
MICROFILM ROLL/FRAME NO.: 305/1435 THRU: 305/1438
NOTES: UPDATE 02

FILE: 1060700 DOCNO: 0191672 DATE: DEC. 15, 1989 PAGE: 11
TITLE: (COMMENTS ON COMPREHENSIVE ENDANGERMENT ASSESSMENT DRAFT)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: WARDELL * MORENO * WEIS * FORBA * MULLEN * BUNTE * BARUTH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 305/1439 THRU: 305/1449
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * DRINKING WATER STANDARDS
NOTES: UPDATE 02

FILE: 1060700 DOCNO: 0200423 DATE: MAR. 20, 1986 PAGE: 3
TITLE: (IMPLICATES ASARCO, ANACONDA AND AMERICAN CHEMET FOR HIGH METALS CONCENTRATIONS IN SOILS AND DUST IN EAST HELENA)
AUTHOR: RAISCH, BOB/MDHES
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020200
MICROFILM ROLL/FRAME NO.: 305/1450 THRU: 305/1452
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * ASARCO * AMC (ARCO) * AMERICAN CHEMET CORPORATION
NOTES: UPDATE 02

FILE: 1060700 DOCNO: 0200426 DATE: MAR. 27, 1990 PAGE: 3
TITLE: (NOTICE OF PURCHASE BY HUNTER/ESE OF ENVIRONMENTAL SCIENCE AND ENGINEERING; ATTACHED ACQUISITION NOTICE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MORENO * MULLEN * EGGERT * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 305/1453 THRU: 305/1455
NOTES: UPDATE 02

FILE: 1060700 DOCNO: 424024 DATE: JUN. 1989 PAGE: 229
TITLE: DRAFT "COMPREHENSIVE ENDANGERMENT ASSESSMENT"
AUTHOR: /HUNTER SERVICES
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/0012 THRU: 581/0240
KEYWORD(S): ARSENIC * CADMIUM * COPPER * MANGANESE * LEAD * ZINC * GROUNDWATER * AIR * SOIL * SEDIMENTS * SURFACE WATER
NOTES: UPDATE 06

FILE: 1060700 DOCNO: 424025 DATE: OCT. 30, 1992 PAGE: 1
ATTACHED DOC(S): 424026
TITLE: (TRANSMITS REVIEW COMMENTS BY MSU CONCERNING METALS LEVELS REPORTED BY HYDROMETRICS [PLANT TISSUE])
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: NEUMAN * FISCHER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 581/0241 THRU: 581/0241
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 06

FILE: 1060700 DOCNO: 424026 DATE: OCT. 23, 1992 PAGE: 8
ATTACHED TO: 424025
TITLE: (REVIEW COMMENTS CONCERNING METAL LEVELS IN AND ON VEGETATION COLLECTED FROM DEEP PLOW TREATABILITY STUDY PLOT IN ASARCO EAST FIELD)
AUTHOR: NEUMAN, D. (DENNIS) R./MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 581/0242 THRU: 581/0249
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * VEGETATION
NOTES: UPDATE 06

FILE: 1060700 DOCNO: 424027 DATE: JAN. 27, 1993 (E) PAGE: 31
TITLE: (PROFESSIONAL QUALIFICATIONS STATEMENT FOR NEW RISK ASSESSMENT CONTRACTOR; ATTACHED TRANSMITTAL FROM NICKEL TO BROWN)
AUTHOR: /KLEINFELDER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 581/0250 THRU: 581/0280
NOTES: UPDATE 06

FILE: 1060700 DOCNO: 424028 DATE: FEB. 2, 1993 PAGE: 4
TITLE: (QUESTIONS TO ASARCO CONCERNING RISK ASSESSMENT)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
CC: PIZZINI * BOHAN * HILLERY * WEIS * BLUCK * HUDSON * DWYER * NICKEL * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0281 THRU: 581/0284
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 06

FILE: 1060700 DOCNO: 424355 DATE: MAR. 1993 PAGE: 7
TITLE: "EAST HELENA SITE RISK ASSESSMENT UPDATE" (ATTACHED STATEMENT OF MAILING AND CERTIFICATE OF SERVICE MAR. 19, 1993)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1100000
MICROFILM ROLL/FRAME NO.: 581/0285 THRU: 581/0291
NOTES: UPDATE 06

FILE: 1060700 DOCNO: 424356 DATE: MAR. 8, 1993 PAGE: 4
TITLE: (OUTLINES APPROACH FOR UPDATING 1989-1990 RISK ASSESSMENT FOR EAST HELENA)
AUTHOR: TSUJI, JOYCE S./KLEINFELDER
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: WEIS * NICKEL * SPICKELMIER * ROBBINS * LEAP * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0292 THRU: 581/0295
NOTES: UPDATE 06

FILE: 1060700 DOCNO: 424484 DATE: APR. 5, 1993 PAGE: 2
TITLE: REVIEW COMMENTS OF "OUTLINE OF AN APPROACH FOR UPDATING THE RISK ASSESSMENT FOR EAST HELENA"
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: PIZZINI * SELSER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0084 THRU: 627/0085
NOTES: UPDATE 07

FILE: 1060700 DOCNO: 424485 DATE: APR. 9, 1993 PAGE: 1
ATTACHED DOC(S): 424486
TITLE: (REVIEW COMMENTS ON KLEINFELDER PROPOSAL)
AUTHOR: SELSER, WILL I./(LCCCHD)
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NICKEL * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0086 THRU: 627/0086
NOTES: UPDATE 07

FILE: 1060700 DOCNO: 424486 DATE: APR. 21, 1993 PAGE: 2
ATTACHED TO: 424485
TITLE: (RESPONSE TO REVIEW COMMENTS ON KLEINFELDER PROPOSAL)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: (SELSER), WILL/(LCCCHD)
CC: WEIS * QUINONES * PIZZINI * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0087 THRU: 627/0088
NOTES: UPDATE 07

FILE: 1060700 DOCNO: 424488 DATE: AUG. 1993 PAGE: 133
TITLE: "EAST HELENA, MONTANA SOIL, BLOOD AND AIR LEAD DATA EVALUATION" (CHILDREN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/0089 THRU: 627/0221
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 1060700 DOCNO: 424491 DATE: OCT. 1, 1993 PAGE: 3
ATTACHED DOC(S): 424492
TITLE: (WITHDRAWS FROM ANY ATTEMPT TO CORRELATE BLOOD, SOIL AND AIR DATA)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: SPICKELMIER * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0222 THRU: 627/0224
NOTES: UPDATE 07

FILE: 1060700 DOCNO: 424492 DATE: AUG. 18, 1993 PAGE: 1
ATTACHED TO: 424491
TITLE: (DISCUSSES AUG. 10, 1993 LETTER FROM NICKEL CONCERNING EXCAVATION AROUND SPEISS PIT)
AUTHOR: (BROWN, D. SCOTT/EPA)
CC: /CH2M HILL * /MDHES * (BOHAN)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * ORIGINAL
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 627/0225 THRU: 627/0225
NOTES: UPDATE 07

FILE: 1060700 DOCNO: 424631 DATE: AUG. 25, 1993 PAGE: 22
TITLE: (TRANSMITS ATTACHED ASARCO CONTRACTOR COMPARISON OF OLD AND NEW RISK ASSESSMENT CALCULATIONS)
AUTHOR: TSUJI, JOYCE S./KLEINFELDER * MACGREGOR, KERRY P./KLEINFELDER
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: WEIS * SPICKELMIER * NICKEL * ROBBINS * LEAP * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 627/0226 THRU: 627/0247
KEYWORD(S): ARSENIC * CADMIUM * COPPER * MANGANESE * ZINC * AIR * DUST * SOIL
NOTES: UPDATE 07

FILE: 1060700 DOCNO: 424757 DATE: APR. 2, 1991 PAGE: 8
TITLE: (INSTRUCTIONS FOR VENIPUNCTURE PROCEDURE AND PROTOCOLS FOR 1991 BLOOD-LEAD STUDY BY COUNTY HEALTH DEPARTMENT)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 669/0015 THRU: 669/0022
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424758 DATE: MAY 31, 1991 PAGE: 142
TITLE: DRAFT "DUST WORK PLAN" (LEADVILLE, COLORADO)
AUTHOR: /UNIVERSITY OF CINCINNATI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 669/0023 THRU: 669/0164
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424760 DATE: OCT. 26, 1993 PAGE: 2
TITLE: (DISCUSSES INFORMATION NEEDS FOR EAST HELENA RISK ASSESSMENT)
AUTHOR: TSUJI, JOYCE S./KLEINFELDER
ADDRESSEE: WEIS, CHRISTOPHER P./EPA
CC: BROWN * SPICKELMIER * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0172 THRU: 669/0173
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424761 DATE: NOV. 19, 1993 PAGE: 3
TITLE: (DISCUSSES AND TRANSMITS ATTACHED AGENDA FOR RISK ASSESSMENT TECHNICAL MEETING EAST HELENA RESIDENTIAL SOILS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
CC: PIZZINI * BOHAN * HILLERY * WEIS * LASKOWSKI * SELSER * STIFFLER * BENIGER * TUCKER * BOERLAGE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0174 THRU: 669/0176
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424762 DATE: DEC. 14, 1993 PAGE: 4
ATTACHED DOC(S): 424763
TITLE: (COMMENTS ON PRE-FINAL RISK ASSESSMENT REPORT)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
CC: PIZZINI * BOHAN * WEIS * LASKOWSKI * BLUCK * HUDSON * LINCOLN * TSUJI * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * INCOMPLETE * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0177 THRU: 669/0180
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424763 DATE: DEC. 10, 1993 PAGE: 2
ATTACHED TO: 424762
TITLE: (PRELIMINARY COMMENTS ON RISK ASSESSMENT REPORT)
AUTHOR: LASKOWSKI, RANDY/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0181 THRU: 669/0182
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424764 DATE: JAN. 13, 1994 PAGE: 5
TITLE: (TRANSMITS FOR REVIEW ATTACHED DRAFT EXECUTIVE SUMMARY FOR DRAFT EAST HELENA RISK ASSESSMENT)
AUTHOR: TSUJI, JOYCE S./KLEINFELDER * MACGREGOR, KERRY P./KLEINFELDER
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: WEIS * SPICKELMIER * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0183 THRU: 669/0187
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424765 DATE: JAN. 26, 1994 (E) PAGE: 221
TITLE: "DRAFT HUMAN HEALTH RISK ASSESSMENT FOR RESIDENTIAL SOIL EAST HELENA PLANT EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM TSUJI)
AUTHOR: TSUJI, JOYCE S./KLEINFELDER * MACGREGOR, KERRY/KLEINFELDER * MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 669/0188 THRU: 669/0416
KEYWORD(S): ARSENIC * CADMIUM * LEAD * VEGETATION * DUST * SOIL * SEDIMENT
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424766 DATE: FEB. 7, 1994 PAGE: 4
TITLE: (TRANSMITS ATTACHED ADDITIONAL INFORMATION FOR EAST HELENA RISK ASSESSMENT)
AUTHOR: TSUJI, JOYCE S./KLEINFELDER
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: WEIS * LASKOWSKI * BLUCK * SPICKELMIER * MILLER * PHILLIPS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0417 THRU: 669/0420
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424767 DATE: FEB. 10, 1994 PAGE: 3
TITLE: (DISCUSSES USE OF RISK ASSESSMENT REPORT FOR MANAGEMENT DECISIONS)
AUTHOR: SPICKELMIER, JAY/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: WEIS * LASKOWSKI * BLUCK * ROBBINS * LITLE * TSUJI * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0421 THRU: 669/0423
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424768 DATE: MAR. 2, 1994 PAGE: 3
DUPLICATE DOCUMENT: 1070402/424774
ATTACHED DOC(S): 424769 THRU: 424771
TITLE: (FOLLOW UP OF FEB. 22, 1994 MEETING TO DISCUSS DRAFT RISK ASSESSMENT, DRAFT PROPOSED PLAN AND PROCESS LEADING TO ROD FOR COMMUNITY SOILS)
AUTHOR: VARNER, M.O./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YELLOWTAIL * DUPREY * WEIS * SCOTT * SPICKELMIER * ROBBINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0424 THRU: 669/0426
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424769 DATE: FEB. 7, 1994 PAGE: 1
DUPLICATE DOCUMENT: 1070402/424775
ATTACHED TO: 424768
TITLE: (NEW YORK TIMES EDITORIAL: "NOT SO SUPER SUPERFUND")
AUTHOR: /NEW YORK TIMES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 669/0427 THRU: 669/0427
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424770 DATE: MAR. 21, 1993 PAGE: 1
DUPLICATE DOCUMENT: 1070402/424776
ATTACHED TO: 424768
TITLE: "A CASE STUDY: MAKING DIRT SAFE TO EAT"
AUTHOR: /NEW YORK TIMES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 669/0428 THRU: 669/0428
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424771 DATE: MAR. 21, 1993 PAGE: 2
DUPLICATE DOCUMENT: 1070402/424777
ATTACHED TO: 424768
TITLE: "NEW VIEW CALLS ENVIRONMENTAL POLICY MISGUIDED"
AUTHOR: SCHNEIDER, KEITH/NEW YORK TIMES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 669/0429 THRU: 669/0430
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 424772 DATE: MAR. 3, 1994 PAGE: 2
TITLE: (TRANSMITS ATTACHED PAIRED SOIL AND BLOOD LEAD DATA USED IN EAST HELENA RISK ASSESSMENT)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: SCOTT * (WEIS) * SPICKELMIER * ROBBINS * LITLE * TSUJI * HART * PHILLIPS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0431 THRU: 669/0432
NOTES: UPDATE 08

FILE: 1060700 DOCNO: 425854 DATE: FEB. 18, 1994 PAGE: 2
TITLE: (REVIEW COMMENTS ON KLEINFELDER DRAFT HUMAN HEALTH RISK ASSESSMENT FOR RESIDENTIAL SOIL)
AUTHOR: DOLLHOPF, (DOUGLAS J.)/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
CC: SUZANNE * CHRIS * RANDY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/0021 THRU: 737/0022
NOTES: UPDATE 09

FILE: 1060700 DOCNO: 434754 DATE: FEB. 1, 1995 PAGE: 3
TITLE: (TRANSMITS ATTACHED ESTIMATES OF SOIL INGESTION RATES; ARTICLE CALCULATION OF RUSTON SOIL AND HOUSE DUST INGESTION RATES)
AUTHOR: MONROE, DAVID H./MONROE TOXICOLOGY PROFESSIONALS
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0233 THRU: 749/0235
NOTES: UPDATE 10

FILE: 1060700 DOCNO: 450647 DATE: JUN. 1998 PAGE: 50
TITLE: "EAST HELENA RESIDENTIAL RISK REASSESSMENT"; (MAY 1998; ATTACHED TRANSMITTAL FROM SPICKELMIER AND ACKERLUND TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: ROBBINS, DON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1102/0019 THRU: 1102/0068
NOTES: UPDATE 17

FILE: 1060700 DOCNO: 465429 DATE: APR. 12, 2002 PAGE: 1
TITLE: (DISCUSSES HUMAN HEALTH RISK ASSESSMENT FINALIZATION)
AUTHOR: WEIS, CHRISTOPHER P./EPA
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SCHMITTDIEL * BOHAN * WARDELL * FOX
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1407/0021 THRU: 1407/0021
NOTES: UPDATE 24

FILE: 1060700 DOCNO: 465442 DATE: DEC. 3, 2001 PAGE: 2
TITLE: (DISCUSSES MAR. 11 AND NOV. 25, 1999 MEMOS IDENTIFYING EAST HELENA ARSENIC LEVEL DIFFERENCES)
AUTHOR: HAMMON, TRACY/(ISSI) * BRATTIN, BILL/(ISSI)
ADDRESSEE: BROWN, SCOTT/(EPA)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1452/0022 THRU: 1452/0023
NOTES: UPDATE 25

FILE: 1060700 DOCNO: 465443 DATE: MAR. 5, 2002 PAGE: 1
TITLE: (FORWARDS INCLUDED MAR. 4, 2002 EMAIL BETWEEN WEIS AND BROWN DISCUSSING EAST HELENA RISK MEMO)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: BOHAN, SUZANNE/EPA
CC: WEIS
QUALIFIER(S): MARGINALIA * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1452/0024 THRU: 1452/0024
NOTES: UPDATE 25

FILE: 1060700 DOCNO: 465486 DATE: MAR. 11, 1999 PAGE: 19
ATTACHED DOC(S): 465487 THRU: 465489
TITLE: (REVIEW OF 1995 HUMAN HEALTH RISK ASSESSMENT AND 1998 ADDENDUM; INCLUDES PRELIMINARY REMEDIATION GOAL CALCULATION)
AUTHOR: HAMMON, TRACY/ISSI CONSULTING
ADDRESSEE: WEIS, CHRIS/(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1511/0022 THRU: 1511/0040
NOTES: UPDATE 26

FILE: 1060700 DOCNO: 465487 DATE: SEP. 28, 1999 PAGE: 3
ATTACHED TO: 465486
TITLE: (COMMENTS ON AND TRANSMITS ATTACHED MEMO FROM WEIS TO BROWN REGARDING RISK ASSESSMENT FINALIZATION)
AUTHOR: WEIS, CHRIS/(EPA)
ADDRESSEE: BROWN, SCOTT/EPA
CC: BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1511/0041 THRU: 1511/0043
NOTES: UPDATE 26

FILE: 1060700 DOCNO: 465488 DATE: NOV. 25, 1999 PAGE: 3
ATTACHED TO: 465486
TITLE: (GRANDVIEW AREA ARSENIC RISK ESTIMATES)
AUTHOR: BRATTIN, BILL/(ISSI)
ADDRESSEE: BROWN, SCOTT/(EPA) * WEIS, CHRIS/(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1511/0044 THRU: 1511/0046
NOTES: UPDATE 26

FILE: 1060700 DOCNO: 465489 DATE: DEC. 3, 2001 PAGE: 1
ATTACHED TO: 465486
TITLE: (DISCUSSES MAR. 11 AND NOV. 25, 1999 MEMOS COMPARING EAST HELENA PRELIMINARY REMEDIATION GOALS FOR ARSENIC IN SOIL)
AUTHOR: HAMMON, TRACY/(ISSI) * BRATTIN, BILL/(ISSI)
ADDRESSEE: BROWN, SCOTT/(EPA)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1511/0047 THRU: 1511/0047
NOTES: UPDATE 26

FILE: 1060700 DOCNO: 465610 DATE: OCT. 23, 2003 PAGE: 1
ATTACHED DOC(S): 465611 THRU: 465616
TITLE: (DISCUSSES NOV. 5 AND 6, 2003 MEETING PREPARATIONS)
AUTHOR: BROWN, SCOTT/(EPA)
ADDRESSEE: WARDELL, JOHN/EPA * BOHAN, SUZANNE/ EPA * FOX, BOB/EPA * MILLER, AUBREY/EPA * WEIS, CHRIS/EPA * HAMMER, DIANA/EPA * BRATTIN, BILL/(SYRACUSE REASEARCH) * OLSEN, (SANDRA)/MDEQ * REED, (DARYL)/MDEQ * ANDERSEN, (VIC)/MDEQ * MILES, (JOAN/LCCCHD) * BOWSHER, (JOAN/LCCCHD) * KIRLEY, (KEVIN)/MDEQ * CAPDEVILLE, (MARY)/MDEQ
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1594/0022 THRU: 1594/0022
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465611 DATE: SEP. 30, 2003 PAGE: 3
DUPLICATE DOCUMENT: 1060700/465620
ATTACHED TO: 465610
TITLE: ESTIMATED AREA IN HELENA VALLEY WHERE TOTAL SOIL LEAD CONCENTRATIONS EXCEED 500 MG/KG (ATTACHED MAP 2 SHOWS RESULTS)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU * BLICKER, PAM/MSU * NEUMAN, DENNIS/MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0023 THRU: 1594/0026
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465612 DATE: SEP. 30, 2003 PAGE: 5
DUPLICATE DOCUMENT: 1060700/465621
ATTACHED TO: 465610
TITLE: COMPARISON OF SECTOR CLOSURE AREAS AND KRIGED ISOPLETH LINES FOR 500 MG/KG AND 1000 MG/KG TOTAL SOIL LEAD CONCENTRATIONS
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BROWN, SCOTT/EPA
CC: NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0027 THRU: 1594/0031
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465613 DATE: SEP. 30, 2003 PAGE: 5
DUPLICATE DOCUMENT: 1060700/465623
ATTACHED TO: 465610
TITLE: ESTIMATED AREA IN HELENA VALLEY WHERE TOTAL SOIL ARSENIC CONCENTRATIONS EXCEED 100 MG/KG AND 176 MG/KG (ATTACHED MAP 3 SHOWS RESULTS)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU * BLICKER, PAM/MSU * NEUMAN, DENNIS/MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0032 THRU: 1594/0037
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465614 DATE: OCT. 9, 2003 PAGE: 7
DUPLICATE DOCUMENT: 1060700/465626
ATTACHED TO: 465610
TITLE: ESTIMATED AREA IN HELENA VALLEY WHERE TOTAL SOIL LEAD CONCENTRATIONS EXCEED 1000 MG/KG (ATTACHED MAP 1 SHOWS RESULTS)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU * BLICKER, PAM/MSU * NEUMAN, DENNIS/MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0038 THRU: 1594/0045
KEYWORD(S): LEAD * ARSENIC
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465615 DATE: OCT. 22, 2003 PAGE: 3
DUPLICATE DOCUMENT: 1060700/465627
ATTACHED TO: 465610
TITLE: DRAFT SUPPLEMENT EXPLANATION OF TOTAL SOIL LEAD DISTRIBUTION IN HELENA VALLEY
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * DRAFT * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0046 THRU: 1594/0048
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465616 DATE: OCT. 22, 2003 PAGE: 4
ATTACHED TO: 465610
TITLE: (SECTOR 3 CLOSURE WINDOW EXAMPLES)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: /EAST HELENA TECHNICAL TEAM
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0049 THRU: 1594/0052
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465617 DATE: OCT. 23, 2003 PAGE: 1
ATTACHED DOC(S): 465618 THRU: 465628
TITLE: (NOV. 5 AND 6, 2003 MEETING PREPARATIONS)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: WARDELL, JOHN/EPA * BOHAN, SUZANNE/EPA * FOX, BOB/EPA * MILLER/AUBREY/EPA * WEIS, CHRIS/EPA * HAMMER, DIANA/EPA * BRATTIN, BILL/(SYRACUSE RESEARCH) * OLSEN, (SANDRA)/MDEQ * REED, (DARYL)/MDEQ * ANDERSEN, (VIC)/MDEQ * KIRLEY, (KEVIN)/MDEQ * CAPDEVILLE, (MARY)/MDEQ * MILES, (JOAN/LCCCHD) * BOWSHER, (JOAN/LCCCHD)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1594/0053 THRU: 1594/0053
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465618 DATE: JAN. 13, 2003 PAGE: 6
ATTACHED TO: 465617
TITLE: (TRANSMITS ATTACHED JAN. 13, 2003 DOLLHOPF TO BROWN MEMO REGARDING ESTIMATED AREA IN HELENA VALLEY WHERE TOTAL SOIL LEAD CONCENTRATIONS EXCEED 500 MG/KG)
AUTHOR: DOLLHOPF, DOUGLAS/MSU
ADDRESSEE: BROWN, SCOTT/EPA
CC: NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1594/0054 THRU: 1594/0059
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465619 DATE: SEP. 30, 2003 PAGE: 6
ATTACHED TO: 465617
TITLE: ESTIMATED AREA IN HELENA VALLEY WHERE TOTAL SOIL LEAD CONCENTRATIONS EXCEED 500 MG/KG (TRANSMITS MAP 2)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU * BLICKER, PAM/MSU * NEUMAN, DENNIS/MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0060 THRU: 1594/0065
KEYWORD(S): LEAD
NOTES: UPDATE 28
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FILE: 1060700 DOCNO: 465620 DATE: SEP. 30, 2003 PAGE: 3
DUPLICATE DOCUMENT: 1060700/465611
ATTACHED TO: 465617
TITLE: ESTIMATED AREA IN HELENA VALLEY WHERE TOTAL SOIL LEAD CONCENTRATIONS EXCEED 500 MG/KG (ATTACHED MAP 2 SHOWS RESULTS)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU * BLICKER, PAM/MSU * NEUMAN, DENNIS/MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * INCOMPLETE * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0066 THRU: 1594/0069
KEYWORD(S): LEAD
NOTES: UPDATE 28
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FILE: 1060700 DOCNO: 465621 DATE: SEP. 30, 2003 PAGE: 5
DUPLICATE DOCUMENT: 1060700/465612
ATTACHED TO: 465617
TITLE: COMPARISON OF SECTOR CLOSURE AREAS AND KRIGED ISOPLETH LINES FOR 500 MG/KG AND 1000 MG/KG TOTAL SOIL LEAD CONCENTRATIONS
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BROWN, SCOTT/EPA
CC: NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0070 THRU: 1594/0074
KEYWORD(S): LEAD
NOTES: UPDATE 28
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FILE: 1060700 DOCNO: 465622 DATE: SEP. 30, 2003 PAGE: 5
ATTACHED TO: 465617
TITLE: COMPARISON OF SECTOR CLOSURE AREAS AND KRIGED ISOPLETH LINES FOR 500 MG/KG AND 1000 MG/KG TOTAL SOIL LEAD CONCENTRATIONS
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BROWN, SCOTT/EPA
CC: NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0075 THRU: 1594/0079
KEYWORD(S): LEAD
NOTES: UPDATE 28
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FILE: 1060700 DOCNO: 465623 DATE: SEP. 30, 2003 PAGE: 5
DUPLICATE DOCUMENT: 1060700/465613
ATTACHED TO: 465617
TITLE: ESTIMATED AREA IN HELENA VALLEY WHERE TOTAL SOIL ARSENIC CONCENTRATIONS EXCEED 100 MG/KG AND 176 MG/KG (ATTACHED MAP 3 SHOWS RESULTS)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0080 THRU: 1594/0085
KEYWORD(S): LEAD
NOTES: UPDATE 28
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FILE: 1060700 DOCNO: 465624 DATE: SEP. 30, 2003 PAGE: 8
ATTACHED TO: 465617
TITLE: ESTIMATED AREA IN HELENA VALLEY WHERE TOTAL SOIL ARSENIC CONCENTRATIONS EXCEED 100 MG/KG AND 176 MG/KG (TRANSMITS MAP 3)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU * BLICKER, PAM/MSU * NEUMAN, DENNIS/MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0086 THRU: 1594/0093
KEYWORD(S): LEAD
NOTES: UPDATE 28
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FILE: 1060700 DOCNO: 465625 DATE: OCT. 9, 2003 PAGE: 6
ATTACHED TO: 465617
TITLE: ESTIMATED AREA IN HELENA VALLEY WHERE TOTAL SOIL LEAD CONCENTRATIONS EXCEED 1000 MG/KG (TRANSMITS MAP 1)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU * BLICKER, PAM/MSU * NEUMAN, DENNIS/MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * INCOMPLETE * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0094 THRU: 1594/0099
KEYWORD(S): LEAD
NOTES: UPDATE 28
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FILE: 1060700 DOCNO: 465626 DATE: OCT. 9, 2003 PAGE: 7
DUPLICATE DOCUMENT: 1060700/465614
ATTACHED TO: 465617
TITLE: ESTIMATED AREA IN HELENA VALLEY WHERE TOTAL SOIL LEAD CONCENTRATIONS EXCEED 1000 MG/KG (ATTACHED MAP 1 SHOWS RESULTS)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU * BLICKER, PAM/MSU * NEUMAN, DENNIS/MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0100 THRU: 1594/0107
KEYWORD(S): LEAD * ARSENIC
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465627 DATE: OCT. 22, 2003 PAGE: 3
DUPLICATE DOCUMENT: 1060700/465615
ATTACHED TO: 465617
TITLE: DRAFT SUPPLEMENT EXPLANATION OF TOTAL SOIL LEAD DISTRIBUTION IN HELENA VALLEY
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * DRAFT
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0108 THRU: 1594/0110
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465628 DATE: OCT. 22, 2003 PAGE: 4
ATTACHED TO: 465617
TITLE: (SECTOR 3, 5 AND 6 CLOSURE WINDOW EXAMPLE COMPARISONS)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: /EAST HELENA TECHNICAL TEAM
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0111 THRU: 1594/0114
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465629 DATE: NOV. 2003 PAGE: 2
DUPLICATE DOCUMENT: 1070600/465920
TITLE: "CDC RECOMMENDS PEDIATRIC BLOOD LEAD LEVEL OF CONCERN REMAIN AT 10 UG/DL" (VOL. 13, 9)
AUTHOR: /INTERNATIONAL LEAD ZINC RESEARCH ORGANIZATION
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 1594/0115 THRU: 1594/0116
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 1060700 DOCNO: 465869 DATE: FEB. 17, 2006 PAGE: 4
TITLE: (EPA TECHNICAL REVIEW WORKGROUP PROVIDED COMMENTS ON IEUBK MODEL RERUNS FOLLOWING MDEQ REQUEST FOR TECHNICAL REVIEW WORKGROUP REVIEW)
AUTHOR: BERINGER, MIKE/EPA * LUEY, JIM/EPA * YEOW, AARON/EPA
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
NOTES: UPDATE 33

FILE: 1060700 DOCNO: 465870 DATE: MAY 12, 2006 PAGE: 2
ATTACHED DOC(S): 465871
TITLE: (REQUESTS TECHNICAL REVIEW WORKGROUP REVIEW MAR. 18, 2005 IEUBK MODEL REPORT)
AUTHOR: OLSEN, SANDI/MDEQ
ADDRESSEE: WARDELL, JOHN/EPA
CC: OPPER * BROWN * ANDERSEN * MILLER * YEOW
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
NOTES: UPDATE 33

FILE: 1060700 DOCNO: 465871 DATE: MAY 31, 2006 PAGE: 1
ATTACHED TO: 465870
TITLE: (INITIAL RESPONSE TO MAY 12, 2006 REQUEST TECHNICAL REVIEW WORKGROUP REVIEW IEUBK MODEL RERUNS)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: OLSEN, SANDI/MDEQ
CC: LUEY * MILLER * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
NOTES: UPDATE 33

FILE: 1060700 DOCNO: 465924 DATE: FEB. 14, 2007 PAGE: 1
TITLE: (COMMENTS ON AND TRANSMITS AUG. 1993 SOIL, BLOOD AND AIR PATHWAY STUDY; EPA RESPONSES TO COMMENTS AND CONCERNS EXPRESSED DURING PROPOSED PLAN COMMENT PERIOD)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: GRIFFIN, SUSAN/EPA * BRATTIN, BILL/SYRACUSE RESEARCH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1908/0024 THRU: 1908/0024
NOTES: UPDATE 34

FILE: 1060701 DOCNO: 0062028 DATE: JUN. 21, 1983 PAGE: 17
TITLE: "DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM (HRS)"
AUTHOR: BOLCZAK, RICHARD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN * MARGINALIA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 305/1456 THRU: 305/1472
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 02

FILE: 1060701 DOCNO: 0062095 DATE: MAY 12, 1988 PAGE: 344
TITLE: "DRAFT REPORT EXPOSURE ASSESSMENT METHODS HANDBOOK" (EPA CONTRACT 68-02-4254)
AUTHOR: /VERSAR
ADDRESSEE: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 305/1473 THRU: 305/1816
KEYWORD(S): SURFACE WATER * ZINC * CADMIUM * LEAD * IRON * MANGANESE * SOIL * AIR * GROUNDWATER
NOTES: UPDATE 02

FILE: 1060702 DOCNO: 0062439 DATE: SEP. 24, 1986 PAGE: 67
TITLE: (FEDERAL REGISTER PART 2 GUIDELINES FOR CARCINOGEN RISK ASSESSMENT; PART 4 GUIDELINES FOR THE HEALTH RISK ASSESSMENT OF CHEMICAL MIXTURES; PART 3 GUIDELINES FOR MUTAGENICITY RISK ASSESSMENT; PART 5 GUIDELINES FOR THE HEALTH ASSESSMENT OF SUSPECT DEVELOPMENT TOXICANTS; PART 6 GUIDELINES FOR EXPOSURE ASSESSMENT)
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 305/1817 THRU: 305/1883
NOTES: UPDATE 02

FILE: 1060702 DOCNO: 0070001 DATE: SEP. 1987 PAGE: 26
TITLE: "ASSESSMENT OF HEALTH RISK FROM ASARCO PRIMARY LEAD SMELTER AT EAST HELENA, MONTANA"
AUTHOR: /PEI ASSOCIATES
ADDRESSEE: /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 305/1884 THRU: 305/1909
KEYWORD(S): AIR * CADMIUM * ARSENIC * LEAD
NOTES: UPDATE 02

FILE: 1060702 DOCNO: 0070027 DATE: AUG. 11, 1988 PAGE: 2
TITLE: (CONCLUSIONS FROM RISK ANALYSIS EVALUATING VEGETABLE CONCENTRATIONS FOR INDICATOR METALS)
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070400
MICROFILM ROLL/FRAME NO.: 305/1910 THRU: 305/1911
NOTES: UPDATE 02

FILE: 1060703 DOCNO: 0070029 DATE: APR. 22, 1987 PAGE: 24
TITLE: (TRANSMITS AND DISCUSSES ATTACHED FINAL GUIDANCE FOR COORDINATION OF ATSDR HEALTH ASSESSMENT ACTIVITIES WITH SUPERFUND REMEDIAL PROCESS)
AUTHOR: PORTER, J. WINSTON/EPA
ADDRESSEE: REGIONAL ADMINISTRATORS REGIONS 1-10
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 305/1912 THRU: 305/1936
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 0070053 DATE: 1988 (E) PAGE: 6
TITLE: (LIST OF ARTICLES THAT DEAL WITH ARSENIC)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LIST
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 305/1937 THRU: 305/1942
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 0070059 DATE: APR. 1973 PAGE: 26
TITLE: "CHEMICAL FORMS OF ARSENIC IN WATER SUPPLIES AND THEIR REMOVAL"
AUTHOR: FERGUSON, JOHN F./JOHN HOPKINS UNIVERSITY * ANDERSON, MARC A./JOHN HOPKINS UNIVERSITY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 305/1943 THRU: 305/1968
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 0070085 DATE: 1983 PAGE: 40
TITLE: "EMISSIONS, CYCLING AND EFFECTS OF ARSENIC IN SOIL ECOSYSTEMS"
AUTHOR: WOOLSON, EDWIN A.
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 305/1969 THRU: 305/2008
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 0070125 DATE: JUL. 19, 1983 PAGE: 32
TITLE: "ASSESSMENT OF HUMAN EXPOSURE TO ARSENIC, TACOMA, WASHINGTON"
AUTHOR: SCHAUM, JOHN L./EPA
ADDRESSEE: /OFFICE OF WASTE PROGRAMS ENFORCEMENT
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 305/2009 THRU: 305/2040
KEYWORD(S): AIR * SOIL * VEGETATION
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 0070157 DATE: MAY 1984 PAGE: 131
TITLE: "REMOVAL OF ARSENIC FROM SMALL COMMUNITY WATER SUPPLIES"
AUTHOR: SCHLICHER, RON/UNIVERSITY OF MISSOURI-COLUMBIA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 305/2041 THRU: 305/2171
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 0070288 DATE: AUG. 1985 PAGE: 6
TITLE: PROJECT SUMMARY "HEALTH ASSESSMENT DOCUMENT FOR INORGANIC ARSENIC"
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060704
MICROFILM ROLL/FRAME NO.: 305/2172 THRU: 305/2177
KEYWORD(S): SOIL * AIR
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 0070294 DATE: APR. 23, 1986 PAGE: 130
TITLE: "ENDANGERMENT ASSESSMENT: MILL CREEK MONTANA, ANACONDA SMELTER SITE REVISED FINAL REPORT"
AUTHOR: /ICF * /CDM
ADDRESSEE: BISHOP, MICHAEL/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 305/2178 THRU: 305/2307
KEYWORD(S): SOIL * DUST * CADMIUM * LEAD * AIR * ARSENIC * GROUNDWATER * COPPER * ZINC
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 0070424 DATE: JUN. 1986 PAGE: 3
TITLE: PROJECT SUMMARY "CARCINOGENIC POTENTIAL OF ARSENIC COMPOUNDS IN DRINKING WATER"
AUTHOR: SHIRACHI, DONALD Y./EPA * HUI-TU, SHING/EPA * MCGOWAN, JOHN P./EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 305/2308 THRU: 305/2310
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 0070427 DATE: JUL. 22, 1987 PAGE: 1
TITLE: (DISCUSSION WITH SCHMIDT CONCERNING ARSENIC CONTAMINATION AND FLUCTUATIONS IN GROUNDWATER CONTAINING ARSENIC)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 305/2311 THRU: 305/2311
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 0070428 DATE: JUL. 27, 1987 PAGE: 1
TITLE: LIST OF COMPOUNDS AND RECORD NUMBERS
AUTHOR: DEAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 305/2312 THRU: 305/2312
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 0070429 DATE: NOV. 1987 PAGE: 187
TITLE: DRAFT "SPECIAL REPORT ON INGESTED INORGANIC ARSENIC: SKIN CANCER; NUTRITIONAL ESSENTIALITY"
AUTHOR: LEVINE, TINA * RISPIN, AMY * SIGEL-SCOTT, CHERYL * CHEN, CHAO * GIBB, HERMAN * OFFICE OF PESTICIDES AND TOXIC SUBSTANCES * OFFICE OF DRINKING WATER * OFFICE OF RESEARCH AND DEVELOPMENT
ADDRESSEE: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/0002 THRU: 306/0188
KEYWORD(S): AIR
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 0070616 DATE: MAR. 1, 1988 PAGE: 9
TITLE: (IRIS INFORMATION ON INORGANIC ARSENIC)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 306/0189 THRU: 306/0197
NOTES: UPDATE 02

FILE: 1060704 DOCNO: 425977 DATE: 1980 (E) PAGE: 17
TITLE: "AN EPIDEMIOLOGICAL STUDY OF ARSENIC IN DRINKING WATER IN MILLARD COUNTY, UTAH"
AUTHOR: SOUTHWICK, J. W./UTAH STATE DEPARTMENT OF HEALTH * WESTERN, A. E./UTAH STATE DEPARTMENT OF HEALTH * BECK, M. M./UTAH STATE DEPARTMENT OF HEALTH * WHITLEY, T./UTAH STATE DEPARTMENT OF HEALTH * ISAACS, R./UTAH STATE DEPARTMENT OF HEALTH * PETAJAN, J./UNIVERSITY OF UTAH * HANSEN, C.D./UNIVERSITY OF UTAH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0023 THRU: 737/0039
NOTES: UPDATE 09

FILE: 1060704 DOCNO: 425978 DATE: MAY 1976 PAGE: 10
TITLE: "SKIN CANCER AND WATER ARSENIC IN LANE COUNTY, OREGON"
AUTHOR: MORTON, WILLIAM/UNIVERSITY OF OREGON MEDICAL SCHOOL * STARR, GRIER/SACRED HEART HOSPITAL * POHL, DARYL/PRESBYTERIAN HOSPITAL MEDICAL CENTER * STONER, JOHN/LANE COUNTY HEALTH * WAGNER, SHELDON/OREGON STATE UNIVERSITY * WESWIG, PAUL/OREGON STATE UNIVERSITY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0040 THRU: 737/0049
NOTES: UPDATE 09

FILE: 1060704 DOCNO: 465630 DATE: JUN. 26, 1998 PAGE: 107
TITLE: (TRANSMITS ATTACHED JUN. 1988 RESIDENTIAL RISK ASSESSMENT DATA)
AUTHOR: SPICKELMIER, JAY/HYDROMETRICS
ADDRESSEE: SCOTT, JAMES/MDEQ
CC: BROWN * ACKERLAND * ROBBINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060705/465699
MICROFILM ROLL/FRAME NO.: 1594/0117 THRU: 1594/0223
KEYWORD(S): ARSENIC * CADMIUM
NOTES: UPDATE 28

FILE: 1060704 DOCNO: 465631 DATE: SEP. 30, 2003 PAGE: 1
DUPLICATE DOCUMENT: 1060706/465638
TITLE: (TRANSMITS MAPS AND TECHNICAL MEMORANDUMS REGARDING DISTRIBUTION OF SOIL LEAD AND ARSENIC IN HELENA VALLEY)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0224 THRU: 1594/0224
NOTES: UPDATE 28

FILE: 1060704 DOCNO: 465632 DATE: AUG. 22, 2003 PAGE: 1
TITLE: (DISCUSSES 1983 ARSENIC AND CADMIUM BIOASSAYS)
AUTHOR: BROWN, SCOTT/(EPA)
ADDRESSEE: REED, (DARYL)/MDEQ * BOWSHER, (JOAN/LCCCHD)
CC: MILLER * WEIS * FOX * HAMMER * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1594/0225 THRU: 1594/0225
KEYWORD(S): ARSENIC * CADMIUM
NOTES: UPDATE 28

FILE: 1060704 DOCNO: 465633 DATE: OCT. 2003 PAGE: 3
TITLE: "ARSENIC AND CADMIUM IN EAST HELENAS SOILS"
AUTHOR: /(MSU)
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 1594/0226 THRU: 1594/0228
KEYWORD(S): ARSENIC * CADMIUM
NOTES: UPDATE 28

FILE: 1060705 DOCNO: 0140863 DATE: 1985 (E) PAGE: 2
TITLE: CADMIUM INFORMATION
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 306/0198 THRU: 306/0199
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140865 DATE: 1985 (E) PAGE: 4
TITLE: "GENERAL DISCUSSION OF CADMIUM EXPOSURE AS AN ETIOLOGICAL FACTOR FOR PROTEINURIA AND ITAI-ITAI DISEASE" (ARTICLE IN "CADMIUM IN THE ENVIRONMENT")
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0200 THRU: 306/0203
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140869 DATE: 1985 (E) PAGE: 13
TITLE: "OCCURRENCE, POSSIBLE ROUTES OF EXPOSURE AND DAILY INTAKE" (CADMIUM IN THE ENVIRONMENT SECOND EDITION)
AUTHOR: FRIBERG, LARS * PISCATOR, MAGNUS * NORDBERG, GUNNAR * KJELLSTROM, TORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 306/0204 THRU: 306/0216
KEYWORD(S): CADMIUM * AIR * DUST * SOIL
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140882 DATE: 1985 (E) PAGE: 5
TITLE: "PROBLEMS OF ANALYSIS" (CADMIUM IN THE ENVIRONMENT)
QUALIFIER(S): REPRODUCTION * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0217 THRU: 306/0221
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140887 DATE: 1958 (E) PAGE: 4
TITLE: "GENERAL DISCUSSION AND CONCLUSIONS; NEED FOR FURTHER RESEARCH" (CADMIUM IN THE ENVIRONMENT)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0222 THRU: 306/0225
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140891 DATE: JUL. 28, 1972 PAGE: 1
TITLE: "RESULTS OF CADMIUM, COPPER, LEAD AND ZINC ANALYSES OF GARDEN CROP SAMPLES COLLECTED IN THE VICINITY OF THE TEST AND CONTROL FARMS, JUL. 28, 1972"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: DATA
CROSS FILE(S):1060706
MICROFILM ROLL/FRAME NO.: 306/0226 THRU: 306/0226
KEYWORD(S): CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140892 DATE: 1978 PAGE: 5
TITLE: "INFLUENCE OF CADMIUM AND ZINC ON CARBON DIOXIDE EVOLUTION FROM LITTER AND SOIL FROM A BLACK OAK FOREST" (JOURNAL OF ENVIRONMENTAL QUALITY)
AUTHOR: CHANEY, W.R. * KELLY, J.M. * STRICKLAND, R.C.
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0227 THRU: 306/0231
KEYWORD(S): CADMIUM * ZINC
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140897 DATE: 1978 PAGE: 6
TITLE: "UPTAKE OF CADMIUM FROM PHOSPHATE FERTILIZERS BY PEAS, RADISHES AND LETTUCE" (JOURNAL OF ENVIRONMENTAL QUALITY)
AUTHOR: REUSS, J.O. * DOOLEY, H.L. * GRIFFIS, WILLIAM
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0232 THRU: 306/0237
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140903 DATE: SEP. 1984 PAGE: 49
TITLE: "HEALTH EFFECTS ASSESSMENT FOR CADMIUM"
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 306/0238 THRU: 306/0286
KEYWORD(S): CADMIUM * AIR
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140952 DATE: FEB. 1985 PAGE: 1
TITLE: (MICROFICHE) "CADMIUM CONTAMINATION OF THE ENVIRONMENT: AN ASSESSMENT OF NATIONWIDE RISKS"
AUTHOR: DELOS, C. G./EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: PHOTO/SLIDE
MICROFILM ROLL/FRAME NO.: 306/0287 THRU: 306/0287
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140953 DATE: JUN. 1985 PAGE: 11
TITLE: "TOXICOSIS PROPERTIES AND CRITERIA FOR LEAD, ARSENIC, CADMIUM, AND ZINC IN LIVESTOCK, SOIL, PLANTS AND WATER"
AUTHOR: /MSU
ADDRESSEE: /CH2M HILL * /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060706
MICROFILM ROLL/FRAME NO.: 306/0288 THRU: 306/0298
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140964 DATE: MAR. 31, 1987 PAGE: 17
TITLE: "CADMIUM, HEALTH ADVISORY DRAFT, OFFICE OF DRINKING WATER"
AUTHOR: /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/0299 THRU: 306/0315
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140981 DATE: MAY 1987 PAGE: 5
TITLE: PROJECT SUMMARY "FACTORS AFFECTING THE BIOAVAILABILITY OF CADMIUM"
AUTHOR: COREY, R.B./EPA * HELMKE, P.A./EPA * KEENEY, D.R./EPA * GERLOFF, G.C./EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/0316 THRU: 306/0320
KEYWORD(S): CADMIUM * ZINC
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140986 DATE: JUL. 1987 PAGE: 13
TITLE: "AVAILABILITY OF CADMIUM TO RATS FROM CROPS GROWN ON CADMIUM ENRICHED SOIL"
AUTHOR: BUHLER, DONALD/OREGON STATE UNIVERSITY * TINSLEY, IAN/OREGON STATE UNIVERSITY
ADDRESSEE: /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 306/0321 THRU: 306/0333
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0140999 DATE: APR. 1, 1988 PAGE: 17
TITLE: (PRINTOUT OF INFORMATION ON CADMIUM FROM IRIS)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * RESIDENTIAL SOILS
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 306/0334 THRU: 306/0350
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 0141016 DATE: JUL. 18, 1988 PAGE: 9
TITLE: (EXCERPTS FROM RECORD FROM WUERTHELE FILES)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 306/0351 THRU: 306/0359
KEYWORD(S): CADMIUM * ZINC
NOTES: UPDATE 02

FILE: 1060705 DOCNO: 465636 DATE: NOV. 5, 2003 PAGE: 2
TITLE: (TRANSMITS ATTACHED CADMIUM PRG CALCULATIONS RECHECK)
AUTHOR: BRATTIN, WILLIAM/(SYRACUSE RESEARCH)
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1594/0229 THRU: 1594/0230
KEYWORD(S): CADMIUM
NOTES: UPDATE 28

FILE: 1060705 DOCNO: 465699 DATE: JUN. 26, 1998 PAGE: 1
TITLE: (TRANSMITS ATTACHED JUN. 1988 RESIDENTIAL RISK ASSESSMENT DATA) (THIS 107 PAGE CROSS FILED DOCUMENT IS LOCATED AT 1060704/465630)
AUTHOR: SPICKELMIER, JAY/HYDROMETRICS
ADDRESSEE: SCOTT, JAMES/MDEQ
CC: BROWN * ACKERLAND * ROBBINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1594/0231 THRU: 1594/0231
KEYWORD(S): ARSENIC * CADMIUM
NOTES: UPDATE 28

FILE: 1060706 DOCNO: 0141025 DATE: 1983 (E) PAGE: 1
TITLE: CLEANUP STANDARDS FOR (LEAD) Pb (FROM OTHER SUPERFUND SITES)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/0360 THRU: 306/0360
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141026 DATE: 1983 PAGE: 9
TITLE: "ELEMENTS IN MAJOR RAW AGRICULTURAL CROPS IN THE UNITED STATES CADMIUM AND LEAD IN LETTUCE, PEANUTS, POTATOES, SOYBEANS, SWEETCORN, AND WHEAT"; "REVIEW OF TOXICOLOGY OF INORGANIC LEAD"
AUTHOR: WOLNIK, KAREN * FRICKE, FRED * CAPAR, STEPHEN * BRAUDE, GEORGE * MEYER, MILTON * SATZGER, R. DUANE * BONNIN, EVELYN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1060705
MICROFILM ROLL/FRAME NO.: 306/0361 THRU: 306/0369
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141035 DATE: SEP. 1984 PAGE: 28
TITLE: "HEALTH EFFECTS ASSESSMENT FOR LEAD"
AUTHOR: /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/0370 THRU: 306/0397
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141063 DATE: NOV. 1986 PAGE: 4
TITLE: "REVIEW OF TOXICOLOGY OF INORGANIC LEAD"
AUTHOR: PUTNAM, ROBERT D.
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/0398 THRU: 306/0401
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141067 DATE: SEP. 21, 1984 PAGE: 2
TITLE: "CDC REVEALS NEW LEAD STUDY SHOWING LINK BETWEEN HIGH SOIL, BLOOD LEVELS"
AUTHOR: /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0402 THRU: 306/0403
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141069 DATE: NOV. 14, 1983 PAGE: 58
TITLE: "INDEPENDENT PEER REVIEW OF SELECTED STUDIES CONCERNING NEUROBEHAVIORAL EFFECTS OF LEAD EXPOSURES IN NOMINALLY ASYMPTOMATIC CHILDREN: OFFICIAL REPORT OF FINDINGS AND RECOMMENDATION OF AN INTERDISCIPLINARY EXPERT REVIEW COMMITTEE"
AUTHOR: EXPERT COMMITTEE ON PEDIATRIC NEUROBEHAVIORAL EVALUATIONS
ADDRESSEE: GRANT, LESTER D./EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/0404 THRU: 306/0461
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141127 DATE: 1987 PAGE: 6
TITLE: "TEMPORAL TRENDS IN URBAN AND RURAL BLOOD LEAD CONCENTRATIONS" (ENVIRONMENTAL GEOCHEMISTRY AND HEALTH)
AUTHOR: STREHNLOW, C.D.
ADDRESSEE: BARLTROP. D.
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/0462 THRU: 306/0467
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141133 DATE: 1987 PAGE: 6
TITLE: "LEAD FROM DUST AND WATER AS EXPOSURE SOURCES FOR CHILDREN" (ENVIRONMENTAL GEOCHEMISTRY AND HEALTH)
AUTHOR: RAAB, GILLIAN M. * LAXEN, DUNCAN P.H. * FULTON, MARY
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/0468 THRU: 306/0473
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141139 DATE: 1987 PAGE: 3
TITLE: "THE INFLUENCE OF HOUSE AGE ON LEAD LEVELS IN DUSTS AND SOILS IN BRIGHTON, ENGLAND" (ENVIRONMENTAL GEOCHEMISTRY AND HEALTH)
AUTHOR: DAVIES, D.J.A. * THORNTON, I.
QUALIFIER(S): REPRODUCTION * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/0474 THRU: 306/0476
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141142 DATE: 1987 PAGE: 7
TITLE: "LEAD BASED PAINT IN DWELLINGS: THE POTENTIAL FOR CONTAMINATION OF THE HOME ENVIRONMENTS DURING RENOVATION" (ENVIRONMENTAL GEOCHEMISTRY AND HEALTH)
AUTHOR: INSKIP, M.J. * HUTTON, M.
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/0477 THRU: 306/0483
KEYWORD(S): AIR
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141149 DATE: MAR. 2, 1988 PAGE: 6
TITLE: "LEAD-MAMMALIAN TOXICITY SUMMARY" AND "LITHIUM - MAMMALIAN TOXICITY SUMMARY" (TOXICOLOGY AND BIOLOGICAL MONITORING)
AUTHOR: CARSON * ELLIS * MCCANN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/0484 THRU: 306/0489
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141155 DATE: MAR. 24, 1988 PAGE: 54
TITLE: "ASSESSING CONTRIBUTION FROM LEAD IN MINING WASTES TO BLOOD LEAD" (WITH NOTIFICATION OF MAR. 24, 1988 MEETING CONCERNING EXPOSURE TO METALS AND LIST OF ATTENDEES)
AUTHOR: BECK, BARBARA D. * MURPHY, BRIAN L.
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1030100 * 1150000 * 1060701
MICROFILM ROLL/FRAME NO.: 306/0490 THRU: 306/0543
KEYWORD(S): DUST * SOIL * CADMIUM * ZINC * COPPER * LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141209 DATE: MAY 1988 PAGE: 3
TITLE: "A SCORECARD ON THE URBAN ENVIRONMENT" (EPA JOURNAL)
AUTHOR: KOINES, ARTHUR
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0544 THRU: 306/0546
KEYWORD(S): LEAD * AIR
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141212 DATE: JUN. 10, 1988 PAGE: 4
TITLE: "EPA SHOULD WEIGH COST TO OSWER OF LEAD IN DRINKING WATER RULE, SAY STAFFERS"; "EPA DRAFT RULE SETS FIRST-TIME MCLS FOR 27 CHEMICALS; MANDATES STATE MONITORING" (INSIDE EPA)
AUTHOR: /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0547 THRU: 306/0550
KEYWORD(S): ARSENIC * CADMIUM
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0141216 DATE: AUG. 12, 1988 PAGE: 10
TITLE: "PREDICTION OF CHILDREN'S BLOOD LEAD LEVELS ON THE BASIS OF HOUSEHOLD-SPECIFIC SOILS LEAD LEVELS" (AMERICAN JOURNAL OF EPIDEMIOLOGY)
AUTHOR: SCHILLING, REBECCA J./(CDC) * BAIN, RAYMOND P.
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):4070200 * 4070400 * 1030100 * 1150000
MICROFILM ROLL/FRAME NO.: 306/0551 THRU: 306/0560
KEYWORD(S): AIR
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0161527 DATE: MAY 24, 1989 PAGE: 1
TITLE: (TRANSMITS ARTICLES ON LEAD AND HEALTH)
AUTHOR: SCRIMGEOUR, DON/ICF
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL * MARGINALIA * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 306/0561 THRU: 306/0561
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0161528 DATE: JUN. 1989 PAGE: 2
TITLE: (DISCUSSES 5 PAPERS ON HAZARDS OF LEAD IN ENVIRONMENT AVAILABLE TO AREA RESIDENTS)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: INTERESTED PERSONS
CC: MULLIN * STILES * JOHNSON * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 306/0562 THRU: 306/0563
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0161530 DATE: MAR. 1987 PAGE: 9
TITLE: "STATEMENT ON CHILDHOOD LEAD POISONING" (AMERICAN ACADEMY OF PEDIATRICS)
AUTHOR: /COMMITTEE ON ENVIRONMENTAL HAZARDS * /COMMITTEE ON ACCIDENT AND POISON PREVENTION
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0564 THRU: 306/0572
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0161539 DATE: 1986 PAGE: 4
TITLE: "LEAD POISONING IN CHILDREN" (ANALYTICAL CHEMISTRY)
AUTHOR: /AMERICAN CHEMICAL SOCIETY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0573 THRU: 306/0576
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0161543 DATE: JAN. 1985 PAGE: 43
TITLE: "PREVENTING LEAD POISONING IN YOUNG CHILDREN"
AUTHOR: /CDC
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0577 THRU: 306/0619
KEYWORD(S): SOIL * DUST * AIR
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0161585 DATE: FEB. 1988 PAGE: 8
TITLE: DRAFT "TOXICOLOGICAL PROFILE FOR LEAD"
AUTHOR: /TECHNICAL RESOURCES
ADDRESSEE: /ATSDR * /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0620 THRU: 306/0627
KEYWORD(S): AIR * DUST
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0161593 DATE: JUL. 1988 PAGE: 5
TITLE: "LEAD: ASSESSING ITS HEALTH HAZARDS"
AUTHOR: /HEALTH AND ENVIRONMENT DIGEST
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/0628 THRU: 306/0632
KEYWORD(S): AIR * SOIL
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0190222 DATE: JUN. 1986 PAGE: 42
TITLE: "IMPACT OF LEAD ON MIGRATORY BIRDS IN MISSOURI" (ATTACHED ROUTING SLIP)
AUTHOR: KANIA, DIANE M./FWS * NASH, TOM/FWS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 306/0633 THRU: 306/0674
KEYWORD(S): SEDIMENTS * AIR
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0190264 DATE: SEP. 7, 1989 PAGE: 4
TITLE: INTERIM GUIDANCE ON ESTABLISHING SOIL LEAD CLEANUP LEVELS AT SUPERFUND SITES
AUTHOR: LONGEST, HENRY L./EPA * DIAMOND, BRUCE
ADDRESSEE: DIRECTORS/WASTE MANAGEMENT DIVISION, REGION 1, 2, 4, 5, 7, 8 * DIRECTORS/EMERGENCY AND REMEDIAL RESPONSE DIVISION, REGION 2 * DIRECTORS/HAZARDOUS WASTE MANAGEMENT DIVISION, REGION 3, 6 * DIRECTORS/TOXIC WASTE MANAGEMENT DIVISION, REGION 9 * DIRECTORS/HAZARDOUS WASTE DIVISION, REGION 10
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 306/0675 THRU: 306/0678
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0191683 DATE: SEP. 7, 1989 PAGE: 3
TITLE: (OSWER DIRECTIVE: INTERIM GUIDANCE ON ESTABLISHING SOIL LEAD CLEANUP LEVELS AT SUPERFUND SITES)
AUTHOR: LONGEST, HENRY L./EPA * DIAMOND, BRUCE/EPA
ADDRESSEE: DIRECTORS/WASTE MANAGEMENT DIVISION, REGION 1, 2, 4, 5, 7, 8 * DIRECTOR/EMERGENCY AND REMEDIAL RESPONSE DIVISION, REGION 2 * DIRECTORS/HAZARDOUS WASTE MANAGEMENT DIVISION, REGION 3, 4 * DIRECTOR/TOXIC WASTE MANAGEMENT DIVISION, REGION 9 * DIRECTOR/HAZARDOUS WASTE DIVISION, REGION 10
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 306/0679 THRU: 306/0681
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0191686 DATE: MAR. 5, 1990 PAGE: 7
TITLE: (DISCUSSES APPROACHES THAT SHOULD BE TAKEN IN SETTING SOIL CLEANUP LEVELS AS THEY RELATE TO LEAD AND 3 PARTIAL ARTICLES SUPPORTING THESE ACTIONS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MORENO * EGGERT * MULLEN * LEAP * WEIS * BUNTE * WARDELL * FORBA * FOX * HAINES * BARUTH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060700
MICROFILM ROLL/FRAME NO.: 306/0682 THRU: 306/0688
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0191693 DATE: MAR. 12, 1990 PAGE: 45
TITLE: (TRANSMITS ATTACHED REAL WORLD MODELING OF BLOOD-LEAD FROM ENVIRONMENTAL SOURCES [HOFNAGLE]; THE CENTERS FOR DISEASE CONTROL PERSPECTIVE OF LEAD IN SOIL [FALK AND ING]; ADULT SOIL INGESTION ESTIMATES [CALABRESE, STANEK, AND GILBERT])
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: EGGERT * MORENO * CHRIS * DAVE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 306/0689 THRU: 306/0733
KEYWORD(S): SOIL * LEAD * MANGANESE
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0200429 DATE: APR. 4, 1990 PAGE: 2
TITLE: (DISCUSSES ASARCO PROPOSAL TO USE UPTAKE/BIOKINETIC MODEL TO DERIVE SOIL ACTION LEVEL)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: MORENO * WEIS * BARUTH * BUNTE * FOX * HANLEY * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 306/0734 THRU: 306/0735
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0200431 DATE: APR. 23, 1990 PAGE: 2
TITLE: RESPONSE TO ASARCO LETTER OF MAR. 7, 1990 ON LEAD (STATE COMMENT CONCERNING SOIL LEAD ISSUE)
AUTHOR: MULLEN, GREGORY/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
CC: BETH * CHRIS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 306/0736 THRU: 306/0737
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0200755 DATE: JUL. 1988 PAGE: 561
TITLE: "THE NATURE AND EXTENT OF LEAD POISONING IN CHILDREN IN THE UNITED STATES: A REPORT TO CONGRESS"
AUTHOR: /ATSDR
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 306/0776 THRU: 306/1337
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0201316 DATE: JAN. 11, 1990 PAGE: 6
TITLE: "THE LONG TERM EFFECTS OF EXPOSURE TO LOW DOSES OF LEAD IN CHILDHOOD: AN 11-YEAR FOLLOW-UP REPORT" (NEW ENGLAND JOURNAL OF MEDICINE)
AUTHOR: NEEDLEMAN, HERBERT * SCHELL, ALAN * BELLINGER, DAVID * LEVITON, ALAN * ALLRED, ELIZABETH N.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/1338 THRU: 306/1343
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0201322 DATE: JUL. 3, 1990 PAGE: 4
TITLE: (CONCERNS ASARCO CONTRACTOR RECOMMENDATIONS ON PARAMETERS FOR UPTAKE/BIOKINETIC MODEL IN ENDANGERMENT ASSESSMENT)
AUTHOR: HOFFNAGLE, GALE F./TRC
ADDRESSEE: WEIS, CHRIS/EPA
CC: NICKEL * BROWN * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 306/1344 THRU: 306/1347
KEYWORD(S): AIR * SOIL * LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0201326 DATE: JUL. 6, 1990 PAGE: 2
TITLE: (LETTER OF RECOMMENDATION FOR GRANT FOR LEWIS AND CLARK COUNTY HEALTH DEPARTMENT)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: CASSELL, HENRY S./CDC
CC: MCIVOR * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1000000
MICROFILM ROLL/FRAME NO.: 306/1348 THRU: 306/1348
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0201327 DATE: JUL. 31, 1990(E) PAGE: 2
TITLE: (TRANSMITS UPTAKE/BIOKINETIC MODEL SOFTWARE PACKAGE AND COMMENTS FROM JUL. 31 MEETING IN DENVER CONCERNING LEAD CLEANUP LEVELS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: WARDELL * WEIS * BOHAN * MULLEN * BARUTH * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 306/1349 THRU: 306/1350
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0201328 DATE: JUL. 31, 1990 PAGE: 5
TITLE: (CONCERNS LEAD CLEANUP LEVELS AND UPTAKE/BIOKINETIC MODEL)
CC: GREG * CHRIS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN * RESIDENTIAL SOILS
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 306/1351 THRU: 306/1355
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0220761 DATE: JUL. 12, 1990 PAGE: 1
TITLE: (COMMENTS REGARDING ASARCO SOIL SAMPLING AND BLOOD-LEAD TESTING; TRANSMITS 1988 LEWIS AND CLARK COUNTY HEALTH DEPARTMENT CHILD BLOOD LEAD SAMPLE LOCATIONS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN * (WEIS) * HOFFNAGLE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * INCOMPLETE * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 306/0738 THRU: 306/0738
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0220776 DATE: AUG. 1990 PAGE: 31
TITLE: "EAST HELENA, MONTANA THE PUBLIC'S HEALTH IN 1990 A REPORT AND RECOMMENDATIONS FOR ACTION" (LEAD/SOIL CLEANUP; ATTACHED TRANSMITTAL FROM SELSER)
AUTHOR: SELSER, WILL/LCCCHD
ADDRESSEE: COMMISSIONERS OF HELENA, EAST HELENA AND LEWIS AND CLARK COUNTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 306/0739 THRU: 306/0770
KEYWORD(S): ARSENIC * GROUNDWATER * MAGNESIUM * CADMIUM * IRON * ZINC * COPPER * LEAD
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0220807 DATE: OCT. 15, 1990 PAGE: 2
TITLE: (RESPONSE TO EAST HELENA REPORT, CHANGES TO BOARD OF HEALTH AND LEAD ISSUES)
AUTHOR: SELSER, WILL I./LCCCHD
ADDRESSEE: BINDER, SUE/CENTER FOR ENVIRONMENTAL HEALTH AND INJURY CONTROL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 306/0771 THRU: 306/0772
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 0220812 DATE: JAN. 14, 1991 PAGE: 3
TITLE: (TRANSMITS AND COMMENTS ON ATTACHED LEAD/SILT DATA FROM ROAD DUST)
AUTHOR: MULLEN, GREGORY/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
CC: BROWN * NICKEL * STIPICH * /EAST HELENA CITY COUNCIL BOARD MEMBERS * RAISCH * SCHNEIDER * STRIZICH * RAPP * SELSER * STOLL-ANDERSON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 306/0773 THRU: 306/0775
NOTES: UPDATE 02

FILE: 1060706 DOCNO: 402740 DATE: 1983(E) PAGE: 1
TITLE: SUMMARY OF 1983 CDC CHILD BLOOD-LEAD STUDY
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 415/0182 THRU: 415/0182
NOTES: UPDATE 03

FILE: 1060706 DOCNO: 402958 DATE: JAN. 3, 1991 PAGE: 1
TITLE: (STATE PROJECT OFFICER COMMENTS ON EASTGATE SOIL REMOVALS)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0081 THRU: 436/0081
NOTES: UPDATE 04

FILE: 1060706 DOCNO: 418859 DATE: 1991 PAGE: 14
TITLE: "REVIEW AND RECOMMENDATIONS FOR CANADIAN INTERIM ENVIRONMENTAL QUALITY CRITERIA FOR CONTAMINATED SITES" (ENVIRONMENT CANADA SCIENTIFIC SERIES 197)
AUTHOR: /INLAND WATER DIRECTORATE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 544/0016 THRU: 544/0029
KEYWORD(S): SILVER * ARSENIC * CADMIUM * CHROMIUM * COPPER * MERCURY * LEAD * SELENIUM * TIN * THALLIUM * ZINC * SOIL
NOTES: UPDATE 05

FILE: 1060706 DOCNO: 418860 DATE: JUN. 19, 1991 PAGE: 16
TITLE: "SYMPOSIUM OVERVIEW: AN UPDATE ON EXPOSURE AND EFFECTS OF LEAD" (FUNDAMENTAL AND APPLIED TOXICOLOGY VOL. 18, PAGES 1-16, 1992)
AUTHOR: BECK, BARBARA D./GRADIENT CORPORATION
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 544/0030 THRU: 544/0045
KEYWORD(S): CADMIUM * LEAD * AIR DUST * SOIL
NOTES: UPDATE 05

FILE: 1060706 DOCNO: 418861 DATE: 1992 PAGE: 4
TITLE: "APPARENT THRESHOLD OF LEAD'S EFFECT ON CHILD INTELLIGENCE"
AUTHOR: RABINOWITZ, MICHAEL B./HARVARD MEDICAL SCHOOL * WANG, JUNG-DER/NATIONAL TAIWAN UNIVERSITY * SOON, WEI-TSUEN/NATIONAL TAIWAN UNIVERSITY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 544/0046 THRU: 544/0049
NOTES: UPDATE 05

FILE: 1060706 DOCNO: 418862 DATE: FEB. 23, 1992 (E) PAGE: 27
TITLE: "CURRENT ISSUES IN ASSESSING THE HEALTH RISKS OF LEAD" (31ST ANNUAL MEETING OF THE SOCIETY OF TOXICOLOGY SEATTLE WASHINGTON)
AUTHOR: DAVIS, J. MICHAEL/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 544/0050 THRU: 544/0076
NOTES: UPDATE 05

FILE: 1060706 DOCNO: 418863 DATE: APR. 17, 1992 PAGE: 2
TITLE: "EFFECTS OF LOW LEVELS OF LEAD EXPOSURE" (SCIENCE VOL. 256, PAGE 294)
AUTHOR: ROSEN, JOHN F./ALBERT EINSTEIN COLLEGE OF MEDICINE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 544/0077 THRU: 544/0078
NOTES: UPDATE 05

FILE: 1060706 DOCNO: 418864 DATE: APR. 22, 1992 PAGE: 3
TITLE: (DISCUSSES REDUCING BIOAVAILABILITY OF LEAD IN SOIL)
AUTHOR: RABINOWITZ, MICHAEL/(MARINE BIOLOGICAL LABORATORY)
ADDRESSEE: SPITTLER, TOM/EPA * WEIS, CHRIS/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/0079 THRU: 544/0081
NOTES: UPDATE 05

FILE: 1060706 DOCNO: 418865 DATE: MAY 1992 (E) PAGE: 9
TITLE: "DETERMINANTS OF BLOOD LEAD CONCENTRATIONS TO AGE 5 YEARS IN A BIRTH COHORT STUDY OF CHILDREN LIVING IN THE LEAD SMELTING CITY OF PORT PIRIE AND SURROUNDING AREAS" (ATTACHED COMMENTS ON ARTICLE BY BROWN)
AUTHOR: BAGHURST, PETER A./COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION * TONG, SHI-LU/NATIONAL HEALTH EDUCATION INSTITUTE * MCMICHAEL, ANTHONY J./UNIVERSITY OF ADELAIDE * ROBERTSON, EVALYN F./ADELAIDE CENTRE FOR WOMENS AND CHILDRENS HEALTH * WIGG, NEIL R./CHILD ADOLESCENT AND FAMILY HEALTH SERVICE * VIMPANI, GRAHAM V./UNIVERSITY OF NEWCASTLE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 544/0082 THRU: 544/0090
KEYWORD(S): LEAD * DUST * SOIL
NOTES: UPDATE 05

FILE: 1060706 DOCNO: 424029 DATE: OCT. 1991 PAGE: 294
TITLE: "TOXICOLOGICAL PROFILE FOR LEAD" (DRAFT FEB. 1992 UPDATE FOR PUBLIC COMMENT)
AUTHOR: /CLEMENT INTERNATIONAL
ADDRESSEE: /ATSDR
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/0296 THRU: 581/0589
KEYWORD(S): GROUNDWATER * AIR * DUST * SOIL * HUMAN EXPOSURE
NOTES: UPDATE 06

FILE: 1060706 DOCNO: 424030 DATE: OCT. 28, 1992 PAGE: 4
TITLE: "SMUGGLER MOUNTAIN TECHNICAL ADVISORY COMMITTEE EXECUTIVE SUMMARY OCT. 28, 1992"
AUTHOR: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 581/0590 THRU: 581/0593
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 06

FILE: 1060706 DOCNO: 424031 DATE: DEC. 29, 1992 PAGE: 2
ATTACHED DOC(S): 424032 THRU: 424033
TITLE: (RESPONSE TO OWPE CONCERNING PRP-COMPLETED RISK ASSESSMENT; TRANSMITS RPM QUESTIONNAIRE)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: CHARSKY, MATT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0594 THRU: 581/0596
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 06

FILE: 1060706 DOCNO: 424032 DATE: DEC. 15, 1989 PAGE: 11
ATTACHED TO: 424031
TITLE: (COMMENTS CONCERNING COMPREHENSIVE ENDANGERMENT ASSESSMENT DRAFT REPORT)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: WARDELL * MORENO * WEIS * FORBA * MULLEN * BUNTE * BARUTH
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0597 THRU: 581/0607
NOTES: UPDATE 06

FILE: 1060706 DOCNO: 424033 DATE: NOV. 1992 PAGE: 11
ATTACHED TO: 424031
TITLE: EVALUATION SURVEY/QUESTIONNAIRE ON CONDUCT OF EPA AND/OR PRP RISK ASSESSMENTS
AUTHOR: (BROWN, D. SCOTT/EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: FORM
MICROFILM ROLL/FRAME NO.: 581/0608 THRU: 581/0618
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * COPPER * MERCURY * LEAD * GROUNDWATER * AIR * SOIL
NOTES: UPDATE 06

FILE: 1060706 DOCNO: 424494 DATE: SEP. 10, 1992 PAGE: 7
TITLE: "MODIFYING SOIL LEAD BIOAVAILABILITY BY PHOSPHATE ADDITION"
AUTHOR: RABINOWITZ, MICHAEL B./HARVARD MEDICAL SCHOOL
ADDRESSEE: /BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 627/0248 THRU: 627/0254
NOTES: UPDATE 07

FILE: 1060706 DOCNO: 425951 DATE: AUG. 15, 1994 PAGE: 1
ATTACHED DOC(S): 425952
TITLE: (TRANSMITS JOURNAL ARTICLE CONCERNING SOIL INGESTION IN CHILDREN)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/0050 THRU: 737/0050
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425952 DATE: 1992(E) PAGE: 29
ATTACHED TO: 425951
TITLE: "SOIL INGESTION IN CHILDREN: OUTDOOR SOIL OR INDOOR DUST?" (JOURNAL OF SOIL CONTAMINATION VOL. 1, 1, 1992)
AUTHOR: STANEK, EDWARD J./UNIVERSITY OF MASSACHUSETTS * CALABRESE, EDWARD J./UNIVERSITY OF MASSACHUSETTS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0051 THRU: 737/0079
KEYWORD(S): LEAD * DUST * SOIL
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425979 DATE: 1987 (E) PAGE: 2
TITLE: (REFERENCES ARTICLES CONCERNING SOIL INGESTION BY CHILDREN)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 737/0080 THRU: 737/0081
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425980 DATE: 1987 (E) PAGE: 9
TITLE: "SOURCE DETERMINATION OF HEAVY METAL CONTAMINANTS IN THE SOIL OF A MINE AND SMELTER AREA"
AUTHOR: LAGERWERFF, J. V./USDA * BROWER, D. L./USDA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0082 THRU: 737/0090
KEYWORD(S): CADMIUM * IRON * LEAD * ZINC * AIR * SOIL
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425981 DATE: 1988 (E) PAGE: 42
TITLE: DRAFT "SOIL LEAD-BLOOD LEAD RELATIONSHIP IN A FORMER LEAD MINING TOWN" (TELLURIDE, COLORADO)
AUTHOR: BORNSCHEIN, R. L. * CLARK, C. S. * GROTE, J. * PEACE, B. * RODA, S. * SUCCOP, P.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0091 THRU: 737/0132
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425982 DATE: AUG. 1966 PAGE: 8
TITLE: "THE PREVALENCE OF PICA"
AUTHOR: BARLTROP, DONALD/HARVARD MEDICAL SCHOOL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0133 THRU: 737/0140
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425983 DATE: MAY 1974 PAGE: 4
TITLE: "ROLE OF AIRBORNE LEAD IN INCREASED BODY BURDEN OF LEAD IN HARTFORD CHILDREN"
AUTHOR: LEPOW, MARTHA L./UNIVERSITY OF CONNECTICUT * BRUCKMAN, LEONARD/CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION * RUBINO, ROBERT A./CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION * MARKOWITZ, STEVEN/UNIVERSITY OF CONNECTICUT * GILLETTE, MARYBETH/UNIVERSITY OF CONNECTICUT * KAPISH, JANET/CONNECTICUT DEPARTMENT OF HEALTH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0141 THRU: 737/0144
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425984 DATE: 1975 PAGE: 7
TITLE: "INVESTIGATIONS INTO SOURCES OF LEAD IN THE ENVIRONMENT OF URBAN CHILDREN"
AUTHOR: LEPOW, MARTHA L./UNIVERSITY OF CONNECTICUT * BRUCKMAN, LEONARD/CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION * GILLETTE, MARYBETH/UNIVERSITY OF CONNECTICUT * MARKOWITZ, STEVEN/YALE UNIVERSITY * ROBINO, ROBERT/CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION * KAPISH, JANET/CONNECTICUT DEPARTMENT OF HEALTH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0145 THRU: 737/0151
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425985 DATE: JAN. 31, 1975 PAGE: 3
TITLE: "LEAD IN URBAN STREET DUST"
AUTHOR: DAY, J. P./UNIVERSITY OF MANCHESTER * HART, M./UNIVERSITY OF MANCHESTER * ROBINSON, M. S./UNIVERSITY OF MANCHESTER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0152 THRU: 737/0154
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425986 DATE: 1977 PAGE: 7
TITLE: "LEAD-IN-DUST IN CITY STREETS"
AUTHOR: DUGGAN, M. J./ENVIRONMENTAL SCIENCES GROUP * WILLIAMS, S./ENVIRONMENTAL SCIENCES GROUP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0155 THRU: 737/0161
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425987 DATE: AUG. 1977 PAGE: 11
TITLE: "QUANTITIES OF LEAD PRODUCING HEALTH EFFECTS IN HUMANS: SOURCES AND BIOAVAILABILITY"
AUTHOR: MAHAFFEY, KATHRYN R./FDA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0162 THRU: 737/0172
KEYWORD(S): LEAD * DUST * SOIL
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425988 DATE: 1983 PAGE: 4
TITLE: "BIOKINETIC MODELLING FOR MAMMALIAN LEAD METABOLISM"
AUTHOR: KNEIP, T. J./NEW YORK UNIVERSITY * MALLON, R. P./NEW YORK UNIVERSITY * HARLEY, N. H./NEW YORK UNIVERSITY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0173 THRU: 737/0176
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425989 DATE: 1985 PAGE: 14
TITLE: "ASSESSMENT OF HEALTH RISK FROM EXPOSURE TO CONTAMINATED SOIL"
AUTHOR: HAWLEY, JOHN K./NEW YORK STATE DEPARTMENT OF HEALTH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0177 THRU: 737/0190
KEYWORD(S): LEAD * DUST * SOIL
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425990 DATE: 1985 PAGE: 20
TITLE: "TRACE ELEMENTS IN SURFACE SOILS FROM THE MINERALIZED AREA OF MADISON COUNTY, MISSOURI, U.S.A."
AUTHOR: DAVIES, B. E./UNIVERSITY COLLEGE OF WALES * WIXSON, B. G./UNIVERSITY OF MISSOURI-ROLLA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0191 THRU: 737/0210
KEYWORD(S): SILVER * CADMIUM * CHROMIUM * COPPER * MANGANESE * LEAD * ZINC * SOIL
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425991 DATE: 1987 PAGE: 7
TITLE: "HOW MUCH SOIL DO CHILDREN EAT? AN EMERGING CONSIDERATION FOR ENVIRONMENTAL HEALTH RISK ASSESSMENT"
AUTHOR: CALABRESE, EDWARD J./UNIVERSITY OF MASSACHUSETTS * KOSTECKI, PAUL T./UNIVERSITY OF MASSACHUSETTS * GILBERT, CHARLES E./UNIVERSITY OF MASSACHUSETTS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0211 THRU: 737/0217
KEYWORD(S): CADMIUM * LEAD * DUST * SOIL
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425992 DATE: DEC. 1986 PAGE: 5
TITLE: "ESTIMATING SOIL INGESTION: THE USE OF TRACER ELEMENTS IN ESTIMATING THE AMOUNT OF SOIL INGESTED BY YOUNG CHILDREN"
AUTHOR: BINDER, SUE/CDC * MAUGHAN, DAVID/MDHES * SOKAL, DAVID/CDC
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0218 THRU: 737/0222
KEYWORD(S): DUST * SOIL
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425993 DATE: 1987 PAGE: 5
TITLE: "ESTIMATED SOIL INGESTION RATES FOR USE IN RISK ASSESSMENT"
AUTHOR: LAGOY, PETER K./ICF-CLEMENT ASSOCIATES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0223 THRU: 737/0227
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425994 DATE: 1987 PAGE: 10
TITLE: "A METHOD FOR ESTIMATING SOIL INGESTION BY CHILDREN"
AUTHOR: CLAUSING, P./WAGENINGEN AGRICULTURAL UNIVERSITY * BRUNEKREEF, B./WAGENINGEN AGRICULTURAL UNIVERSITY * VAN WIJNEN, J. H./NETHERLANDS MUNICIPAL HEALTH SERVICE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0228 THRU: 737/0237
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425995 DATE: 1989 PAGE: 15
TITLE: "HOW MUCH SOIL DO YOUNG CHILDREN INGEST: AN EPIDEMIOLOGIC STUDY"
AUTHOR: CALABRESE, EDWARD J./UNIVERSITY OF MASSACHUSETTS * BARNES, RAMON/UNIVERSITY OF MASSACHUSETTS * STANEK, EDWARD J./UNIVERSITY OF MASSACHUSETTS * PASTIDES, HARRIS/UNIVERSITY OF MASSACHUSETTS * GILBERT, CHARLES E./UNIVERSITY OF MASSACHUSETTS * VENEMAN, PETER/UNIVERSITY OF MASSACHUSETTS * WANG, XIOARU/UNIVERSITY OF MASSACHUSETTS * LASZTITY, ALEXANDRA/UNIVERSITY OF MASSACHUSETTS * KOSTECKI, PAUL T./UNIVERSITY OF MASSACHUSETTS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0238 THRU: 737/0252
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425996 DATE: 1989 PAGE: 25
TITLE: "THE DEVELOPMENT OF APPLIED ACTION LEVELS FOR SOIL CONTACT: A SCENARIO FOR THE EXPOSURE OF HUMANS TO SOIL IN A RESIDENTIAL SETTING"
AUTHOR: SEDMAN, RICHARD M./CALIFORNIA STATE DEPARTMENT OF HEALTH SERVICES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0253 THRU: 737/0277
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425997 DATE: MAY 18, 1989 PAGE: 41
TITLE: (DIALOG DATABASE SEARCH RESULTS FOR SUBJECT OF LEAD IN ENVIRONMENT)
AUTHOR: /DIALOG INFORMATION SERVICES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/0278 THRU: 737/0318
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 425998 DATE: OCT. 13, 1989 PAGE: 31
TITLE: (DISCUSSES OSWER GUIDANCE ON SOIL INGESTION RATES FOR CHILDREN; ATTACHED EVALUATION OF SOIL INGESTION RATES)
AUTHOR: KRABLIN, RICHARD/ARCO
ADDRESSEE: CANNON, JONATHAN Z./EPA
CC: SCHERER * REILLY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0319 THRU: 737/0349
NOTES: UPDATE 09

FILE: 1060706 DOCNO: 465637 DATE: NOV. 2001 PAGE: 1
TITLE: (ASARCO LAMPING PROPERTY MAP)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 1594/0232 THRU: 1594/0233
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 1060706 DOCNO: 465638 DATE: SEP. 30, 2003 PAGE: 1
DUPLICATE DOCUMENT: 1060704/465631
TITLE: (TRANSMITS MAPS AND TECHNICAL MEMORANDUMS REGARDING DISTRIBUTION OF SOIL LEAD AND ARSENIC IN HELENA VALLEY)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0234 THRU: 1594/0234
NOTES: UPDATE 28

FILE: 1060706 DOCNO: 465639 DATE: SEP. 18, 2003 PAGE: 2
TITLE: (TRANSMITS ATTACHED SEP. 18, 2003 DOLLHOPF TO BROWN MEMO DISCUSSING LAMPING PROPERTY SAMPLES)
AUTHOR: DOLLHOPF, DOUGLAS/(MSU)
ADDRESSEE: BROWN, SCOTT/EPA
CC: NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1594/0235 THRU: 1594/0236
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 1060706 DOCNO: 465640 DATE: OCT. 9, 2003 PAGE: 8
TITLE: (TRANSMITS ATTACHED REVISED MEMO REGARDING ESTIMATED AREA IN HELENA VALLEY WHERE TOTAL SOIL LEAD CONCENTRATIONS EXEED 1000 MG/KG; ATTACHED MAP 1 SHOWS RESULTS)
AUTHOR: DOLLHOPF, DOUGLAS/(MSU)
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1594/0237 THRU: 1594/0245
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 1060706 DOCNO: 465641 DATE: OCT. 10, 2003 PAGE: 3
TITLE: (TRANSMITS ATTACHED GEOSTATISTICS, VARIOGRAM AND KRIGING DEFINITIONS)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BROWN, SCOTT/EPA
CC: DOLLHOPF * VANDEBERG
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1594/0961 THRU: 1594/0963
NOTES: UPDATE 28

FILE: 1060706 DOCNO: 465643 DATE: NOV. 2003 PAGE: 4
DUPLICATE DOCUMENT: 4080000/465694
TITLE: "SUMMARY OF 2003 BLOOD LEAD DATA SET"
AUTHOR: /(LCCCHD)
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 1594/0248 THRU: 1594/0251
NOTES: UPDATE 28

FILE: 1060706 DOCNO: 465726 DATE: JUN. 2, 2004 PAGE: 1
DUPLICATE DOCUMENT: 4080000/465748
TITLE: (BLOOD LEAD DATA FOR CHILDREN 0-72 MONTHS)
AUTHOR: /LCCCHD
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 1660/0022 THRU: 1660/0022
NOTES: UPDATE 29

FILE: 1060706 DOCNO: 465728 DATE: JUL. 12, 2004 PAGE: 32
TITLE: (DRAFT) "RE-EVALUATION OF THE IEUBK-BASED CLEAN-UP LEVEL FOR LEAD IN SOIL IN EAST HELENA, MONTANA"
AUTHOR: /EPA * /SYRACUSE RESEARCH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * DRAFT * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1908/0025 * 1662/0006 THRU: 1908/0056 * 1662/0037
NOTES: UPDATE 34 * UPDATE 29

FILE: 1060706 DOCNO: 465800 DATE: MAR. 24, 2005 PAGE: 3
DUPLICATE DOCUMENT: 4080000/465815
TITLE: (RESPONDS TO INCLUDED MAR. 22, 2005 WILLIAMS EMAIL TRANSMITTING ATTACHED REVISED 2004 BLOOD SCREENING INFORMATION)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: MILLER, AUBREY/EPA * BRATTIN, BILL/(SYRACUSE RESEARCH) * REED, (DARYL)/MDEQ
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1696/0027 THRU: 1696/0029
NOTES: UPDATE 30

FILE: 1060706 DOCNO: 465801 DATE: JUN. 30, 2004 PAGE: 3
TITLE: (TRANSMITS ATTACHED 1995 - 2003 BLOOD LEAD DATA FOR CHILDREN 0 -72 MONTHS; ATTACHED JUN. 30, 2004 EMAIL FROM WILLIAMS TO BROWN CONCERNING TEST TOTAL CORRECTION)
AUTHOR: WILLIAMS, JAN/LCCCHD
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1696/0030 THRU: 1696/0032
KEYWORD(S): LEAD
NOTES: UPDATE 30

FILE: 1060706 DOCNO: 465844 DATE: JUN. 13, 2005 PAGE: 3
TITLE: (COMMENTS ON MAR. 18, 2005 REEVALUATION OF IEUBK MODEL REPORT)
AUTHOR: REED, DARYL/MDEQ
ADDRESSEE: BROWN, SCOTT/EPA
CC: OLSEN * ANDERSEN * MILLER * YEOW
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1748/0022 THRU: 1748/0024
NOTES: UPDATE 31

FILE: 1060706 DOCNO: 465893 DATE: OCT. 2006 (E) PAGE: 1
TITLE: (2006 BLOOD LEAD LEVELS SCREENING RESULTS)
AUTHOR: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 1908/0057 THRU: 1908/0057
KEYWORD(S): LEAD
NOTES: UPDATE 34

FILE: 1060707 DOCNO: 0141226 DATE: SEP. 1984 PAGE: 25
TITLE: "HEALTH EFFECTS ASSESSMENT FOR MERCURY"
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/1356 THRU: 306/1380
KEYWORD(S): MERCURY
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 0141251 DATE: 1984 (E) PAGE: 23
TITLE: "SUPERFUND ENFORCEMENT ENDANGERMENT ASSESSMENT" (DEFINITIONS AND DOCUMENTATION PROCEDURES)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 306/1381 THRU: 306/1403
KEYWORD(S): SOIL * GROUNDWATER * AIR
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 0141274 DATE: JAN. 6, 1984 (E) PAGE: 2
TITLE: (RESUME FOR LINCOLN RISK ASSESSMENT SPECIALIST)
AUTHOR: LINCOLN, DAVID R.
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: RESUME
MICROFILM ROLL/FRAME NO.: 306/1404 THRU: 306/1405
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 0141276 DATE: 1988 (E) PAGE: 2
TITLE: INFORMATION ON IRIS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/1406 THRU: 306/1407
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 0141278 DATE: 1988 (E) PAGE: 6
TITLE: IRIS CHEAT SHEET (INSTRUCTIONS TO GET INTO IRIS THROUGH E-MAIL)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 306/1408 THRU: 306/1413
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 0141284 DATE: NOV. 1984 PAGE: 61
TITLE: RESEARCH AND DEVELOPMENT DRAFT "HEALTH EFFECTS ASSESSMENT FOR SELENIUM (AND COMPOUNDS)"
AUTHOR: /EPA
ADDRESSEE: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/1414 THRU: 306/1474
KEYWORD(S): SELENIUM * SOIL * IRON * DUST
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 0141345 DATE: JAN. 11, 1985 PAGE: 77
TITLE: (TRANSMITS ATTACHED RFP ADMINISTRATIVE ORDER RELATED TO PERFORMANCE OF ENDANGERMENT ASSESSMENT; RELEVANT CORRESPONDENCE, PORTIONS OF WORK PLAN DEALING WITH ENDANGERMENT ASSESSMENT AND PROPOSED GUIDELINES)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: DURFEE, ROBERT L./VERSAR
CC: SHARP * NICKEL * HART * FROHARDT * VARNER * BUNDY * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 306/1475 THRU: 306/1551
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 0141422 DATE: APR. 15, 1985 PAGE: 33
TITLE: (TRANSMITS ATTACHED PROFESSIONAL RESUMES OBTAINED FROM ENVIRONMENTAL SCIENCES AND ENGINEERING OF GAINESVILLE, FLORIDA RELEVANT TO ENDANGERMENT ASSESSMENT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 306/1552 THRU: 306/1584
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 0141455 DATE: MAR. 1987 PAGE: 81
TITLE: "INTEGRATED RISK INFORMATION SYSTEM SUPPORTIVE DOCUMENTATION VOL. 1"
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 306/1585 THRU: 306/1665
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 0151572 DATE: APR. 11, 1985 PAGE: 11
TITLE: (NOTIFICATION ASARCO HAS CHOSEN ESE OF GAINESVILLE, FLORIDA TO PERFORM ENDANGERMENT ASSESSMENT; ATTACHED SYNOPSIS OF ESE APPROACH TO ENDANGERMENT ASSESSMENT)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 306/1666 THRU: 306/1676
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 0152145 DATE: JAN. 23, 1986 PAGE: 2
TITLE: (REQUEST FOR DATA AND INFORMATION ABOUT ENDANGERMENT ASSESSMENT)
AUTHOR: NICKEL, JON C/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: CRANE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 306/1677 THRU: 306/1678
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 0190267 DATE: JAN. 25, 1985 PAGE: 99
TITLE: "COMPLETION REPORT ON WQIS PROJECT 2 FOR THE COMMENCEMENT BAY NEARSHORE/TIDE FLATS REMEDIAL INVESTIGATION (RI): METALS CONCENTRATIONS IN WATER, SEDIMENT AND FISH TISSUE SAMPLES FROM HYLEBOS CREEK DRAINAGE AUG. 1983-SEP. 1984"
AUTHOR: JOHNSON, ART/WASHINGTON STATE DEPT. OF ECOLOGY * NORTON, DALE/WASHINGTON STATE DEPT. OF ECOLOGY
ADDRESSEE: KRULL, JIM
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):5030000
MICROFILM ROLL/FRAME NO.: 306/1679 THRU: 306/1777
KEYWORD(S): ARSENIC * ZINC * COPPER * LEAD * CADMIUM
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 0190365 DATE: APR. 1986 PAGE: 82
TITLE: "RELEASE OF TRACE METALS TO WATER FROM SLAG AND BIOACCUMULATION IN MARINE ANIMALS"
AUTHOR: CRECELIUS, E. A./MARINE RESEARCH LABORATORY * /BATTELLE
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):5030000
MICROFILM ROLL/FRAME NO.: 306/1778 THRU: 306/1859
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MERCURY * SILVER * ZINC
NOTES: UPDATE 02

FILE: 1060708 DOCNO: 425999 DATE: 1984 PAGE: 24
TITLE: "HEALTH IMPLICATIONS OF 2,3,7,8--TETRACHLORODIBENZODIOXIN (TCDD) CONTAMINATION OF RESIDENTIAL SOIL"
AUTHOR: KIMBROUGH, RENATE D./CDC * FALK, HENRY/CDC * STEHR, PAUL/CDC * FRIES, GEORGE/USDA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 737/0350 THRU: 737/0373
NOTES: UPDATE 09

FILE: 1060708 DOCNO: 450399 DATE: JUL. 30, 1984 PAGE: 52
TITLE: "ENDANGERMENT ASSESSMENT ASARCO SMELTER EAST HELENA, MONTANA"
AUTHOR: /CH2M HILL
ADDRESSEE: SCHWAB, KEITH/(EPA) * BOORNAZIAN, LINDA/(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060701 * 1060702 * 1060800
MICROFILM ROLL/FRAME NO.: 323/1854 * 912/0008 THRU: 323/1905 * 912/0059
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02 * UPDATE 13 * FILM REEL CONTAINS CBI; 8/22/96: DOCUMENT RELEASED PER RPM AND ATTORNEY AND REFILMED AS ADMINISTRATIVE RECORD * DOCUMENT ORIGINALLY FILMED AS 1060708/0010300

FILE: 1060800 DOCNO: 0141536 DATE: 1984 (E) PAGE: 44
TITLE: DRAFT "CYTOSOLIC METAL DISTRIBUTION IN TROUT FROM PRICKLY PEAR CREEK: ACUTE BIOASSAYS AND CAGED FISH STUDIES"
AUTHOR: JENKINS, KENNETH D./CALIFORNIA STATE UNIVERSITY * OSHIDA, PHILIP S./CALIFORNIA STATE UNIVERSITY
ADDRESSEE: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000 * 1030300
MICROFILM ROLL/FRAME NO.: 306/1860 THRU: 306/1903
KEYWORD(S): ZINC * COPPER * CADMIUM
NOTES: UPDATE 02

FILE: 1060800 DOCNO: 0141580 DATE: 1986 (E) PAGE: 5
TITLE: "ASSESSMENT OF THE TOXICITY OF COPPER, MERCURY, SELENIUM, SILVER AND THALLIUM IN SOIL AND PLANTS IN THE EAST HELENA VALLEY OF MONTANA FOR EAST HELENA SITE (ASARCO) EAST HELENA, MONTANA" (INTRODUCTION)
AUTHOR: /CH2M HILL
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060800
MICROFILM ROLL/FRAME NO.: 306/1904 THRU: 306/1908
NOTES: UPDATE 02

FILE: 1060800 DOCNO: 0141585 DATE: SEP. 1985 PAGE: 8
TITLE: ENVIRONMENTAL RESEARCH BRIEF "INSTREAM TESTS FOR TOXICITY PERSISTENCE FROM HEAVY METALS" (PRICKLY PEAR CREEK AND SPRING CREEK, MONTANA)
AUTHOR: BALDIGO, BARRY P./LOCKHEED ENGINEERING * KINNEY, WESLEY L./EPA * BAKER, JOHN R./LOCKHEED ENGINEERING
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 306/1909 THRU: 306/1916
KEYWORD(S): SEDIMENTS * CADMIUM * LEAD * ZINC * COPPER * SILVER
NOTES: UPDATE 02

FILE: 1060800 DOCNO: 0141593 DATE: MAY 1987 PAGE: 215
DUPLICATE DOCUMENT: 4011900/100001
TITLE: "ASSESSMENT OF THE TOXICITY OF ARSENIC, CADMIUM, LEAD AND ZINC IN SOIL, PLANTS, AND LIVESTOCK IN THE HELENA VALLEY OF MONTANA"
AUTHOR: /CH2M HILL
ADDRESSEE: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 306/1917 THRU: 306/2131
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1060800 DOCNO: 0141808 DATE: MAY 1987 PAGE: 93
DUPLICATE DOCUMENT: 4011900/100002
TITLE: "ASSESSMENT OF THE TOXICITY OF COPPER, MERCURY, SELENIUM, SILVER AND THALLIUM IN SOIL AND PLANTS IN THE HELENA VALLEY OF MONTANA"
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1070201
MICROFILM ROLL/FRAME NO.: 306/2132 THRU: 306/2224
KEYWORD(S): COPPER * MERCURY * SELENIUM * SILVER * THALLIUM
NOTES: UPDATE 02

FILE: 1060800 DOCNO: 0161598 DATE: MAR. 14, 1989 PAGE: 1
TITLE: (REQUESTS BIOLOGICAL INVENTORY OF ENDANGERED SPECIES)
AUTHOR: FARMER, PATRICK/WESTECH
ADDRESSEE: PALAWSKI, DON/FWS
CC: BROWN * NICKEL * MILLER * SANDRA * DAVE * KEVIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 306/2225 THRU: 306/2225
NOTES: UPDATE 02

FILE: 1060800 DOCNO: 0190447 DATE: AUG. 22, 1989 PAGE: 2
TITLE: (DISCUSSES NOV. 10, 1988 SODIUM SPILL LEADING TO AUDIT)
AUTHOR: GODSIL, PATRICK J./EPA
ADDRESSEE: NICKEL, JOHN (JON)/ASARCO
CC: ELLERHOFF * ROBERTSON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 306/2226 THRU: 306/2227
NOTES: UPDATE 02

FILE: 1060800 DOCNO: 0200433 DATE: 1989 (E) PAGE: 6
TITLE: (BIBLIOGRAPHY OF PAPERS ON METALS IN FISH AND WILDLIFE)
AUTHOR: FARMER, PAT/WESTECH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 306/2228 THRU: 306/2233
NOTES: UPDATE 02

FILE: 1060800 DOCNO: 434615 DATE: SEP. 7, 1994 (E) PAGE: 1
ATTACHED DOC(S): 434616
TITLE: (DISCUSSES VISIT TO KLEPZIG PROPERTY WITH VETERINARIAN)
AUTHOR: (BROWN), SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * ORIGINAL
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 737/0374 THRU: 737/0374
NOTES: UPDATE 09

FILE: 1060800 DOCNO: 434616 DATE: AUG. 18, 1994 PAGE: 2
ATTACHED TO: 434615
TITLE: (REQUESTS SOIL TESTS ON PROPERTY; DESCRIBES HEALTH PROBLEMS WITH ANIMALS; ATTACHED PHOTO SHOWING INJURED HORSE)
AUTHOR: KLEPZIG, CLEO
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0375 THRU: 737/0376
NOTES: UPDATE 09

FILE: 1060800 DOCNO: 465645 DATE: OCT. 17, 2003 PAGE: 13
TITLE: "FISH SAMPLING HELENA, MONTANA" (ATTACHED OCT. 21, 2003 FAX TRANSMITTAL FROM DUCHENEAUX TO BROWN)
AUTHOR: DUCHENEAUX, CARLYLE/(CHEYENNE RIVER SIOUX TRIBE ENVIRONMENTAL PROTECTION)
ADDRESSEE: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1594/0252 THRU: 1594/0264
NOTES: UPDATE 28

FILE: 1060800 DOCNO: 465706 DATE: SEP. 25, 2003 PAGE: 211
TITLE: "QUALITY ASSURANCE PROJECT PLAN (QAPP) TO SUPPORT ECOLOGICAL RISK ASSESSMENT AT THE EAST HELENA SITE, MONTANA" (SIGNED; ATTACHED SHIPPING INVOICES)
AUTHOR: /EPA * /SYRACUSE RESEARCH
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1594/0265 THRU: 1594/0475
KEYWORD(S): ARSENIC * CADMIUM * MANGANESE * IRON * COPPER * ZINC
NOTES: UPDATE 28

FILE: 1060801 DOCNO: 465649 DATE: AUG. 14, 2003 PAGE: 3
TITLE: "ACROSS MONTANA, SHEEP MAKE SHORT WORK OF WEEDS"
AUTHOR: /MSU UNIVERSITY NEWS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 1594/0524 THRU: 1594/0526
NOTES: UPDATE 28

FILE: 1060801 DOCNO: 465927 DATE: MAR. 21, 2007 PAGE: 5
DUPLICATE DOCUMENT: 4080000/465928
TITLE: (RESPONDS TO INCLUDED MAR. 20-21, 2007 EMAILS BETWEEN BROWN AND WILLIAMS REGARDING ATTACHED 2002-2003 INTERIOR DUST MONITORING RESULTS FOR LEWIS AND CLARK COUNTY MONITORED HOMES)
AUTHOR: WILLIAMS, JAN/LCCCHD
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1908/0058 THRU: 1908/0062
KEYWORD(S): LEAD
NOTES: UPDATE 34

FILE: 1070100 DOCNO: 0220733 DATE: MAY 9, 1960 PAGE: 1
TITLE: (AERIAL PHOTOGRAPHS OF AREA AROUND LANDFILL WEST OF SMELTER [HULST WELLS])(2 PHOTOS)
AUTHOR: /MONTANA HIGHWAY DEPARTMENT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * OVERSIZE
DOCUMENT TYPE: PHOTO/SLIDE
MICROFILM ROLL/FRAME NO.: 308/0705 THRU: 308/0706
NOTES: UPDATE 02 * LOCATED IN BOX 3

FILE: 1070100 DOCNO: 402741 DATE: SEP. 4, 1990 PAGE: 1
ATTACHED DOC(S): 402742 THRU: 402744
TITLE: (TRANSMITS POST RI VALIDATION SUMMARIES FOR ORGANIC AND INORGANIC DATA)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0183 THRU: 415/0183
NOTES: UPDATE 03

FILE: 1070100 DOCNO: 402742 DATE: DEC. 21, 1990 PAGE: 1
ATTACHED TO: 402741
TITLE: (TRANSMITS ADDITIONAL COPIES OF POST-RI VALIDATION SUMMARIES FOR ORGANIC AND INORGANIC DATA)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * NICKEL * /DOJ
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0184 THRU: 415/0184
NOTES: UPDATE 03

FILE: 1070100 DOCNO: 402743 DATE: OCT. 1990 PAGE: 111
ATTACHED TO: 402741
TITLE: "DATA VALIDATION SUMMARY FOR THE ASARCO EAST HELENA POST RI MONITORING"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/0185 THRU: 415/0295
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * SELENIUM * ZINC * GROUNDWATER * SURFACE WATER STANDARDS
NOTES: UPDATE 03

FILE: 1070100 DOCNO: 402744 DATE: DEC. 1990 PAGE: 28
ATTACHED TO: 402741
TITLE: "VALIDATION SUMMARY OF ORGANICS DATA, FALL 1988 THROUGH SPRING 1990 ASARCO INCORPORATED EAST HELENA, MONTANA"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/0296 THRU: 415/0323
KEYWORD(S): GROUNDWATER
NOTES: UPDATE 03

FILE: 1070100 DOCNO: 402959 DATE: OCT. 7, 1991 PAGE: 1
ATTACHED DOC(S): 402960
TITLE: (TRANSMITS REVIEW OF DATA VALIDATION SUMMARY FOR ASARCO EAST HELENA POST RI MONITORING BY HYDROMETRICS AUG. 1991)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 436/0082 THRU: 436/0082
NOTES: UPDATE 04

FILE: 1070100 DOCNO: 402960 DATE: SEP. 16, 1991 PAGE: 3
ATTACHED TO: 402959
TITLE: (REVIEW OF DATA VALIDATION SUMMARY FOR ASARCO EAST HELENA POST RI MONITORING BY HYDROMETRICS AUG. 1991)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 436/0083 THRU: 436/0085
NOTES: UPDATE 04

FILE: 1070101 DOCNO: 0070625 DATE: 1950 (E) PAGE: 1
TITLE: EAST HELENA QUADRANGLE (LOCATION OF DATA - COLLECTION SITES)
AUTHOR: /USGS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 308/0707 THRU: 308/0707
NOTES: UPDATE 02

FILE: 1070101 DOCNO: 0070626 DATE: MAY 23, 1984 PAGE: 27
TITLE: (TRANSMITS ATTACHED SOIL, VEGETATION AND GRAIN ANALYSES FOR HATLELID, CORY AND LAMPING PROPERTIES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: KRESGE, PAUL/MSU
CC: TAYLOR
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070500
MICROFILM ROLL/FRAME NO.: 308/0708 THRU: 308/0734
KEYWORD(S): ARSENIC * LEAD * ZINC * CADMIUM
NOTES: UPDATE 02

FILE: 1070101 DOCNO: 0070653 DATE: OCT. 26, 1984 PAGE: 39
TITLE: (TRANSMITS ATTACHED RESULTS FROM ORIGINAL PERFORMANCE EVALUATION [PE] SAMPLE 2547 AND PE 703)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL * HAYES
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * HANDWRITTEN
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 308/0735 THRU: 308/0773
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * IRON * CHROMIUM * COPPER
NOTES: UPDATE 02

FILE: 1070101 DOCNO: 0070692 DATE: NOV. 19, 1984 PAGE: 10
TITLE: EAST HELENA HYDROGEOLOGICAL STUDY (FROM NOV. 19 - DEC. 10, 1984)
AUTHOR: HAYES, JOHN G./ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 308/0774 THRU: 308/0783
KEYWORD(S): LEAD * CADMIUM * COPPER * IRON * MANGANESE * ARSENIC * ZINC
NOTES: UPDATE 02

FILE: 1070101 DOCNO: 0070702 DATE: DEC. 11, 1984 PAGE: 117
TITLE: (TRANSMITS DATA FOR SAMPLES TAKEN NOV. 9, 1984)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL * VARNER * ROBBINS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 308/0784 THRU: 308/0902
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1070101 DOCNO: 0070819 DATE: DEC. 17, 1984 PAGE: 1
TITLE: PLANNED SAMPLING ACTIVITY REQUIRING CLP (CLP) ANALYSES
AUTHOR: TAYLOR, (GENE/EPA)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 308/0903 THRU: 308/0903
NOTES: UPDATE 02

FILE: 1070101 DOCNO: 0070820 DATE: OCT. 1985 PAGE: 86
TITLE: EAST HELENA HYDROLOGICAL STUDY (JAN. 7 - OCT. 3, 1985 REPORTS)
AUTHOR: HAYES, JOHN G./ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 308/0904 THRU: 308/0989
NOTES: UPDATE 02

FILE: 1070101 DOCNO: 0070906 DATE: JAN. 18, 1985 PAGE: 1
TITLE: CONFERENCE CALL (EAST HELENA CERCLA SITE CONCERNING TURBIDITY IN WELLS, PH RANGES AND SYSTEC SAMPLING PROCEDURES)
AUTHOR: DUNN, J.
ADDRESSEE: BOTZ, M. * RUBICH, M. * LUCERO, J. * MILLER, BOB
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 308/0990 THRU: 308/0990
NOTES: UPDATE 02

FILE: 1070101 DOCNO: 0070907 DATE: JAN. 24, 1985 PAGE: 85
TITLE: (TRANSMITS ATTACHED ASARCO LABORATORY DATA REVIEW OF DEC. 5, 1984)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: HILLMAN * CALLIO * VONSCHULZ * LAIDLAW * LUCERO * HESTER
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * HANDWRITTEN
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 308/0991 THRU: 308/1075
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1070101 DOCNO: 0070992 DATE: FEB. 8, 1985 PAGE: 1
TITLE: PLAN MAP OF EAST HELENA PLANT FACILITIES (PLANT SITE MONITORING WELLS)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 308/1076 THRU: 308/1076
NOTES: UPDATE 02

FILE: 1070101 DOCNO: 0070993 DATE: FEB. 19, 1985 PAGE: 79
TITLE: (TRANSMITS ATTACHED PRELIMINARY RESULTS OF ANALYSIS AND DELIVERABLE FOR WATER SAMPLES RECEIVED JAN. 17, 1985)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * NICKEL * VARNER * ROBBINS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 308/1077 THRU: 308/1155
KEYWORD(S): ARSENIC * LEAD * CADMIUM * ZINC
NOTES: UPDATE 02
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FILE: 1070101 DOCNO: 0071072 DATE: MAY 7, 1985 PAGE: 39
TITLE: (TRANSMITS ATTACHED GROUNDWATER SAMPLING DATA JAN. 15-21, 1985; IMPACT INFORMATION OF TURBIDITY ON METAL ION CONCENTRATIONS)
AUTHOR: SALE, TOM/CH2M HILL
ADDRESSEE: LOVELL, DOUG/CH2M HILL
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):3030400
MICROFILM ROLL/FRAME NO.: 308/1156 THRU: 308/1194
KEYWORD(S): IRON * MANGANESE * ZINC * ARSENIC * CADMIUM * COPPER * LEAD
NOTES: UPDATE 02
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FILE: 1070101 DOCNO: 0071111 DATE: MAY 30, 1985 PAGE: 250
TITLE: (TRANSMITS ATTACHED PRELIMINARY RESULTS OF ANALYSES AND DELIVERABLE FOR THIRD SAMPLING CAMPAIGN OF SURFACE AND GROUNDWATERS RECEIVED APR. 5 AND 13, 1985)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * NICKEL * VARNER * ROBBINS
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030400 * 4030400
MICROFILM ROLL/FRAME NO.: 308/1195 THRU: 308/1449
KEYWORD(S): SURFACE WATER * GROUNDWATER * ARSENIC * LEAD * CADMIUM * ZINC
NOTES: UPDATE 02
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FILE: 1070101 DOCNO: 0071362 DATE: AUG. 6, 1985 PAGE: 398
TITLE: (TRANSMITS ATTACHED PRELIMINARY RESULTS OF ANALYSES AND DELIVERABLE FOR FOURTH SAMPLING CAMPAIGN OF GROUND AND SURFACE WATERS, LAND RUN OFF SPECIAL SAMPLING AND WILSON DITCH WEEKLY WATER SAMPLES APR. 19 - MAY 28, 1985)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * NICKEL * VARNER * ROBBINS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):3040400 * 4040400 * 4080800
MICROFILM ROLL/FRAME NO.: 308/1450 THRU: 308/1847
KEYWORD(S): ARSENIC * CADMIUM * SURFACE WATER * GROUNDWATER * LEAD * ZINC
NOTES: UPDATE 02
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FILE: 1070101 DOCNO: 0071760 DATE: SEP. 4, 1985 PAGE: 10
TITLE: SAMPLE CODES (PROJECT: ASARCO - EAST HELENA DATES FROM NOV. 2, 1984 TO AUG. 29, 1985)
AUTHOR: /HYDROMETRICS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 308/1848 THRU: 308/1857
NOTES: UPDATE 02
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FILE: 1070101 DOCNO: 0071770 DATE: SEP. 11, 1985 PAGE: 214
TITLE: (TRANSMITS ATTACHED PRELIMINARY RESULTS OF ANALYSES AND DELIVERABLE FOR FIFTH SAMPLING CAMPAIGN)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * NICKEL * VARNER * ROBBINS
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030400 * 4030400
MICROFILM ROLL/FRAME NO.: 308/1858 THRU: 308/2071
KEYWORD(S): ARSENIC * CADMIUM * LEAD * COPPER * IRON * MANGANESE * ZINC
NOTES: UPDATE 02
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FILE: 1070101 DOCNO: 0071984 DATE: OCT. 15, 1985 PAGE: 59
TITLE: (DATA FOR SURFACE WATER STATIONS AT ASARCO SITE FOR NOV. 1984 AND JAN., APR., MAY, JUN. 1985)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: DATA
CROSS FILE(S):2030400
MICROFILM ROLL/FRAME NO.: 308/2072 THRU: 308/2130
KEYWORD(S): LEAD * CADMIUM * ZINC * ARSENIC
NOTES: UPDATE 02
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FILE: 1070101 DOCNO: 0072043 DATE: DEC. 9, 1985 PAGE: 117
TITLE: (DEC 9-18, 1985 SUMMARIES OF QUALITY CONTROL FOR SURFACE WATER, GROUNDWATER, STREAM BOTTOM SEDIMENT AND SOIL QUALITY ANALYSIS FOR VARIOUS HEAVY METALS)
AUTHOR: /ASARCO * /HYDROMETRICS * /CAL * /ROCKY MOUNTAIN ANALYTICAL LABORATORIES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4030400 * 3030400
MICROFILM ROLL/FRAME NO.: 308/2131 THRU: 308/2247
KEYWORD(S): COPPER * LEAD * MANGANESE * BERYLLIUM * ARSENIC * MERCURY * LEAD * ZINC * IRON * SILVER
NOTES: UPDATE 02
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FILE: 1070101 DOCNO: 0072160 DATE: DEC. 27, 1985 PAGE: 4
TITLE: REVIEW OF ASARCO DATA SUBMITTAL DEC. 5, 1984 (CLP SOW, ASARCO LAB PROTOCOL AND QAPP WITH COMMENTS)
AUTHOR: /CH2M HILL
ADDRESSEE: /ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 308/2248 THRU: 308/2252
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0072164 DATE: NOV. 4, 1987 PAGE: 14
TITLE: "CHILD LEAD STUDY EAST HELENA SORTED BY BLOOD LEAD VALUE" (RANKING OF BLOOD SAMPLES; ATTACHED BLOOD SAMPLE RESULTS FROM BIOTRACE LABORATORIES AND RANKING OF DEC. 10, 1987 RESULTS)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: DATA
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 309/0002 THRU: 309/0015
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0072178 DATE: MAY 10, 1988 PAGE: 372
TITLE: (TRANSMITS ATTACHED WELL PIEZOMETER AND TEST BORING LOGS AND CONSTRUCTION DETAILS; SOIL SAMPLE LABORATORY ANALYSES; GROUNDWATER ANALYSES INCLUDING MONITORING AND PRIVATE WELLS; WATER LEVEL DATA; SURFACE WATER LABORATORY ANALYSES; PROCESS PONDS WATER AND SEDIMENT LABORATORY ANALYSES; SLAG PILE DATA INCLUDING TEST BASIN WATER ANALYSES, PRECIPITATION INFILTRATION MEASUREMENTS, BOTTLE ROLL ANALYSES AND EP TOXIC RESULTS; AQUIFER TEST PLOTS AND DATA SUMMARY; LARGE SCALE BASE MAP SHOWING SAMPLE POINTS)
AUTHOR: MILLER ROBERT J./HYDROMETRICS
ADDRESSEE: BUNTE, DAVE/CH2M HILL
CC: NICKEL * BROWN * ROGNESS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/0016 THRU: 309/0387
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0080058 DATE: NOV. 7, 1988 PAGE: 50
TITLE: (TRANSMITS ATTACHED DATA VALIDATION AND REDUCTION REPORT ASARCO EAST HELENA PHASE 2 RI SOILS DATA NOV. 1988)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 309/0388 THRU: 309/0437
KEYWORD(S): CHROMIUM * MANGANESE * ZINC * COPPER * CADMIUM * ARSENIC * LEAD * THALLIUM * MERCURY
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0080108 DATE: NOV. 30, 1988 PAGE: 52
TITLE: (TRANSMITS ATTACHED DATA VALIDATION AND REDUCTION REPORT ASARCO EAST HELENA PHASE 2 RI GARDEN VEGETABLE DATA)
AUTHOR: HARVEY, KEVIN C./WESTON
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070400
MICROFILM ROLL/FRAME NO.: 309/0438 THRU: 309/0491
KEYWORD(S): SILVER * ARSENIC * CADMIUM * LEAD * COPPER * MANGANESE * THALLIUM * MERCURY
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0080160 DATE: DEC. 27, 1988 PAGE: 92
TITLE: (TRANSMITS AND DISCUSSES ATTACHED DEC. 9, 1988 MEMO SUMMARIZING STATISTICAL COMPARISONS OF ASARCO LAB DATA TO CLP RESULTS)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NEUMAN * ROGNESS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070100 * 4070400
MICROFILM ROLL/FRAME NO.: 309/0492 THRU: 309/0583
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * IRON * ZINC * SOIL * GROUNDWATER * MANGANESE * THALLIUM
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0080252 DATE: JAN. 13, 1989 PAGE: 64
TITLE: "SEQUENTIAL EXTRACTION AND EP TOXICITY DATA VALIDATION"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 309/0584 THRU: 309/0647
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * MANGANESE * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0080316 DATE: FEB. 14, 1989 PAGE: 18
TITLE: (TRANSMITS ATTACHED RAW DATA PACKAGES RECEIVED FROM ASARCO LABORATORY)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: KIRLEY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/0648 THRU: 309/0665
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0161599 DATE: MAY 11, 1989 PAGE: 3
TITLE: (TRANSMITS ATTACHED CORRECTED CONTINUING CALIBRATION VERIFICATION REPORT FORMS)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA * BUNTE * BROWN * KIRLEY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/0666 THRU: 309/0668
KEYWORD(S): CHROMIUM * SELENIUM * MANGANESE * ARSENIC * IRON
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0190449 DATE: JUN. 23, 1989 PAGE: 3
TITLE: (TRANSMITS ATTACHED TABLE OF CONTENTS FOR ASARCOS RESULTS OF ANALYSIS OF DEEP SOIL [TILLAGE] SAMPLES)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/(MDHES)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/0669 THRU: 309/0671
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0190452 DATE: SEP. 21, 1989 PAGE: 3
TITLE: (TRANSMITS ATTACHED TABLE OF CONTENTS FOR ASARCO ARSENIC SPECIATION FOR WATER SAMPLES TAKEN BETWEEN APR. 11 TO MAY 1, 1989)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/0672 THRU: 309/0674
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0191738 DATE: APR. 21, 1989 PAGE: 332
TITLE: "DATA VALIDATION SUMMARY FOR THE ASARCO EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)" (ATTACHED TRANSMITTAL FROM MASON)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 309/0675 THRU: 309/1006
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * MERCURY * SILVER * ZINC
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0192070 DATE: SEP. 1989 PAGE: 57
TITLE: "EP TOXICITY AND SEQUENTIAL EXTRACTION DATA VALIDATION FOR DRILL HOLES DH-19 AND DH-21" (ATTACHED TRANSMITTAL FROM MASON)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2030000 * 3030000
MICROFILM ROLL/FRAME NO.: 309/1007 THRU: 309/1063
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * MERCURY * SELENIUM * ZINC
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0192127 DATE: NOV. 1989 PAGE: 40
TITLE: "VALIDATION SUMMARY OF ORGANICS DATA, ASARCO INCORPORATED, EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM MILLER)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 309/1064 THRU: 309/1103
KEYWORD(S): SOIL
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0200439 DATE: JUN. 23, 1989 PAGE: 128
TITLE: (TRANSMITS ATTACHED ASARCO RESULTS OF ANALYSIS OF 26 POST-TREATMENT DEEP SOIL TILLAGE SAMPLES; ATTACHED LETTER FROM FABBI MAY 31, 1989 AND TABLE OF CONTENTS FOR ATTACHED 125 PAGE ASARCO-EAST HELENA RI/FS, PHASE 2 AGRICULTURAL SOILS POST-DEEP SOIL TILLAGE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/1104 THRU: 309/1231
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0220815 DATE: AUG. 2, 1990 PAGE: 6
TITLE: (TRANSMITS RAW DATA PACKAGES FOR IN SITU TREATMENT OF LOWER LAKE AND WATER SAMPLES - FEB. 28 TO MAR. 15 AND APR. 27 TO MAY 3, 1990)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/1232 THRU: 309/1237
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0220821 DATE: NOV. 19, 1990 PAGE: 6
ATTACHED DOC(S): 0220827 THRU: 0220930
TITLE: (CONSENT DECREE PROCESS PONDS OU EAST HELENA SUPERFUND SITE PROGRESS REPORT 2)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * ATTORNEY/DOJ * PROJECT MANAGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/1238 THRU: 309/1243
NOTES: UPDATE 02

FILE: 1070102 DOCNO: 0220827 DATE: OCT. 29, 1990 PAGE: 104
ATTACHED TO: 0220821
TITLE: (TRANSMITS ATTACHED RI/FS PHASE 2 WATER SAMPLE DATA COLLECTED AUG. 28 - SEP. 4, 1990)
AUTHOR: NOKES, J. H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/1244 THRU: 309/1347
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * MANGANESE * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0080334 DATE: 1984 (E) PAGE: 14
TITLE: "ATTACHMENT 2 ADDITIONAL WRITTEN COMMENTS" (CONSISTS OF ATTACHMENT 1 COMMENTS ON ASARCO SALT LAKE CITY LABORATORY WRMP DATA PACKAGE OF DEC. 5, 1984; NOTES ON NUMBERED ITEMS OF DATA PACKAGE)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 309/1348 THRU: 309/1361
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0080348 DATE: JAN. 24, 1985 PAGE: 14
TITLE: "ATTACHMENT 2 COMMENTS ON ASARCO WRMP DATA PACKAGE OF DEC. 5, 1984"
AUTHOR: LUCERO, JOHN/CH2M HILL
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 309/1362 THRU: 309/1375
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0080362 DATE: JAN. 25, 1985 PAGE: 25
TITLE: (TRANSMITS ATTACHED ADDITIONAL INFORMATION CONCERNING PERFORMANCE EVALUATION SOIL 3288 DELIVERABLE)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: BUTLER, LARRY/EPA
CC: TAYLOR * ROBBINS * VARNER
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/1376 THRU: 309/1400
KEYWORD(S): CADMIUM * COPPER * IRON * LEAD * ZINC * MANGANESE * SILVER
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0080387 DATE: FEB. 8, 1985 PAGE: 98
TITLE: (TRANSMITS ATTACHED REVIEW COMMENTS OF ASARCO SALT LAKE CITY LABORATORY WRMP DATA PACKAGE)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: HESTER * HILLMAN * SCHWING * KOHONOSKI
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/1401 THRU: 309/1498
KEYWORD(S): COPPER * IRON * LEAD * CADMIUM * ZINC * ARSENIC
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0080484 DATE: APR. 1, 1985 PAGE: 18
TITLE: (TRANSMITS AND DISCUSSES ATTACHED CHECK LISTS EXTRACTED FROM NEIC PROCEDURES MANUALS FOR REQUESTED EVIDENCE AUDIT AND MAIL CONTROL SCHEDULE)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL * BOTZ * VARNER * STANGA * HAYES
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/1499 THRU: 309/1516
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0080502 DATE: JUL. 20, 1985 PAGE: 1
TITLE: (NOTES ON RI REPORT FORMAT, TURBID WELL PROBLEM, AND RUNNING COMPLETE METALS SCAN)
ADDRESSEE: BOTZ * NICHOLS * GREENE, ROB * LUCERO * G.T. * MILLER, B.
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 309/1517 THRU: 309/1517
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0080503 DATE: OCT. 6, 1986 PAGE: 1
TITLE: ERRATA FOR EXISTING DATA SUMMARY AND LIMITATIONS (EAST HELENA [ASARCO] RI/FS)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 309/1518 THRU: 309/1518
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0080504 DATE: APR. 27, 1987 PAGE: 506
TITLE: (TRANSMITS ATTACHED INFORMATION FOR DEVELOPMENT OF RCRA MINING WASTE SITES)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): MARGINALIA * SAMPLING/ANALYSES/DATA * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/1519 THRU: 309/2030
KEYWORD(S): GROUNDWATER * ARSENIC * CADMIUM * CHROMIUM * LEAD * MERCURY * SELENIUM * SILVER * COPPER * IRON * MANGANESE * ZINC * SURFACE WATER
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0161602 DATE: MAY 4, 1989 PAGE: 13
TITLE: (TRANSMITS ATTACHED REVIEW COMMENTS ON EAST HELENA REVIEW OF ASARCO LABORATORY DATA BY CH2M HILL AND MSU)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 309/2031 THRU: 309/2043
KEYWORD(S): LEAD * CADMIUM * ZINC * ARSENIC
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0161615 DATE: MAY 10, 1989 PAGE: 1
TITLE: (COMMENTS ON DATA PACKAGES)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * BUNTE * KIRLEY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/2044 THRU: 309/2044
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0161616 DATE: MAY 22, 1989 PAGE: 4
TITLE: (TRANSMITS ATTACHED COMMENTS BY NEUMAN ON QA REVIEW OF ASARCO REVISED DATA VALIDATION SUMMARY; ATTACHED MEMO AND COMMENTS BY CH2M HILL)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: BUNTE * MILLER * KIRLEY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/2045 THRU: 309/2048
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0161620 DATE: JUN. 16, 1989 PAGE: 4
TITLE: (TRANSMITS ATTACHED MSU REVIEW OF AIR QUALITY DATA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * KIRLEY * BUNTE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 309/2049 THRU: 309/2052
KEYWORD(S): CADMIUM * MERCURY * ARSENIC
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0190455 DATE: MAY 19, 1989 PAGE: 4
TITLE: (BRIEF REVIEW OF ASARCO AIR FILTER DATA; ATTACHED MEMO FROM BUNTE TO BROWN)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BUNTE, DAVE/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 309/2053 THRU: 309/2056
KEYWORD(S): MERCURY * CADMIUM * ARSENIC
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0190459 DATE: JUN. 19, 1989 PAGE: 3
TITLE: REVIEW OF ASARCO VALIDATION OF AIR QUALITY DATA, MAY 1989 (ATTACHED MEMO FROM BUNTE TO BROWN AND ROUTING SLIP)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 309/2057 THRU: 309/2059
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0190462 DATE: JUN. 19, 1989 PAGE: 1
TITLE: REVIEW OF ASARCO MAY 19, 1989 DATA PACKAGE FOR ARSENIC +3/+5 ANALYSES (CONFIRMATION OF LIMITED REVIEW)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 309/2060 THRU: 309/2060
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0190463 DATE: JUN. 19, 1989 PAGE: 5
TITLE: REVIEW OF ASARCO VALIDATION OF AIR QUALITY DATA MAY 1989 (ATTACHED MEMO FROM NEUMAN TO BUNTE)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 309/2061 THRU: 309/2065
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0190468 DATE: AUG. 2, 1989 PAGE: 89
TITLE: "COMPARISON OF ASARCO LABORATORY DATA TO EPA CONTRACT LABORATORY DATA" (QA/QC COMPARISON; ATTACHED TRANSMITTAL FROM BUNTE)
AUTHOR: /CH2M HILL * /MSU
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 309/2066 THRU: 309/2154
KEYWORD(S): ARSENIC * CADMIUM * COPPER * ZINC * LEAD * MERCURY
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0192167 DATE: MAY 15, 1989 PAGE: 3
TITLE: (TRANSMITS ATTACHED REVIEW OF ASARCO DATA VALIDATION SUMMARY REPORT)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 309/2155 THRU: 309/2157
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0200241 DATE: AUG. 2, 1989 PAGE: 89
TITLE: "COMPARISON OF ASARCO LABORATORY DATA TO EPA CONTRACT LABORATORY DATA, EAST HELENA SITE (ASARCO) EAST HELENA, MONTANA" (INCLUDES CLP [SPLIT] DATA FOR GROUNDWATER, SURFACE WATER, SOILS, PLANTS, LIVESTOCK; ATTACHED TRANSMITTAL FROM BUNTE)
AUTHOR: /CH2M HILL
ADDRESSEE: /MSU
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 309/2158 THRU: 309/2246
KEYWORD(S): LEAD * CADMIUM * ARSENIC * COPPER * IRON * ZINC
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0200567 DATE: MAR. 1, 1990 PAGE: 2
TITLE: (TRANSMITS SAMPLE DATA PACKAGE FOR ARSENIC +3 AND ARSENIC +5 SPECIATION RESULTS; ATTACHED TABLE OF CONTENTS)
AUTHOR: BILAK, K. P./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/2247 THRU: 309/2248
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0211802 DATE: APR. 19, 1990 PAGE: 1
ATTACHED DOC(S): 0211803 THRU: 0211807
TITLE: (TRANSMITS DATA QUALITY REVIEW BY MSU CONCERNING ASARCO SALT LAKE CITY LAB)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * MULLEN * BUNTE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 309/2249 THRU: 309/2249
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0211803 DATE: APR. 11, 1990 PAGE: 5
ATTACHED TO: 0211802
TITLE: (SUMMARY OF TECHNICAL MEMORANDA ADDRESSING QUALITY OF DATA GENERATED BY ASARCO SALT LAKE CITY LAB REGARDING RI/FS ACTIVITIES)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BUNTE, DAVE/CH2M HILL
CC: NICKEL * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 309/2250 THRU: 309/2254
KEYWORD(S): ARSENIC * CADMIUM * LEAD * MERCURY * ZINC * IRON
NOTES: UPDATE 02

FILE: 1070103 DOCNO: 0220931 DATE: NOV. 30, 1990 PAGE: 1
TITLE: (TRANSMITS LABORATORY DATA VALIDATION: FUNCTIONAL GUIDELINES FOR EVALUATING INORGANICS ANALYSES AND STATISTICAL METHODS FOR CALCULATING ACCURACY AND PRECISION FOR RI/FS EFFORTS)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: MILLER, ROBERT/HYDROMETRICS
CC: BROWN * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 309/2255 THRU: 309/2255
NOTES: UPDATE 02

FILE: 1070200 DOCNO: 0200569 DATE: APR. 13, 1990(E) PAGE: 2
TITLE: (REQUEST FOR COPY OF MAUGHAN 1981 REPORT ON SOIL SURVEY PERFORMED BY MDHES; BACKUP STUDY TO RI REPORT)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: JONATHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 310/0002 THRU: 310/0003
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0010679 DATE: NOV. 15, 1985 PAGE: 16
TITLE: "FINAL EXISTING DATA ASSESSMENT FOR PHASE 1 RI ASARCO, MONTANA RI/FS (EAST HELENA SMELTER) EAST HELENA, MONTANA"
AUTHOR: /CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 310/0004 THRU: 310/0019
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081010 DATE: 1986 (E) PAGE: 2
ATTACHED DOC(S): 0081012 THRU: 0081024
TITLE: "TABLE OF CONTENTS EAST HELENA HYDROGEOLOGICAL STUDY"
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 310/0020 THRU: 310/0021
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081012 DATE: 1986 (E) PAGE: 13
ATTACHED TO: 0081010
TITLE: "OUTLINE OF ASARCO EAST HELENA SMELTER RI REPORT"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 310/0022 THRU: 310/0034
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081025 DATE: 1984 (E) PAGE: 33
TITLE: "INTEGRATED SOIL AND CROP SAMPLING PLAN ASARCO, MONTANA"
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070500
MICROFILM ROLL/FRAME NO.: 310/0035 THRU: 310/0067
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081058 DATE: AUG. 1983 PAGE: 1
TITLE: (X, Y COORDINATE MAP OF ASARCO SOIL SAMPLING PLAN)
AUTHOR: /MONTANA AGRICULTURAL EXPERIMENT STATION
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 310/0068 THRU: 310/0069
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081059 DATE: AUG. 1983 PAGE: 1
TITLE: "PROJECT AREA HELENA VALLEY SMELTER EMISSION STUDY (X, Y COORDINATE MAP)"
AUTHOR: /MONTANA AGRICULTURAL EXPERIMENT STATION
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 310/0070 THRU: 310/0070
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081060 DATE: AUG. 1983 PAGE: 1
TITLE: "PROJECT AREA HELENA VALLEY SMELTER EMISSION STUDY (X, Y COORDINATE MAP AND POCKET 4, FIGURE 7C IDENTIFICATION)"
AUTHOR: /MONTANA AGRICULTURAL EXPERIMENT STATION
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 310/0071 THRU: 310/0071
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081061 DATE: SEP. 1983 PAGE: 28
TITLE: (TRANSMITS ATTACHED STUDY PROTOCOL TO ASSESS CHEMICAL CONTAMINATION ON HELENA VALLEY SOIL, CROP, AND LIVESTOCK RESOURCES)
AUTHOR: DOLLHOPF, D. J./MSU
ADDRESSEE: RICHARDSON, STUART/E AND E * TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200 * 4070500 * 4070600
MICROFILM ROLL/FRAME NO.: 310/0072 THRU: 310/0099
KEYWORD(S): ZINC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081089 DATE: JAN. 11, 1984 PAGE: 94
TITLE: (TRANSMITS ATTACHED EXPANDED STUDY PROTOCOL TO ASSESS CHEMICAL CONTAMINATION ON HELENA VALLEY SOIL, CROP, AND LIVESTOCK RESOURCES)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: RICHARDSON, STUART/E AND E * TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070500 * 4070600
MICROFILM ROLL/FRAME NO.: 310/0100 THRU: 310/0193
KEYWORD(S): ARSENIC * COPPER * MERCURY * MANGANESE
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081183 DATE: FEB. 10, 1984 PAGE: 29
TITLE: (TRANSMITS ATTACHED THIRD SUBMITTAL FOR INSERTION IN STUDY PROTOCOLS REGARDING CONTAMINATION OF HELENA VALLEY SOIL, CROP AND LIVESTOCK RESOURCES)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: RICHARDSON, STUART/E AND E * TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070500 * 4070600
MICROFILM ROLL/FRAME NO.: 310/0194 THRU: 310/0222
KEYWORD(S): LEAD * ZINC * CADMIUM * ARSENIC
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081212 DATE: MAR. 2, 1984 PAGE: 90
TITLE: "HYDROGEOLOGICAL INVESTIGATION OF THE ASARCO EAST HELENA PLANT, WATER RESOURCES MONITORING PLAN"
AUTHOR: /ASARCO * /HYDROMETRICS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2010000 * 3010000 * 4010000
MICROFILM ROLL/FRAME NO.: 310/0223 THRU: 310/0312
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MERCURY * SELENIUM * ZINC
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081302 DATE: MAR. 6, 1984 PAGE: 231
TITLE: "STUDY PROTOCOL TO ASSESS CHEMICAL CONTAMINATION ON HELENA VALLEY SOIL, CROP AND LIVESTOCK RESOURCES" (SEP. 1983 WITH EXPANDED PROTOCOL PAGES AND CATTLE SAMPLING BUDGET PAGES FOR INSERTION INTO REPORT)
AUTHOR: /MSU
ADDRESSEE: RICHARDSON, STUART/E AND E * TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 310/0313 THRU: 310/0545
KEYWORD(S): ARSENIC * IRON * CHROMIUM * ZINC * MANGANESE * LEAD
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081533 DATE: JUN. 18, 1984 PAGE: 94
TITLE: "HYDROGEOLOGICAL INVESTIGATION OF THE ASARCO EAST HELENA PLANT, WATER RESOURCES MONITORING PLAN"
AUTHOR: /ASARCO * /HYDROMETRICS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2010000 * 3010000 * 4010000
MICROFILM ROLL/FRAME NO.: 310/0546 THRU: 310/0639
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MERCURY * SELENIUM * ZINC * MANGANESE * GROUNDWATER * SURFACE WATER
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081627 DATE: JAN. 30, 1985 PAGE: 33
TITLE: (LIVESTOCK PHONE SURVEY REPORT WITH LOCATIONS OF CATTLE HERDS IN HELENA PROJECT AREA)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: LOVELL, DOUG/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 310/0640 THRU: 310/0672
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081660 DATE: FEB. 5, 1985 PAGE: 97
TITLE: (TRANSMITS ATTACHED DATA BASE MANAGEMENT SYSTEM ASARCO RI-1 DRAFT WORK SCOPE)
AUTHOR: LOVELL, DOUGLAS, W./CH2M HILL
ADDRESSEE: ROBBINS, DON/ASARCO
CC: TAYLOR * SCHWING * KOHONOSKI * DOLLHOPF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 310/0673 THRU: 310/0769
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0081757 DATE: FEB. 7, 1986 PAGE: 187
TITLE: "REPORT ON WATER RESOURCES MONITORING, ASARCO EAST HELENA PLANT, DRAFT, TEXT AND EXHIBITS" (ATTACHED TRANSMITTAL FROM NICKEL)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):3030400 * 4030300
MICROFILM ROLL/FRAME NO.: 310/0770 THRU: 310/0960
KEYWORD(S): ARSENIC * CADMIUM * ARSENIC * ZINC * MANGANESE * COPPER * IRON * LEAD * GROUNDWATER
NOTES: UPDATE 02 * 5/5/05 EXHIBIT 1 MISSING FROM DOCUMENT

FILE: 1070201 DOCNO: 0081944 DATE: FEB. 7, 1986 PAGE: 422
TITLE: "REPORT ON WATER RESOURCES MONITORING, ASARCO EAST HELENA PLANT, DRAFT, APPENDICES"
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):3030400 * 4030400
MICROFILM ROLL/FRAME NO.: 310/0961 THRU: 310/1385
KEYWORD(S): GROUNDWATER * ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * MERCURY * ZINC
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0082366 DATE: APR. 17, 1985 PAGE: 190
TITLE: "DOCUMENTATION AND DATA SUBMITTAL NUMBER ONE, OVERSIGHT OF THE WRMP (WATER RESOURCES MONITORING PLAN) PHASE 1 RI ASARCO, MT RI/FS (EAST HELENA SMELTER)" (VOL. 2 OF 4)
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 310/1386 THRU: 310/1575
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0090001 DATE: APR. 17, 1985 PAGE: 324
TITLE: "DOCUMENTATION AND DATA SUBMITTAL NUMBER ONE, OVERSIGHT OF THE WRMP (WATER RESOURCES MONITORING PLAN) PHASE 1 RI ASARCO, MT RI/FS (EAST HELENA SMELTER)" (VOL. 3 OF 4)
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 310/1576 THRU: 310/1899
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * LEAD * MANGANESE * SELENIUM * SILVER * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0090325 DATE: APR. 17, 1985 PAGE: 255
TITLE: "DOCUMENTATION AND DATA SUBMITTAL NUMBER ONE, OVERSIGHT OF THE WRMP (WATER RESOURCES MONITORING PLAN) PHASE 1 RI ASARCO, MT RI/FS (EAST HELENA SMELTER)" (VOL. 4 OF 4)
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 310/1900 THRU: 310/2154
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * MANGANESE * LEAD * SELENIUM * TIN * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0090580 DATE: JUL. 17, 1985 PAGE: 4
TITLE: "WATER RESOURCES INVESTIGATION, ASARCO EAST HELENA PLANT" (TABLE OF CONTENTS AND LIST OF APPENDICES AND EXHIBITS)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 310/2155 THRU: 310/2158
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0090584 DATE: SEP. 30, 1985 PAGE: 47
TITLE: (DISCUSSES AND IDENTIFIES PROBLEMS IN ASARCO WRMP)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: HILLMAN * GREENE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):2030400
MICROFILM ROLL/FRAME NO.: 310/2159 THRU: 310/2205
KEYWORD(S): SURFACE WATER * GROUNDWATER * ARSENIC * CADMIUM * LEAD * ZINC * MANGANESE * IRON * COPPER
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0090631 DATE: APR. 1986 PAGE: 458
TITLE: "EXECUTIVE SUMMARY REMEDIAL INVESTIGATION (RI) OF SOILS, VEGETATION AND LIVESTOCK FOR EAST HELENA SMELTER SITE EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM DOLLHOPF)
AUTHOR: /CH2M HILL * DOLLHOPF, D. J./MSU * NEUMAN, D. (DENNIS) R./MSU * RENNICK, R. B./MSU
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 311/0002 THRU: 311/0459
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC * MERCURY * SOIL
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0091089 DATE: APR. 1986 PAGE: 42
TITLE: "EXISTING DATA ASSESSMENT FOR PHASE 1 RI ASARCO, MONTANA RI/FS (EAST HELENA SMELTER)" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 311/0460 THRU: 311/0501
KEYWORD(S): LEAD * CADMIUM * ARSENIC * ZINC
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0091131 DATE: MAY 29, 1986 PAGE: 93
TITLE: "ASARCO RI/FS FINAL DRAFT EXISTING SOIL, VEGETATION AND LIVESTOCK DATA ASSESSMENT"
AUTHOR: /CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * DRAFT * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070200 * 4070600
MICROFILM ROLL/FRAME NO.: 311/0502 THRU: 311/0594
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * SILVER
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0091224 DATE: OCT. 1986 PAGE: 214
TITLE: "FINAL DRAFT ASSESSMENT OF THE TOXICITY OF ARSENIC, CADMIUM, LEAD AND ZINC IN SOIL, PLANTS, LIVESTOCK AND WATER TO PLANTS AND LIVESTOCK IN THE HELENA VALLEY OF MONTANA FOR ASARCO EAST HELENA SMELTER SITE EAST HELENA, MONTANA"
AUTHOR: /CH2M HILL * GOERING, J.D./MSU * DOLLHOPF, D. (DOUG) J./MSU * NEUMAN, D. (DENNIS) R./MSU * BAUMAN, B.A./MSU * MUNSHOWER, F.F./MSU
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 311/0595 THRU: 311/0808
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0091436 DATE: AUG. 1986 PAGE: 434
TITLE: "FINAL DRAFT REMEDIAL INVESTIGATION (RI) OF SOILS, VEGETATION AND LIVESTOCK FOR ASARCO EAST HELENA SMELTER SITE EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: /CH2M HILL * DOLLHOPF, D. (DOUG) J./MSU * NEUMAN, D. (DENNIS) R./MSU * RENNICK, R. B./MSU
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 311/0809 THRU: 311/1248
KEYWORD(S): LEAD * CADMIUM * ARSENIC * ZINC * CHROMIUM * IRON * SELENIUM * MANGANESE
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0091870 DATE: OCT. 6, 1986 PAGE: 204
TITLE: "DRAFT TECHNICAL MEMORANDUM EXISTING DATA SUMMARY AND LIMITATIONS EAST HELENA (ASARCO) RI/FS EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA * DRAFT
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070200 * 4070400 * 4070600
MICROFILM ROLL/FRAME NO.: 311/1249 THRU: 311/1454
KEYWORD(S): LEAD * ZINC * CADMIUM * ARSENIC * SILVER * CHROMIUM * COPPER * MANGANESE
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0092074 DATE: OCT. 6, 1986 PAGE: 217
TITLE: "FINAL DRAFT ASSESSMENT OF THE TOXICITY OF ARSENIC, CADMIUM, LEAD AND ZINC IN SOIL, PLANTS AND LIVESTOCK IN THE HELENA VALLEY OF MONTANA"
AUTHOR: /CH2M HILL * GOERING, J.D./MSU * DOLLHOPF, D. (DOUG) J./MSU * NEUMAN, D. (DENNIS) R./MSU * BAUMAN, B.A./MSU * MUNSHOWER, F.F./MSU
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070200 * 4070400 * 4070600
MICROFILM ROLL/FRAME NO.: 311/1455 THRU: 311/1671
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0092289 DATE: NOV. 1986 PAGE: 97
TITLE: "FINAL DRAFT ASSESSMENT OF THE TOXICITY OF COPPER, MERCURY, SELENIUM, SILVER AND THALLIUM IN SOIL AND PLANTS IN THE HELENA VALLEY OF MONTANA FOR ASARCO EAST HELENA SMELTER SITE EAST HELENA MONTANA" (ATTACHED TRANSMITTAL FROM DOLLHOPF)
AUTHOR: /CH2M HILL * GOERING, J. D./MSU * DOLLHOPF, D. J./MSU * HARVEY, K. C./MSU
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 311/1672 THRU: 311/1768
KEYWORD(S): COPPER * SELENIUM * MERCURY * THALLIUM * SILVER
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0092386 DATE: NOV. 10, 1986 PAGE: 204
TITLE: "TECHNICAL MEMORANDUM EXISTING DATA SUMMARY AND LIMITATIONS EAST HELENA (ASARCO) RI/FS EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070400 * 4070200 * 4070600
MICROFILM ROLL/FRAME NO.: 311/1769 THRU: 311/1974
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL * ZINC
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0100001 DATE: MAY 1987 PAGE: 436
TITLE: "REMEDIAL INVESTIGATION (RI) OF SOILS, VEGETATION AND LIVESTOCK FOR EAST HELENA SITE (ASARCO) EAST HELENA, MONTANA"
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070600 * 4070200
MICROFILM ROLL/FRAME NO.: 311/1975 THRU: 311/2414
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0100437 DATE: MAY 1987 PAGE: 215
TITLE: "ASSESSMENT OF THE TOXICITY OF ARSENIC, CADMIUM, LEAD AND ZINC IN SOIL, PLANTS AND LIVESTOCK IN THE HELENA VALLEY OF MONTANA FOR EAST HELENA SITE (ASARCO) EAST HELENA, MONTANA"
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070200 * 4070600
MICROFILM ROLL/FRAME NO.: 312/0002 THRU: 312/0216
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0100652 DATE: MAY 1987 PAGE: 94
TITLE: "ASSESSMENT OF THE TOXICITY OF COPPER, MERCURY, SELENIUM, SILVER AND THALLIUM IN SOIL AND PLANTS IN THE HELENA VALLEY OF MONTANA FOR EAST HELENA SMELTER SITE (ASARCO) EAST HELENA, MONTANA"
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 312/0217 THRU: 312/0310
KEYWORD(S): COPPER * MERCURY * SELENIUM * SILVER * THALLIUM
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0100746 DATE: MAY 1987 PAGE: 434
TITLE: "REMEDIAL INVESTIGATION (RI) OF SOILS, VEGETATION AND LIVESTOCK"
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4040000
MICROFILM ROLL/FRAME NO.: 312/0311 THRU: 312/0752
KEYWORD(S): ZINC * ARSENIC * CADMIUM * LEAD * CHROMIUM * COPPER * MANGANESE
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 0101180 DATE: MAY 1987 PAGE: 433
TITLE: "REMEDIAL INVESTIGATION (RI) OF SOILS, VEGETATION AND LIVESTOCK FOR EAST HELENA SITE (ASARCO) EAST HELENA, MONTANA"
AUTHOR: /CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070600 * 4070200
MICROFILM ROLL/FRAME NO.: 312/0753 THRU: 312/1191
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * LEAD * MANGANESE * SELENIUM * TIN * ZINC * THALLIUM
NOTES: UPDATE 02

FILE: 1070201 DOCNO: 402961 DATE: APR. 17, 1985 PAGE: 56
TITLE: "DOCUMENTATION AND DATA SUBMITTAL NUMBER ONE - OVERSIGHT OF THE WRMP PHASE 1 RI ASARCO MT RI/FS (EAST HELENA SMELTER)" (VOL. 1 OF 4 - DATA REVIEW)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1070500
MICROFILM ROLL/FRAME NO.: 436/0086 THRU: 436/0147
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * GROUNDWATER * SURFACE WATER * SOIL * SEDIMENTS
NOTES: UPDATE 04

FILE: 1070202 DOCNO: 0101613 DATE: SEP. 1987 PAGE: 210
TITLE: "COMPREHENSIVE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) PLAN ASARCO, EAST HELENA, MONTANA"
AUTHOR: /HYDROMETRICS * /MDI
ADDRESSEE: /NICKEL, JON/ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2030100 * 4030100
MICROFILM ROLL/FRAME NO.: 312/1192 THRU: 312/1401
KEYWORD(S): SLAG * AIR * SURFACE WATER * SOIL * GROUNDWATER * ARSENIC * CADMIUM * LEAD * MERCURY * COPPER * ZINC
NOTES: UPDATE 02

FILE: 1070202 DOCNO: 0101823 DATE: SEP. 1987 PAGE: 209
TITLE: "COMPREHENSIVE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) PLAN ASARCO, EAST HELENA, MONTANA"
AUTHOR: /HYDROMETRICS * /MDI
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2030100 * 4030100
MICROFILM ROLL/FRAME NO.: 312/1402 THRU: 312/1611
KEYWORD(S): ARSENIC * LEAD * CADMIUM * ZINC * COPPER * MERCURY * SILVER * THALLIUM * SOIL * SURFACE WATER * GROUNDWATER * SLAG * AIR
NOTES: UPDATE 02

FILE: 1070202 DOCNO: 0102032 DATE: OCT. 14, 1988 PAGE: 335
TITLE: "DATA VALIDATION SUMMARY FOR THE ASARCO EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY (RI/FS) STUDY ASARCO INC. EAST HELENA, MONTANA" (ATTACHED REVIEW COMMENTS AND TRANSMITTAL FROM MASON)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2030300 * 3030300 * 4030300
MICROFILM ROLL/FRAME NO.: 312/1612 THRU: 312/1946
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * LEAD * ZINC * MANGANESE * SURFACE WATER * GROUNDWATER * SOIL * SEDIMENTS
NOTES: UPDATE 02

FILE: 1070202 DOCNO: 0102367 DATE: JAN. 16, 1989 PAGE: 54
TITLE: (TRANSMITS ATTACHED DATA VALIDATION AND REDUCTION REPORT ASARCO EAST HELENA PHASE 2 RI CATTLE AND FISH DATA JAN. 1989)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: KIRLEY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4030400 * 4070700 * 4070600
MICROFILM ROLL/FRAME NO.: 312/1947 THRU: 312/2000
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070203 DOCNO: 0102421 DATE: 1984 (E) PAGE: 7
TITLE: "ATTACHMENT 2 SPECIFIC COMMENTS ON ASARCO'S WATER RESOURCES MONITORING PLAN (WRMP)"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 312/2001 THRU: 312/2007
KEYWORD(S): SURFACE WATER * SEDIMENTS
NOTES: UPDATE 02

FILE: 1070203 DOCNO: 0102428 DATE: FEB. 27, 1986 PAGE: 23
TITLE: (TRANSMITS ATTACHED REVIEW COMMENTS BY KNAPTON ON REPORT ON WATER RESOURCES MONITORING, ASARCO, EAST HELENA PLANT AND DATA REQUIREMENTS)
AUTHOR: MORELAND, JOE A./USGS
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 312/2008 THRU: 312/2030
NOTES: UPDATE 02

FILE: 1070203 DOCNO: 0102451 DATE: MAR. 27, 1986 PAGE: 16
TITLE: (TRANSMITS ATTACHED COMMENTS BY DAVIS ON DRAFT REPORT ON WATER RESOURCES MONITORING SUBMITTED TO EPA BY ASARCO AND LIST OF DATA REQUIREMENTS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: LUCERO * GEISE * DAVIES * CRANE * BARKER * KEENAN * ROBERTSON * FROHARDT
QUALIFIER(S): ORIGINAL * CONCURRENCE COPY * **ADMINISTRATIVE RECORD** * MARGINALIA * TISSUE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 312/2117 THRU: 312/2132
NOTES: UPDATE 02

FILE: 1070203 DOCNO: 0102467 DATE: NOV. 13, 1986 PAGE: 27
TITLE: (TRANSMITS ATTACHED RESPONSES TO COMMENTS BY ASARCO ON FINAL DRAFT OF RI OF SOILS, VEGETATION AND LIVESTOCK)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: TAYLOR, GENE/EPA
CC: LUCERO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600 * 4030400
MICROFILM ROLL/FRAME NO.: 312/2133 THRU: 312/2159
NOTES: UPDATE 02

FILE: 1070203 DOCNO: 0102494 DATE: DEC. 11, 1986 PAGE: 29
TITLE: (TRANSMITS ATTACHED EPA RESPONSE TO ASARCO COMMENTS ON DRAFT RI REPORT ON SOILS, VEGETATION AND LIVESTOCK)
AUTHOR: TAYLOR, GENE D./EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): ORIGINAL * CONCURRENCE COPY * MARGINALIA * TISSUE COPY * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 312/2160 THRU: 312/2188
NOTES: UPDATE 02

FILE: 1070203 DOCNO: 0110001 DATE: MAR. 31, 1987 PAGE: 40
TITLE: (TRANSMITS ATTACHED PHASE 2 WATER RESOURCES INVESTIGATION RESPONSES TO COMMENTS ON DRILLING PROGRAM; LOCATION MAPS OF PROPOSED DRILL HOLES; CHROMATOGRAMS OF SOIL ANALYSES)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: WARDELL, JOHN/EPA
CC: BUNTE * NICKEL
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2010000 * 3030400
MICROFILM ROLL/FRAME NO.: 312/2189 THRU: 312/2228
KEYWORD(S): GROUNDWATER * ARSENIC
NOTES: UPDATE 02

FILE: 1070203 DOCNO: 0161624 DATE: MAR. 17, 1989 PAGE: 85
ATTACHED DOC(S): 0161709
TITLE: DRAFT "DATA QUALITY REPORT FOR THE ASARCO, EAST HELENA SMELTER SITE"
AUTHOR: /MSU
ADDRESSEE: /CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 312/2031 THRU: 312/2115
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070203 DOCNO: 0161709 DATE: MAR. 28, 1989 PAGE: 1
ATTACHED TO: 0161624
TITLE: (TRANSMITS DRAFT DATA QUALITY REPORT COMPARISON OF ASARCO LABORATORY DATA TO CLP DATA)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NEUMAN * LUCERO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 312/2116 THRU: 312/2116
NOTES: UPDATE 02

FILE: 1070301 DOCNO: 0010728 DATE: MAR. 1986 PAGE: 206
TITLE: DRAFT "REMEDIAL INVESTIGATION (RI) REPORT EVALUATION OF SOILS, VEGETATION AND LIVESTOCK FOR EAST HELENA SMELTER SITE EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM DOLLHOPF)
AUTHOR: DOLLHOPF, D. (DOUG) J./MSU * NEUMAN, D. (DENNIS) R./MSU * RENNICK, R. B./MSU * /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070600 * 1060800
MICROFILM ROLL/FRAME NO.: 313/0002 THRU: 313/0210
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * LEAD * ZINC * MERCURY * VEGETATION
NOTES: UPDATE 02

FILE: 1070301 DOCNO: 0132248 DATE: MAY 15, 1984 PAGE: 37
TITLE: (TRANSMITS ATTACHED CRITERIA FOR CONTAMINANT LEVELS OF LEAD, CADMIUM, ZINC AND ARSENIC IN HELENA VALLEY SOILS AND CROPS)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: MCKOWN * TAYLOR * DOLLHOPF * KRESGE * GAVLAK
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200 * 4070500
MICROFILM ROLL/FRAME NO.: 313/0407 THRU: 313/0443
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070301 DOCNO: 0132285 DATE: FEB. 13, 1985 PAGE: 142
TITLE: "TOXICOSIS PROPERTIES AND CRITERIA FOR LEAD, ARSENIC, CADMIUM AND ZINC IN LIVESTOCK, SOIL, PLANT AND WATER" (TRANSMITTAL SHEET AND COMMENTS NOTES ATTACHED)
AUTHOR: GOERING, JOHN D./MSU * DOLLHOPF, DOUGLAS J./MSU * BAUMAN, BRUCE A./MSU * MUNSHOWER, FRANK F./MSU * NEUMAN, DENNIS R./MSU * HULL, MAURICE W./MSU
ADDRESSEE: /EPA * /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060800 * 4070600
MICROFILM ROLL/FRAME NO.: 313/0444 THRU: 313/0585
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SOIL * VEGETATION
NOTES: UPDATE 02

FILE: 1070301 DOCNO: 0140192 DATE: AUG. 8, 1985 PAGE: 5
TITLE: (SERVICES [OR SUBCONSULTANT] PURCHASE ORDER [SCOPE OF WORK TO REVIEW MSU HAZARD CRITERIA DOCUMENT])
AUTHOR: CHANEY, RUFUS L./USDA * BINGHAM, FRANK T./UNIVERSITY OF CALIFORNIA * PULS, ROBERT * LINDSEY, W. L./COLORADO STATE UNIVERSITY * GOUGH, LARRY/USGS
ADDRESSEE: LAMB, KATHY/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 313/0777 THRU: 313/0781
NOTES: UPDATE 02

FILE: 1070301 DOCNO: 0140197 DATE: 1984 (E) PAGE: 213
TITLE: "ASSESSMENT OF THE TOXICITY OF ARSENIC, CADMIUM LEAD AND ZINC IN SOIL, PLANTS, LIVESTOCK, AND WATER TO PLANTS AND LIVESTOCK IN THE HELENA VALLEY OF MONTANA ASARCO, MONTANA CERCLA INVESTIGATION"
AUTHOR: GOERING, JOHN D./MSU * DOLLHOPF, DOUGLAS J./MSU * NEUMAN, DENNIS R./MSU * BAUMAN, BRUCE A./MSU * MUNSHOWER, FRANK F./MSU
QUALIFIER(S): REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4080600 * 1060800
MICROFILM ROLL/FRAME NO.: 313/0782 THRU: 313/0994
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070301 DOCNO: 0140410 DATE: NOV. 7, 1985 PAGE: 140
TITLE: (TRANSMITS ATTACHED COMMENTS FROM SIX PEOPLE WHO RECEIVED DRAFT REPORT TOXICOSIS PROPERTIES AND CRITERIA FOR LEAD, ARSENIC, CADMIUM AND ZINC IN LIVESTOCK, SOIL, PLANTS AND WATER)
AUTHOR: NEUMAN, DENNIS R./MSU * BINGHAM, FRANK/UNIVERSITY OF CALIFORNIA * BUCK, WILLIAM/UNIVERSITY OF ILLINOIS * GOUGH, LARRY/USGS * LINDSAY, WILLARD/COLORADO STATE UNIVERSITY * CHANEY, RUFUS/USDA * PULS, ROBERT/PROVINCIAL VET DIAGNOSTIC LAB
ADDRESSEE: TAYLOR, GENE/EPA
CC: LUCERO * DOLLHOPF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600 * 4070100 * 4070200 * 4070500
MICROFILM ROLL/FRAME NO.: 313/0995 THRU: 313/1134
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070301 DOCNO: 0140550 DATE: DEC. 1985 PAGE: 222
TITLE: "DRAFT (NO.) 1 REMEDIAL INVESTIGATION (RI) REPORT VOL. 1: SOILS FOR EAST HELENA SMELTER SITE EAST HELENA, MONTANA"
AUTHOR: DOLLHOPF, D. (DOUG) J./MSU * NEUMAN, D. (DENNIS) R./MSU * FERNS, T. W./MSU * RENNICK, R. B./MSU * GOERING, J. D./MSU
ADDRESSEE: /CH2M HILL
QUALIFIER(S): MARGINALIA * DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070200 * 4070300
MICROFILM ROLL/FRAME NO.: 313/1225 THRU: 313/1459
KEYWORD(S): LEAD * ARSENIC * CADMIUM * COPPER * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1070301 DOCNO: 0140772 DATE: MAY 1986 PAGE: 90
TITLE: "HAZARD LEVELS FOR COPPER, MERCURY, SELENIUM, SILVER AND THALLIUM IN SOILS AND PLANTS" (PRELIMINARY COPY FOR REVIEW PURPOSES)
AUTHOR: GOERING, JOHN D./MSU * DOLLHOPF, DOUGLAS J./MSU * HARVEY, K. C./MSU
ADDRESSEE: /CH2M HILL * /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * DRAFT * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060800
MICROFILM ROLL/FRAME NO.: 313/1135 THRU: 313/1224
KEYWORD(S): COPPER * MERCURY * SELENIUM * SILVER * THALLIUM
NOTES: UPDATE 02

FILE: 1070301 DOCNO: 0140862 DATE: JUN. 1986 PAGE: 164
TITLE: "HAZARD LEVELS FOR ARSENIC, CADMIUM, LEAD AND ZINC IN LIVESTOCK, SOIL AND PLANTS" (ATTACHED TRANSMITTAL FROM DOLLHOPF)
AUTHOR: /MSU
ADDRESSEE: /CH2M HILL * /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060800
MICROFILM ROLL/FRAME NO.: 313/1460 THRU: 313/1623
NOTES: UPDATE 02

FILE: 1070302 DOCNO: 0110041 DATE: 1985 (E) PAGE: 8
TITLE: (TABLE 35 BACKGROUND, SAFE, AND SUGGESTED HAZARD CRITERIA FOR SOILS AND PLANTS THAT PERTAIN TO HELENA STUDY AREA; TABLE 34 DIAGNOSTIC LEVELS OF SELECTED HEAVY METALS IN LIVESTOCK; ATTACHED NOTES ON HAZARD CRITERIA)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
CROSS FILE(S):4070600 * 1030100
MICROFILM ROLL/FRAME NO.: 313/1624 THRU: 313/1631
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070302 DOCNO: 0110049 DATE: AUG. 17, 1984 PAGE: 52
TITLE: "DRAFT HAZARD CRITERIA ANACONDA SMELTER RI/FS" (ATTACHED TRANSMITTAL FROM LOVELL)
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 313/1632 THRU: 313/1683
KEYWORD(S): SOIL * AIR * ZINC * LEAD * COPPER * CADMIUM * ARSENIC
NOTES: UPDATE 02

FILE: 1070302 DOCNO: 0110101 DATE: MAR. 20, 1985 PAGE: 35
TITLE: (TRANSMITS AND DISCUSSES ATTACHED LAB TECHNIQUES RELATIVE TO HAZARD CRITERIA AND COST CENTER SETUP CALCULATIONS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: KOHONOSKI * SELLMAN * SCHWING * DOLLHOPF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 313/1684 THRU: 313/1718
NOTES: UPDATE 02

FILE: 1070302 DOCNO: 0110136 DATE: AUG. 27, 1985 PAGE: 16
TITLE: "HAZARD CRITERIA FOR CATTLE FOR THE ASARCO EAST HELENA SITE"
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: DATA
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 313/1719 THRU: 313/1745
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1070400 DOCNO: 0190557 DATE: OCT. 27, 1989 PAGE: 2
TITLE: (GRANTS EXTENSION TO ASARCO FOR COMPREHENSIVE RI/FS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: WARDELL * MORENO * MULLEN * BUNTE * EGGERT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 313/1746 THRU: 313/1747
NOTES: UPDATE 02

FILE: 1070400 DOCNO: 0200571 DATE: APR. 10, 1990 PAGE: 1
TITLE: (ACKNOWLEDGES RECEIPT OF RI/FS REPORT FROM ASARCO)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MILLER, ROBERT J./HYDROMETRICS
CC: FOX * MULLIN * WEIS * MULLEN * BUNTE * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 313/1748 THRU: 313/1748
NOTES: UPDATE 02

FILE: 1070401 DOCNO: 0110152 DATE: 1985 (E) PAGE: 1
TITLE: IDENTIFICATION OF GENERAL MITIGATION RESPONSE STRATEGIES FOR ASARCO, EAST HELENA SMELTER (RI PHASE 2/FS) (FOR SOIL AND VEGETATION)
AUTHOR: /MSU
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 313/1749 THRU: 313/1749
KEYWORD(S): VEGETATION * DUST * SURFACE WATER * GROUNDWATER * SOIL
NOTES: UPDATE 02

FILE: 1070401 DOCNO: 0110153 DATE: APR. 1, 1988 PAGE: 156
TITLE: "COMPREHENSIVE PRELIMINARY FEASIBILITY STUDY [FS] ASARCO, INC. PHASE 1" (ATTACHED APPENDIX A GROUNDWATER ISOLATION/CONTAINMENT PROCESS OPTION DESCRIPTION)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):3010000
MICROFILM ROLL/FRAME NO.: 313/1750 THRU: 313/1905
KEYWORD(S): SURFACE WATER * SOIL * GROUNDWATER * ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC * THALLIUM * SILVER * SELENIUM * SLAG
NOTES: UPDATE 02

FILE: 1070401 DOCNO: 0110309 DATE: APR. 1, 1988 PAGE: 157
TITLE: "COMPREHENSIVE PRELIMINARY FEASIBILITY STUDY [FS] ASARCO, INC. EAST HELENA, MONTANA PHASE 1" (ATTACHED TRANSMITTAL FROM MILLER)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 313/1906 THRU: 313/2062
KEYWORD(S): SOIL * GROUNDWATER * SURFACE WATER
NOTES: UPDATE 02

FILE: 1070402 DOCNO: 0012509 DATE: MAY 29, 1989 PAGE: 6
TITLE: (COMMENTS FROM MDHES ON COMPREHENSIVE RI/FS REPORT BY ASARCO)
AUTHOR: MULLEN, GREGORY/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
CC: BOHAN * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 313/2063 THRU: 313/2068
KEYWORD(S): ARSENIC * LEAD * MANGANESE
NOTES: UPDATE 02

FILE: 1070402 DOCNO: 0110466 DATE: APR. 27, 1988 PAGE: 44
TITLE: KEY TO COMMENTS ON PRELIMINARY FS REPORT (ATTACHED DRAFT CORRESPONDENCE FROM BROWN TO NICKEL TRANSMITTING ATTACHED EPA AND MDHES COMMENTS ON FS REPORT; COMMENTS FROM CH2M HILL AND MSU)
AUTHOR: /MSU * /CH2M HILL * /EPA
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 313/2069 THRU: 313/2113
NOTES: UPDATE 02

FILE: 1070402 DOCNO: 0190559 DATE: SEP. 20, 1989 PAGE: 7
TITLE: (ASARCO FORMAL COMMENTS CONCERNING PROPOSED PLAN FOR PROCESS PONDS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN * MORENO * EGGERT * LEAP * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):2040000 * 2050000
MICROFILM ROLL/FRAME NO.: 313/2114 THRU: 313/2120
NOTES: UPDATE 02

FILE: 1070402 DOCNO: 0220749 DATE: FEB. 28, 1991 PAGE: 12
TITLE: (TRANSMITS AND COMMENTS ON ATTACHED SOILS PORTION OF DRAFT COMPREHENSIVE RI/FS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * WEIS * MULLEN * EGGERT * BLUCK * LEAP * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 302/1059 THRU: 302/1070
NOTES: UPDATE 02

FILE: 1070402 DOCNO: 0220932 DATE: JUN. 1990 PAGE: 24
TITLE: "AGENCY REVIEW DRAFT COMMENTS ON THE COMPREHENSIVE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)"
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * DRAFT
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 313/2121 THRU: 313/2144
NOTES: UPDATE 02

FILE: 1070402 DOCNO: 402745 DATE: APR. 12, 1991 PAGE: 19
TITLE: (STATE PROJECT OFFICER COMMENTS ON RI/FS FOR RESIDENTIAL SOILS WILSON DITCH SEDIMENTS AND VEGETATION; ATTACHED DETAILED ANALYSIS OF ALTERNATIVES CHARTS)
AUTHOR: MULLEN, GREGORY/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 415/0324 THRU: 415/0342
NOTES: UPDATE 03

FILE: 1070402 DOCNO: 424774 DATE: MAR. 2, 1994 PAGE: 3
DUPLICATE DOCUMENT: 1060700/424768
ATTACHED DOC(S): 424775 THRU: 424777
TITLE: (FOLLOW UP OF FEB. 22, 1994 MEETING TO DISCUSS DRAFT RISK ASSESSMENT, DRAFT PROPOSED PLAN AND PROCESS LEADING TO ROD FOR COMMUNITY SOILS)
AUTHOR: VARNER, M. O./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YELLOWTAIL * DUPREY * WEIS * SCOTT * SPICKELMIER * ROBBINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0433 THRU: 669/0435
NOTES: UPDATE 08

FILE: 1070402 DOCNO: 424775 DATE: FEB. 7, 1994 PAGE: 1
DUPLICATE DOCUMENT: 1060700/424769
ATTACHED TO: 424774
TITLE: (NEW YORK TIME EDITORIAL: "NOT SO SUPER SUPERFUND")
AUTHOR: /NEW YORK TIMES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 669/0436 THRU: 669/0436
NOTES: UPDATE 08

FILE: 1070402 DOCNO: 424776 DATE: MAR. 21, 1993 PAGE: 1
DUPLICATE DOCUMENT: 1060700/424770
ATTACHED TO: 424774
TITLE: "A CASE STUDY: MAKING DIRT SAFE TO EAT"
AUTHOR: /NEW YORK TIMES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 669/0437 THRU: 669/0437
NOTES: UPDATE 08

FILE: 1070402 DOCNO: 424777 DATE: MAR. 21, 1993 PAGE: 2
DUPLICATE DOCUMENT: 1060700/424771
ATTACHED TO: 424774
TITLE: "NEW VIEW CALLS ENVIRONMENTAL POLICY MISGUIDED"
AUTHOR: SCHNEIDER, KEITH/NEW YORK TIMES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 669/0438 THRU: 669/0439
NOTES: UPDATE 08

FILE: 1070404 DOCNO: 0110510 DATE: MAR. 26, 1987 PAGE: 4
TITLE: (OUTLINES) EAST HELENA SMELTER RI/FS OVERSIGHT STATUS AS OF FEB. 28, 1987 (INCLUDES TECHNICAL, FINANCIAL AND SCHEDULE STATUS; ATTACHED FINANCIAL STATUS GRAPHS)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 313/2145 THRU: 313/2148
NOTES: UPDATE 02

FILE: 1070404 DOCNO: 0211808 DATE: MAR. 30, 1990 PAGE: 1
TITLE: (TRANSMITS 6 VOL. DRAFT COMPREHENSIVE RI/FS REPORT FOR EAST HELENA SMELTER SITE)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MORENO * EGGERT * MULLEN * NICKEL * DAVIS * HART * ROBBINS * THORP * LEAP * MORRISON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 313/2149 THRU: 313/2149
NOTES: UPDATE 02

FILE: 1070500 DOCNO: 0211809 DATE: MAY 24, 1990 PAGE: 20
TITLE: (TRANSMITS ATTACHED DRAFT MEMO SUMMARIZING WATER SAMPLING OVERSIGHT AND INORGANIC TRAFFIC REPORT, CHAIN OF CUSTOM RECORD AND COPY OF FIELD LOG OBSERVATIONS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA * BOHAN, SUZANNE/EPA * MULLEN, GREG/MDHES * NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 313/2150 THRU: 313/2169
NOTES: UPDATE 02

FILE: 1070500 DOCNO: 0220956 DATE: JAN. 3, 1991 PAGE: 1
ATTACHED DOC(S): 0220957 THRU: 0220968
TITLE: (TRANSMITS CH2M HILL AND ASARCO GROUNDWATER AND SURFACE WATER SAMPLING OVERSIGHT REPORTS)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: SUZANNE * GREG * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):3000000 * 4000000
MICROFILM ROLL/FRAME NO.: 313/2171 THRU: 313/2171
NOTES: UPDATE 02

FILE: 1070500 DOCNO: 0220957 DATE: DEC. 18, 1990 PAGE: 12
ATTACHED TO: 0220956
TITLE: (TRANSMITS AND COMMENTS ON ATTACHED FIELD OVERSIGHT OF HYDROMETRICS GROUNDWATER AND SURFACE WATER SAMPLING ACTIVITIES NOV. 20 - DEC. 10, 1990)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: /PROJECT FILE
CC: BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 313/2172 THRU: 313/2184
NOTES: UPDATE 02

FILE: 1070600 DOCNO: 450590 DATE: DEC. 1, 1997 PAGE: 15
TITLE: (ASARCO COMMENTS ON OCT. 1997 RESIDENTIAL AND AGRICULTURAL SOILS PROPOSED PLAN; ATTACHED FAXED COPY WITH TRANSMITTAL)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4080000/450630
MICROFILM ROLL/FRAME NO.: 1061/0017 THRU: 1061/0031
NOTES: UPDATE 16

FILE: 1070600 DOCNO: 450591 DATE: DEC. 2, 1997 PAGE: 2
TITLE: (OCT. 1997 RESIDENTIAL AND AGRICULTURAL SOILS PROPOSED PLAN MDEQ COMMENTS)
AUTHOR: SIMONICH, MARK/MDEQ
ADDRESSEE: WARDELL, JOHN/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0032 THRU: 1061/0033
NOTES: UPDATE 16

FILE: 1070600 DOCNO: 450592 DATE: DEC. 4, 1997 PAGE: 2
TITLE: (LCCCHD COMMENTS ON OCT. 1997 RESIDENTIAL AND AGRICULTURAL SOILS PROPOSED PLAN)
AUTHOR: LEWIS, CINDY/LCCCHD
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0034 THRU: 1061/0035
NOTES: UPDATE 16

FILE: 1070600 DOCNO: 465653 DATE: JAN. 17, 2003 PAGE: 1
TITLE: (DISCUSSES EAST HELENA VALLEY LEAD AT 500 MG/KG)
AUTHOR: BROWN, SCOTT/(EPA)
ADDRESSEE: DOLLHOPF, (DOUGLAS)/MSU
CC: NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1594/0527 THRU: 1594/0527
NOTES: UPDATE 28

FILE: 1070600 DOCNO: 465872 DATE: MAY 2006 (E) PAGE: 38
TITLE: (DRAFT) "EPA ANNOUNCES PLANS FOR A FINAL CLEANUP OF EAST HELENA'S RESIDENTIAL SOILS AND UNDEVELOPED LANDS"(OU 2)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 33

FILE: 1070600 DOCNO: 465873 DATE: AUG. 3, 2006 PAGE: 13
TITLE: (TRANSMITS ATTACHED COMMENTS ON DRAFT PROPOSED PLAN)
AUTHOR: OLSEN, SANDI/MDEQ
ADDRESSEE: WARDELL, JOHN/EPA
CC: ANDERSEN * REED * CAPDEVILLE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1866/0072 THRU: 1866/0084
NOTES: UPDATE 33

FILE: 1070600 DOCNO: 465894 DATE: JUL. 7, 2005 PAGE: 44
TITLE: (TECHNICAL MEMORANDUM TRANSMITS ATTACHED SUPPORT INFORMATION AND DATA FOR PROPOSED PLAN PREFERRED CLEAN UP ALTERNATIVE AND FIVE YEAR REVIEW)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465895 DATE: NOV. 28, 2006 PAGE: 2
TITLE: (COMMENTS REGARDING PROPOSED PLAN AND SUPPORTS RETAINING CURRENT ACTION LEVEL)
AUTHOR: CASEY, TERRIE/EAST HELENA MAYOR
ADDRESSEE: WARDELL, JOHN/EPA
CC: BROWN * OPPER * WILLIAMS * TILLO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0108 THRU: 1908/0109
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465905 DATE: JAN. 2007 PAGE: 34
TITLE: "EPA ANNOUNCES PLANS FOR A FINAL CLEANUP OF EAST HELENA'S RESIDENTIAL SOILS AND UNDEVELOPED LANDS"(OU 2)(PROPOSED PLAN)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1908/0112 THRU: 1908/0145
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465906 DATE: JAN. 12, 2007 PAGE: 4
TITLE: "EPA ANNOUNCES PROPOSED PLAN FOR FINAL CLEANUP OF EAST HELENA'S RESIDENTIAL SOILS AND UNDEVELOPED LANDS"(PROPOSED PLAN SUMMARY FACT SHEET)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465907 DATE: JAN. 25, 2007 PAGE: 1
TITLE: (JAN. 25, 2007 PUBLIC MEETING AGENDA REGARDING PROPOSED PLAN FOR FINAL CLEANUP OF RESIDENTIAL SOILS AND UNDEVELOPED LANDS)(FIRST OF TWO MEETINGS)
AUTHOR: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 1908/0150 THRU: 1908/0150
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465908 DATE: JAN. 25, 2007 PAGE: 4
DUPLICATE DOCUMENT: 4080100/465922
TITLE: (INSTITUTIONAL CONTROLS AND LEWIS AND CLARK COUNTY COORDINATION EXPLANATION FOR FINAL PROPOSED CLEANUP PLAN DISCUSSION)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 1908/0151 THRU: 1908/0154
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465909 DATE: FEB. 1, 2007 PAGE: 4
TITLE: "EAST HELENA RESIDENTIAL SOILS SUMMARY OF ISSUES WITH EPA'S PROPOSED PLAN"(MDEQ INITIAL COMMENTS ON PROPOSED PLAN AS SUBMITTED TO LEWIS AND CLARK COUNTY BOARD OF HEALTH FEB. 1, 2007)
AUTHOR: /(MDEQ)
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 1908/0155 THRU: 1908/0158
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465910 DATE: FEB. 9, 2007 PAGE: 2
TITLE: (RESPONDS TO INCLUDED FEB. 2-8, 2007 EMAILS BETWEEN REYNOLDS AND BROWN REGARDING HEALTH BOARD QUESTIONS FOR TOXICOLOGISTS)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: REYNOLDS, MELANIE/LCCCHD
CC: BRATTIN * WILLIAMS * WARDELL * (DALSOGLIO)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1908/0159 THRU: 1908/0160
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465911 DATE: FEB. 16, 2007 PAGE: 2
TITLE: (RESPONDS TO INCLUDED FEB. 15, 2007 CASEY TO BROWN EMAIL REGARDING PROPOSED PLAN)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: CASEY, TERRIE C./EAST HELENA MAYOR
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1908/0161 THRU: 1908/0162
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465912 DATE: FEB. 26, 2007 (E) PAGE: 1
ATTACHED DOC(S): 465913
TITLE: (REQUESTS REVIEW AND COMMENTS REGARDING RESIDENTIAL SOILS PROPOSED PLAN)
AUTHOR: REYNOLDS, MELANIE/LCCCHD
ADDRESSEE: MILES, JOAN/LCCCHD
CC: /BOARD OF COUNTY COMMISSIONERS * BROWN * WARDELL * OPPER * REED * HELGERSON * SMILIE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0163 THRU: 1908/0163
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465913 DATE: FEB. 27, 2007 PAGE: 1
ATTACHED TO: 465912
TITLE: (REQUESTS RESIDENTIAL SOILS AND UNDEVELOPED LANDS PROPOSED PLAN PUBLIC COMMENT PERIOD EXTENSION)
AUTHOR: REYNOLDS, MELANIE/LCCCHD
ADDRESSEE: WARDELL, JOHN/EPA
CC: /BOARD OF COUNTY COMMISSIONERS * BROWN * REED
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0164 THRU: 1908/0164
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465914 DATE: FEB. 28, 2007 PAGE: 1
TITLE: (REQUESTS RESIDENTIAL SOILS AND UNDEVELOPED LANDS PROPOSED PLAN PUBLIC COMMENT PERIOD EXTENSION)
AUTHOR: MURRAY, MICHAEL/LEWIS AND CLARK COUNTY COMMISSIONERS * TINSLEY, ED/LEWIS AND CLARK COUNTY COMMISSIONERS * HUNTHAUSEN, ANDY/LEWIS AND CLARK COUNTY COMMISSIONERS
ADDRESSEE: WARDELL, JOHN/EPA
CC: REYNOLDS * BROWN * REED
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0165 THRU: 1908/0165
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465915 DATE: MAR. 10, 2007 PAGE: 2
TITLE: "EPA EXTENDS COMMENT PERIOD ON EAST HELENA CLEANUP"
AUTHOR: BYRON, EVE/INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 1908/0166 THRU: 1908/0167
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465916 DATE: MAR. 12, 2007 PAGE: 1
TITLE: (PROPOSED PLAN PUBLIC COMMENT OPPOSES ALTERNATIVE 2R AND SUPPORTS ALTERNATIVE R3)
AUTHOR: NYLAND, SALLY K.
ADDRESSEE: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0168 THRU: 1908/0168
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465917 DATE: MAR. 13, 2007 PAGE: 2
ATTACHED DOC(S): 465918
TITLE: (TRANSMITS RESPONSE AND COMMENTS ON LEWIS AND CLARK BOARD OF HEALTH QUESTIONS DURING PROPOSED PLAN COMMENT PERIOD)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: REYNOLDS, MELANIE/LCCCHD
CC: CASEY * GRIFFIN * BRATTIN * WARDELL * DALSOGLIO * MOORES * STRAUSBAUGH * REED
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0169 THRU: 1908/0170
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465918 DATE: FEB. 28, 2007 PAGE: 15
ATTACHED TO: 465917
TITLE: "USEPA REGION 8 RESPONSES TO QUESTIONS ASKED BY THE CITY COUNTY HEALTH BOARD"(LCCCHD)
AUTHOR: /EPA
ADDRESSEE: /LCCCHD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 1908/0171 THRU: 1908/0185
KEYWORD(S): LEAD
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465919 DATE: MAR. 14, 2007 PAGE: 6
TITLE: (RESPONDS TO INCLUDED MAR. 13, 2007 WHITMOYER TO BROWN EMAIL DISCUSSING BLOOD LEAD LEVELS AND TRANSMITS ATTACHED 2006 DATA)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: WHITMOYER, RON/SUPERINTENDANT EAST HELENA SCHOOLS
CC: BRATTIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: EMAIL
KEYWORD(S): LEAD
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465920 DATE: NOV. 2003 PAGE: 2
DUPLICATE DOCUMENT: 1060700/465629
TITLE: "CDC RECOMMENDS PEDIATRIC BLOOD LEAD LEVEL OF CONCERN REMAIN AT 10 UG/DL" (VOL. 13, 9)
AUTHOR: /INTERNATIONAL LEAD ZINC RESEARCH ORGANIZATION
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
KEYWORD(S): LEAD
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465923 DATE: DEC. 8, 2006 PAGE: 5
TITLE: (COMMENTS ON AND TRANSMITS ATTACHED INSTITUTIONAL CONTROLS FOUR POINT SUMMARY IN RESPONSE TO PROPOSED PLAN QUESTIONS AND COMMENTS)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: WILLIAMS, JAN/LCCCHD * TILLO, DEBB/LCCCHD * MOORE, KATHY/LCCCHD * WERKEMA, D./EPA
CC: STRAUSBAUGH * REED
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1908/0197 THRU: 1908/0201
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465929 DATE: MAR. 12, 2007 PAGE: 1
TITLE: (COMMENTS ON AND SUPPORTS PROPOSED PLAN AND ROD FINALIZATION)
AUTHOR: COHENOUR, JOE/EAST HELENA PUBLIC SCHOOL * ELLERMEYER, MARCIA/EAST HELENA PUBLIC SCHOOL * DIEHL, MARK/EAST HELENA PUBLIC SCHOOL * HOFFMAN, DON/EAST HELENA PUBLIC SCHOOL * JOHNSON, KIT/EAST HELENA PUBLIC SCHOOL * THOMPSON, ANN MARIE/EAST HELENA PUBLIC SCHOOL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0202 THRU: 1908/0202
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465930 DATE: MAR. 28, 2007 PAGE: 4
TITLE: (TRANSMITS AND COMMENTS ON ROD AND ATTACHED 2006 BLOOD LEAD LEVEL AND 1993 SOIL, AIR AND BLOOD EVALUATION GRAPHS)
AUTHOR: WHITMOYER, RON/EAST HELENA PUBLIC SCHOOL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0203 THRU: 1908/0206
KEYWORD(S): LEAD
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465931 DATE: APR. 4, 2007 PAGE: 3
TITLE: (PROPOSED PLAN COMMENT SUPPORTS 2R AND 4U AND OPPOSES 3R)
AUTHOR: JANOE, J. SCOTT/BAKER BOTTS * /(ASARCO)
ADDRESSEE: BROWN, SCOTT/EPA
CC: ALDRICH * PFAHL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0207 THRU: 1908/0209
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465932 DATE: APR. 10, 2007 PAGE: 2
TITLE: (PROPOSED PLAN COMMENT SUPPORTS ALTERNATIVE 2R)
AUTHOR: CASEY, TERRIE/EAST HELENA MAYOR
ADDRESSEE: WARDELL, JOHN/EPA * BROWN, SCOTT/EPA
CC: (OLSEN) * REED
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0210 THRU: 1908/0211
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465933 DATE: APR. 12, 2007 PAGE: 6
TITLE: (COMMENTS ON PROPOSED PLAN AND STATES ROD CONCERNS)
AUTHOR: OLSEN, SANDI/MDEQ
ADDRESSEE: WARDELL, JOHN/EPA
CC: OPPER * ANDERSEN * REED * CAPDEVILLE * COHENOUR * REYNOLDS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0212 THRU: 1908/0217
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465934 DATE: APR. 12, 2007 PAGE: 3
TITLE: (RESPONDS TO INCLUDED APR 11, 2007 BROWN EMAIL REGARDING IN HOME ENVIRONMENTAL ASSESSMENTS AND QUANTITATIVE EXAMINATION; FOR RESPONSIVENESS SUMMARY)
AUTHOR: MOORE, KATHY/LCCCHD
ADDRESSEE: TILLO, DEBRA/LCCCHD * WILLIAMS, JAN/LCCCHD * BROWN, SCOTT/EPA
CC: REYNOLDS * GRIFFIN * WARDELL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1908/0218 THRU: 1908/0220
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465935 DATE: APR. 13, 2007 PAGE: 14
TITLE: (TRANSMITS ATTACHED COMMENTS ON PROPOSED PLAN)
AUTHOR: DEVENY, CHRISTINE/LCCCHD * REYNOLDS, MELANIE/LCCCHD
ADDRESSEE: BROWN, SCOTT/EPA
CC: WARDELL * OLSEN * REED * CAPDEVILLE * CASEY * /LEWIS AND CLARK BOARD OF COUNTY COMMISSIONERS * /CITY COUNTY BOARD OF HEALTH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0221 THRU: 1908/0234
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465936 DATE: APR. 13, 2007 PAGE: 2
TITLE: (COMMENTS ON PROPOSED PLAN)
AUTHOR: BUCY, MORIAH
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0235 THRU: 1908/0236
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465937 DATE: APR. 13, 2007 PAGE: 2
TITLE: (COMMENTS ON PROPOSED PLAN)
AUTHOR: DURAH, JERI
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0237 THRU: 1908/0238
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465938 DATE: APR. 13, 2007 PAGE: 3
TITLE: (COMMENTS ON PROPOSED PLAN)
AUTHOR: VACHOWSKI, LAURA * VACHOWSKI, BRIAN
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0239 THRU: 1908/0241
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465939 DATE: APR. 16, 2007 PAGE: 1
TITLE: (COMMENTS ON AND SUPPORTS PROPOSED PLAN)
AUTHOR: STIPICH, ED/CITY OF EAST HELENA AND LEWIS AND CLARK BOARD OF HEALTH
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0242 THRU: 1908/0242
NOTES: UPDATE 34

FILE: 1070600 DOCNO: 465940 DATE: APR. 16, 2007 PAGE: 1
TITLE: (COMMENTS ON PROPOSED PLAN FROM MONTANA STATE MEDICAL OFFICER TRAINED IN EPIDEMIOLOGY AND OTHER DISCIPLINES)
AUTHOR: HELGERSON, STEVEN D./DEPARTMENT OF HEALTH AND HUMAN SERVICES
ADDRESSEE: BROWN, SCOTT/EPA
CC: REYNOLDS * LCCCHD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1908/0243 THRU: 1908/0243
NOTES: UPDATE 34

FILE: 1080000 DOCNO: 0200572 DATE: OCT. 31, 1989 PAGE: 1
TITLE: (LEGAL ADVICE ON DISPOSITION OF HAZARDOUS WASTES, CADMIUM RECYCLING ISSUE)
AUTHOR: JANIK, DAVID J./EPA
ADDRESSEE: MORENO, SANDRA/EPA
CC: METCALF * PHILLIPS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 313/2170 THRU: 313/2170
NOTES: UPDATE 02

FILE: 1080200 DOCNO: 0110514 DATE: SEP. 1986 PAGE: 51
TITLE: "RECORD OF DECISION (ROD) SMUGGLER MOUNTAIN, PITKIN COUNTY, COLORADO"
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 313/2185 THRU: 313/2235
KEYWORD(S): SURFACE WATER * GROUNDWATER * ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * LEAD * MANGANESE * MERCURY * SELENIUM * TIN * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 1090000 DOCNO: 0200573 DATE: APR. 4, 1990 PAGE: 1
TITLE: (NOTIFICATION TO ASARCO OF NEED FOR INDEPENDENT QA TEAM IN RD/RA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FOX * CHIOTTI * MORENO * SHANNON * BUNTE * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 313/2236 THRU: 313/2236
NOTES: UPDATE 02

FILE: 1090000 DOCNO: 0220969 DATE: AUG. 22, 1990 PAGE: 2
TITLE: (NOTICE OF AUDIT AT ASARCO SALT LAKE CITY LAB EXAMINE DATA PACKAGE PREPARATION, LAB PRACTICES AND COMPREHENSIVE QUALITY ASSURANCE PROGRAM; RD/RA)
AUTHOR: LUEY, JAMES E./EPA
ADDRESSEE: STANGA, GARY/ASARCO
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 313/2237 THRU: 313/2238
NOTES: UPDATE 02

FILE: 1090000 DOCNO: 0220971 DATE: SEP. 27, 1990 PAGE: 1
ATTACHED DOC(S): 0220972 THRU: 0220973
TITLE: (TRANSMITS NEUMAN MEMO REGARDING ASARCO LAB AUDIT PRIOR TO RD/RA)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 313/2239 THRU: 313/2239
NOTES: UPDATE 02

FILE: 1090000 DOCNO: 0220972 DATE: SEP. 24, 1990 PAGE: 2
ATTACHED TO: 0220971
TITLE: (SUMMARY OF ACTIVITIES DURING SITE VISIT TO ASARCO TECHNICAL SERVICES CENTER IN SALT LAKE CITY ON SEP. 18, 1990)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 313/2240 THRU: 313/2241
NOTES: UPDATE 02

FILE: 1090000 DOCNO: 402746 DATE: FEB. 21, 1991 PAGE: 2
ATTACHED DOC(S): 402747
TITLE: (RESPONSE TO EPA REVIEW COMMENTS CONCERNING SMELTER DEMONSTRATION PLAN)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * NICKEL * /DOJ
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0343 THRU: 415/0344
KEYWORD(S): SOIL REMOVAL
NOTES: UPDATE 03

FILE: 1090000 DOCNO: 402747 DATE: JAN. 18, 1991 PAGE: 2
ATTACHED TO: 402746
TITLE: (COMMENTS ON COMPREHENSIVE WORK PLAN FOR REMEDIAL DESIGN/REMEDIAL ACTION [RD/RA] ASARCO EAST HELENA SITE, PROCESS PONDS OU REVISED SMELTER TREATMENT AND DESIGN DEMONSTRATION PLAN NOV. 29, 1990)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: FISCHER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/0345 THRU: 415/0346
KEYWORD(S): SOIL REMOVAL
NOTES: UPDATE 03

FILE: 1090000 DOCNO: 402748 DATE: MAR. 28, 1991 PAGE: 1
TITLE: (APPROVES SMELTER TREATMENT DEMONSTRATION PLAN WITH FEB. 21, 1991 RESPONSE)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MILLER, ROBERT J./HYDROMETRICS
CC: BOHAN * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0347 THRU: 415/0347
NOTES: UPDATE 03

FILE: 1090100 DOCNO: 0110565 DATE: JUL. 1, 1986 PAGE: 6
TITLE: 40 CFR CHAPTER 1 (7-1-86 EDITION) (INFORMATION ON ERA ON NTCRA)
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 313/2242 THRU: 313/2247
NOTES: UPDATE 02

FILE: 1090100 DOCNO: 0110571 DATE: APR. 17, 1987 PAGE: 3
TITLE: (NOTES AND QUESTIONS ON ERA CONCERNING CRITERIA AND PLANNING ACTIVITIES; ATTACHED NOTES ON APR. 20, 1987 DISCUSSION WITH ERIC ON ADMINISTRATIVE ORDER FOR ERA)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 313/2248 THRU: 313/2250
NOTES: UPDATE 02

FILE: 1090100 DOCNO: 0110574 DATE: APR. 21, 1987 PAGE: 62
TITLE: (TRANSMITS ATTACHED CORRESPONDENCE REGARDING ROLE OF ERA IN SUPERFUND RI PROGRAM FROM LONGEST AND LUCERO AND DRAFT CHAPTER 10 OF SUPERFUND FS GUIDANCE POTENTIALLY RESPONSIBLE PARTY [PRP] PARTICIPATION IN REMEDIAL INVESTIGATIONS AND FEASIBILITY STUDIES [RI/FS])
AUTHOR: LONGEST, HENRY L./EPA
ADDRESSEE: WASTE MANAGEMENT DIVISION, REGIONS 1, 4, 5, 6, 7 AND 8 * EMERGENCY AND REMEDIAL RESPONSE DIVISION REGION 2 * HAZARDOUS WASTE MANAGEMENT DIVISION REGION 3 * TOXICS AND WASTE MANAGEMENT DIVISION REGION 9 * HAZARDOUS WASTE DIVISION REGION 10 * ENVIRONMENTAL SERVICES DIVISION REGIONS 1, 6 AND 7
CC: SUPERFUND BRANCH CHIEFS, REGIONS 1-10 * LUCERO * WYER * FIELDS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 313/2251 THRU: 313/2312
NOTES: UPDATE 02

FILE: 1090200 DOCNO: 0110636 DATE: JAN. 26, 1988 PAGE: 1
TITLE: FS KICK OFF MEETING RA ALTERNATIVE REPORT (PRELIMINARY)
AUTHOR: DJB/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: NOTES
CROSS FILE(S):2060000 * 3060000 * 4060000 * 5060000 * 6060000
MICROFILM ROLL/FRAME NO.: 313/2313 THRU: 313/2313
NOTES: UPDATE 02

FILE: 1090200 DOCNO: 0110637 DATE: MAR. 3, 1988 PAGE: 65
TITLE: "DETERMINATION OF REMEDIAL ACTION (RA) OBJECTIVES" (ATTACHED PRELIMINARY DRAFT REPORTS CONCERNING INITIAL SCREENING OF TECHNOLOGIES AND PROCESS OPTIONS AND EVALUATION OF POTENTIALLY APPLICABLE PROCESS OPTIONS)
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LIST
CROSS FILE(S):2060000 * 3060000 * 5060000 * 6060000 * 4060000
MICROFILM ROLL/FRAME NO.: 314/0002 THRU: 314/0066
KEYWORD(S): GROUNDWATER * SURFACE WATER * ARSENIC
NOTES: UPDATE 02

FILE: 1090200 DOCNO: 0110702 DATE: MAR. 9, 1988 PAGE: 2
TITLE: RA OBJECTIVES SCREENING ALTERNATIVES FOR RA (NOTES ON CONVERSATION WITH DAVE B., DOUG R., LUCERO)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 314/0067 THRU: 314/0068
NOTES: UPDATE 02

FILE: 1090200 DOCNO: 0110704 DATE: MAR. 10, 1988 PAGE: 4
TITLE: EAST HELENA RI/FS RA OBJECTIVES (REVISED OBJECTIVES FOR EAST HELENA OUS)
AUTHOR: LUCERO/CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: NOTES
CROSS FILE(S):3060000 * 4060000 * 5060000 * 6060000
MICROFILM ROLL/FRAME NO.: 314/0069 THRU: 314/0072
NOTES: UPDATE 02

FILE: 1090200 DOCNO: 0110708 DATE: MAR. 30, 1988 PAGE: 1
TITLE: (NOTES ON WALLACE / GILLIS CONVERSATION REGARDING RESPONSE ACTION CONTRACTOR [RAC] INDEMNIFICATION; LIST OF PROCEDURES NECESSARY TO PROVIDE RACS WITH INDEMNIFICATION)
AUTHOR: WALLACE, KEN/EPA
CC: ORR * HERTZOG * FINKE * /RPMS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 314/0073 THRU: 314/0073
NOTES: UPDATE 02

FILE: 1090301 DOCNO: 465656 DATE: SEP. 25, 2003 PAGE: 3
TITLE: (LONG TERM MONITORING SITES AND SCHEDULES; ATTACHED SAMPLE LOCATION LIST AND MAP)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINDBERG * LEWIS AND CLARK COUNTY LEAD EDUCATION AND ABATEMENT PROGRAM * REED
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0534 THRU: 1594/0537
NOTES: UPDATE 28

FILE: 1100000 DOCNO: 0190566 DATE: OCT. 17, 1989 PAGE: 8
TITLE: (EPA RESPONSE TO ASARCO COMMENTS ON PROCESS PONDS PROPOSED PLAN)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2000000
MICROFILM ROLL/FRAME NO.: 314/0074 THRU: 314/0081
KEYWORD(S): SOIL * SEDIMENTS
NOTES: UPDATE 02

FILE: 1100000 DOCNO: 0190574 DATE: OCT. 17, 1989 PAGE: 2
TITLE: (EPA RESPONSE TO ARCO COMMENTS ON PROCESS PONDS PROPOSED PLAN)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: LAWRENCE, ROBERT W./PMHS
CC: MORENO * LEE * BUNTE * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2000000
MICROFILM ROLL/FRAME NO.: 314/0082 THRU: 314/0083
NOTES: UPDATE 02

FILE: 1100000 DOCNO: 0190576 DATE: SEP. 25, 1989 PAGE: 2
TITLE: (RESPONSE TO PUBLIC COMMENT SUBMITTED BY MEMBER OF TASK FORCE CONCERNING PROCESS PONDS PROPOSED PLAN)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: PALMER, ERIC
CC: FINKE * MORENO * MULLEN * BUNTE * LEE * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2000000 * 1100100
MICROFILM ROLL/FRAME NO.: 314/0084 THRU: 314/0085
NOTES: UPDATE 02

FILE: 1100000 DOCNO: 0220974 DATE: NOV. 1990 PAGE: 4
TITLE: "COMMUNITY UPDATE" (NOV. 1990 ASARCO NEWSLETTER ON SOIL REMOVAL PROPOSED)
AUTHOR: /ASARCO
ADDRESSEE: PIZZINI, DONALD/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 314/0099 THRU: 314/0102
NOTES: UPDATE 02

FILE: 1100000 DOCNO: 0220978 DATE: DEC. 4, 1990 PAGE: 7
TITLE: (COMMENTS REGARDING ORGANIZATION OF CITIZENS ADVISORY COUNCIL; ATTACHED LIST AND PHONE NUMBERS OF POSSIBLE REPRESENTATIVES AND LIST OF PEOPLE WHO HAVE CONTACTED EPA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: /EHCAC
CC: PIZZINI * BOHAN * MULLEN * HILLERY * SELSER * NICKEL * STIPICH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 314/0707 THRU: 314/0713
NOTES: UPDATE 02

FILE: 1100000 DOCNO: 402962 DATE: JAN. 21, 1992 PAGE: 1
TITLE: (REQUEST FROM CITIZENS GROUP FOR INFORMATION CONCERNING COSTS)
AUTHOR: BENIGER, BETTY/EHCAC/C
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: STIPICH * NICKEL * (HILLERY) * WING * QUINONES * /EAST HELENA CITY COUNCIL * /CITIZENS ADVISORY COUNCIL COMMITTEE MEMBERS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200/402999
MICROFILM ROLL/FRAME NO.: 436/0148 THRU: 436/0148
NOTES: UPDATE 04

FILE: 1100000 DOCNO: 402963 DATE: FEB. 21, 1992 PAGE: 1
TITLE: (CITY COUNCIL ENDORSES NEW CITIZEN ADVISORY COMMITTEE)
AUTHOR: STIPICH, EDWARD J./CITY OF EAST HELENA
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200/416468
MICROFILM ROLL/FRAME NO.: 436/0149 THRU: 436/0149
NOTES: UPDATE 04

FILE: 1100000 DOCNO: 402964 DATE: FEB. 25, 1992 PAGE: 2
TITLE: (RESPONDS TO QUESTIONS ASKED AT LAST EHCAC/C MEETING)
AUTHOR: HILLERY, PAM/EPA
ADDRESSEE: BENIGER, BETTY/EHCAC/C
CC: STURN * BROWN * STILES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200/416469
MICROFILM ROLL/FRAME NO.: 436/0150 THRU: 436/0151
NOTES: UPDATE 04

FILE: 1100000 DOCNO: 418583 DATE: MAR. 19, 1992 PAGE: 8
TITLE: (SUMMARIZES EAST HELENA PUBLIC MEETING ON SOIL REMOVAL MAR. 10, 1992)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 544/0091 THRU: 544/0098
KEYWORD(S): LEAD
NOTES: UPDATE 05

FILE: 1100000 DOCNO: 418584 DATE: APR. 10, 1992 PAGE: 5
TITLE: (PETITION FROM EAST HELENA RESIDENTS CONCERNING COMMITTEE TO REPRESENT CITIZENS)
AUTHOR: ST. CLAIR, SCOTT A.
ADDRESSEE: /EPA
CC: MCGRAW * WARDELL * (HILLERY) * BROWN * BAUCUS * BURNS * MARLENEE * WILLIAMS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0099 THRU: 544/0103
NOTES: UPDATE 05

FILE: 1100000 DOCNO: 418587 DATE: JUN. 8, 1992 PAGE: 3
TITLE: (CONCERNING APPLICATION FOR TAG)
AUTHOR: STIFFLER, JAMES G./EAST HELENA CITIZENS ADVISORY COMMITTEE
ADDRESSEE: WILLIAMS, PAT
CC: BURNS * BAUCUS * MARLENEE * STEVENS * IVERSON * (SCHERER) * NICODEMUS * SASEK * /ASSOCIATED PRESS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0104 THRU: 544/0106
NOTES: UPDATE 05

FILE: 1100000 DOCNO: 418594 DATE: SEP. 8, 1992 PAGE: 1
DUPLICATE DOCUMENT: 4070200/418732
TITLE: (ADVISES EPA WILL NO LONGER ATTEND EHCAC/C MEETINGS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: BENIGER, BETTY/EHCAC/C
CC: PIZZINI * BOHAN * QUINONES * HILLERY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0107 THRU: 544/0107
NOTES: UPDATE 05

FILE: 1100000 DOCNO: 424036 DATE: SEP. 25, 1992 PAGE: 1
TITLE: (CONCERNS MEETING OF ORIGINAL EAST HELENA CITIZENS ADVISORY COMMITTEE; NOT A PUBLIC MEETING)
AUTHOR: HILLERY, PAM/EPA
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0619 THRU: 581/0619
NOTES: UPDATE 06

FILE: 1100000 DOCNO: 424038 DATE: OCT. 13, 1992 PAGE: 2
TITLE: (RESPONSE TO SEP. 3, 1992 LETTER CONCERNING QUADRANT REMOVAL PROPOSAL)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: STIFFLER, JAMES G./EHCAC/C
CC: WARDELL * PIZZINI * HILLERY * BOHAN * /EAST HELENA CITY COUNCIL * /EHCAC/C
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 581/0620 THRU: 581/0621
NOTES: UPDATE 06

FILE: 1100000 DOCNO: 424039 DATE: OCT. 27, 1992 PAGE: 1
ATTACHED DOC(S): 424040
TITLE: (EAST HELENA CITIZENS CONCERNS OVER COUNTY AND STATES DISAPPROVAL OF QUADRANT APPROACH TO REMOVAL)
AUTHOR: PYFER, CLARK * PYFER, MARY
ADDRESSEE: BROWN, SCOTT/(EPA) * QUINONES, (BEN)/(MDHES) * SELSER, (WILL)/(LCCCHD) * STIFFLER, (JAMES)/(EHCAC/C)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0622 THRU: 581/0622
NOTES: UPDATE 06

FILE: 1100000 DOCNO: 424040 DATE: OCT. 1992 (E) PAGE: 1
ATTACHED TO: 424039
TITLE: "LEAD BAN IS REPLAY OF ASBESTOS SCAM - PROGRAM BY EPA STIRS UP ANOTHER PANIC OVER FRAUDULENT FEARS"
AUTHOR: KRAMER, BILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 581/0623 THRU: 581/0623
NOTES: UPDATE 06

FILE: 1100000 DOCNO: 424041 DATE: DEC. 7, 1992 PAGE: 4
TITLE: (RESPONSE TO OCT. 13, 1992 LETTER CONCERNING USE OF QUADRANT APPROACH FOR REMOVAL OF CONTAMINATED SOILS)
AUTHOR: STIFFLER, JAMES G./EAST HELENA CITIZENS ADVISORY COMMITTEE
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BURNS * BAUCUS * MARLENEE * WILLIAMS * QUINONES * IVERSON * SASEK * /ASSOCIATED PRESS * SELSER * TUCKER * /EPA REGIONAL ADMINISTRATOR * BOHAN * RACICOT * RICE * HARPER * MAZUREK * WATERMAN * FOSTER * GRIMES * O'KEEFE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 581/0624 THRU: 581/0627
KEYWORD(S): ARSENIC * LEAD * CADMIUM * MERCURY
NOTES: UPDATE 06

FILE: 1100000 DOCNO: 424043 DATE: DEC. 18, 1992 PAGE: 4
TITLE: (RESPONSE TO DEC. 7, 1992 LETTER CONCERNING USE OF QUADRANT APPROACH FOR REMOVAL OF CONTAMINATED SOILS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: STIFFLER, JAMES/EHCAC/C
CC: WARDELL * PIZZINI * BOHAN * HILLERY * QUINONES * SELSER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 581/0628 THRU: 581/0631
NOTES: UPDATE 06

FILE: 1100000 DOCNO: 424046 DATE: JAN. 7, 1993 PAGE: 8
TITLE: (TRANSMITS AND LISTS DOCUMENTS THAT MAKE UP RISK ASSESSMENT FOR EAST HELENA SUPERFUND SITE)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: STIPICH, ED/CITY OF EAST HELENA
CC: WARDELL * PIZZINI * BOHAN * WEIS * PETERSON * QUINONES * SELSER * BLUCK * HUDSON * DWYER * LITLE * NICKEL * SPICKELMIER * WING * MILLER * BENIGER * STIFFLER * /INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * CONCURRENCE COPY ATTACHED * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060700
MICROFILM ROLL/FRAME NO.: 581/0632 THRU: 581/0639
NOTES: UPDATE 06

FILE: 1100000 DOCNO: 424047 DATE: FEB. 17, 1993 PAGE: 3
TITLE: (CONCERNS DISPOSAL OF RESIDENTIAL SOILS REMOVED AND QUADRANT APPROACH TO REMOVAL)
AUTHOR: STIFFLER, JAMES G./EAST HELENA CITIZENS ADVISORY COMMITTEE
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BURNS * BAUCUS * WILLIAMS * QUINONES * ROBINSON * SASEK * /ASSOCIATED PRESS * SELZER * TUCKER * /EPA REGIONAL ADMINISTRATOR * BOHAN * RACICOT * RICE * HARPER * MAZUREK * WATERMAN * FOSTER * GRIMES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 581/0640 THRU: 581/0642
KEYWORD(S): LEAD
NOTES: UPDATE 06

FILE: 1100000 DOCNO: 424357 DATE: MAR. 8, 1993 PAGE: 1
ATTACHED DOC(S): 424358
TITLE: (DISCUSSES QUADRANT SOIL REMOVAL AND ACTION LEVELS)
AUTHOR: PYFER, S. CLARK
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0643 THRU: 581/0643
NOTES: UPDATE 06

FILE: 1100000 DOCNO: 424358 DATE: MAR. 4, 1993 PAGE: 1
ATTACHED TO: 424357
TITLE: "ASARCO CLEANUP FEELING ITS WAY 'IN' - IS INTERIOR WORK WORTHWHILE? OR WELCOME?"
AUTHOR: SASEK, GRANT/INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 581/0644 THRU: 581/0644
KEYWORD(S): DUST * SOIL * LEAD
NOTES: UPDATE 06

FILE: 1100000 DOCNO: 424502 DATE: APR. 14, 1993 PAGE: 1
TITLE: (PUBLIC MEETING AGENDA RADLEY SCHOOL EAST HELENA APR. 14, 1993)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 627/0255 THRU: 627/0255
NOTES: UPDATE 07

FILE: 1100000 DOCNO: 424503 DATE: APR. 14, 1993 PAGE: 1
TITLE: (PUBLIC COMMENT RECEIVED FOLLOWING PUBLIC MEETING APR. 14, 1993)
AUTHOR: PYFER, S. CLARK/CPA * PYFER, MARY
ADDRESSEE: BROWN, SCOTT/EPA
CC: BENIGER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0256 THRU: 627/0256
KEYWORD(S): LEAD
NOTES: UPDATE 07

FILE: 1100000 DOCNO: 424504 DATE: APR. 20, 1993 PAGE: 2
TITLE: "EAST HELENA CITIZENS ADVISORY COUNCIL/COMMITTEE (EHCAC/C) PROPOSED PRIORITY SOLUTION"
AUTHOR: BENIGER, BETTY/EHCAC/C
ADDRESSEE: BROWN, SCOTT/EPA
CC: (SPICKELMIER) * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 627/0257 THRU: 627/0258
KEYWORD(S): ASARCO
NOTES: UPDATE 07

FILE: 1100000 DOCNO: 424505 DATE: APR. 21, 1993 PAGE: 1
ATTACHED DOC(S): 424506
TITLE: (TRANSMITS NOTICE OF COALITION MEETING MAY 8, 1993)
AUTHOR: BENIGER, BETTY/EHCAC/C
ADDRESSEE: /EHCAC/C MEMBERS
CC: MURGEL * ST. CLAIR * BOMAR * CASEY * STIPICH * SMITH * MCGINNIS * SETTLE * PYFER * NICKEL * (SPICKELMIER) * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0259 THRU: 627/0259
NOTES: UPDATE 07

FILE: 1100000 DOCNO: 424506 DATE: APR. 12, 1993 PAGE: 2
ATTACHED TO: 424505
TITLE: (AGENDA AND NOTICE OF STATE WIDE COALITION OF CITIZENS COMMITTEES MEETING MAY 8, 1993)
AUTHOR: STIFFLER, JAMES G./EHCAC/C
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 627/0260 THRU: 627/0261
NOTES: UPDATE 07

FILE: 1100000 DOCNO: 424507 DATE: APR. 22, 1993 PAGE: 1
TITLE: (ASARCO EMPLOYEE STATES OPINION OF APR. 14, 1993 PUBLIC MEETING)
AUTHOR: ST. CLAIR, SCOTT
ADDRESSEE: PIZZINI, DON/(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 627/0262 THRU: 627/0262
NOTES: UPDATE 07

FILE: 1100000 DOCNO: 424511 DATE: MAY 7, 1993 PAGE: 2
TITLE: (RESPONSE TO APR. 20, 1993 LETTER REGARDING DISAGREEMENT BETWEEN ASARCO AND EPA OVER PRIORITIZATION OF YARD REMOVALS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: BENIGER, BETTY/EHCAC/C
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 627/0263 THRU: 627/0264
NOTES: UPDATE 07

FILE: 1100000 DOCNO: 424780 DATE: MAR. 7, 1994 PAGE: 1
ATTACHED DOC(S): 424781 THRU: 424784
TITLE: (PUBLIC MEETING NOTICE AND AGENDA FOR MAR. 7, 1994 EHCAC/C MEETING WITH BILL YELLOWTAIL)
AUTHOR: /EHCAC/C
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 669/0440 THRU: 669/0440
NOTES: UPDATE 08

FILE: 1100000 DOCNO: 424781 DATE: FEB. 9, 1994 PAGE: 2
ATTACHED TO: 424780
TITLE: (MINUTES OF EHCAC/C FEB. 9, 1994 MEETING)
AUTHOR: /EHCAC/C
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 669/0441 THRU: 669/0442
NOTES: UPDATE 08

FILE: 1100000 DOCNO: 424782 DATE: FEB. 10, 1994 PAGE: 1
ATTACHED TO: 424780
TITLE: (TRANSMITS AND DISCUSSES JAN. 7, 1994 STIFFLER LETTER)
AUTHOR: PYFER, CLARK/EHCAC/C
ADDRESSEE: YELLOWTAIL, WILLIAM C./EPA
CC: BENIGER * (SPICKELMIER) * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0443 THRU: 669/0443
NOTES: UPDATE 08

FILE: 1100000 DOCNO: 424783 DATE: FEB. 18, 1994 PAGE: 1
ATTACHED TO: 424780
TITLE: (INVITATION TO ATTEND MAR. 7, 1994 MEETING WITH YELLOWTAIL)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: BENIGER, BETTY/EHCAC/C
CC: YELLOWTAIL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0444 THRU: 669/0444
NOTES: UPDATE 08

FILE: 1100000 DOCNO: 424784 DATE: FEB. 1, 1993 PAGE: 3
ATTACHED TO: 424780
TITLE: (TRANSMITS ATTACHED SCAM NEWS ALERT AND PETITION FOR PUBLIC COMMENT PERIOD FOR NEW OSWER LEAD-IN-SOILS DIRECTIVE)
AUTHOR: NIEVEEN, BRUCE A./MIDVALE CITY
ADDRESSEE: BENIGER, (BETTY)/(EHCAC/C)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0445 THRU: 669/0447
NOTES: UPDATE 08

FILE: 1100000 DOCNO: 450302 DATE: NOV. 13, (1996) PAGE: 1
TITLE: (EHCAC/C NOV. 13 1996 PUBLIC MEETING AGENDA)
AUTHOR: (EHCAC/C)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 973/0015 THRU: 973/0015
NOTES: UPDATE 14

FILE: 1100000 DOCNO: 450593 DATE: NOV. 24, 1997 PAGE: 30
TITLE: (TRANSCRIPT OF RESIDENTIAL AND AGRICULTURAL SOILS PROPOSED PLAN PUBLIC HEARING)
AUTHOR: /CHERYL ROMSA COURT REPORTING
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 1061/0036 THRU: 1061/0065
NOTES: UPDATE 16

FILE: 1100100 DOCNO: 0161710 DATE: MAR. 31, 1989 PAGE: 5
TITLE: (COMMUNITY RELATIONS TASK FORCE LETTERS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MOORE, LARRY/MAYOR OF EAST HELENA * SCHWEYEN, BILL/CITIZEN OF EAST HELENA * PYFER, CLARK/CITIZEN OF EAST HELENA * PALMER, ERIC/CITIZEN OF EAST HELENA * PREBIL, ED/CITIZEN OF EAST HELENA
CC: FINKE * MORENO * BUNTE * KIRLEY * STILES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/0086 THRU: 314/0090
NOTES: UPDATE 02

FILE: 1100100 DOCNO: 0161715 DATE: APR. 10, 1989 PAGE: 1
TITLE: (NOTICE OF INTENTION TO PROCEED WITH PUBLIC MEETING ON OR ABOUT APR. 25, 1989)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: MOORE, LARRY/CITY OF EAST HELENA
CC: FINKE * MONTGOMERY * BROWN * MORENO * ROBERTSON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/0091 THRU: 314/0091
KEYWORD(S): TASK FORCE
NOTES: UPDATE 02

FILE: 1100100 DOCNO: 0161716 DATE: APR. 18, 1989 PAGE: 2
TITLE: (REJECTS POSTPONEMENT REQUEST OF APR. 27, 1989 PUBLIC MEETING AND DISCUSSES TASK FORCE INFORMATION)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: /TASK FORCE
CC: FINKE * MORENO * KIRLEY * STILES * BUNTE * SCRIMGEOUR * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/0092 THRU: 314/0093
NOTES: UPDATE 02

FILE: 1100100 DOCNO: 0190578 DATE: AUG. 29, 1989 PAGE: 1
TITLE: (TRANSMITS ADVANCE COPY OF PROCESS PONDS PROPOSED PLAN SENT TO TASK FORCE)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: /EAST HELENA SUPERFUND TASK FORCE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/0094 THRU: 314/0094
NOTES: UPDATE 02

FILE: 1100100 DOCNO: 0190579 DATE: AUG. 29, 1989 PAGE: 2
TITLE: (TRANSMITS AND DISCUSSES ADVANCE COPY OF PROCESS PONDS PROPOSED PLAN TO TASK FORCE MEMBERS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MOORE, LARRY * PREBIL, ED * PYFER, CLARK * SCHWEYEN, BILL * PALMER, ERIC
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/0095 THRU: 314/0096
NOTES: UPDATE 02

FILE: 1100100 DOCNO: 0190581 DATE: AUG. 29, 1989 PAGE: 1
TITLE: (TRANSMITS ADVANCE COPY OF PROPOSED PLAN TO TASK FORCE MEMBERS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MEMBERS OF EAST HELENA SUPERFUND TASK FORCE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/0097 THRU: 314/0097
NOTES: UPDATE 02

FILE: 1100100 DOCNO: 0190582 DATE: SEP. 18, 1989 PAGE: 1
TITLE: (PUBLIC COMMENT ON PROPOSED PLAN FOR PROCESS PONDS)
AUTHOR: PALMER, ERIC/CHEMET
ADDRESSEE: BROWN, SCOTT/EPA
CC: SANDRA * GREG * JON * DAVE * LEE * ERIC
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100700 * 2010000
MICROFILM ROLL/FRAME NO.: 314/0098 THRU: 314/0098
NOTES: UPDATE 02

FILE: 1100100 DOCNO: 465658 DATE: SEP. 4, 2003 PAGE: 2
TITLE: (COMMENTS REGARDING LEAD ACTION LEVEL FOR CLEAN UP AND ECONOMIC DEVELOPMENT)
AUTHOR: MURGEL, EDWARD F./EAST HELENA MAYOR
ADDRESSEE: ROBERTS, ROBBY/EPA
CC: BOWSHER * VARONE * BURNS * BAUCUS * REHBERG * BROWN * WARDELL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1594/0538 THRU: 1594/0539
NOTES: UPDATE 28

FILE: 1100100 DOCNO: 465659 DATE: SEP. 4, 2003 PAGE: 2
TITLE: (COMMENTS REGARDING LEAD ACTION LEVEL FOR CLEANUP AND ECONOMIC DEVELOPMENT)
AUTHOR: MURGEL, EDWARD F./EAST HELENA MAYOR
ADDRESSEE: SENSIBAUGH, JAN/MDEQ
CC: WARDELL * BROWN * (BOWSHER) * VARONE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1594/0540 THRU: 1594/0541
NOTES: UPDATE 28

FILE: 1100200 DOCNO: 0142366 DATE: 1982 (E) PAGE: 1
TITLE: ENFORCEMENT STATUS EAST HELENA, MONTANA (STATES NO FORMAL ENFORCEMENT ACTIONS HAVE BEEN TAKEN TO DATE)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0103 THRU: 314/0103
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 0142367 DATE: 1982 (E) PAGE: 1
TITLE: RESPONSE STATUS (LIST OF STUDIES BEING CONDUCTED)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0104 THRU: 314/0104
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 0142368 DATE: MAY 1984 PAGE: 2
TITLE: FACT SHEET, EAST HELENA SUPERFUND SITE EAST HELENA, MONTANA MAY 1984
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0105 THRU: 314/0106
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 0142370 DATE: NOV. 1986 PAGE: 4
TITLE: "SUPERFUND PROGRAM FACT SHEET, SILVER BOW CREEK (SBC) SITE"
AUTHOR: /EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0107 THRU: 314/0110
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 0142374 DATE: MAY 20, 1987 PAGE: 4
TITLE: (EAST HELENA FACT SHEET OUTLINE)
AUTHOR: DJB
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/0111 THRU: 314/0114
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 0142378 DATE: JUN. 1987 PAGE: 4
TITLE: "SUPERFUND PROGRAM FACT SHEET EAST HELENA (ASARCO) SITE REMEDIAL INVESTIGATION (RI)"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0115 THRU: 314/0118
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 0142382 DATE: AUG. 1987 PAGE: 8
TITLE: "MINING WASTES IN THE WEST FACT SHEET"
AUTHOR: /EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 314/0119 THRU: 314/0127
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 0142390 DATE: AUG. 1987 PAGE: 11
TITLE: "MINING WASTES IN THE WEST: RISK AND REMEDIES OVERVIEW"
AUTHOR: /EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 314/0128 THRU: 314/0138
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 0142401 DATE: MAR. 1988 PAGE: 3
TITLE: "PROGRESS MAR. 1988" EAST HELENA SUPERFUND SITE REPORT
AUTHOR: /EPA * /MDHES
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0139 THRU: 314/0141
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 0142404 DATE: JUL. 15, 1988 PAGE: 2
TITLE: "INSIDE EPA WEEKLY REPORT"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0142 THRU: 314/0143
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 0142406 DATE: SEP. 19, 1988 PAGE: 12
TITLE: (GARDEN VEGETABLES LETTER GIVING RESULTS OF GARDEN VEGETABLE SAMPLING AND RECOMMENDATION ABOUT EATING THEM; ATTACHED MEMOS OF CALLS IN RESPONSE TO GARDEN VEGETABLE LETTER)
AUTHOR: DRYNAN, JOHN J./MDHES * WARDELL, JOHN/EPA * MOORE, LARRY/EAST HELENA MAYOR * PREBIL, ED/SUPERFUND TASK FORCE * PALMER, ERIC/SUPERFUND TASK FORCE * PYFER, CLARK/SUPERFUND TASK FORCE * SCHWEYEN, BILL/SUPERFUND TASK FORCE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070400
MICROFILM ROLL/FRAME NO.: 314/0144 THRU: 314/0155
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 0161718 DATE: APR. 1989 PAGE: 5
TITLE: "EAST HELENA SMELTER SITE PHASE 2 STUDIES OF VEGETATION, LIVESTOCK, SOILS AND GROUNDWATER"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0156 THRU: 314/0160
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 0161723 DATE: APR. 12, 1989 PAGE: 2
TITLE: (PRP REQUEST FOR DELAY OF PUBLIC MEETING)
AUTHOR: ROBERTSON, DUANE/MDHES
ADDRESSEE: WARDELL, JOHN/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/0161 THRU: 314/0162
NOTES: UPDATE 02

FILE: 1100200 DOCNO: 450550 DATE: OCT. 1997 PAGE: 12
TITLE: "EAST HELENA SMELTER SUPERFUND SITE RESIDENTIAL AND AGRICULTURAL SOILS PROPOSED PLAN"
AUTHOR: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 1061/0066 THRU: 1061/0077
NOTES: UPDATE 16

FILE: 1100200 DOCNO: 450651 DATE: JUL. 24, 1998 PAGE: 4
TITLE: (EAST HELENA FACT SHEET APR. 1998)
AUTHOR: /EPA REGION 8
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 1102/0069 THRU: 1102/0072
NOTES: UPDATE 17

FILE: 1100300 DOCNO: 0142418 DATE: 1984 (E) PAGE: 2
TITLE: GLOSSARY (FOR PUBLIC MEETING)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 314/0163 THRU: 314/0164
NOTES: UPDATE 02

FILE: 1100300 DOCNO: 0142420 DATE: FEB. 1984 PAGE: 14
TITLE: (TRANSMITS ATTACHED PUBLIC MEETING CHECK LIST)
AUTHOR: GIBSON, SIGNE/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 314/0165 THRU: 314/0178
NOTES: UPDATE 02

FILE: 1100300 DOCNO: 0142434 DATE: JUN. 4, 1984 PAGE: 1
TITLE: (AGENDA FOR EAST HELENA SUPERFUND SITE PUBLIC MEETING JUN. 4, 1984)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 314/0179 THRU: 314/0179
NOTES: UPDATE 02

FILE: 1100300 DOCNO: 0142435 DATE: JUN. 6, 1984 PAGE: 7
TITLE: (ASARCO/SUPERFUND MEETING OF PARTICIPANTS, MEETING NOTES AND REPORT REMEDIAL INVESTIGATIONS [RI] IN THE EAST HELENA AREA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 314/0180 THRU: 314/0186
NOTES: UPDATE 02

FILE: 1100300 DOCNO: 0142442 DATE: MAY 13, 1987 PAGE: 2
TITLE: (PREPARATION FOR PUBLIC MEETING JUN. 10 OR 11, 1987)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 314/0187 THRU: 314/0188
NOTES: UPDATE 02

FILE: 1100300 DOCNO: 0142444 DATE: JUN. 11, 1987 PAGE: 2
TITLE: (NOTIFICATION OF JUN. 11, 1987 PUBLIC MEETING TO DISCUSS PROGRESS OF INVESTIGATIONS, MAKE AVAILABLE PRELIMINARY REPORTS AND WATER QUALITY DATA AND TO ANSWER QUESTIONS; ATTACHED AGENDA)
AUTHOR: BROWN, D. SCOTT/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0189 THRU: 314/0190
NOTES: UPDATE 02

FILE: 1100300 DOCNO: 0142446 DATE: JUN. 11, 1987 PAGE: 8
TITLE: (AGENDA AND ATTACHED NOTES CONCERNING PROGRESS OF RI)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 314/0191 THRU: 314/0198
NOTES: UPDATE 02

FILE: 1100300 DOCNO: 0190583 DATE: SEP. 12, 1989 PAGE: 1
TITLE: (SEP. 12, 1989 AGENDA FOR EAST HELENA PUBLIC MEETING)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):2000000
MICROFILM ROLL/FRAME NO.: 314/0199 THRU: 314/0199
NOTES: UPDATE 02

FILE: 1100300 DOCNO: 0200574 DATE: OCT. 19, 1989 PAGE: 12
TITLE: (TRANSMITS ATTACHED PUBLIC APR. 27, 1989 MEETING SUMMARY)
AUTHOR: CASEY, SEAN/ICF
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * SCRIMGEOUR * STILES * MILLER * BUNTE * CHRISTIANSEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 314/0200 THRU: 314/0211
NOTES: UPDATE 02

FILE: 1100300 DOCNO: 0220985 DATE: OCT. 3, 1990 PAGE: 6
TITLE: (NAMES AND ADDRESSES OF PEOPLE ATTENDING PUBLIC MEETING AT RADLEY SCHOOL)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LIST
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 314/0212 THRU: 314/0217
NOTES: UPDATE 02

FILE: 1100300 DOCNO: 450304 DATE: NOV. 24, 1996 PAGE: 1
TITLE: (DISCUSSES DEC. 10, 1996 EHCAC/C SPECIAL MEETING ISSUES AND REQUESTS BROWN ATTENDANCE)
AUTHOR: BENIGER, BETTY J./EHCAC/C
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 973/0016 THRU: 973/0016
NOTES: UPDATE 14

FILE: 1100300 DOCNO: 450351 DATE: APR. 1997(E) PAGE: 1
TITLE: (APR. 9, 1997 EHCAC/C PUBLIC MEETING AGENDA)
AUTHOR: /(EHCAC/C)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 973/0017 THRU: 973/0017
NOTES: UPDATE 14

FILE: 1100300 DOCNO: 450652 DATE: JUN. 17, 1998 PAGE: 7
TITLE: (EHCAC/C PUBLIC MEETING AGENDA AND MAY 13, 1998 MEETING MINUTES; ATTACHED MAY 21, 1998 LETTER FROM NICKEL TO ZAZZALI REGARDING BRIEFING OF CONSENT DECREE CONTENTS AT JUN. 17, 1998 MEETING)
AUTHOR: (/EHCAC/C)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 1102/0073 THRU: 1102/0079
NOTES: UPDATE 17

FILE: 1100400 DOCNO: 0142454 DATE: 1983 (E) PAGE: 1
TITLE: "SMELTER TOXINS SPREAD FROM ASARCO SITE"
AUTHOR: MYERS, RICHARD/INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0218 THRU: 314/0218
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142455 DATE: 1983 (E) PAGE: 1
TITLE: "EPA CHECKS EAST HELENA LEAD PROBLEM"
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0219 THRU: 314/0219
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142456 DATE: 1983 (E) PAGE: 1
TITLE: "EAST HELENA SITE ADDED TO EPA'S SUPERFUND LIST"
AUTHOR: /ASSOCIATED PRESS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0220 THRU: 314/0220
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142457 DATE: 1983 (E) PAGE: 2
TITLE: "EAST HELENA TAKES LEAD IN STRIDE"
AUTHOR: ROBBINS, JIM/INDEPENDENT RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0221 THRU: 314/0222
KEYWORD(S): LEAD * DUST
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142459 DATE: 1983 (E) PAGE: 1
TITLE: "EAST HELENA DEFENDED" (EDITORIAL COMMENT)
AUTHOR: PREBIL, ED * PREBIL, MICKEY
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0223 THRU: 314/0223
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142460 DATE: 1983 (E) PAGE: 1
TITLE: "ASARCO SUED OVER EMISSIONS DAMAGE"
AUTHOR: /TRIBUNE CAPITOL BUREAU
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0224 THRU: 314/0224
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142461 DATE: 1983 (E) PAGE: 1
TITLE: "WASTE SITE CLEANUP RACES FUNDING CLOCK"
AUTHOR: /STANDARD STATE BUREAU
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0225 THRU: 314/0225
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142462 DATE: JAN. 9, 1983 PAGE: 1
TITLE: "EFFECTS OF POLLUTION ON CHILDREN STUDIED"; "HEALTH DEPARTMENT TO DECIDE ON EAST HELENA STUDY SHORTLY"
AUTHOR: GOLEY, JAY/GREAT FALLS TRIBUNE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0226 THRU: 314/0226
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142463 DATE: JAN. 13, 1983 PAGE: 1
TITLE: "EAST HELENA KIDS TO BE SCREENED FOR POLLUTION"
AUTHOR: SKIDMORE, BILL/INDEPENDENT RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0227 THRU: 314/0227
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142464 DATE: MAY 14, 1983 PAGE: 2
TITLE: "EPA MAY ADD EAST HELENA TO `SUPERFUND' LIST"
AUTHOR: NELL, WILLIAM/BILLINGS GAZETTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0228 THRU: 314/0231
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142466 DATE: MAY 15, 1983 PAGE: 1
TITLE: "EPA MAY ADD EAST HELENA SITE TO LIST"
AUTHOR: /BOZEMAN DAILY CHRONICLE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0232 THRU: 314/0233
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142467 DATE: MAY 15, 1983 PAGE: 1
TITLE: "LEAD CONTAMINATION IN EAST HELENA LIKELY CANDIDATE FOR SUPERFUND CLEANUP"
AUTHOR: /MISSOULIAN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0234 THRU: 314/0234
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142468 DATE: SEP. 1983 PAGE: 2
TITLE: "WRITER TELLS `INSIDE' STORY OF BIG STUDY" (ARTICLE IN "TREASURE STATE HEALTH")
AUTHOR: /MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0235 THRU: 314/0236
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142470 DATE: SEP. 4, 1983 PAGE: 1
TITLE: "ASARCO CONCEDES SMELTER MAY BE HURTING ENVIRONMENT"
AUTHOR: /GREAT FALLS TRIBUNE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0237 THRU: 314/0238
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142471 DATE: SEP. 17, 1983 PAGE: 1
TITLE: "EAST HELENA WILL GET THE LEAD OUT"
AUTHOR: COOK, TOM/INDEPENDENT RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0239 THRU: 314/0239
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142472 DATE: SEP. 17, 1983 PAGE: 1
TITLE: "STATE, ASARCO REACH AGREEMENT ON EAST HELENA CLEAN-UP PLAN"
AUTHOR: COOK, TOM/INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0240 THRU: 314/0240
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142473 DATE: SEP. 17, 1983 PAGE: 1
TITLE: "EAST HELENA WILL GET THE LEAD OUT"
AUTHOR: COOK, TOM/INDEPENDENT RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0241 THRU: 314/0241
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142474 DATE: SEP. 18, 1983 PAGE: 1
TITLE: "ASARCO: EAST HELENA `MYSTERY PLANT'"
AUTHOR: ROESGEN, DICK/INDEPENDENT RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0242 THRU: 314/0243
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142475 DATE: OCT. 2, 1983 PAGE: 1
TITLE: "POLLUTANT-CANCER LINK STUDIED", "BLOOD LEAD TEST NEAR COMPLETION"
AUTHOR: /GREAT FALLS TRIBUNE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0244 THRU: 314/0244
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142476 DATE: OCT. 7, 1983 PAGE: 1
TITLE: "WATCH DOG CLAIMS STATE TOO EASY ON ASARCO" "WHITE HALL MINE'S CYANIDE LEAK STOPPED"
AUTHOR: SHIRLEY, STEVE/MISSOULIAN
ADDRESSEE: /MISSOULIAN STATE BUREAU
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0245 THRU: 314/0245
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142477 DATE: OCT. 8, 1983 PAGE: 1
TITLE: "SMELTER LEAD NOT SHOWING UP IN CHILDREN'S BLOOD TESTS"
AUTHOR: MOES, GARRY J./MONTANA STANDARD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0246 THRU: 314/0246
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142478 DATE: OCT. 8, 1983 PAGE: 1
TITLE: "TEST SHOW FEWER THAN FIVE CHILDREN HURT BY EAST HELENA LEAD"
AUTHOR: MOES, GARRY J./GREAT FALLS TRIBUNE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0247 THRU: 314/0247
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142479 DATE: OCT. 8, 1983 PAGE: 1
TITLE: "BLOOD-LEAD LEVELS FALL IN HELENA KIDS"
AUTHOR: MOES, GARRY J./MISSOULIAN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0248 THRU: 314/0248
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142480 DATE: NOV. 3, 1983 PAGE: 1
TITLE: "MX PROGRAM IMPACT WORRIES OFFICIALS", "DUSTING EASES LEAD'S THREAT TO YOUNG, JOURNAL SAYS"
AUTHOR: CURRAN, DENNIS E.
ADDRESSEE: /ROCKY MOUNTAIN NEWS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0249 THRU: 314/0249
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142481 DATE: APR. 3, 1985 PAGE: 1
TITLE: "KLEFFNER: MY RANCH IS NOT HAZARDOUS"
AUTHOR: SHIRLEY, STEVE/INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0250 THRU: 314/0250
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142482 DATE: OCT. 25, 1986 PAGE: 1
TITLE: "EPA STUDY: EAST HELENA WATER `SAFE'"
AUTHOR: DAVIS, KAREN E./INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0251 THRU: 314/0252
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142483 DATE: OCT. 25, 1986 PAGE: 1
TITLE: "EPA STUDY: EAST HELENA WATER `SAFE'"
AUTHOR: DAVIS, KAREN E./INDEPENDENT RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0253 THRU: 314/0253
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142484 DATE: OCT. 26, 1986 PAGE: 1
TITLE: "SMELTER WATER CONTAMINANTS WITHIN STANDARDS, EPA SAYS"
AUTHOR: /MONTANA STANDARD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0254 THRU: 314/0254
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142485 DATE: JUN. 8, 1987 PAGE: 1
TITLE: "ELEVATED METALS - EPA STUDY SAYS THERE'S VALLEY CONTAMINATION"
AUTHOR: WILKE, BILL, INDEPENDENT RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0255 THRU: 314/0255
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142486 DATE: DEC. 28, 1986 PAGE: 1
TITLE: "HELENA SMELTER'S GOING STRONG DESPITE DECLINE OF LEAD MARKET"
AUTHOR: /LOS ANGELES TIMES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0256 THRU: 314/0256
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142487 DATE: JUN. 10, 1987 PAGE: 1
TITLE: "CONTAMINATION TESTS STUDY: SMELTER CREATING HIGH METAL LEVELS"
AUTHOR: /MONTANA STANDARD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0257 THRU: 314/0257
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142488 DATE: JUN. 10, 1982 PAGE: 1
TITLE: "SMELTER LEFT HEAVY - METAL WASTES"
AUTHOR: /MISSOULIAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0258 THRU: 314/0258
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142489 DATE: JUN. 11, 1987 PAGE: 1
TITLE: "EPA'S EAST HELENA HEARING IS TONIGHT'
AUTHOR: /INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0259 THRU: 314/0259
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142490 DATE: JUN. 12, 1987 PAGE: 1
TITLE: "STUPIFIED BY SUPERFUND - EPA OFFERS MASS OF ASARCO DATA, BUT LITTLE INTERPRETATION"
AUTHOR: WILKE, BILL/INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0260 THRU: 314/0261
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142491 DATE: JUN. 11, 1987 PAGE: 1
TITLE: "E.H.(EAST HELENA) WATER STILL NEEDS BOILING"
AUTHOR: WILKE, BILL/INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0262 THRU: 314/0262
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142492 DATE: JUN. 13, 1987 PAGE: 1
TITLE: "METAL LEVELS IN SOIL NOT TROUBLING"
AUTHOR: SASEK, GRANT/GREAT FALLS TRIBUNE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0263 THRU: 314/0263
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142493 DATE: JUN. 14, 1987 PAGE: 1
TITLE: "POLLUTION TAINTS HELENA VALLEY, EPA REPORT SAYS"
AUTHOR: /BILLINGS GAZETTE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0264 THRU: 314/0264
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142494 DATE: MAR. 3, 1988 PAGE: 1
TITLE: "SMELTER TOXINS SPREAD FROM ASARCO SITE"
AUTHOR: MYERS, RICHARD/INDEPENDENT RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0265 THRU: 314/0265
KEYWORD(S): LEAD * CADMIUM * ARSENIC
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142495 DATE: MAR. 4, 1988 PAGE: 1
TITLE: "SUPERFUND SITE EXTENDED AFTER ARSENIC FOUND IN WELLS"
AUTHOR: /BOZEMAN DAILY CHRONICLE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0266 THRU: 314/0266
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142496 DATE: MAR. 9, 1988 PAGE: 1
TITLE: "LAND OWNER SUES ASARCO"
AUTHOR: BROOKS, TAD/INDEPENDENT RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0267 THRU: 314/0267
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142497 DATE: MAR. 10, 1983 PAGE: 1
TITLE: "NUMEROUS TEST AND STUDIES HAVE BEEN COMPLETED BY THE EPA AND BY ASARCO"
AUTHOR: /BOULDER MONITOR
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0268 THRU: 314/0268
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142498 DATE: MAR. 28, 1988 PAGE: 1
TITLE: "EAST HELENA RESULTS IN - BLOOD TESTS: FOUR KIDS HAVE RAISED LEAD LEVELS"
AUTHOR: SUNDBY, JILL/INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0269 THRU: 314/0269
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142499 DATE: MAR. 30, 1988 PAGE: 1
TITLE: "FOUR EAST HELENA CHILDREN HAVE HIGH LEAD"
AUTHOR: /GREAT FALLS TRIBUNE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0270 THRU: 314/0270
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142500 DATE: APR. 19, 1988 PAGE: 2
TITLE: "ASARCO FINED $1.65 MILLION - SMELTER CITED ON 398 INSTANCES; AMOUNT A STATE SECOND"
AUTHOR: COOK, TOM/INDEPENDENT RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0271 THRU: 314/0272
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142502 DATE: APR. 19, 1988 PAGE: 2
TITLE: "ASARCO FINED $1.65 MILLION - SMELTER CITED ON 398 INSTANCES; AMOUNT A STATE RECORD" (CONCERNS OSHA)
AUTHOR: COOK, TOM/INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0273 THRU: 314/0274
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142504 DATE: APR. 20, 1988 PAGE: 1
TITLE: "ASARCO: FINES WON'T CLOSE PLANT - BUT EAST HELENA RESIDENTS ARE ANGRY AT THE FEDERAL AGENCY" "SUMMARY OF 398 ALLEGATIONS", "HOW TO RECOGNIZE OVEREXPOSURE"
AUTHOR: /INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0275 THRU: 314/0276
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142505 DATE: APR. 20, 1988 PAGE: 2
TITLE: "ASARCO: FINES WON'T CLOSE PLANT - BUT RESIDENTS ARE ANGRY AT THE FEDERAL AGENCY"
AUTHOR: /INDEPENDENT RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0277 THRU: 314/0278
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142507 DATE: APR. 21, 1988 PAGE: 1
TITLE: "SMELTER UNION BLASTS MANAGEMENT"
AUTHOR: WILKE, BILL/INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0279 THRU: 314/0279
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142508 DATE: APR. 21, 1988 PAGE: 2
TITLE: "SMELTER UNION BLASTS MANAGEMENT"
AUTHOR: WILKE, BILL/INDEPENDENT RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0280 THRU: 314/0280
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142510 DATE: JUL. 6, 1988 PAGE: 1
TITLE: "ASARCO TO FUND MORE LEAD TESTS"
AUTHOR: SUNDBY, JILL/INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0282 THRU: 314/0282
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142511 DATE: JUL. 12, 1988 PAGE: 1
TITLE: "ASARCO DOWN FOR 10 DAYS - CREWS DISMANTLE STILL SMOLDERING REMAINS"
AUTHOR: SASEK, GRANT/INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0283 THRU: 314/0284
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142512 DATE: JUL. 16, 1988 PAGE: 1
TITLE: "PARENTS THANKFUL FOR THEM" (PARENTS WELCOME BLOOD TESTS)
AUTHOR: MYERS, RICHARD/INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0285 THRU: 314/0285
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142513 DATE: SEP. 25, 1988 PAGE: 1
TITLE: "GARDEN NEAR ASARCO TAINTED"
AUTHOR: /ASSOCIATED PRESS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0286 THRU: 314/0286
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142514 DATE: SEP. 26, 1988 PAGE: 1
TITLE: "ASARCO SAYS IT WILL REBUILD"
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0287 THRU: 314/0287
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0142515 DATE: DEC. 12, 1988 PAGE: 1
TITLE: "ASARCO TO HALT HOT SLAG DUMPING - NO MORE STEAM OVER EAST HELENA"
AUTHOR: BIRD, ANDY/INDEPENDENT RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0288 THRU: 314/0288
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0161725 DATE: APR. 25, 1989 PAGE: 1
TITLE: "STATE 12TH IN RELEASE OF HAZARDOUS WASTE ON LAND"
AUTHOR: SHRALOW, BILL/MEDILL NEWS SERVICE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0289 THRU: 314/0289
KEYWORD(S): SLAG PILES
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0161726 DATE: APR. 25, 1989 PAGE: 1
TITLE: EPA TARGETS EAST HELENA VEGETABLES
AUTHOR: SASEK, GRANT/INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0290 THRU: 314/0290
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0190584 DATE: JUN. 7, 1989 PAGE: 1
TITLE: "ASARCO LAMPINGS SETTLE SUIT"
AUTHOR: SASEK, GRANT/INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0291 THRU: 314/0291
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0190585 DATE: AUG. 28, 1989 PAGE: 2
TITLE: PUBLIC NOTICE OF PROCESS PONDS PROPOSED PLAN AND RI/FS REPORT
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: /INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):2000000
MICROFILM ROLL/FRAME NO.: 314/0292 THRU: 314/0293
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0190587 DATE: SEP. 6, 1989 PAGE: 1
TITLE: "ASARCO, EPA CLEANUP ON: WORK BEGINS AT SMELTER BEFORE 'FINAL' PLAN IS DONE"
AUTHOR: PEKOC, KEN/INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):2010000
MICROFILM ROLL/FRAME NO.: 314/0294 THRU: 314/0295
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0192170 DATE: JAN. 13, 1990 PAGE: 1
TITLE: "SMELTER STILL HIGH ON EPA'S TOXIC LIST" (AIR QUALITY)
AUTHOR: GREENWAY, ALICE/STATES NEWS SERVICE
ADDRESSEE: SASEK, GRANT/INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1140000 * 1060704
MICROFILM ROLL/FRAME NO.: 314/0296 THRU: 314/0296
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0192171 DATE: JAN. 12, 1990(E) PAGE: 1
TITLE: "SMELTER STILL HIGH ON EPA'S TOXIC LIST" (PREDICTED RISK)
AUTHOR: GREENWAY, ALICE/STATES NEWS SERVICE * SASEK, GRANT/INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1060704
MICROFILM ROLL/FRAME NO.: 314/0297 THRU: 314/0298
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0192172 DATE: JAN. 15, 1990 PAGE: 1
TITLE: "ASARCO'S EAST HELENA PLANT IS VERY UNHEALTHY" (AIR QUALITY)
AUTHOR: /LIVINGSTON ENTERPRISE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1140000 * 1060704
MICROFILM ROLL/FRAME NO.: 314/0299 THRU: 314/0299
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0192173 DATE: JAN. 15, 1990 PAGE: 1
TITLE: "MANAGER OBJECTS TO EPA CHARGES" (AIR QUALITY)
AUTHOR: /MILES CITY STAR
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1140000 * 1060704
MICROFILM ROLL/FRAME NO.: 314/0300 THRU: 314/0300
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0192174 DATE: JAN. 13, 1990 PAGE: 1
TITLE: "EAST HELENA PLANT'S FUMES CREATE CANCER RISKS, EPA SAYS" (AIR QUALITY)
AUTHOR: /MONTANA STANDARD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1140000 * 1060704
MICROFILM ROLL/FRAME NO.: 314/0301 THRU: 314/0302
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0192175 DATE: JAN. 14, 1990 PAGE: 1
TITLE: "ASARCO PLANT SAYS REPORT 'FLAWED'" (AIR QUALITY)
AUTHOR: /DAILY INTERLAKE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1140000 * 1060704
MICROFILM ROLL/FRAME NO.: 314/0303 THRU: 314/0303
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1100400 DOCNO: 0220991 DATE: NOV. 22, 1990 PAGE: 1
TITLE: "E. (EAST) HELENA LAWN CLEANUP SET FOR JUL." (SOIL CLEANUP)
AUTHOR: SASEK, GRANT/INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 314/0304 THRU: 314/0304
NOTES: UPDATE 02

FILE: 1100500 DOCNO: 0110709 DATE: SEP. 1983 PAGE: 130
TITLE: "COMMUNITY RELATIONS IN SUPERFUND: A HANDBOOK INTERIM VERSION SEP. 1983"
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 314/0305 THRU: 314/0435
NOTES: UPDATE 02

FILE: 1100500 DOCNO: 0110839 DATE: MAR. 23, 1984 PAGE: 40
TITLE: "DRAFT COMMUNITY RELATIONS PLAN EAST HELENA SMELTER SITE, EAST HELENA, MONTANA MAR. 23, 1984"
AUTHOR: /CH2M HILL * /E AND E
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/0436 THRU: 314/0475
NOTES: UPDATE 02

FILE: 1100500 DOCNO: 0110879 DATE: MAY 1984 PAGE: 30
TITLE: "FINAL COMMUNITY RELATIONS PLAN EAST HELENA SMELTER SITE, EAST HELENA, MONTANA"
AUTHOR: /CH2M HILL * /E AND E
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/0476 THRU: 314/0505
NOTES: UPDATE 02

FILE: 1100500 DOCNO: 0110934 DATE: MAY 14, 1984 PAGE: 19
TITLE: (TRANSMITS ATTACHED DRAFT DOCUMENTS PREPARED IN SUPPORT OF UPCOMING PUBLIC ANNOUNCEMENT MEETING AND COMMENT PERIOD FOR RI WORK)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SCHOUP * GILSON * MCKOWN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/0531 THRU: 314/0549
NOTES: UPDATE 02

FILE: 1100500 DOCNO: 0110983 DATE: OCT. 23, 1988 PAGE: 37
TITLE: (TRANSMITS ATTACHED REVISED COMMUNITY RELATIONS PLAN EAST HELENA SUPERFUND SITE, EAST HELENA MONTANA; OCT. 27, 1988)
AUTHOR: CASEY, SEAN/ICF
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SCRIMGEOUR * LATHROP * STILES * MILLER * BUNTE * CHRISTIANSEN * ZODA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 314/0580 THRU: 314/0616
NOTES: UPDATE 02

FILE: 1100500 DOCNO: 0111020 DATE: OCT. 27, 1988 PAGE: 37
TITLE: (TRANSMITS ATTACHED REVISED COMMUNITY RELATIONS PLAN, EAST HELENA SUPERFUND SITE, EAST HELENA, MONTANA)
AUTHOR: CASEY, SEAN/ICF
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SCRIMGEOUR * LATHROP * STILES * MILLER * BUNTE * CHRISTIANSEN * ZODA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 314/0617 THRU: 314/0653
NOTES: UPDATE 02

FILE: 1100600 DOCNO: 0111057 DATE: 1983 (E) PAGE: 1
TITLE: (SUMMARY/UPDATE OF LIBBY AND EAST HELENA SITES)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/0654 THRU: 314/0654
NOTES: UPDATE 02

FILE: 1100600 DOCNO: 0111058 DATE: JAN. 12, 1983 PAGE: 2
TITLE: (NEWS RELEASE NOTIFIES MDHES IS UNDERTAKING MAJOR PROJECT TO DETERMINE LEVEL OF LEAD CONCENTRATES IN CHILDREN IN EAST HELENA AREA)
AUTHOR: /MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0655 THRU: 314/0656
NOTES: UPDATE 02

FILE: 1100600 DOCNO: 0111060 DATE: AUG. 1983 PAGE: 2
TITLE: "EPA HAS PROPOSED ANOTHER MONTANA SITE FOR INCLUSION ON AN UPDATE TO THE NATIONAL LIST OF HAZARDOUS WASTE SITES ELIGIBLE FOR CLEANUP UNDER THE FEDERAL SUPERFUND PROGRAM"
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0657 THRU: 314/0658
NOTES: UPDATE 02

FILE: 1100600 DOCNO: 0111062 DATE: SEP. 1, 1983 PAGE: 2
TITLE: "EPA HAS PROPOSED ANOTHER MONTANA SITE FOR INCLUSION ON AN UPDATE TO THE NATIONAL LIST OF HAZARDOUS WASTE ELIGIBLE FOR CLEANUP UNDER THE FEDERAL SUPERFUND PROGRAM" (EAST HELENA LEAD SMELTER)
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0659 THRU: 314/0660
NOTES: UPDATE 02

FILE: 1100600 DOCNO: 0111064 DATE: JUN. 4, 1984 PAGE: 1
TITLE: (NEWS RELEASE INDICATES EPA IS PLANNING WORK THAT WILL ASSESS POTENTIAL PROBLEMS RELATED TO AREA SURROUNDING AND INCLUDING ASARCO SMELTER IN EAST HELENA)
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0661 THRU: 314/0661
NOTES: UPDATE 02

FILE: 1100600 DOCNO: 0111065 DATE: SEP. 7, 1984 PAGE: 2
TITLE: (NEWS RELEASE CONCERNING EPA AND ASARCO AGREEMENT FOR CONDUCTING SURFACE AND GROUNDWATER INVESTIGATION)
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0662 THRU: 314/0663
NOTES: UPDATE 02

FILE: 1100600 DOCNO: 0111067 DATE: JAN. 20, 1989 PAGE: 1
TITLE: PUBLIC NOTICE (ANNOUNCEMENT OF PUBLIC REVIEW AND COMMENT PERIOD ON RECENTLY EXECUTED AOC FOR ADDITIONAL STUDIES AROUND EAST HELENA SMELTER)
AUTHOR: /EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0664 THRU: 314/0664
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1100600 DOCNO: 450602 DATE: OCT. 30, 1997 PAGE: 1
TITLE: "THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) INVITES PUBLIC COMMENT ON THE PROPOSED REMEDY FOR RESIDENTIAL AND AGRICULTURAL/UNDEVELOPED SOILS OF THE EAST HELENA SMELTER SUPERFUND SITE IN LEWIS AND CLARK COUNTY MONTANA"
AUTHOR: BROWN, SCOTT/EPA * HILLERY, PAM/EPA * /INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 1061/0078 THRU: 1061/0078
NOTES: UPDATE 16

FILE: 1100600 DOCNO: 450842 DATE: OCT. 5, 1998 PAGE: 1
TITLE: (PUBLIC SERVICE ANNOUNCEMENT REGARDING FEB. 17, 1993 (DRAFT HUMAN HEALTH) RISK ASSESSMENT MEETING)
AUTHOR: HILLERY, PAM/EPA
ADDRESSEE: /HELENA RADIO * /HELENA TELEVISION
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 1102/0080 THRU: 1102/0080
NOTES: UPDATE 17

FILE: 1100600 DOCNO: 465387 DATE: OCT. 9, 2001 PAGE: 1
TITLE: (INVITATION TO OCT. 16, 2001 COMMUNITY MEETING)
AUTHOR: BENIGER, BETTY/EHCAC/C
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1407/0022 THRU: 1407/0022
NOTES: UPDATE 24

FILE: 1100700 DOCNO: 0190588 DATE: SEP. 20, 1989 PAGE: 1
DUPLICATE DOCUMENT: 1100700/434756
TITLE: (COMMENTS FROM ARCO CONCERNING PROPOSED PLAN FOR PROCESS PONDS; REQUESTS EXTENSION OF PUBLIC COMMENT PERIOD)
AUTHOR: LAWRENCE, ROBERT W./PMHS
ADDRESSEE: MORENO, SANDRA R./EPA
CC: DESAUTELS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/0665 THRU: 314/0665
NOTES: UPDATE 02

FILE: 1100700 DOCNO: 0190589 DATE: SEP. 20, 1989 PAGE: 2
TITLE: (COMMENTS FROM ARCO CONCERNING PROPOSED PLAN FOR PROCESS PONDS; CONFIRMS REQUEST FOR PUBLIC COMMENTS EXTENSION)
AUTHOR: LAWRENCE, ROBERT W./PMHS
ADDRESSEE: MORENO, SANDRA R./EPA
CC: DESAUTELS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):2040000
MICROFILM ROLL/FRAME NO.: 314/0666 THRU: 314/0667
NOTES: UPDATE 02

FILE: 1100700 DOCNO: 0190591 DATE: SEP. 20, 1989 PAGE: 3
TITLE: (COMMENTS FROM ARCO CONCERNING PROPOSED PLAN FOR PROCESS PONDS)
AUTHOR: LAWRENCE, ROBERT W./PMHS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MORENO * DESAUTELS * DENT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):2040000
MICROFILM ROLL/FRAME NO.: 314/0668 THRU: 314/0670
NOTES: UPDATE 02

FILE: 1100700 DOCNO: 0220992 DATE: SEP. 13, 1990 PAGE: 1
TITLE: (COMMENTS OPPOSING SOIL REMOVAL OF YARDS)
AUTHOR: BOMAR, ROBERTA * BOMAR, BOYD
ADDRESSEE: /EPA
CC: HILLERY * PIZZINI * BOHAN * WEIS * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 314/0671 THRU: 314/0671
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1100700 DOCNO: 0220993 DATE: OCT. 3, 1990 PAGE: 11
TITLE: (NOTES OF VERBAL AND WRITTEN COMMENTS FOR PUBLIC MEETING; ATTACHED PARTIAL ATTENDANCE LIST)
AUTHOR: HILLERY, PAM/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 314/0672 THRU: 314/0682
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 02

FILE: 1100700 DOCNO: 0221004 DATE: OCT. 3, 1990 PAGE: 15
TITLE: (SUMMARY OF COMMENTS AND QUESTIONS FROM EAST HELENA PUBLIC MEETING; ATTACHED ORIGINALS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 314/0683 THRU: 314/0697
NOTES: UPDATE 02

FILE: 1100700 DOCNO: 0221018 DATE: OCT. 7, 1990 PAGE: 1
TITLE: (COMMENTS OPPOSING REMOVAL OF TOP SOIL)
AUTHOR: SCHEET, ETHEL L.
ADDRESSEE: DAVIS, BRIAN/ASARCO * BROWN, SCOTT/EPA
CC: HILLERY * BOHAN * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/0698 THRU: 314/0698
KEYWORD(S): ASARCO
NOTES: UPDATE 02

FILE: 1100700 DOCNO: 0221019 DATE: OCT. 9, 1990 PAGE: 3
TITLE: (DISCUSSES CHILDREN BEING HELD BACK IN SCHOOL)
AUTHOR: LAMPING, TERRY
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * HANDWRITTEN
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/0699 THRU: 314/0701
NOTES: UPDATE 02

FILE: 1100700 DOCNO: 0221022 DATE: OCT. 18, 1990 PAGE: 2
TITLE: (COMMENTS REGARDING SOIL CLEANUP PROPOSALS)
AUTHOR: STIPICH, EDWARD J./CITY OF EAST HELENA
ADDRESSEE: BROWN, SCOTT/EPA
CC: BAUCUS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 314/0702 THRU: 314/0703
KEYWORD(S): LEAD * REMOVAL
NOTES: UPDATE 02

FILE: 1100700 DOCNO: 0221024 DATE: OCT. 23, 1990 PAGE: 1
TITLE: (REQUEST FOR SOIL TESTING AND REMOVAL AT 318 EAST RIGGS GINGERBREAD HOUSE)
AUTHOR: RICE, VICKI
ADDRESSEE: BROWN, SCOTT/EPA
CC: BOHAN * HILLERY * MULLEN * WEIS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 314/0704 THRU: 314/0704
NOTES: UPDATE 02

FILE: 1100700 DOCNO: 0221025 DATE: NOV. 19, 1990 PAGE: 2
TITLE: (RESPONSE TO LETTER CONCERNING PROPOSAL TO REMOVE CONTAMINATED SOIL FROM YARDS AND PLAYGROUNDS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: STIPICH, EDWARD J./(MAYOR) CITY OF EAST HELENA
CC: WARDELL * PIZZINI * BOHAN * WEIS * MULLEN * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 314/0705 THRU: 314/0706
KEYWORD(S): LEAD * ASARCO
NOTES: UPDATE 02

FILE: 1100700 DOCNO: 434756 DATE: SEP. 20, 1989 PAGE: 2
DUPLICATE DOCUMENT: 1100700/0190588
TITLE: (COMMENTS FROM ARCO CONCERNING PROPOSED PLAN FOR PROCESS PONDS; REQUESTS EXTENSION OF PUBLIC COMMENT PERIOD)
AUTHOR: LAWRENCE, ROBERT W./PMHS
ADDRESSEE: MORENO, SANDRA R./EPA
CC: DESAUTELS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0236 THRU: 749/0237
NOTES: UPDATE 10

FILE: 1100700 DOCNO: 434757 DATE: SEP. 20, 1989 PAGE: 1
TITLE: (REVISION OF SEP. 20, 1989 LETTER REQUESTING EXTENSION OF PUBLIC COMMENT PERIOD ON PROPOSED PLAN FOR EAST HELENA SMELTER SITE)
AUTHOR: LAWRENCE, ROBERT W./PMHS
ADDRESSEE: MORENO, SANDRA R./EPA
CC: DESAUTELS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0238 THRU: 749/0238
NOTES: UPDATE 10

FILE: 1100700 DOCNO: 450554 DATE: NOV. 25, 1997 PAGE: 1
TITLE: (THANKS BROWN FOR PROPOSED PLAN STAFF EFFORT; SUPPORTS ALL BUT RAILROAD RIGHT-OF-WAY PROPOSAL)
AUTHOR: JONES, JOHN E.
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0079 THRU: 1061/0079
NOTES: UPDATE 16

FILE: 1100800 DOCNO: 0111068 DATE: 1987 (E) PAGE: 11
TITLE: (MAILING LISTS OF AREA RESIDENTS AND MEDIA)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/0714 THRU: 314/0724
NOTES: UPDATE 02

FILE: 1100800 DOCNO: 0111079 DATE: JUL. 17, 1987 PAGE: 7
TITLE: (CURRENT ADDRESS LIST AS OF JUL. 17, 1987)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/0725 THRU: 314/0731
NOTES: UPDATE 02

FILE: 1100800 DOCNO: 0111086 DATE: JUL. 1, 1988 PAGE: 39
TITLE: (MAILING LIST OF GROUPS AND INDIVIDUALS INTERESTED IN EAST HELENA [ASARCO] SITE; INCLUDES ADDITIONS MAILING LIST AND TELEPHONE NOTES FROM INDIVIDUALS)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/0732 THRU: 314/0770
NOTES: UPDATE 02

FILE: 1100900 DOCNO: 0111125 DATE: 1987 (E) PAGE: 4
TITLE: "FACT SHEET ISSUES RELATED TO DEVELOPING A SUPERFUND TECHNICAL ASSISTANCE GRANT [TAG] PROGRAM"
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0771 THRU: 314/0774
NOTES: UPDATE 02

FILE: 1100900 DOCNO: 0111129 DATE: 1988 (E) PAGE: 31
TITLE: TECHNICAL ASSISTANCE GRANT WORKSHOP (TAG DEFINITION INFORMATION)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/0775 THRU: 314/0805
NOTES: UPDATE 02

FILE: 1100900 DOCNO: 0111160 DATE: JUN. 10, 1987 PAGE: 5
TITLE: FEDERAL REGISTER VOL. 32 NO. 3 "TECHNICAL ASSISTANCE GRANTS TO GROUPS AT NATIONAL PRIORITIES LIST (NPL) SITES; ADVANCE NOTICE OF RULEMAKING AND REQUEST FOR COMMENTS"
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0806 THRU: 314/0810
NOTES: UPDATE 02

FILE: 1100900 DOCNO: 0111165 DATE: MAR. 24, 1988 PAGE: 22
TITLE: FEDERAL REGISTER PART 3 40 CFR CHAPTER 1 VOL. 53 NO. 57 TECHNICAL ASSISTANCE GRANTS TO GROUPS AT NPL SITES (INTERIM FINAL RULE WITH REQUEST FOR COMMENTS)
AUTHOR: /EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0811 THRU: 314/0832
NOTES: UPDATE 02

FILE: 1100900 DOCNO: 0111187 DATE: MAR. 24, 1988 PAGE: 17
TITLE: FEDERAL REGISTER VOL. 53 NO. 57 TECHNICAL ASSISTANCE GRANTS TO GROUPS AT NPL SITES (INTERIM FINAL RULE WITH REQUEST FOR COMMENTS)
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0833 THRU: 314/0849
NOTES: UPDATE 02

FILE: 1100900 DOCNO: 0111204 DATE: APR. 1988 PAGE: 9
TITLE: SUPERFUND TECHNICAL ASSISTANCE GRANTS (BOOKLETS EXPLAINING GRANTS)
AUTHOR: /EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0850 THRU: 314/0858
NOTES: UPDATE 02

FILE: 1100900 DOCNO: 0111213 DATE: APR. 20, 1988 PAGE: 1
TITLE: (NOTIFIES CFC IS INTERESTED IN APPLYING FOR SUPERFUND TAG FOR SILVER BOW AND MILLTOWN)
AUTHOR: FARLING, BRUCE/CFC
ADDRESSEE: GOODSELL, BEVERLY/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/0859 THRU: 314/0859
NOTES: UPDATE 02

FILE: 1100900 DOCNO: 0111214 DATE: MAY 31, 1988 PAGE: 1
TITLE: TAG PROGRAM ADMINISTRATIVE SERVICE CONTRACTOR (ADVANCE NOTICE OF RULE MAKING REOPENING OF COMMENT PERIOD)
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 314/0860 THRU: 314/0860
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0111215 DATE: 1986 (E) PAGE: 3
TITLE: HELENA AREA PRESS CONTACTS (NAMES AND ADDRESSES OF NEWSPAPERS IN EAST HELENA AREA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/0861 THRU: 314/0863
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0111218 DATE: APR. 1986 PAGE: 11
TITLE: (NOTE FROM LUCERO TO GENE TRANSMITTING SOME COMMUNITY RELATIONS IDEAS IN ATTACHED APR. 1986 FACT SHEET, NEWSPAPER PUBLIC NOTICE AND EXAMPLE NEWS RELEASE)
AUTHOR: LUCERO
ADDRESSEE: GENE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 314/0864 THRU: 314/0874
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0111229 DATE: APR. 23, 1987 PAGE: 1
TITLE: (RECALL OF GENE SUGGESTION OF APR. 22, 1987 THAT RESULTS OF WORK, AND REMEDIAL INVESTIGATIONS [RI] IS PRELIMINARY AND SHOULD BE PUT OUT AS PRESS RELEASE)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 314/0875 THRU: 314/0875
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0111230 DATE: AUG. 21, 1987 PAGE: 36
TITLE: (TRANSMITS ATTACHED ARTICLES CONCERNING ASARCO TACOMA EMPLOYEES, MONTHLY STATUS REPORTS ON SMELTER SITE STABILITY AND QUARTERLY UPDATE ON COMMENCEMENT BAY SUPERFUND SITE)
AUTHOR: WANLESS, CYNTHIA/TACOMA-PIERCE COUNTY HEALTH DEPARTMENT
ADDRESSEE: STILES, JANE/MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/0876 THRU: 314/0911
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0111266 DATE: JUN. 1988 PAGE: 189
TITLE: "COMMUNITY RELATIONS IN SUPERFUND A HANDBOOK INTERIM VERSION"
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/0912 THRU: 314/1100
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0111455 DATE: JUL. 28, 1988 PAGE: 1
TITLE: (PHONE CALL BETWEEN RICORD AND BROWN CONCERNING PURCHASE OF HOUSE IN EAST GATE AND ANSWER TO QUESTIONS CONCERNING RESULTS OF LEAD-BLOOD TESTS AND VEGETABLE SAMPLING)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: /FILES
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 314/1101 THRU: 314/1101
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0111456 DATE: OCT. 1988 PAGE: 16
TITLE: "CHAPTER 5 CONDUCTING COMMUNITY RELATIONS PROGRAMS DURING REMEDIAL DESIGN AND REMEDIAL ACTION (RD/RA)" (PROVIDES GUIDANCE ON CONDUCTING COMMUNITY RELATIONS PROGRAMS DURING RD/RA PHASE OF SUPERFUND REMEDIAL RESPONSE)
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1090000
MICROFILM ROLL/FRAME NO.: 314/1102 THRU: 314/1117
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0111472 DATE: NOV. 3, 1988 PAGE: 27
TITLE: (TRANSMITS ATTACHED "OSWER DIRECTIVE 9836.0-1A CHAPTER COMMUNITY RELATIONS DURING ENFORCEMENT ACTIVITIES AND DEVELOPMENT OF THE ADMINISTRATIVE RECORD")
AUTHOR: PORTER, J. WINSTON/EPA
ADDRESSEE: REGION 1-10 ADMINISTRATORS
CC: DIAMOND * LONGEST * STANLEY * GUERCI * WYER * FRIEDMAN * UNTERBERGER * FIRESTONE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 314/1118 THRU: 314/1144
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0190594 DATE: SEP. 14, 1989 PAGE: 1
TITLE: (REQUESTS INFORMATION FROM MEMBER OF COUNTY COMMISSION)
AUTHOR: STOLL-ANDERSON, LINDA/LEWIS AND CLARK COUNTY
ADDRESSEE: BROWN, SCOTT, EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/1145 THRU: 314/1145
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0190595 DATE: SEP. 25, 1989 PAGE: 1
TITLE: (RESPONSE TO COUNTY COMMISSION FOR INFORMATION ON LEAD IN SOILS IN EAST GATE)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: LINDA * DAVE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/1146 THRU: 314/1146
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0192176 DATE: OCT. 10, 1989 PAGE: 1
TITLE: (REQUESTS TWO TESTS COMPLETED ON ASSESSMENT OF TOXICITY OF METALS FOUND IN SOILS, PLANTS AND LIVESTOCK IN HELENA VALLEY)
AUTHOR: CRABTREE, DAVID R./MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/1147 THRU: 314/1147
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0211829 DATE: APR. 26, 1990 PAGE: 3
TITLE: (RESPONSE TO REQUEST FROM PROPERTY OWNER CONCERNING LEAD LEVELS IN LOCAL SOILS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: PYFER, CLARK S.
CC: FOX * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/1148 THRU: 314/1150
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0221027 DATE: DEC. 18, 1990(E) PAGE: 1
TITLE: (TRANSMITS APR. 1989 FACT SHEETS AND NOV. 1990 NEWSLETTERS TO INFORM PROSPECTIVE MORTGAGE HOLDERS OF CONTAMINATION)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: VAN'T HUL, NANCY/WESTERN FEDERAL SAVINGS AND LOAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/1163 THRU: 314/1163
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 0221028 DATE: OCT. 9, 1990 PAGE: 1
TITLE: (RETURNS REMEDIAL PLANNING ACTIVITIES REPORT)
AUTHOR: HALL, DOUGLAS A./HALL AND HALL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/1164 THRU: 314/1164
NOTES: UPDATE 02

FILE: 1101000 DOCNO: 465450 DATE: MAY 10, 2002 PAGE: 7
TITLE: (DISCUSSES EAST HELENA NEGATIVE LEAD CONTAMINATION PUBLICITY; TRANSMITS ATTACHED DOCTOR: LEAD MAFIA MISINFORMS ARTICLE)
AUTHOR: MURGEL, EDWARD F./EAST HELENA MAYOR * CASEY, TERRIE/EAST HELENA CITY COUNCIL * BUCKMASTER, ROBERT BUCK/EAST HELENA CITY COUNCIL * KRIEGER, WAYNE/EAST HELENA CITY COUNCIL * STRAINER, ANTHONY/EAST HELENA CITY COUNCIL
ADDRESSEE: MCGRAW, JACK/EPA
CC: BURNS * BAUCUS * (REHBERG) * WARDELL * LEAD ABATEMENT PROGRAM * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4080000/465481
MICROFILM ROLL/FRAME NO.: 1452/0025 THRU: 1452/0031
NOTES: UPDATE 25

FILE: 1101000 DOCNO: 465451 DATE: JUN. 2002(E) PAGE: 10
TITLE: (RESPONDS TO ATTACHED MAY 10, 2002 MURGEL TO MCGRAW LETTER AND TRANSMITS ATTACHED EPA ASBESTOS QUESTIONS AND ANSWERS)
AUTHOR: DODSON, MAX/EPA
ADDRESSEE: MURGEL, EDWARD F./EAST HELENA MAYOR
CC: WARDELL * FOX * BROWN * BOHAN * HAMMER * REED * BOWSHER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):4080000/465480
MICROFILM ROLL/FRAME NO.: 1452/0032 THRU: 1452/0041
NOTES: UPDATE 25

FILE: 1110200 DOCNO: 0111504 DATE: FEB. 18, 1987 PAGE: 1
TITLE: (CONVERSATION NOTES WITH HANLEY CONCERNING ADMINISTRATION, ARCS, AND TES 5 FOR RA/RD)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: NOTES
CROSS FILE(S):4060000
MICROFILM ROLL/FRAME NO.: 314/1151 THRU: 314/1151
NOTES: UPDATE 02

FILE: 1110200 DOCNO: 0111616 DATE: JUN. 30, 1988 PAGE: 5
TITLE: "88/4 SCAP UPDATE AND FISCAL YEAR 1989 SCAP PLANNING DATA KEY POINTS"
CC: GEISE * LEVENE * FINKE * SCHALLER * SILVERNALE * HANLEY * HANSON * MARQUEZ * RICHEN * VALLEJOS * DUPREY * CHIOTTI
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1152 THRU: 314/1156
NOTES: UPDATE 02

FILE: 1110200 DOCNO: 0111621 DATE: JAN. 11, 1989 PAGE: 6
TITLE: (MEETING NOTES CONCERNING SCAP; ATTACHED SCAP-2: NPL SITE SUMMARY REPORT STATUS AS OF DEC. 12, 1988)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 314/1157 THRU: 314/1162
NOTES: UPDATE 02

FILE: 1120103 DOCNO: 0111627 DATE: 1983 (E) PAGE: 1
TITLE: (SCHEDULE OF EVENTS THAT HAVE TAKEN PLACE CONCERNING TECHNICAL STATUS, FINANCIAL STATUS AND SCHEDULE STATUS ON SOIL/VEGETATION/CROP DATA REPORT)
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/1172 THRU: 314/1172
NOTES: UPDATE 02

FILE: 1120103 DOCNO: 0111628 DATE: OCT. 4, 1983 PAGE: 11
TITLE: MONTHLY WORK ASSIGNMENT STATUS REPORTS (TECHNICAL SEP. - DEC. 1983)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
CC: TAYLOR * MAROTTE * MCKOWN * DUNAGAN
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1173 THRU: 314/1183
NOTES: UPDATE 02

FILE: 1120103 DOCNO: 0111639 DATE: FEB. 16, 1984 PAGE: 81
TITLE: MONTHLY WORK ASSIGNMENT STATUS REPORTS (TECHNICAL) (JAN. - DEC. 1984)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
CC: TAYLOR * DAVIS * MCKOWN * DUNAGAN * RICHARDSON * DEVARY * LUCERO * SCHWING * CHRISTENSEN * MOROTTE * DOLLHOPF * BUTT
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1184 THRU: 314/1264
NOTES: UPDATE 02

FILE: 1120103 DOCNO: 0111719 DATE: FEB. 13, 1985 PAGE: 83
TITLE: MONTHLY WORK ASSIGNMENT STATUS REPORTS (TECHNICAL) (JAN. - DEC. 1985)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL * LUCERO, JOHN D./CH2M HILL
CC: TAYLOR * SCHWING * DUNAGAN * CHRISTENSEN * MOROTTE * DOLLHOPF * BUTT * HALSIP * KARLSEN * SHERMAN * MCNAB * ANDERSON
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1265 THRU: 314/1349
NOTES: UPDATE 02

FILE: 1120103 DOCNO: 0111802 DATE: JUL. 31, 1985 PAGE: 11
TITLE: ASARCO, RI/FS (TECHNICAL, FINANCIAL AND SCHEDULE STATUS JUL. 31 - DEC. 31, 1985)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1350 THRU: 314/1360
NOTES: UPDATE 02

FILE: 1120103 DOCNO: 0111813 DATE: JAN. 31, 1986 PAGE: 30
TITLE: ASARCO (EAST HELENA SMELTER) RI/FS TECHNICAL, FINANCIAL AND SCHEDULE STATUS JAN. 31 - OCT. 31, 1986
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1361 THRU: 314/1390
NOTES: UPDATE 02

FILE: 1120103 DOCNO: 0111843 DATE: FEB. 19, 1986 PAGE: 74
TITLE: MONTHLY WORK ASSIGNMENT STATUS REPORTS (TECHNICAL) (JAN. - NOV. 1986)
AUTHOR: LUCERO, JOHN D./CH2M HILL
CC: TAYLOR * SCHWING * HAISLIP * BUTT * ANDERSON * HOLM * BUNTE * SMITH
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1391 THRU: 314/1464
NOTES: UPDATE 02

FILE: 1120107 DOCNO: 0111921 DATE: APR. 2, 1984 PAGE: 1
TITLE: FINAL WORK PLAN APPROVAL (NOTIFICATION ASARCO HAS BEEN OFFERED OPPORTUNITY TO UNDERTAKE RI/FS AND UNTIL DECISION IS MADE ONLY CERTAIN APPROVALS ARE GIVEN TO CH2M HILL)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: WILLIS, NANCY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1465 THRU: 314/1465
NOTES: UPDATE 02

FILE: 1120107 DOCNO: 0111922 DATE: APR. 13, 1984 PAGE: 5
TITLE: (TRANSMITS ATTACHED WORK PLAN APPROVAL FORM, CALCULATIONS AND COMMENTS ON WORK PLAN)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 314/1466 THRU: 314/1470
NOTES: UPDATE 02

FILE: 1120107 DOCNO: 0111927 DATE: JAN. 14, 1985 PAGE: 37
TITLE: "DRAFT (FOUR) OVERSIGHT WORK PLAN FOR ASARCO, MT RI/FS, VOL.1 : SCOPE AND SCHEDULE"
AUTHOR: /CH2M HILL
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1471 THRU: 314/1507
NOTES: UPDATE 02

FILE: 1120107 DOCNO: 0111964 DATE: JAN. 14, 1985 PAGE: 344
TITLE: "DRAFT (FOUR) OVERSIGHT WORK PLAN FOR ASARCO, MT RI/FS, VOL. 2 : PROJECT BUDGET"
AUTHOR: /CH2M HILL
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1508 THRU: 314/1850
NOTES: UPDATE 02

FILE: 1120107 DOCNO: 0112308 DATE: FEB. 27, 1985 PAGE: 2
TITLE: (DISCUSSES OVERSIGHT PROPOSAL TO COMPARE ASARCO COLORMETRIC ARSENIC DETERMINATIONS AGAINST EPA SPLIT SAMPLE ARSENIC DETERMINATIONS)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1851 THRU: 314/1852
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1120107 DOCNO: 0112310 DATE: MAR. 1, 1985 PAGE: 93
TITLE: (DEFINES SCOPE, SCHEDULE AND BUDGET FOR MSU INVOLVEMENT IN DATABASE MANAGEMENT SYSTEM [DBMS] DEVELOPMENT; ATTACHED OVERSIGHT WORK PLAN)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: TAYLOR * SCHWING * SHOUP * VAN MUNSTER
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/1853 THRU: 314/1945
NOTES: UPDATE 02

FILE: 1120107 DOCNO: 0112403 DATE: MAR. 26, 1985 PAGE: 52
TITLE: "REVISED FINAL OVERSIGHT WORK PLAN FOR ASARCO, MT RI/FS, VOL. 1: SCOPE AND SCHEDULE"
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1946 THRU: 314/1997
NOTES: UPDATE 02

FILE: 1120108 DOCNO: 0112455 DATE: 1984 (E) PAGE: 5
TITLE: WORK ASSIGNMENT (ESTIMATES OF GOVERNMENT DIRECT LABOR HOURS, SOW, PERIOD OF PERFORMANCE, SCHEDULE FOR DELIVERABLE AND PROJECT CONTACT)
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/1998 THRU: 314/2002
NOTES: UPDATE 02

FILE: 1120108 DOCNO: 0112460 DATE: JAN. 10, 1984 PAGE: 2
TITLE: WORK ASSIGNMENT (APPROVAL FORM SIGNED BY EPA PERSONNEL)
AUTHOR: SHECKELLS, TOM/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 314/2003 THRU: 314/2004
NOTES: UPDATE 02

FILE: 1120108 DOCNO: 0112462 DATE: FEB. 2, 1984 PAGE: 1
TITLE: (WORK ASSIGNMENT 07.8V30.0 CONTRACT 68-01-6692 COVER SHEET)
AUTHOR: TYLER, DOROTHY/EPA * NADEAU, PAUL/EPA * WILLIS, NANCY/EPA * DIECIDUE, TONY/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 314/2005 THRU: 314/2005
NOTES: UPDATE 02

FILE: 1120108 DOCNO: 0112463 DATE: DEC. 19, 1984 PAGE: 1
TITLE: WORK ASSIGNMENT COVER SHEET 68-01-6692 (APPROVAL FORM SIGNED BY EPA PERSONNEL)
AUTHOR: TAYLOR, GENE/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 314/2006 THRU: 314/2006
NOTES: UPDATE 02

FILE: 1120108 DOCNO: 0112464 DATE: SEP. 19, 1986 PAGE: 5
TITLE: (CONTRACTUAL WORK ASSIGNMENT INFORMATION; REPORTS OF WORK; REPORT DISTRIBUTION)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/2007 THRU: 314/2011
NOTES: UPDATE 02

FILE: 1120108 DOCNO: 0112469 DATE: NOV. 13, 1986 PAGE: 1
TITLE: WORK ASSIGNMENT FORM (FOR INCREASE IN EXPENDITURE)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 314/2012 THRU: 314/2012
NOTES: UPDATE 02

FILE: 1120109 DOCNO: 0112470 DATE: APR. 16, 1985 PAGE: 43
TITLE: (DISCUSSES AND TRANSMITS ATTACHED MATERIALS RELEVANT TO LIBRARY DATA SYSTEM, ASARCO DATA RECORD DEFINITIONS, ASARCO SORTING REQUIREMENTS AND ASARCO DATABASE MANAGEMENT SYSTEM QA/QC)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: VON LINDERN, IAN
CC: SCHWING * KOHONOSKI * HALM * DOLLHOPF * TAYLOR * BISHOP
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/2013 THRU: 314/2055
NOTES: UPDATE 02

FILE: 1120201 DOCNO: 0120001 DATE: FEB. 26, 1987 PAGE: 2
TITLE: (NOTIFICATION OF TASKS CH2M HILL SHOULD BE WORKING ON BEFORE ASARCO MAKES ITS DECISION ON THEIR PARTICIPATION ON APR. 13)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LUCERO, JOHN/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/2056 THRU: 314/2057
NOTES: UPDATE 02

FILE: 1120203 DOCNO: 0120003 DATE: FEB. 20, 1987 PAGE: 4
TITLE: (OUTLINES) "EAST HELENA SMELTER RI/FS AND OVERSIGHT STATUS AS OF JAN. 31, 1987" (ATTACHED FINANCIAL STATUS GRAPHS)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/2058 THRU: 314/2061
NOTES: UPDATE 02

FILE: 1120203 DOCNO: 0120007 DATE: APR. 1987 PAGE: 6
TITLE: "REM 4 U.S. EPA REGION 8 MONTHLY SUMMARY REPORT APR. 1987 (MAR. 1987 REPORTING PERIOD)"
AUTHOR: /CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/2062 THRU: 314/2067
NOTES: UPDATE 02

FILE: 1120203 DOCNO: 0120013 DATE: APR. 24, 1987 PAGE: 3
TITLE: (OUTLINES) "EAST HELENA SMELTER (ASARCO) RI/FS AND RI OVERSIGHT MAJOR PROJECT ISSUES FOR MAR. 1987" (ATTACHED FINANCIAL STATUS GRAPHS)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/2068 THRU: 314/2070
NOTES: UPDATE 02

FILE: 1120203 DOCNO: 0120017 DATE: MAY 26, 1987 PAGE: 3
TITLE: (OUTLINES) "EAST HELENA SMELTER RI/FS AND ENFORCEMENT SUPPORT MAJOR PROJECT ISSUES FOR MAY 1987"
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/2071 THRU: 314/2073
NOTES: UPDATE 02

FILE: 1120203 DOCNO: 0120020 DATE: JUN. 1987 PAGE: 6
TITLE: "REM 4 U.S. EPA REGION 8 MONTHLY SUMMARY REPORT JUN. 1987"
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/2074 THRU: 314/2079
NOTES: UPDATE 02

FILE: 1120203 DOCNO: 0120026 DATE: JUN. 23, 1987 PAGE: 3
TITLE: (OUTLINES) "EAST HELENA SMELTER RI/FS ENFORCEMENT SUPPORT MAJOR PROJECT ISSUES FOR JUN. 1987" (ATTACHED FINANCIAL STATUS GRAPHS)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/2080 THRU: 314/2082
NOTES: UPDATE 02

FILE: 1120203 DOCNO: 0120029 DATE: JUL. 23, 1987 PAGE: 3
TITLE: (OUTLINES) "EAST HELENA SMELTER RI/FS AND ENFORCEMENT SUPPORT MAJOR PROJECT ISSUES FOR JUL. 1987" (ATTACHED FINANCIAL STATUS GRAPHS)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/2086 THRU: 314/2088
NOTES: UPDATE 02

FILE: 1120203 DOCNO: 0120032 DATE: JUL. 31, 1987 PAGE: 3
TITLE: "EAST HELENA SMELTER RI/FS AND ENFORCEMENT SUPPORT MAJOR PROJECT ISSUES FOR AUG. 1987"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/2083 THRU: 314/2085
NOTES: UPDATE 02

FILE: 1120205 DOCNO: 0120035 DATE: JAN. 27, 1989 PAGE: 1
TITLE: (EXPRESSES APPRECIATION FOR RESPONSE TO RECENT REVIEW OF ASARCO QAPP FOR AIR QUALITY MONITORING AT EAST HELENA SITE)
AUTHOR: BROWN, SCOTT/(EPA)
ADDRESSEE: BUNTE, DAVID J./CH2M HILL
CC: FINKE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1170801 * 1140000 * 1060300
MICROFILM ROLL/FRAME NO.: 314/2089 THRU: 314/2089
NOTES: UPDATE 02

FILE: 1120206 DOCNO: 0120036 DATE: 1984 (E) PAGE: 1
TITLE: WORKSHEET FOR CH2M HILL TASK ASSIGNMENT
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: FORM
MICROFILM ROLL/FRAME NO.: 314/2090 THRU: 314/2090
NOTES: UPDATE 02

FILE: 1120207 DOCNO: 0120037 DATE: DEC. 3, 1987 PAGE: 6
TITLE: WORK ASSIGNMENT FORM (WITH WORK PLAN REVISION REQUEST 8, DEC. 31, 1987 WORK ASSIGNMENT 68-8L30 FOR EAST HELENA)
AUTHOR: HANLEY, JAMES/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 314/2091 THRU: 314/2096
NOTES: UPDATE 02

FILE: 1120207 DOCNO: 0120042 DATE: DEC. 31, 1987 PAGE: 2
TITLE: WORK ASSIGNMENT FORM (EPA CONTRACT 68-01-7251, WORK ASSIGNMENT 68-8130 FOR EAST HELENA)
AUTHOR: HANLEY, DAVID/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 314/2097 THRU: 314/2098
NOTES: UPDATE 02

FILE: 1120207 DOCNO: 0120044 DATE: FEB. 19, 1988 PAGE: 4
TITLE: WORK ASSIGNMENT FORM (CONTRACT 68-01-7251, WORK ASSIGNMENT 73-8630 FOR EAST HELENA; ATTACHED FEB. 19, 1988 TECHNICAL DIRECTION MEMO WORK ASSIGNMENT 73-8630.0 EAST HELENA [ASARCO])
AUTHOR: /EPA * BUNTE, DAVID/CH2M HILL * BROWN, D. SCOTT/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 314/2099 THRU: 314/2102
NOTES: UPDATE 02

FILE: 1120207 DOCNO: 0120048 DATE: FEB. 19, 1988 PAGE: 4
TITLE: WORK ASSIGNMENT FORM (ATTACHED TECHNICAL DIRECTION MEMO CONCERNING FEB. 19, 1988 WORK ASSIGNMENT 73-8630.0 FOR EAST HELENA [ASARCO])
AUTHOR: /EPA * BUNTE, DAVID/CH2M HILL * BROWN, D.SCOTT/EPA * HANLEY,JAMES/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/2103 THRU: 314/2106
NOTES: UPDATE 02

FILE: 1120207 DOCNO: 0120052 DATE: SEP. 10, 1988 PAGE: 2
TITLE: WORK ASSIGNMENT FORM (EPA CONTRACT 68-01-7251, WORK ASSIGNMENT 73-8630 FOR EAST HELENA)
AUTHOR: BROWN, D. SCOTT/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 314/2107 THRU: 314/2108
NOTES: UPDATE 02

FILE: 1120207 DOCNO: 0120054 DATE: SEP. 12, 1988 PAGE: 1
TITLE: WORK ASSIGNMENT FORM (EPA CONTRACTOR 68-01-7251, WORK ASSIGNMENT 73-8630 FOR EAST HELENA)
AUTHOR: BROWN, D. SCOTT/EPA * BUNTE, DAVID/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 314/2109 THRU: 314/2109
NOTES: UPDATE 02

FILE: 1120207 DOCNO: 0120055 DATE: SEP. 26, 1987 PAGE: 4
TITLE: WORK ASSIGNMENT FORM (EPA CONTRACTOR 68-01-7251, WORK ASSIGNMENT 68.8L30; ATTACHED TECHNICAL DIRECTION MEMO FOR EAST HELENA)
AUTHOR: /EPA * BUNTE, DAVID/CH2M HILL * BROWN, D. SCOTT/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 314/2110 THRU: 314/2113
NOTES: UPDATE 02

FILE: 1120209 DOCNO: 0120058 DATE: AUG. 1987 PAGE: 2
TITLE: ESD/REM COORDINATION REPORT
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/2114 THRU: 314/2115
NOTES: UPDATE 02

FILE: 1120300 DOCNO: 0190596 DATE: SEP. 1989 PAGE: 7
TITLE: (ARCS CONTRACT SOW)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/2116 THRU: 314/2122
NOTES: UPDATE 02

FILE: 1120300 DOCNO: 424513 DATE: APR. 21, 1993 PAGE: 1
TITLE: (COMMENDS BLUCK FOR SUPERIOR MANAGEMENT AND TECHNICAL ASSISTANCE)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: ULRICH, H. DONALD/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0265 THRU: 627/0265
NOTES: UPDATE 07

FILE: 1120301 DOCNO: 0120060 DATE: OCT. 26, 1988 PAGE: 25
TITLE: (INFORMATION ON WRITING SCOPES OF WORK UNDER ARCS CONTRACT; ATTACHED ROUTING SLIP)
AUTHOR: KATHY
ADDRESSEE: SCOTT
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/2123 THRU: 314/2147
NOTES: UPDATE 02

FILE: 1120302 DOCNO: 0120085 DATE: DEC. 21, 1988 PAGE: 1
TITLE: (LIST OF ARCS CONTRACTORS AND TEAM SUBCONTRACTORS)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 314/2148 THRU: 314/2148
NOTES: UPDATE 02

FILE: 1120302 DOCNO: 0120086 DATE: FEB. 16, 1989 PAGE: 2
TITLE: (ARCS AND REM TWO NOTES ON BUDGETS AND CONTRACTORS)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 314/2149 THRU: 314/2150
NOTES: UPDATE 02

FILE: 1120302 DOCNO: 0200586 DATE: APR. 3, 1990 PAGE: 2
TITLE: (RESUME OF BLUCK)
AUTHOR: BLUCK, WILLARD V.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: RESUME
MICROFILM ROLL/FRAME NO.: 314/2151 THRU: 314/2152
NOTES: UPDATE 02

FILE: 1120302 DOCNO: 0200588 DATE: APR. 9, 1990 PAGE: 1
TITLE: (REQUEST TO RETAIN SITE FILES AT CH2M HILL)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: BUNTE, DAVID (J.)/CH2M HILL
CC: MULLIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/2153 THRU: 314/2153
NOTES: UPDATE 02

FILE: 1120600 DOCNO: 465662 DATE: OCT. 8, 2003 PAGE: 2
TITLE: (JUL.- SEP. 2003 QUARTERLY PROGRESS REPORT)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BROWN, SCOTT/EPA
CC: CHIOTTI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0542 THRU: 1594/0543
NOTES: UPDATE 28

FILE: 1130000 DOCNO: 465664 DATE: NOV. 3, 2003 PAGE: 2
TITLE: (FORWARDS INCLUDED OCT. 31, 2003 BRATTIN TO BROWN EMAIL REGARDING FORWARDED RAW DATA)
AUTHOR: SPENCE, MICHAEL/(MONTANA DEPARTMENT OF PUBLIC HEALTH)
ADDRESSEE: BROWN, SCOTT/EPA * STRAUSBAUGH, DAN/EPA
CC: BOWSHER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1594/0544 THRU: 1594/0545
NOTES: UPDATE 28

FILE: 1130000 DOCNO: 465665 DATE: NOV. 3, 2003 PAGE: 2
TITLE: (COMMENTS ON DATA REVIEW AND FORWARDS INCLUDED OCT. 31, 2003 BRATTIN TO BROWN EMAIL REGARDING FORWARDED RAW DATA)
AUTHOR: SPENCE, MICHAEL/(MONTANA DEPARTMENT OF PUBLIC HEALTH)
ADDRESSEE: BROWN, SCOTT/EPA * STRAUSBAUGH, DAN/EPA
CC: BOWSHER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1594/0546 THRU: 1594/0547
NOTES: UPDATE 28

FILE: 1130100 DOCNO: 0120088 DATE: MAY 6, 1988 PAGE: 6
TITLE: STATUS REPORT AND SUMMARY OF OPTIONS AOC (ATTACHED LIST CONCERNING MONTANA ENFORCEMENT AUTHORITY)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 314/2154 THRU: 314/2159
NOTES: UPDATE 02

FILE: 1130100 DOCNO: 0120094 DATE: MAY 10, 1988 PAGE: 7
TITLE: (TELEPHONE CONVERSATION NOTES CONCERNING EAST HELENA AO. COOP AGREEMENT; ATTACHED ADDITIONAL NOTES ON SAME SUBJECT MAY 4 AND 9, 1988)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 314/2160 THRU: 314/2166
NOTES: UPDATE 02

FILE: 1130100 DOCNO: 0120101 DATE: JUN. 7, 1988 PAGE: 80
TITLE: (TRANSMITS AND COMMENTS ON ATTACHED RE-DRAFTED "ADMINISTRATIVE ORDER ON CONSENT [AOC], ANACONDA SMELTER SITE REMEDIAL INVESTIGATION/FEASIBILITY, STUDY [RI/FS]")
AUTHOR: SCHERER, JAMES J./EPA
ADDRESSEE: DRYNAN, JOHN/MDHES
CC: CROWLEY * DUPREY * WARDELL * SPEICHER
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 314/2167 THRU: 314/2246
NOTES: UPDATE 02

FILE: 1130100 DOCNO: 0120181 DATE: AUG. 9, 1988 PAGE: 57
TITLE: (TRANSMITS ATTACHED INDEPENDENT LEGAL COUNSEL STATEMENT: SUFFICIENCY OF LEGAL AUTHORITIES)
AUTHOR: CROWLEY, FRANK C./MDHES
ADDRESSEE: SPEICHER, THOMAS A./EPA
CC: DRYNAN * SCHUNK
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 314/2247 THRU: 314/2303
NOTES: UPDATE 02

FILE: 1130300 DOCNO: 0190603 DATE: AUG. 23, 1989 PAGE: 1
TITLE: (STATES MULLEN IS NEW PROJECT COORDINATOR FOR EAST HELENA)
AUTHOR: MULLEN, GREGORY/MDHES
ADDRESSEE: NICKEL, JON/ASARCO * LEAP, CYNTHIA S./HOLLAND AND HART * BROWN, SCOTT/EPA * MORENO, SANDRA/EPA
CC: ROBERTSON * EGGERT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 314/2304 THRU: 314/2304
NOTES: UPDATE 02

FILE: 1130300 DOCNO: 465666 DATE: APR. 10, 2003 PAGE: 2
TITLE: "NORTHERN PACIFIC RESERVOIR DAM MEETING MINUTES"
AUTHOR: LEMIEUX, MICHELE/DNRC
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1594/0548 THRU: 1594/0549
NOTES: UPDATE 28

FILE: 1140000 DOCNO: 0120281 DATE: 1984 (E) PAGE: 1
TITLE: TABLE 22 AQCR 142-LEAD-QUARTERLY MICROGRAMS PER CUBIC METER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: DATA
CROSS FILE(S):1060706
MICROFILM ROLL/FRAME NO.: 315/0002 THRU: 315/0002
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0120282 DATE: OCT. 12, 1988(E) PAGE: 13
TITLE: "MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES (MDHES) CHEMISTRY LABORATORY BUREAU HI-VOL DIGESTION PROCEDURE FOR ANALYSIS OF TRACE METALS" (ATTACHED PORTION OF HELENA VALLEY AREA ENVIRONMENTAL POLLUTION STUDY JAN. 1972)
AUTHOR: /MDHES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070400
MICROFILM ROLL/FRAME NO.: 315/0003 THRU: 315/0015
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0120295 DATE: MAY 1980 PAGE: 117
TITLE: "EMISSION MEASUREMENT AT THE ASARCO LEAD SMELTER IN EAST HELENA, MONTANA 2. RESULTS, CALCULATIONS AND APPENDIXES"
AUTHOR: /PACIFIC ENVIRONMENTAL SERVICES
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 315/0016 THRU: 315/0132
KEYWORD(S): ZINC * COPPER * CADMIUM * ARSENIC * SILVER * LEAD
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0120412 DATE: MAY 1980 PAGE: 6
TITLE: "EMISSION MEASUREMENTS AT THE ASARCO LEAD SMELTER IN EAST HELENA, MONTANA 1. EXECUTIVE SUMMARY AND CONCLUSIONS"
AUTHOR: /PACIFIC ENVIRONMENTAL SERVICES
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 315/0133 THRU: 315/0138
KEYWORD(S): ZINC * ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0120418 DATE: SEP. 1984 PAGE: 201
TITLE: "AIR QUALITY CRITERIA FOR LEAD" (VOL. 1 OF 4 REVIEW DRAFT)
AUTHOR: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060706
MICROFILM ROLL/FRAME NO.: 315/0139 THRU: 315/0339
KEYWORD(S): ZINC * LEAD * SOIL * DUST * AIR
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0120619 DATE: FEB. 1986 PAGE: 331
TITLE: "REVIEW OF THE NATIONAL AMBIENT AIR QUALITY STANDARDS FOR LEAD: ASSESSMENT OF SCIENTIFIC AND TECHNICAL INFORMATION, OFFICE OF AIR QUALITY PLANNING AND STANDARDS [OAQPS] DRAFT STAFF PAPER"
AUTHOR: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060706
MICROFILM ROLL/FRAME NO.: 315/0340 THRU: 315/0670
KEYWORD(S): LEAD * SOIL * DUST * AIR
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0120950 DATE: OCT. 13, 1987 PAGE: 36
TITLE: (TRANSMITS ATTACHED AGENDA OCT. 29, 1987 MEETING, SUMMARIES OF 1987 AMBIENT DATA AND CHEMICAL MASS BALANCE RESULTS, EXISTING EAST HELENA LEAD SIP)
AUTHOR: RAISCH, BOB/MDHES
ADDRESSEE: SINNOTT, JAY/EPA * PORTER, WILLIAM H./AMERICAN CHEMET * BLACKER, JOHN/MDOT * MOORE, LARRY * NICKEL, JON/ASARCO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 315/0671 THRU: 315/0706
KEYWORD(S): DUST * SLAG * ZINC * LEAD
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0120986 DATE: NOV. 1, 1987 PAGE: 68
TITLE: "DRAFT CERCLA COMPLIANCE WITH OTHER LAWS MANUAL VOL. 3 CLEAN AIR ACT AND OTHER ENVIRONMENTAL STATUTES"
AUTHOR: /EPA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1050200
MICROFILM ROLL/FRAME NO.: 315/0707 THRU: 315/0774
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0121054 DATE: APR. 28, 1988 PAGE: 22
TITLE: (AIR QUALITY INFORMATION FROM APR. 28, 1988 AIR QUALITY MEETING)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/0775 THRU: 315/0796
KEYWORD(S): DUST * AIR
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0121076 DATE: OCT. 24, 1988 PAGE: 26
TITLE: (TRANSMITS ATTACHED AGENDA FOR EAST HELENA SIP MEETING, LETTER TO GOVERNOR SCHWINDEN PROVIDING OFFICIAL NOTICE EPA IS REQUIRING MONTANA TO REVISE EAST HELENA SIP; OCT. 14, 1988 PROTOCOL FOR REVISING EAST HELENA SIP; RULES AND REGULATIONS FROM FEDERAL REGISTER)
AUTHOR: RAISCH, BOB/MDHES
ADDRESSEE: ROGNESS, DOUG/MDHES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 315/0797 THRU: 315/0822
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0121102 DATE: NOV. 16, 1988 PAGE: 29
TITLE: (TRANSMITS ATTACHED ATTENDANCE LIST, MEETING AGENDA, OCT. 1, 1988 LETTER FROM SCHERER TO GOVERNOR SCHWINDEN, FEDERAL REGISTER OUTLINING SIP REQUIREMENTS, DRAFT PROTOCOL FOR REVISING THE EAST HELENA LEAD SIP)
AUTHOR: RAISCH, BOB/MDHES
ADDRESSEE: /FILES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 315/0823 THRU: 315/0851
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0121131 DATE: JAN. 9, 1989 PAGE: 3
TITLE: (CONFERENCE CALL WITH DEAN C., OSTRAND, KOMP, HANLEY AND NOTAR CONCERNING SIP; COMMENTS ON CALL)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN * RESIDENTIAL SOILS
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 315/0852 THRU: 315/0854
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0121134 DATE: FEB. 22, 1989 PAGE: 4
TITLE: (DENNIS COMMENTS ON QAPP GUIDANCE DOCUMENT MAR. 1988)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 315/0855 THRU: 315/0858
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0121138 DATE: MAR. 1989 PAGE: 146
TITLE: "QUALITY ASSURANCE PROJECT PLAN (QAPP) FOR AIR QUALITY MONITORING ASARCO, EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM MASON)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 315/0859 THRU: 315/1004
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0161727 DATE: FEB. 10, 1989 PAGE: 2
TITLE: (AIR QUALITY ISSUES AND ENDANGERMENT ASSESSMENT)
AUTHOR: HALM, JUDY/MDHES
ADDRESSEE: GILMAN, JAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060700
MICROFILM ROLL/FRAME NO.: 315/1005 THRU: 315/1006
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * MANGANESE * LEAD * SELENIUM * ZINC
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0161729 DATE: FEB. 22, 1989 PAGE: 1
TITLE: (AIR QUALITY ISSUES AND ENDANGERMENT ASSESSMENT)
AUTHOR: /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: DATA
CROSS FILE(S):1060700
MICROFILM ROLL/FRAME NO.: 315/1007 THRU: 315/1007
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0161730 DATE: MAR. 6, 1989 PAGE: 2
TITLE: (COMMENTS AND APPROVAL ON QAPP FOR AIR QUALITY MONITORING AT EAST HELENA SMELTER SITE)
AUTHOR: MACRAE, GORDON R./EPA
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 315/1008 THRU: 315/1009
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0161732 DATE: MAR. 10, 1989 PAGE: 17
TITLE: (TRANSMITS ATTACHED SUMMARY COMMENTS RELATED TO EPA POSITION ON AIR QUALITY ISSUES, MONTANA LEAD SIP FOR EAST HELENA)
AUTHOR: SKIE, DOUGLAS M./EPA
ADDRESSEE: CHAFFEE, JEFFREY T./MDHES
CC: CHAUSSEE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 315/1010 THRU: 315/1026
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0161749 DATE: APR. 12, 1989 PAGE: 195
TITLE: (TRANSMITS ATTACHED SAMPLE DATA PACKAGE FOR EAST HELENA HIGH-VOLUME AIR QUALITY RESULTS AUG. 7, 1986 AND JUL. 2, 1987 - JUN. 29, 1988; ATTACHED RI/FS MONITORING INFORMATION)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 315/1027 THRU: 315/1221
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * MANGANESE * SELENIUM * ZINC * LEAD
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0161945 DATE: APR. 19, 1989 PAGE: 2
TITLE: (TRANSMITS ATTACHED CORRECTION OF 1 REPORT FORM (89-1286) FROM APR. 12 AQ MONITORING PACKAGES)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA * BUNTE * BROWN * KIRLEY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 315/1222 THRU: 315/1223
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 161947 DATE: APR. 20, 1989 PAGE: 1
TITLE: REVISED NAAQS FOR LEAD AIR QUALITY ISSUES
AUTHOR: OSTRAND, LAURIE/EPA
ADDRESSEE: SKIE, DOUG/EPA * GILLAM, DEAN/EPA
CC: MONTGOMERY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 315/1224 THRU: 315/1224
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0161948 DATE: MAY 26, 1989 PAGE: 2
TITLE: (COMMENTS ON PROPOSED PERMIT FOR ASARCO CONCENTRATE STORAGE AND HANDLING BUILDING)
AUTHOR: SKIE, DOUGLAS M./EPA
ADDRESSEE: CHAFFEE, JEFFREY T./MDHES
CC: MONTGOMERY * BRYAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 315/1225 THRU: 315/1226
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0192177 DATE: MAY 1989 PAGE: 53
TITLE: "VALIDATION SUMMARY OF AIR QUALITY DATA ASARCO, INCORPORATED, EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM MASON)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1227 THRU: 315/1279
KEYWORD(S): ARSENIC * CADMIUM * MANGANESE * MERCURY * SELENIUM * IRON
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0192230 DATE: JAN. 2, 1990 PAGE: 21
TITLE: REVISED AIR TOXICS EXPOSURE AND RISK INFORMATION SYSTEMS (ATERIS) ESTIMATES
AUTHOR: FARMER, JACK R./EPA
CC: EMISON * /AIR TOXIC COORDINATORS REGION 1-10
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060704
MICROFILM ROLL/FRAME NO.: 315/1280 THRU: 315/1300
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0192251 DATE: MAR. 5, 1990 PAGE: 3
TITLE: (SUMMARY OF AIR QUALITY MONITORING DATA FOR 1987 - 1989)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * HANDWRITTEN * RESIDENTIAL SOILS
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 315/1301 THRU: 315/1303
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0200589 DATE: NOV. 30, 1989 PAGE: 10
TITLE: (DISCUSSES AIR QUALITY ISSUES, STATE IMPLEMENTATION PLAN FOR REDUCING LEAD EMISSIONS WITH WORKPLAN ATTACHMENTS 1, 2 AND ATTACHMENT 3 SCHEDULE)
AUTHOR: DICKSTEIN, IRWIN L./EPA
ADDRESSEE: CHAFFEE, JEFFREY T./MDHES
CC: SVOBODA * FINKE * BRYAN * BROWN * KOMP * MORENO * MULLEN * BUNTE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 315/1304 THRU: 315/1313
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0211832 DATE: 1977(E) PAGE: 1
ATTACHED DOC(S): 0211833 THRU: 0211911
TITLE: (ACID PLANT SULPHUR BALANCE INFORMATION)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 315/1314 THRU: 315/1314
KEYWORD(S): ZINC
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0211833 DATE: MAY 19, 1978 PAGE: 1
ATTACHED TO: 0211832
TITLE: (RESPONSE TO EPA 104 AND 106 REQUESTS CONCERNING ZINC PLANT)
AUTHOR: LANE, STANLEY/ASARCO
ADDRESSEE: KELTZ, HARRY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 315/1315 THRU: 315/1315
KEYWORD(S): LEAD * ZINC * AIR POLLUTION STANDARDS * ASARCO
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0211834 DATE: DEC. 23, 1980 PAGE: 2
ATTACHED TO: 0211832
TITLE: (TRANSMITS EMISSION INVENTORY DATA)
AUTHOR: DESANTIS, P. A./ASARCO
ADDRESSEE: ROBBINS, H./MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 315/1316 THRU: 315/1317
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0211836 DATE: NOV. 4, 1980 PAGE: 1
ATTACHED TO: 0211832
TITLE: ASARCO VISIT ON OCT. 30, 1980 WITH EPA CONTRACTORS FROM RADIAN, MRI AND PEDCO
AUTHOR: DAVENPORT, MICHAEL/EPA
ADDRESSEE: /FILES
CC: ROBBINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 315/1318 THRU: 315/1318
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0211837 DATE: JUL. 22, 1980 PAGE: 11
ATTACHED TO: 0211832
TITLE: (DISCUSSES PARTICULATE AND LEAD STACK TEST AT ASARCO LEAD SMELTER, EAST HELENA SEP. 20-29, 1979)
AUTHOR: DAVENPORT, MICHAEL/EPA
ADDRESSEE: /FILES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 315/1319 THRU: 315/1329
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0211848 DATE: 1978 (E) PAGE: 7
ATTACHED TO: 0211832
TITLE: DRAFT "EMISSION MEASUREMENTS AT THE ASARCO LEAD SMELTERS IN EAST HELENA, MONTANA: 2. RESULTS, CALCULATIONS AND APPENDIXES"
AUTHOR: /PACIFIC ENVIRONMENTAL SERVICES
ADDRESSEE: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1330 THRU: 315/1336
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0211855 DATE: MAY 3, 1972 PAGE: 41
ATTACHED TO: 0211832
TITLE: (TRANSMITS ATTACHED INFORMATION REGARDING EMISSION STANDARDS AT ANACONDA, GREAT FALLS AND EAST HELENA SMELTER OPERATIONS)
AUTHOR: WEED, ROBERT C./ANACONDA COMPANY
ADDRESSEE: GOODWIN, DON R./EPA
CC: RUCKELSHAUS * ANDREWS * GREEN * ANDERSON * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 315/1337 THRU: 315/1377
KEYWORD(S): ZINC * AIR POLLUTION STANDARDS
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 0211896 DATE: FEB. 1990 PAGE: 17
ATTACHED TO: 0211832
TITLE: "CONTROL OF FUGITIVE EMISSIONS FROM THE LEAD SMELTING INDUSTRY" (ATTACHED TRANSMITTAL FROM PAINE)
AUTHOR: PAINE, PETER J.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060706
MICROFILM ROLL/FRAME NO.: 315/1378 THRU: 315/1394
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1140000 DOCNO: 402749 DATE: MAR. 22, 1991 PAGE: 1
ATTACHED DOC(S): 402750
TITLE: (TRANSMITS AND COMMENTS ON ASARCO REPORT ON ACID PLANT MALFUNCTION OF MAR. 18, 1991)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * MULLEN, GREG/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0348 THRU: 415/0348
NOTES: UPDATE 03

FILE: 1140000 DOCNO: 402750 DATE: MAR. 22, 1991 PAGE: 18
ATTACHED TO: 402749
TITLE: (REPORT OF MAR. 18, 1991 ACID PLANT MALFUNCTION; ATTACHED REPAIR WORK ORDERS AND EMISSION DOCUMENTATION)
AUTHOR: COBLE, TERRY D./ASARCO
ADDRESSEE: CHAFFEE, JEFFREY T./MDHES
CC: DAVIS * LITLE * NICKEL * PHILLIPS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0349 THRU: 415/0366
KEYWORD(S): AIR POLLUTION STANDARDS
NOTES: UPDATE 03

FILE: 1140000 DOCNO: 402751 DATE: MAR. 22, 1991 PAGE: 19
TITLE: (TRANSMITS ATTACHED MAR. 22 LETTER TO J. CHAFFEE INFORMING MDHES OF SULPHUR TRIOXIDE MALFUNCTION AND ASARCO RESPONSE ACTIONS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * MULLEN, GREG/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0367 THRU: 415/0385
NOTES: UPDATE 03

FILE: 1140000 DOCNO: 402965 DATE: DEC. 27, 1990 PAGE: 2
ATTACHED DOC(S): 402966
TITLE: (COMMENTS REGARDING TELEPHONE CONVERSATION WITH SCHNEIDER ABOUT STATE AIR QUALITY BUREAU SAMPLES OF DUST FROM STREETS, ALLEYS, LOTS IN AND NEAR EAST HELENA)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 436/0152 * 320/0354 THRU: 436/0153 * 320/0354
NOTES: UPDATE 04 * UPDATE 02

FILE: 1140000 DOCNO: 402966 DATE: DEC. 20, 1990 PAGE: 2
ATTACHED TO: 402965
TITLE: (TRANSMITS ATTACHED EAST HELENA LEAD ANALYSIS OF STREET AND GRAB SAMPLES, THIRD AND FOURTH QUARTERS 1990)
AUTHOR: SCHNEIDER, JERRY/MDHES
ADDRESSEE: MULLAN (MULLEN), GREG
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 436/0154 * 320/0355 THRU: 436/0155 * 320/0356
NOTES: UPDATE 04 * UPDATE 02

FILE: 1140000 DOCNO: 402967 DATE: JUL. 31, 1991 PAGE: 78
TITLE: (TRANSMITS ATTACHED REPORT TO STATE AIR QUALITY BUREAU CONCERNING UPSETS FROM STACKS AT ACID PLANT)
AUTHOR: COBLE, T. D./ASARCO
ADDRESSEE: CHAFFEE, JEFFREY T./MDHES
CC: BROWN * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0156 THRU: 436/0233
NOTES: UPDATE 04

FILE: 1140000 DOCNO: 424053 DATE: DEC. 3, 1992 PAGE: 4
TITLE: (DISCUSSES PROBABLE SOURCES OF SOIL CONTAMINATION AT EAST HELENA SITE; ATTACHED NOTE TO FILE FROM BROWN)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 581/0645 THRU: 581/0648
KEYWORD(S): LEAD * ARSENIC * CADMIUM * ZINC
NOTES: UPDATE 06

FILE: 1140000 DOCNO: 425855 DATE: 1992 (E) PAGE: 2
TITLE: (DRAFT TABLE DEPICTING STACK EMISSIONS EAST HELENA SMELTER)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 737/0377 THRU: 737/0378
NOTES: UPDATE 09

FILE: 1140000 DOCNO: 434617 DATE: SEP. 8, 1994 PAGE: 2
TITLE: (DISCUSSES CERCLA LIABILITY ASSOCIATED WITH IMPROPER DISPOSAL OF MATERIALS COLLECTED BY EAST HELENA STREET SWEEPERS)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: RAISCH, BOB/MDHES
CC: MADDEN * BROWN * WALLACE * LUKAS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0379 THRU: 737/0380
NOTES: UPDATE 09

FILE: 1140000 DOCNO: 465389 DATE: DEC. 10, 2001 PAGE: 1
TITLE: (DISCUSSES MANLOVE AMBIENT AIR MONITORING SITE OPERATIONS DISCONTINUING JAN. 1, 2002)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: JEFFERY * ERP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1407/0023 THRU: 1407/0023
NOTES: UPDATE 24

FILE: 1140100 DOCNO: 0221031 DATE: SEP. 18, 1990 PAGE: 7
TITLE: (TRANSMITS ATTACHED AIR QUALITY MONITORING AMBIENT TSP LEAD DATA JAN. 1989 - JUN. 1990)
AUTHOR: COEFIELD, JOHN/MDHES
ADDRESSEE: INTERESTED PERSONS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 314/1165 THRU: 314/1171
NOTES: UPDATE 02

FILE: 1140100 DOCNO: 402968 DATE: 1991(E) PAGE: 68
TITLE: (PACKAGE FROM REVIEW OF AIR QUALITY MONITORING RESULTS, SOURCES OF EMISSIONS, MODELING AND FINGERPRINTING)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 436/0234 THRU: 436/0301
KEYWORD(S): LEAD * ZINC * AIR
NOTES: UPDATE 04

FILE: 1140100 DOCNO: 416471 DATE: DEC. 16, 1991 PAGE: 1
TITLE: (ADDENDUM TO PROGRESS REPORT 5) (THIS CROSS FILED DOCUMENT IS LOCATED IN 4070200/416434)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0302 THRU: 436/0302
KEYWORD(S): LEAD
NOTES: UPDATE 04

FILE: 1140100 DOCNO: 424514 DATE: OCT. 12, 1993 PAGE: 37
TITLE: (LEWIS AND CLARK COUNTY 1980-93 ALL MONITORS ALL SITES POINT SOURCE EMISSION INVENTORY)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 627/0266 THRU: 627/0302
KEYWORD(S): CADMIUM * AIR
NOTES: UPDATE 07

FILE: 1150000 DOCNO: 0121284 DATE: NOV. 1983 PAGE: 10
TITLE: "INDEPENDENT PEER REVIEW OF SELECTED STUDIES BY DRS. KIRCHFESSNER AND REICHLMAYRLAIS CONCERNING THE POSSIBLE NUTRITIONAL ESSENTIALITY OF LEAD: OFFICIAL REPORT OF FINDINGS AND RECOMMENDATIONS OF AN INTERDISCIPLINARY EXPERT REVIEW COMMITTEE"
AUTHOR: /EXPERT COMMITTEE ON TRACE METAL ESSENTIALITY
ADDRESSEE: GRANT, LESTER D./EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1395 THRU: 315/1404
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121292 DATE: NOV. 1983 PAGE: 10
TITLE: "INDEPENDENT PEER REVIEW OF SELECTED STUDIES BY DRS. KIRCHFESSNER AND REICHLMAYRLAIS CONCERNING THE POSSIBLE NUTRITIONAL ESSENTIALITY OF LEAD"
AUTHOR: /EXPERT COMMITTEE ON TRACE METAL ESSENTIALITY
ADDRESSEE: GRANT, LESTER D./EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1405 THRU: 315/1414
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121302 DATE: MAY 15, 1984 PAGE: 3
TITLE: "ASSESSMENT OF POTENTIAL HEALTH EFFECTS FROM HEAVY METAL CONTAMINATIONS OF FOOD PRODUCTS IN ANACONDA, MONTANA"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060702
MICROFILM ROLL/FRAME NO.: 315/1415 THRU: 315/1417
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121305 DATE: NOV. 1984 PAGE: 83
TITLE: "TOXICITY PERSISTENCE IN PRICKLY PEAR CREEK, MONTANA"
AUTHOR: BAKER, JOHN R./LOCKHEED ENGINEERING * BALDIGO, BARRY P./LOCKHEED ENGINEERING
ADDRESSEE: /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060800 * 1030300
MICROFILM ROLL/FRAME NO.: 315/1418 THRU: 315/1501
KEYWORD(S): CADMIUM * LEAD * ZINC * COPPER * SILVER * ARSENIC
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121388 DATE: JAN. 1986 PAGE: 2
TITLE: "ACUTE AND CHRONIC EFFECTS OF WATER QUALITY CRITERIA BASED METAL MIXTURES ON THREE AQUATIC SPECIES"
AUTHOR: SPEHAR, R.L./EPA * FIANDT, J.T./EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1502 THRU: 315/1503
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121390 DATE: JUN. 1986 PAGE: 2
TITLE: "EVALUATION OF SITE-SPECIFIC CRITERIA FOR COPPER AND ZINC: AN INTEGRATION OF METAL ADDITION TOXICITY EFFLUENT AND RECEIVING WATER TOXICITY, AND ECOLOGICAL SURVEY DATA"
AUTHOR: CARLSON, ANTHONY/EPA * NELSON, HENRY/EPA * HAMMERMEISTER, DEAN/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1504 THRU: 315.1505
KEYWORD(S): COPPER * ZINC
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121392 DATE: SEP. 1986 PAGE: 147
TITLE: "MOBILE TREATMENT TECHNOLOGIES FOR SUPERFUND WASTES" (ATTACHED TRANSMITTAL FROM WHITE)
AUTHOR: /CDM
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1506 THRU: 315/1652
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121539 DATE: OCT. 1986 PAGE: 6
TITLE: "SUPERFUND PUBLIC HEALTH EVALUATION MANUAL" (PART OF OSWER DIRECTIVE 9285, 4-1; ATTACHED MEMO FROM THOMAS TO KAY AND REGIONAL ADMINISTRATORS SETTING FORTH GUIDANCE IN ESTABLISHING ALTERNATE CONCENTRATION LIMITS)
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1653 THRU: 315/1658
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121545 DATE: JAN. 1987 PAGE: 2
TITLE: "AIR POLLUTION IMPACTS WHEN QUENCHING BLAST FURNACE SLAG WITH CONTAMINATED WATER"
AUTHOR: ANNAMRAJU, GOPAL/EPA * SCHWORER, P. J./EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 315/1659 THRU: 315/1660
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121547 DATE: MAY 1987 PAGE: 31
TITLE: BIOMONITORING PROGRAM INFORMATION FROM MISSOULA MAY 21-JUN. 2, 1987 (INCLUDES REQUEST FOR ASSISTANCE, SCHEDULING AND "STUDY PLAN FOR AMMONIA AND CHLORINE TOXICITY TESTS OF MISSOULA WASTEWATER TREATMENT PLANT AND CLARK FORK RIVER NEAR MISSOULA, MONTANA")
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1661 THRU: 315/1691
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121578 DATE: MAY 26, 1987 PAGE: 1
TITLE: GENERAL PLANT WATER SYSTEM MAP
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 315/1692 THRU: 315/1692
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121579 DATE: JUN. 25, 1987 PAGE: 54
TITLE: (TRANSMITS ATTACHED THE HAZARDOUS WASTE SYSTEM)
AUTHOR: PORTER, J. WINSTON/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 315/1693 THRU: 315/1746
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121633 DATE: JUN. 30, 1987 PAGE: 15
TITLE: DRAFT "A STANDING WAVE IN STABLE DRAINAGE FLOW INDUCED BY A SMALL INDUSTRIAL FACILITY"
AUTHOR: SPANGLER, T. C./NORTHERN ILLINOIS UNIVERSITY * SHANOT, A. J./NATIONAL CENTER FOR ATMOSPHERIC RESEARCH
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1747 THRU: 315/1761
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121648 DATE: AUG. 1987 PAGE: 12
TITLE: "RECENT DEVELOPMENTS IN THE REGULATION OF METALLIFEROUS MINING, MILLING, SMELTING AND REFINING WASTES UNDER FEDERAL SOLID AND HAZARDOUS WASTE MANAGEMENT LAWS" (ARTICLE IN NATIONAL ENVIRONMENTAL ENFORCEMENT JOURNAL)
AUTHOR: CALLAWAY, REX/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 315/1762 THRU: 315/1773
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121660 DATE: NOV. 1987 PAGE: 7
TITLE: "INVESTIGATION OF SLURRY CUTOFF WALL DESIGN AND CONSTRUCTION METHODS FOR CONTAINING HAZARDOUS WASTES"
AUTHOR: MCCANDLESS, RICHARD/EPA * BODOSCI, ANDREW/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1774 THRU: 315/1780
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121711 DATE: 1984 (E) PAGE: 15
TITLE: "TRACE ELEMENTS REMOVAL FROM POWER PLANT WASTESTREAMS BY ADSORPTION/COPRECIPITATION WITH AMORPHOUS IRON OXYHYDROXIDE"
AUTHOR: LECKIE, JAMES O./STANFORD UNIVERSITY * MERRILL, DOUGLAS T./BROWN AND COLDWELL * CHOW, WINSTON/ELECTRIC POWER RESEARCH INSTITUTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1825 THRU: 315/1839
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * LEAD * SELENIUM * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121726 DATE: 1975 (E) PAGE: 1
TITLE: (TARGET CONSTITUENTS INCLUDED IN ANALYSES PERFORMED BY MBMG LABORATORY)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 315/1840 THRU: 315/1840
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121727 DATE: 1975 (E) PAGE: 11
TITLE: "ASSESSMENT AND MANAGEMENT OF RISK FROM DEMOLITION ACTIVITIES AT THE ANACONDA SMELTER, ANACONDA, MONTANA" (CRITERIA FOR SALE OF CONTAMINATED MATERIALS)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1841 THRU: 315/1851
KEYWORD(S): DUST * ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121738 DATE: 1975 (E) PAGE: 20
TITLE: (APPENDIX 1 GREAT FALLS (STUDY OBJECTIVES, AREA, AND PLAN; LIST OF SAMPLING SITES AND TYPES; SITE LOCATION AND DESCRIPTION; LIST OF CONSTITUENTS TO BE ANALYZED; APPENDIX 2 ANACONDA)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1852 THRU: 315/1871
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121758 DATE: 1975 (E) PAGE: 11
TITLE: "ANACONDA SMELTING FACILITY SOIL/CROP HEAVY METAL INVESTIGATION"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1872 THRU: 315/1882
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121769 DATE: 1980 (E) PAGE: 17
TITLE: "ATTACHMENT 1: STUDIES ON LEAD FACILITIES IN REGION 6/EXPOSURE MODEL"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1883 THRU: 315/1899
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121786 DATE: 1980 (E) PAGE: 7
TITLE: "LEAD" (DESCRIPTION, ROUTES OF EXPOSURE, METABOLISM AND HEALTH EFFECTS)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1900 THRU: 315/1906
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121793 DATE: JUN. 19, 1975 PAGE: 29
TITLE: DRAFT "COMPLIANCE PROGRAM EVALUATION FISCAL YEAR 1974 HEAVY METALS IN FOODS SURVEY"
AUTHOR: /BUREAU OF FOODS
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1907 THRU: 315/1935
KEYWORD(S): LEAD * CADMIUM * ZINC
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121822 DATE: 1977 PAGE: 14
TITLE: "A NATIONWIDE SURVEY OF HEAVY METAL ABSORPTION IN CHILDREN LIVING NEAR PRIMARY COPPER, LEAD AND ZINC SMELTERS"
AUTHOR: /AMERICAN JOURNAL OF EPIDEMIOLOGY
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 315/1936 THRU: 315/1949
KEYWORD(S): COPPER * LEAD * ZINC * ARSENIC
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121836 DATE: 1978 PAGE: 21
TITLE: "A SURVEY OF A POPULATION EXPOSED TO HIGH CONCENTRATIONS OF ARSENIC IN WELL WATER IN FAIRBANKS, ALASKA"
AUTHOR: HARRINGTON, MALCOLM J./BUREAU OF EPIDEMIOLOGY * MIDDAUGH, JOHN P./BUREAU OF EPIDEMIOLOGY * MORSE, DALE L./BUREAU OF EPIDEMIOLOGY
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 315/1950 THRU: 315/1970
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121857 DATE: NOV. 1978 PAGE: 65
TITLE: "A FIELD STUDY TO DETERMINE GOOD ENGINEERING PRACTICE STACK HEIGHT FOR THE ASARCO EAST HELENA SMELTER BLAST FURNACE BAGHOUSE" (PRELIMINARY REPORT)
AUTHOR: SCHANOT, ALLEN J./NORTH AMERICAN WEATHER CONSULTANTS * SPANGLER, TIMOTHY C./NORTH AMERICAN WEATHER CONSULTANTS * HOVIND, EINAR L./NORTH AMERICAN WEATHER CONSULTANTS
ADDRESSEE: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/1971 THRU: 315/2036
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0121922 DATE: MAR. 1979 PAGE: 124
TITLE: "A FIELD STUDY TO DETERMINE GOOD ENGINEERING PRACTICE STACK HEIGHT FOR THE ASARCO EAST HELENA SMELTER BLAST FURNACE BAGHOUSE" (NAWC REPORT SLAQ-79-1)
AUTHOR: SCHANOT, ALLEN/NORTH AMERICAN WEATHER CONSULTANTS * SPANGLER, TIMOTHY C./NORTH AMERICAN WEATHER CONSULTANTS * HOVIND, EINAR L./NORTH AMERICAN WEATHER CONSULTANTS
ADDRESSEE: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/2037 THRU: 315/2160
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0122045 DATE: MAR. 1979 PAGE: 120
TITLE: "A FIELD STUDY TO DETERMINE GOOD ENGINEERING PRACTICE STACK HEIGHT FOR THE ASARCO EAST HELENA SMELTER BLAST FURNACE BAGHOUSE"
AUTHOR: SCHANOT, ALLEN/NORTH AMERICAN WEATHER CONSULTANTS * SPANGLER, TIMOTHY/NORTH AMERICAN WEATHER CONSULTANTS * HOVIND, EINAR L./NORTH AMERICAN WEATHER CONSULTANTS
ADDRESSEE: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/2161 THRU: 315/2280
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0122165 DATE: MAR. 29, 1979 PAGE: 7
TITLE: "DEFICITS IN PSYCHOLOGIC AND CLASSROOM PERFORMANCE OF CHILDREN WITH ELEVATED DENTINE LEAD LEVELS" (IN "NEW ENGLAND JOURNAL OF MEDICINE")
AUTHOR: NEEDLEMAN, HERBERT L. * GUNNOW, CHARLES * LEVITON, ALAN * REED, ROBERT * PERESIE, HENRY * MAHLER, CORNELIUS * BARRETT, PETER
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 315/2281 THRU: 315/2287
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0122172 DATE: JUL. 1979 PAGE: 30
TITLE: ENVIRONMENTAL ASSESSMENT "SHORT-TERM TESTS FOR CARCINOGENS, MUTAGENS AND OTHER GENOTOXIC AGENTS"
AUTHOR: /ENERGY RESOURCES * /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 315/2288 THRU: 315/2319
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0122202 DATE: 1980 PAGE: 14
TITLE: "EXPOSURE TO LEAD BY THE ORAL AND THE PULMONARY ROUTES OF CHILDREN LIVING IN THE VICINITY OF A PRIMARY LEAD SMELTER" (IN ENVIRONMENTAL RESEARCH)
AUTHOR: FOELS, HARRY * BUCHET, JEAN-PIERRE * LAUWERYS, ROBERT R. * BRUAUX, PIERRE * CLAEYS-THOREAU, FRANCOISE * LAFONTAINE, ALPHONSE * VERDUYN, GEERT
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 315/2320 THRU: 315/2333
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0122216 DATE: MAR. 1981 PAGE: 23
TITLE: DRAFT "ENVIRONMENTAL IMPACT STATEMENT FOR ASARCO, INCORPORATED VARIANCE FROM PSAPCA REGULATION 1 SECTIONS 9.03(B), 9.07(B), AND 9.07(C)"
AUTHOR: /PSAPCA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 315/2334 THRU: 315/2356
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0122238 DATE: MAR. 1981 PAGE: 4
TITLE: "CHRONIC TOXICITY OF LEAD AND CADMIUM: 2. CHANGES IN THE CENTRAL NERVOUS SYSTEM OF THE F1 GENERATION OF RATS AFTER CHRONIC INTOXICATION WITH LEAD AND CADMIUM"
AUTHOR: HERMAN, Z. S. * KMIECIAK-KOLADA, K. * SZKILNIK, R. * JONEK, J. J. * LUDYGA, K. * WINTER, R. * BODZIONY, J. * HEVRAUSKA, B. * KAMINSKI, K. * PISKORSKA, D. * WYREBOWSKA, J.
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 315/2357 THRU: 315/2360
KEYWORD(S): LEAD * CADMIUM
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0122242 DATE: SEP. 1981 PAGE: 20
TITLE: "ENVIRONMENTAL IMPACT STATEMENT FOR ASARCO, INCORPORATED VARIANCE FROM PSAPCA REGULATION 1 SECTIONS 9.03(B), 9.07(B), AND 9.07(C)" (FINAL)
AUTHOR: /PSAPCA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 316/0002 THRU: 316/0021
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0122262 DATE: 1982 PAGE: 120
TITLE: "RETENTION OF ZINC, CADMIUM, COPPER AND LEAD BY GEOLOGIC MATERIALS"
AUTHOR: GIBB, JAMES P./ILLINOIS DEPARTMENT OF ENERGY AND NATURAL RESOURCES * CARTWRIGHT, KEROS/ILLINOIS DEPARTMENT OF ENERGY AND NATURAL RESOURCES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 316/0022 THRU: 316/0141
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0122382 DATE: APR. 16, 1982 PAGE: 2
TITLE: (ARTICLE ON EVALUATION OF VOLUNTARY PROGRAM OF BLOOD LEAD SAMPLES TAKEN BY DALLAS TO DETERMINE SIGNIFICANCE OF ELEVATED CONCENTRATIONS OF LEAD IN SOIL NEAR THREE DALLAS SMELTERS)
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 316/0142 THRU: 316/0143
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0122384 DATE: JUL. 1982 PAGE: 26
TITLE: "ASSESSMENT OF GROUND AND SURFACE WATER EFFECTS AROUND COAL AND MINERAL STORAGE AREAS" (TRANSMITTAL FROM STU)
AUTHOR: /BOM
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):3020000 * 4020000
MICROFILM ROLL/FRAME NO.: 316/0144 THRU: 316/0169
KEYWORD(S): SILVER * COPPER * ZINC * ARSENIC * SELENIUM * LEAD
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0122410 DATE: JUL. 19, 1983 PAGE: 35
TITLE: "ASSESSMENT OF HUMAN EXPOSURE TO ARSENIC TACOMA, WASHINGTON"
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060704
MICROFILM ROLL/FRAME NO.: 316/0170 THRU: 316/0204
KEYWORD(S): ARSENIC * AIR * VEGETATION * SOIL
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0130001 DATE: AUG. 1983 PAGE: 239
TITLE: "INVESTIGATION OF METHOD FOR SITE SPECIFIC WATER QUALITY OF METHODS FOR SITE SPECIFIC WATER QUALITY ASSESSMENT: PRICKLY PEAR CREEK, MONTANA"
AUTHOR: LAPOINT, THOMAS W./UNIVERSITY OF NEVADA * MELANCON, SUSAN M./UNIVERSITY OF NEVADA * BALDWIN, BARRY P./UNIVERSITY OF NEVADA * JANIK, JEFFREY/UNIVERSITY OF NEVADA * MORRIS, MARSHA K./UNIVERSITY OF NEVADA
ADDRESSEE: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 316/0205 THRU: 316/0445
KEYWORD(S): COPPER * ZINC * ARSENIC * CHROMIUM * LEAD * CADMIUM
NOTES: UPDATE 02

FILE: 1150000 DOCNO: 0130240 DATE: OCT. 24, 1983 PAGE: 68
TITLE: (REFERENCE MATERIAL CONCERNING BLOOD LEAD STUDIES; NEWS RELEASE FROM STATE OF IDAHO, ARTICLE FROM NEW ENGLAND JOURNAL OF MEDICINE INFORMATION ON KELLOGG AREA CHILDREN, SILVER VALLEY LEAD STUDY "PREVENTING LEAD POISONING IN YOUNG CHILDREN")
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0446 THRU: 316/0513
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0130308 DATE: JUL. 1, 1986 PAGE: 5
TITLE: (EPA REGULATIONS ON FOIA AS SET FORTH IN 40 CFR CHAPTER 1 [7-1-86 EDITION] SUB PART A - REQUESTS FOR INFORMATION)
AUTHOR: /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 316/0514 THRU: 316/0518
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0130313 DATE: NOV. 15, 1983 PAGE: 2
TITLE: (ROUTING SLIP TRANSMITS ATTACHED LIST OF ITEMS TO BE INCLUDED IN FOIA REQUEST FROM HOLLAND AND HART REGARDING ASARCO EAST HELENA SITE)
AUTHOR: DEBBIE/EPA
ADDRESSEE: JANOWIAK, SUSAN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/0519 THRU: 316/0520
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0130315 DATE: NOV. 2, 1983 PAGE: 13
TITLE: (FOIA REQUEST FOR MATERIALS ON EAST HELENA SMELTER; ATTACHED EXHIBIT LIST OF DOCUMENTS THAT NEED NOT BE INCLUDED SINCE THEY ARE ALREADY IN HOLLAND AND HART POSSESSION; MAIL CONTROL SCHEDULES ATTACHED)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: GREEN, JERALENE/EPA
CC: EVANS * TAYLOR
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0521 THRU: 316/0533
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0130328 DATE: NOV. 10, 1983 PAGE: 2
TITLE: MAIL CONTROL SCHEDULES (REQUEST FOR MATERIALS RELATING TO ASARCO EAST HELENA SMELTER SITE)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: FORM
MICROFILM ROLL/FRAME NO.: 316/0534 THRU: 316/0535
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0130330 DATE: NOV. 10, 1983 PAGE: 5
TITLE: (TRANSMITS ATTACHED MAIL CONTROL SCHEDULES AND LETTER CONCERNING NOV. 2, 1983 FOIA REQUEST FROM HOLLAND AND HART FOR ALL MATERIALS RELATING TO EAST HELENA SMELTER SITE)
AUTHOR: MITCHELL, JULIE
ADDRESSEE: CLEVENGER, DEBBIE/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: FORM
MICROFILM ROLL/FRAME NO.: 316/0536 THRU: 316/0540
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0130335 DATE: MAR. 23, 1984 PAGE: 7
TITLE: (NOTES ON FOIA REQUEST; LISTS ITEMS NOT TO RELEASE)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 316/0541 THRU: 316/0547
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0130342 DATE: APR. 27, 1987 PAGE: 3
TITLE: "INTERIM EPA FOIA FEE POLICY" (NEW GUIDANCE ON FOIA)
AUTHOR: /(EPA)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 316/0548 THRU: 316/0550
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0130345 DATE: OCT. 13, 1987 PAGE: 2
TITLE: (DISCUSSION BETWEEN BROWN AND STEGER/ATTORNEY FOR AMERICAN CHEMET CONCERNING UPDATED STATUS OF ASARCO WORK AT EAST HELENA; ATTACHED TELEPHONE MESSAGE INFORMING BROWN OF STEGER CALL)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: /FILE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 316/0551 THRU: 316/0552
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0130347 DATE: JUN. 14, 1988 PAGE: 1
TITLE: (NOTES ON CONVERSATION WITH GABRIELSE IN RESPONSE TO FOIA REQUEST BY GABRIELSE OF PERLAND ENVIRONMENTAL TECHNOLOGIES TO MEACHAM)
AUTHOR: /EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 316/0553 THRU: 316/0553
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0161950 DATE: MAR. 22, 1989 PAGE: 1
TITLE: (FOIA REQUEST FROM ATTORNEY REPRESENTING HELENA RESIDENTS)
AUTHOR: MOTL, JONATHAN/REYNOLDS AND MOTL
ADDRESSEE: BROWN, SCOTT/EPA
CC: HARRISON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0554 THRU: 316/0554
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0192254 DATE: JAN. 3, 1990 PAGE: 2
TITLE: (RESPONSE TO FOIA REQUEST FOR ENDANGERMENT ASSESSMENT FOR EAST HELENA SMELTER SITE)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: WINES, BRIAN/URIBE AND ASSOCIATES
CC: WILEY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0555 THRU: 316/0556
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0192256 DATE: FEB. 2, 1990 PAGE: 1
TITLE: (REQUEST TO REVIEW AND COPY DOCUMENTS FROM FILES FOR EAST HELENA SITE)
AUTHOR: MOTL, JONATHAN/REYNOLDS, MOTL AND SHERWOOD
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0557 THRU: 316/0557
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0192257 DATE: FEB. 21, 1990 PAGE: 2
TITLE: (RESPONSE TO FOIA REQUEST OF FEB. 2 STATING EAST HELENA ENDANGERMENT ASSESSMENT CANNOT BE RELEASED AT THIS TIME)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MOTL, JONATHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0558 THRU: 316/0559
NOTES: UPDATE 02

FILE: 1160000 DOCNO: 0211912 DATE: JUN. 18, 1990 PAGE: 1
TITLE: (RESPONSE TO FOIA REQUEST (8)RIN-0658-90)
AUTHOR: SHANNON, DIANA/EPA
ADDRESSEE: REYNOLDS, JACK W./WESTON
CC: WILEY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0560 THRU: 316/0560
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150001 DATE: 1982 (E) PAGE: 1
TITLE: NOTES AND COMMENTS CONCERNING ASARCO WP FOR PROCESS PONDS
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: NOTES
CROSS FILE(S):2030100
MICROFILM ROLL/FRAME NO.: 316/0561 THRU: 316/0561
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150002 DATE: 1970 (E) PAGE: 2
TITLE: (LETTERS EXPRESSING APPRECIATION FOR WILLINGNESS TO PARTICIPATE IN EPA LIVESTOCK SURVEY; NOTIFICATION RESULTS OF TESTS WILL BE SENT WHEN COMPLETE)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: BROWN * WING
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 316/0562 THRU: 316/0563
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150004 DATE: 1985(E) PAGE: 3
TITLE: (TRANSMITS ATTACHED AMENDMENT TO MAY 9, 1985 ORDER VIII-84-006)
AUTHOR: HESTER, DANIEL W./EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040200
MICROFILM ROLL/FRAME NO.: 316/0564 THRU: 316/0566
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150007 DATE: 1970 (E) PAGE: 5
TITLE: (DISCUSSION ABOUT PRP SEARCH PROCEDURES; ATTACHED SAMPLES)
AUTHOR: KATHY
ADDRESSEE: SCOTT
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020200
MICROFILM ROLL/FRAME NO.: 316/0567 THRU: 316/0571
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150012 DATE: JUN. 6, 1984(E) PAGE: 1
TITLE: ASARCO WORKPLAN UPDATE TELEPHONE CONVERSATION AND/OR VISITOR REPORT
AUTHOR: SKIE, (DOUG/EPA)
ADDRESSEE: ROBBINS, D./ASARCO
CC: GENE
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: TELEPHONE CONVERSATION
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/0572 THRU: 316/0572
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150013 DATE: JUL. 1, 1984(E) PAGE: 1
TITLE: (DISCUSSES CONTACTING HOLT/REAL ESTATE CONCERNING SOILS DATA ON PROPERTY REPRESENTED BY REAL ESTATE COMPANY THAT ADJOINS SMELTER)
ADDRESSEE: GENE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0573 THRU: 316/0573
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150014 DATE: AUG. 27, 1970 PAGE: 1
TITLE: (DISCUSSES PLANS TO EXTEND THAWHOUSE TO SOUTH AND ELIMINATION OF EXISTING OVERFLOW DITCH RUNNING TO EAST FROM WILSON DITCH)
AUTHOR: LANE, S.M./ASARCO
ADDRESSEE: KLEFFNER, PAUL * LAMPING, FRED A. * BURNHAM, DONALD L. * BOMPART, JAMES L. * HERRIN, GORDON T. * MERRIT, JAY K
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070800
MICROFILM ROLL/FRAME NO.: 316/0574 THRU: 316/0574
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150015 DATE: MAY 10, 1966 PAGE: 3
TITLE: (DISCUSSES OBTAINING REPLACEMENT FOR SICK HORSE INSPECTED BY PAINTER AND SENDING BILL TO ASARCO; ATTACHED ACKNOWLEDGEMENTS OF RECEIPT FORMS FOR TWO HORSES TO REPLACE ONES THAT DIED)
AUTHOR: LANE, S. M./ASARCO
ADDRESSEE: LAMPING, FRED
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 316/0575 THRU: 316/0577
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150018 DATE: FEB. 2, 1973 PAGE: 2
TITLE: (DISCUSSES CONSULTATION MADE BY WISE WITH LAMPING CONCERNING MEDICAL CONDITION OF LYMPHOCYTIC LEUKEMIA)
AUTHOR: WISE, WILLIAM D.
ADDRESSEE: GREENWOOD, DOUGLAS/LOBLE, PICOTTE, LOBLE, PAULY AND STERNHAGEN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1101000
MICROFILM ROLL/FRAME NO.: 316/0578 THRU: 316/0579
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150020 DATE: FEB. 11, 1975 PAGE: 2
TITLE: (DISCUSSES NEW HEALTH INVESTIGATIONS, CONTINUING INVESTIGATIONS AND OTHER HEALTH ISSUES AT VARIOUS PLACES IN STATE INCLUDING EAST HELENA)
AUTHOR: EDEN, KENNETH V./MDHES
ADDRESSEE: CONRAD, J. L.
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 316/0580 THRU: 316/0581
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150022 DATE: JAN. 12, 1977 PAGE: 1
TITLE: (DISCUSSES STUDIES CONDUCTED BY STATE OF MONTANA CONCERNING ABSORPTION OF LEAD BY CHILDREN LIVING NEAR COPPER SMELTER AT ANACONDA AND LEAD SMELTER IN EAST HELENA)
AUTHOR: SKINNER, MARTIN D./MDHES * HULL, HARRY F./MDHES
ADDRESSEE: ROACH, MICHAEL/(MDHES)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0582 THRU: 316/0582
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150023 DATE: JAN. 7, 1981 PAGE: 7
TITLE: (TRANSMITS ATTACHED SOIL SAMPLES RESULTS OF LEAD AND CADMIUM AND JOURNAL ARTICLE LEAD)
AUTHOR: TORMA, LASZLO/MONTANA DEPARTMENT OF AGRICULTURE
ADDRESSEE: ALKEMA, KEN/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 316/0583 THRU: 316/0589
KEYWORD(S): CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150030 DATE: DEC. 10, 1981 PAGE: 1
TITLE: (STATEMENT OF PREPARATION OF BRIEFING MATERIALS DESCRIBING DALLAS LEAD PROBLEM AND HOW EAST HELENA COMPARES; SUMMARY OF FINDINGS TO DATE)
AUTHOR: DODSON, MAX H./EPA
ADDRESSEE: DURHAM, STEVEN J./EPA
CC: DUPREY
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/0590 THRU: 316/0590
KEYWORD(S): LEAD * ASARCO * AMERICAN CHEMET CORPORATION
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150031 DATE: MAR. 25, 1982 PAGE: 5
TITLE: (DISCUSSES CONTINUANCE OF ADDITIONAL BLOOD LEAD LEVELS BEING MONITORED ON REGULAR BASIS; ATTACHED LEAD BRIEFING OUTLINE AND LIST OF ALTERNATIVES CONCERNING LEAD BLOOD SAMPLING PROGRAM)
AUTHOR: ALKEMA, KEN/EPA
ADDRESSEE: DODSON, MAX H./(EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100 * 1060706
MICROFILM ROLL/FRAME NO.: 316/0591 THRU: 316/0595
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150036 DATE: APR. 5, 1982 PAGE: 1
TITLE: (DISCUSSES DETERMINATION OF APPROPRIATE TIME TO PERFORM LEAD BLOOD STUDY IN EAST HELENA)
AUTHOR: ALKEMA, KENNETH L./EPA
ADDRESSEE: DODSON, MAX H./EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0596 THRU: 316/0596
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150037 DATE: APR. 14, 1982 PAGE: 1
TITLE: (DISCUSSES LETTERS DETAILING AERIAL PHOTOGRAPHY AND SCANS OF EAST HELENA VEGETATION AND REQUEST TO CHARACTERIZE VARIATION IN WHEAT FIELDS NEAR SMELTER)
AUTHOR: MAUGHAN, DAVID/MDHES
ADDRESSEE: ALKEMA, KEN/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070500
MICROFILM ROLL/FRAME NO.: 316/0597 THRU: 316/0597
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150038 DATE: JUN. 2, 1982 PAGE: 2
TITLE: (TRANSMITS DATA PACKAGE OF MATERIALS DEVELOPED FOR CHILDHOOD LEAD EXPOSURE STUDY)
AUTHOR: ING, ROY/CDC
ADDRESSEE: STRUGGS, CALHI/HHS
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100 * 1060706
MICROFILM ROLL/FRAME NO.: 316/0598 THRU: 316/0599
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150040 DATE: JUN. 28, 1982 PAGE: 2
TITLE: (NOTIFICATION OF INTEREST IN SALINITY CONTROLS IN COLORADO RIVER BASIN; NOTIFICATION OF SUPPORT AND COOPERATION WITH MONTANA ASARCO PROJECT)
AUTHOR: DICKSTEIN, IRWIN L./EPA
ADDRESSEE: WRUBLE, DONALD T.
CC: SHANKLIN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * TISSUE COPY
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/0600 THRU: 316/0601
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150042 DATE: SEP. 27, 1982 PAGE: 2
TITLE: (TRANSMITS DATA PACKAGE OF COMPILATION OF INFORMATION THAT SUGGESTS EMISSIONS FROM EAST HELENA INDUSTRIAL SOURCES [ASARCO] AND AMERICAN CHEMET MAY ADVERSELY AFFECT HEALTH OF POPULATION; REQUEST FOR CDC ASSISTANCE IN PERFORMING STUDY THAT ADDRESSES HEAVY METAL EXPOSURE)
AUTHOR: ANDERSON, JOHN S./MDHES
ADDRESSEE: FALK, HENRY/CDC
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100 * 1060705 * 1060708 * 1060704
MICROFILM ROLL/FRAME NO.: 316/0602 THRU: 316/0603
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ASARCO * AMERICAN CHEMET CORPORATION
NOTES: UPDATE 02

FILE: 1170100 DOCNO: 0150044 DATE: NOV. 8, 1982 PAGE: 2
TITLE: (DISCUSSES CDC PARTICIPATION IN FURTHER STUDIES TO EVALUATE POTENTIAL HEALTH EFFECTS OF ELEVATED LEAD CONCENTRATIONS AND POTENTIAL NOV. MEETING WITH STATE TO FURTHER DEVELOP STUDY PLAN)
AUTHOR: ALKEMA, KENNETH L./EPA
ADDRESSEE: DURHAM, STEVEN J./EPA
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0604 THRU: 316/0605
NOTES: UPDATE 02

FILE: 1170201 DOCNO: 0150046 DATE: JAN. 6, 1983 PAGE: 3
TITLE: (REPLY TO REQUEST FOR OUTLINE OF LEAD EFFECTS STUDY; ATTACHED WHEAT YIELD GRAPH)
AUTHOR: MACE, THOMAS H./LOCKHEED
ADDRESSEE: SHANKLIN, LEE/EPA
CC: SHELTON
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0606 THRU: 316/0608
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170201 DOCNO: 0150049 DATE: JAN. 10, 1983 PAGE: 9
TITLE: (DISCUSSES RAGONE REPLACING REN JEN SUN AS TOXIC WASTE PROGRAM COORDINATOR; ATTACHED IAG BETWEEN USGS AND EPA AND INSTRUCTIONS FOR PREPARATION OF JOURNAL VOUCHER FOR REIMBURSEMENT OF COSTS)
AUTHOR: COHEN, PHILIP/DOI
ADDRESSEE: REGIONAL HYDROLOGISTS * REGIONAL RESEARCH HYDROLOGISTS * DISTRICT CHIEFS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010400
MICROFILM ROLL/FRAME NO.: 316/0609 THRU: 316/0617
NOTES: UPDATE 02

FILE: 1170201 DOCNO: 0150058 DATE: JAN. 17, 1983 PAGE: 4
TITLE: (RESPONSE TO 16 SPECIFIC RECOMMENDATIONS MADE BY STAIBLE AFTER HIS AUDIT ON EAST HELENA CHILDHOOD LEAD STUDY MADE IN SEP. 1, 1983 MEMO)
AUTHOR: ROBBINS, HAROLD W./MDHES
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0618 THRU: 316/0621
NOTES: UPDATE 02

FILE: 1170201 DOCNO: 0150062 DATE: JAN. 24, 1983 PAGE: 2
TITLE: (DISCUSSES CONCLUSIONS AND UNDERSTANDING OF MEETING ABOUT ASARCO PART IN CONDUCTING CHILD BLOOD TEST PROGRAM, IDENTIFICATION AND TESTING OF WATER WELLS AND DEVELOPMENT OF LEAD SIP)
AUTHOR: MORISON, FRANK H./HOLLAND AND HART
ADDRESSEE: BARTLETT, JOHN/MDHES
CC: SHARP * ROBBINS * ALKEMA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0622 THRU: 316/0623
NOTES: UPDATE 02

FILE: 1170201 DOCNO: 0150064 DATE: JAN. 31, 1983 PAGE: 2
TITLE: (DISCUSSES SCREENING STUDY OF BLOOD-LEAD CONCENTRATIONS OF CHILDREN NEAR ASARCO SMELTER COMPLEX IN RESPONSE TO INCREASED CONCERNS ABOUT POTENTIAL HEALTH RISK TO CITIZENS OF EAST HELENA; REQUEST EPA ASSISTANCE IN CONDUCTING SCREENING STUDY)
AUTHOR: SCHWINDEN, TED/GOVERNOR
ADDRESSEE: DURHAM, STEVE/EPA
CC: DRYNAN * ROBBINS * SHARP * FALK
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0624 THRU: 316/0625
NOTES: UPDATE 02

FILE: 1170201 DOCNO: 0150066 DATE: FEB. 22, 1983 PAGE: 1
TITLE: (RESPONSE TO JAN. 31, 1983 LETTER REGARDING ASARCO SMELTER COMPLEX AND MONEY AVAILABLE TO CONDUCT HEALTH ASSESSMENTS AT SUPERFUND SITES)
AUTHOR: DURHAM, STEVEN J./EPA
ADDRESSEE: SCHWINDEN, TED/GOVERNOR
CC: ALKEMA * DRYNAN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1010100
MICROFILM ROLL/FRAME NO.: 316/0626 THRU: 316/0626
NOTES: UPDATE 02

FILE: 1170202 DOCNO: 0150067 DATE: MAR. 2, 1983 PAGE: 2
TITLE: (SUMMARY OF DISCUSSION WITH CDC AND EPA ON STATE BLOOD LEAD SCREENING PROJECT)
AUTHOR: ALKEMA, KENNETH L./EPA
ADDRESSEE: /FILES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0627 THRU: 316/0628
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170202 DOCNO: 0150069 DATE: MAR. 2, 1983 PAGE: 2
TITLE: (DISCUSSES PROGRAMS AND PLANS TO BE IMPLEMENTED UNDER IAG; ATTACHED ROUTING SLIP FROM MORELAND)
AUTHOR: COORDINATOR/TOXIC WASTE PROGRAM
ADDRESSEE: /THE RECORD
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010400
MICROFILM ROLL/FRAME NO.: 316/0629 THRU: 316/0630
NOTES: UPDATE 02

FILE: 1170202 DOCNO: 0150071 DATE: MAR. 2, 1983 PAGE: 2
TITLE: (SUMMARY OF BLOOD LEAD SCREENING STUDY CDC AND MDHES ARE GOING TO CARRY OUT IN EAST HELENA AS RESULT OF FEB. 23-24, 1983 MEETING)
AUTHOR: ALKEMA, KENNETH L./EPA
ADDRESSEE: HUNT, SETH C./EPA
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0631 THRU: 316/0632
NOTES: UPDATE 02

FILE: 1170202 DOCNO: 0150073 DATE: MAR. 11, 1983 PAGE: 3
TITLE: (REQUESTS TECHNICAL ASSISTANCE FROM USGS; ATTACHED PROPOSAL FOR REVIEW)
AUTHOR: MURPHY, JACK ROY/EPA
ADDRESSEE: ALKEMA, KENNETH (L.)
CC: RAGONE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010400
MICROFILM ROLL/FRAME NO.: 316/0633 THRU: 316/0635
NOTES: UPDATE 02

FILE: 1170202 DOCNO: 0150076 DATE: MAR. 17, 1983 PAGE: 1
TITLE: (TRANSMITS ROUGH DRAFT PROPOSAL OF PROPOSED EAST HELENA LEAD STUDY AND REQUEST FOR SUGGESTIONS FROM EPA)
AUTHOR: ROBBINS, HAL/MDHES
ADDRESSEE: ALKEMA, KEN/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0636 THRU: 316/0636
NOTES: UPDATE 02

FILE: 1170202 DOCNO: 0150077 DATE: MAR. 23, 1983 PAGE: 2
TITLE: (RESPONSE TO REQUEST FOR TECHNICAL ASSISTANCE IN DESIGNING AND IMPLEMENTING WATER-QUALITY STUDY; TRANSMITS WATER RESOURCES REPORTS OF AREA FOR REFERENCES)
AUTHOR: PIKE, GEORGE M./DOI
ADDRESSEE: ALKEMA, KEN/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030200
MICROFILM ROLL/FRAME NO.: 316/0637 THRU: 316/0638
NOTES: UPDATE 02

FILE: 1170202 DOCNO: 0150079 DATE: MAR. 24, 1983 PAGE: 2
TITLE: (TRANSMITS HEAVY METALS IN HONEY BEE SYSTEMS PACKAGE OF SUMMARY PAPERS, GRAPHS AND CALCULATIONS REGARDING ARSENIC)
AUTHOR: BROMENSHENK, JERRY J./U OF M
ADDRESSEE: ALKEMA, KEN/EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 316/0639 THRU: 316/0640
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1170202 DOCNO: 0150081 DATE: MAR. 29, 1983 PAGE: 4
TITLE: (OUTLINES REQUEST FOR ASSISTANCE IN OBTAINING REM/FIT SUBCONTRACT FUNDING FOR WORK ESSENTIAL TO BETTER DEFINE NATURE OF HEALTH AND ENVIRONMENTAL PROBLEMS AT EAST HELENA/ASARCO LEAD SITE)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: WARDELL, JOHN/EPA
QUALIFIER(S): ORIGINAL * TISSUE COPY * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010100
MICROFILM ROLL/FRAME NO.: 316/0641 THRU: 316/0644
NOTES: UPDATE 02

FILE: 1170202 DOCNO: 0150085 DATE: APR. 1, 1983 PAGE: 3
TITLE: (COMMENTS ON PROTOCOL CONCERNING BLOOD LEAD STUDY)
AUTHOR: ALKEMA, KENNETH L./EPA
ADDRESSEE: ROBBINS, HAL/(MDHES)
CC: ANDERSON
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100 * 1060100
MICROFILM ROLL/FRAME NO.: 316/0645 THRU: 316/0647
NOTES: UPDATE 02

FILE: 1170202 DOCNO: 0150088 DATE: APR. 19, 1983 PAGE: 17
TITLE: (TRANSMITS ATTACHED COMMENTS ON MDHES PROTOCOL FOR EAST HELENA CHILDHOOD LEAD EFFECTS STUDY)
AUTHOR: NICKEL, JON C./ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100 * 1060100
MICROFILM ROLL/FRAME NO.: 316/0648 THRU: 316/0664
NOTES: UPDATE 02

FILE: 1170202 DOCNO: 0150105 DATE: APR. 22, 1983 PAGE: 1
TITLE: (ASARCO COMMENTS ON METHOD OF STUDY OF WATER QUALITY IN EAST HELENA AREA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: ALKEMA, KEN/EPA
CC: SHARP * VARNER
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0665 THRU: 316/0665
NOTES: UPDATE 02

FILE: 1170203 DOCNO: 0150106 DATE: MAY 9, 1983 PAGE: 11
TITLE: (DISCUSSES REQUEST FOR PROPOSAL; TRANSMITS ATTACHED EAST HELENA, MONTANA SOILS CROP STUDY PLAN AND PROTOCOL DEVELOPMENT AND ASSISTANCE REQUEST FOR PROPOSAL; ATTACHED LIST OF ADDRESSEES)
AUTHOR: RICHARDSON, STUART/E AND E
ADDRESSEE: JENSEN, BERNIE/WESTERN RECLAMATION
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 316/0666 THRU: 316/0676
NOTES: UPDATE 02

FILE: 1170203 DOCNO: 0150117 DATE: MAY 11, 1983 PAGE: 4
TITLE: AMENDMENT TO TECHNICAL ASSISTANCE AGREEMENT BETWEEN REGION 8 MONTANA OFFICE EPA AND USGS (ATTACHED DESCRIPTION OF PHASE 1 WORK AND BUDGET)
AUTHOR: ALKEMA, KENNETH/EPA
ADDRESSEE: MURPHY, J. ROY
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030200 * 3010000
MICROFILM ROLL/FRAME NO.: 316/0677 THRU: 316/0680
NOTES: UPDATE 02

FILE: 1170203 DOCNO: 0150121 DATE: MAY 12, 1983 PAGE: 1
TITLE: (TRANSMITS MEMO FROM MURPHY REQUESTING ASSISTANCE WITH GROUNDWATER AND SURFACE WATER ANALYSIS IN EAST HELENA)
AUTHOR: MORELAND, JOE A./(USGS)
ADDRESSEE: RAGONE, STEVE
CC: ALKEMA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL * TISSUE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010400 * 3010000 * 4010000
MICROFILM ROLL/FRAME NO.: 316/0681 THRU: 316/0681
NOTES: UPDATE 02

FILE: 1170203 DOCNO: 0150122 DATE: MAY 16, 1983 PAGE: 2
TITLE: (TRANSMITS ATTACHED PAGE FROM STUDY PROTOCOL LISTING WORK ITEMS WHICH EPA WOULD PLAN TO PROVIDE STATE AND CDC)
AUTHOR: ALKEMA, KENNETH L./EPA
ADDRESSEE: DICKSTEIN, IRV/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100 * 1060100
MICROFILM ROLL/FRAME NO.: 316/0682 THRU: 316/0683
NOTES: UPDATE 02

FILE: 1170203 DOCNO: 0150124 DATE: MAY 17, 1983 PAGE: 1
TITLE: (TRANSMITS PROTOCOL FOR BLOOD-LEVEL SAMPLING OF CHILDREN ON EAST HELENA SITE)
AUTHOR: ALKEMA, KENNETH L./EPA
ADDRESSEE: SCHWEITZER, GLEN/EMSL-LV
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL * TISSUE COPY * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100 * 1060100
MICROFILM ROLL/FRAME NO.: 316/0684 THRU: 316/0684
NOTES: UPDATE 02

FILE: 1170203 DOCNO: 0150125 DATE: MAY 18, 1983 PAGE: 2
TITLE: (GUIDANCE MEMO TO COMPONENTS OF PROTOCOL ESSENTIAL TO IRB REVIEW AND INCLUSION OF ELEMENTS OMITTED IN DRAFT PROTOCOL)
AUTHOR: SOKAL, DAVID/CDC
ADDRESSEE: KONIVER, DEENA/CDC
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100 * 1060701 * 1060100
MICROFILM ROLL/FRAME NO.: 316/0685 THRU: 316/0686
NOTES: UPDATE 02

FILE: 1170203 DOCNO: 0150127 DATE: MAY 19, 1983 PAGE: 1
TITLE: (APPROVES PROPOSAL SUBMITTED IN MAY 11, 1983 ALKEMA LETTER; REQUESTS COPY OF REPORT DEVELOPED DURING ACTION DESCRIBED IN ATTACHMENT 1 OF PREVIOUS CORRESPONDENCE)
AUTHOR: MURPHY, J. ROY/EPA
ADDRESSEE: ALKEMA, KENNETH L./EPA
CC: RAGONE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010400
MICROFILM ROLL/FRAME NO.: 316/0687 THRU: 316/0687
NOTES: UPDATE 02

FILE: 1170203 DOCNO: 0150128 DATE: MAY 23, 1983 PAGE: 4
TITLE: (DISCUSSES ANACONDA SMELTER RESPONSIBLE PARTY AND ENDANGERMENT ASSESSMENT INFORMATION)
AUTHOR: DUNN, JIM/EPA
ADDRESSEE: SAEBFAR, HAMID
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060708 * 1010200
MICROFILM ROLL/FRAME NO.: 316/0688 THRU: 316/0691
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * AMC/ARCO
NOTES: UPDATE 02

FILE: 1170203 DOCNO: 0150132 DATE: MAY 27, 1983 PAGE: 1
TITLE: (REVIEWS EAST HELENA, MONTANA, CHILD HEALTH STUDY PROTOCOL AND AGREEMENT TO ASSUME RESPONSIBILITIES LISTED UNDER PART 5 PROJECT ORGANIZATION AND RESPONSIBILITIES, PART C, 1-9, PAGES 13-14)
AUTHOR: ALKEMA, KENNETH L./EPA
ADDRESSEE: MAUGHAN, DAVID/(MDHES)
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100 * 1060100
MICROFILM ROLL/FRAME NO.: 316/0692 THRU: 316/0692
NOTES: UPDATE 02

FILE: 1170203 DOCNO: 0150133 DATE: JUN. 15, 1983 PAGE: 7
TITLE: (TRANSMITS ATTACHED MONITORING PROGRAM FOR CONSIDERATION AND METHODOLOGY FOR COLLECTION OF GROUNDWATER SAMPLES IN THE EAST HELENA AREA)
AUTHOR: PIKE, GEORGE M./DOI
ADDRESSEE: MONTGOMERY, RICHARD/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):3020000 * 4020000
MICROFILM ROLL/FRAME NO.: 316/0693 THRU: 316/0699
NOTES: UPDATE 02

FILE: 1170204 DOCNO: 0150140 DATE: JUL. 8, 1983 PAGE: 2
TITLE: (TRANSMITS TABLE OF DATA FROM INVENTORY OF GROUNDWATER IN EAST HELENA AREA, MAPS OF DATA COLLECTION SITES, WATER TABLE AND DIRECTION FLOW AND TENTATIVE SAMPLING SITES)
AUTHOR: PIKE, GEORGE M./DOI
ADDRESSEE: TAYLOR, GENE/EPA
CC: RAGONE
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030200
MICROFILM ROLL/FRAME NO.: 316/0700 THRU: 316/0701
NOTES: UPDATE 02

FILE: 1170204 DOCNO: 0150142 DATE: JUL. 8, 1983 PAGE: 1
TITLE: (TRANSMITS RFP AND MSU STUDY PLANS FOR EAST HELENA SOILS STUDY)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: FOSTER, STEPHEN/HOLLAND AND HART
CC: NICKEL
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL * TISSUE COPY * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 316/0702 THRU: 316/0702
NOTES: UPDATE 02

FILE: 1170204 DOCNO: 0150143 DATE: JUL. 8, 1983 PAGE: 1
TITLE: (TRANSMITS DATA PACKAGE OF GROUNDWATER DATA IN EAST HELENA AREAS)
AUTHOR: PIKE, GEORGE M./DOI
ADDRESSEE: TAYLOR, GENE/EPA
CC: RAGONE
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030200
MICROFILM ROLL/FRAME NO.: 316/0703 THRU: 316/0703
NOTES: UPDATE 02

FILE: 1170204 DOCNO: 0150144 DATE: JUL. 28, 1983 PAGE: 1
TITLE: (NOTIFIES SCHEDULED AUG. 2, 1983 MEETING OPEN TO PUBLIC TO PROVIDE MORE PRECISE INFORMATION ON BLOOD LEAD STUDY SCHEDULED TO BEGIN AUG. 4 IN EAST HELENA AREA)
AUTHOR: ANDERSEN, VIC R./MDHES
ADDRESSEE: DUNN, JIM/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0704 THRU: 316/0704
NOTES: UPDATE 02

FILE: 1170204 DOCNO: 0150145 DATE: AUG. 5, 1983 PAGE: 1
TITLE: (DISCUSSES SIGNING OF COOPERATIVE AGREEMENT BETWEEN EPA AND USGS TO INVESTIGATE GROUNDWATER FLOWS AND METAL CONTAMINATIONS)
AUTHOR: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1130200
MICROFILM ROLL/FRAME NO.: 316/0705 THRU: 316/0705
NOTES: UPDATE 02

FILE: 1170204 DOCNO: 0150146 DATE: AUG. 9, 1983 PAGE: 4
TITLE: SAMPLING PLAN FOR LEAD-CONTAMINATED SOIL (ATTACHED ADDRESSEE LIST AND TRANSMITTAL SLIP FROM LEE)
AUTHOR: SPROAT, BILL/EPA
ADDRESSEE: CORSON, ALAN S./EPA
CC: TOCHT * RATHBUN * SHANKLIN
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):4020000
MICROFILM ROLL/FRAME NO.: 316/0706 THRU: 316/0709
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150150 DATE: SEP. 12, 1983 PAGE: 5
TITLE: EVALUATION OF ESA LABORATORIES BEDFORD, MASSACHUSETTS, MAR. 23, 1982 (DISCUSSES BLOOD LEAD ANALYSES PERFORMED FOR DALLAS LEAD STUDY)
AUTHOR: BECKERT, WERNER T./EPA * SIMON, STEVE/EPA
ADDRESSEE: FILES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100 * 1150000
MICROFILM ROLL/FRAME NO.: 316/0710 THRU: 316/0714
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150155 DATE: SEP. 13, 1983 PAGE: 1
TITLE: (TRANSMITS ADVANCE COPY OF PROJECT AREA MAP)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0715 THRU: 316/0715
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150156 DATE: SEP. 15, 1983 PAGE: 3
TITLE: (DISCUSSES STATEMENT OF CHAIN-OF-CUSTODY PROCEDURES FOR BLOOD, URINE AND HAIR DEVELOPED BY MDHES)
AUTHOR: MAUGHAN, A. DAVID/(MDHES)
ADDRESSEE: WEIBE, DON/CDC
CC: SOKAL * TOURANGEAU * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100 * 1060100
MICROFILM ROLL/FRAME NO.: 316/0716 THRU: 316/0718
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150159 DATE: SEP. 15, 1983 PAGE: 1
TITLE: (TRANSMITS STAIBLE REPORT REGARDING QUALITY ASSURANCE AUDIT OF ASARCO STUDY AT HELENA FOR COMMENT AND SCHEDULE OF EVENTS WITH COMPLETION DATES)
AUTHOR: DICKSTEIN, IRWIN L./EPA
ADDRESSEE: MONTGOMERY, RICHARD/EPA
CC: DUPREY * WARDELL * TAYLOR
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0719 THRU: 316/0719
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150160 DATE: SEP. 15, 1983 PAGE: 7
TITLE: (DISCUSSES EAST HELENA CHILD HEALTH STUDY SYSTEMS AUDIT; ATTACHED RECOMMENDATIONS AND SCHEDULE)
AUTHOR: STAIBLE, THOMAS F./EPA
ADDRESSEE: DICKSTEIN, IRWIN L./EPA * WARDELL, JOHN/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0720 THRU: 316/0726
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150167 DATE: SEP. 16, 1983 PAGE: 8
TITLE: (TRANSMITS ATTACHED EAST HELENA GROUNDWATER QUALITY ASSURANCE PLAN; RECORDS FOR SELECTED WELLS IN THE EAST HELENA AREA; NOTES ON PRIMARY STANDARDS OF ARSENIC, CADMIUM AND LEAD)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: HILLMAN, JUANITA/EPA
CC: WARDELL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300 * 3030200
MICROFILM ROLL/FRAME NO.: 316/0727 THRU: 316/0734
KEYWORD(S): ARSENIC * CADMIUM * LEAD * COPPER
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150175 DATE: SEP. 26, 1983 PAGE: 1
ATTACHED DOC(S): 0150176
TITLE: (CONTRACT LABORATORY SYSTEM UNABLE TO ACCEPT ANY NEW SAMPLES FROM ZONE 2 REM/FIT PROGRAM FOR NEXT 90 DAYS)
AUTHOR: D'AGOSTARO, BOB/CH2M HILL
ADDRESSEE: PROJECT DISTRIBUTION LIST
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120109
MICROFILM ROLL/FRAME NO.: 316/0735 THRU: 316/0735
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150176 DATE: SEP. 26, 1983 PAGE: 1
ATTACHED TO: 0150175
TITLE: (DISCUSSES REM TRAVEL COSTS APPROACHING REM TRAVEL BUDGET LIMIT)
AUTHOR: D'AGOSTARO, BOB/CH2M HILL
ADDRESSEE: PROJECT DISTRIBUTION LIST
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120109
MICROFILM ROLL/FRAME NO.: 316/0736 THRU: 316/0736
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150177 DATE: OCT. 6, 1983 PAGE: 2
TITLE: (DISCUSSES FIELD SAMPLING FOR EAST HELENA LEAD BLOOD STUDY AND RESULTS PRESENTED AT OCT. 13, 1983 MEETING; NOTIFICATION DRAFT STUDY PLANS FOR LOOKING AT SOIL, VEGETATION, LIVESTOCK, SURFACE WATER AND GROUNDWATER ARE AVAILABLE)
AUTHOR: ANDERSEN, VIC R./MDHES
ADDRESSEE: DUNN, JIM/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0737 THRU: 316/0738
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150179 DATE: OCT. 11, 1983 PAGE: 5
TITLE: (TRANSMITS ATTACHED QAPP REVIEW WITH SIGNED APPROVAL PAGE AND COMMENTS)
AUTHOR: HILLMAN, JUANITA J./EPA
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/0739 THRU: 316/0743
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150184 DATE: OCT. 12, 1983 PAGE: 7
TITLE: (TRANSMITS ATTACHED REVIEW COMMENTS OF EAST HELENA SOILS AND LIVESTOCK STUDY PROTOCOLS)
AUTHOR: RICHARDSON, STUART/E AND E
ADDRESSEE: DOLLHOPF, (DOUG)/MSU
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030300 * 4070600
MICROFILM ROLL/FRAME NO.: 316/0744 THRU: 316/0750
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150191 DATE: OCT. 13, 1983 PAGE: 8
TITLE: (NOTIFIES NICKEL IT WOULD COST $.20 PER COPY FOR REQUESTED MATERIAL TOTAL COST OF $139.40; ATTACHED LIST OF EAST HELENA SITE FILES REQUESTED, BILL FOR COPIES AND RETURN RECEIPT P 269 835 041)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: /FILES
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/0751 THRU: 316/0759
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150200 DATE: OCT. 19, 1983 PAGE: 2
TITLE: (SUMMARIZES CONCLUSIONS AND DECISIONS REACHED DURING KICK OFF MEETING AND TELEPHONE CONVERSATIONS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: MAROTTE * SHOUP * HARRIS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/0760 THRU: 316/0761
KEYWORD(S): GROUNDWATER * SOIL
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150202 DATE: OCT. 27, 1983 PAGE: 3
TITLE: (DISCUSSES SELECTION OF BATTELLE AS SUBCONTRACTOR; ATTACHED ORGANIZATIONAL CHART)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: MAROTTE * SHOUP * MCKOWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/0762 THRU: 316/0764
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150205 DATE: OCT. 21, 1983 PAGE: 12
TITLE: (TRANSMITS ATTACHED EAST HELENA CHILD LEAD STUDY QUARTERLY REPORT JUL. 1 - SEP. 30, 1983; ATTACHED REQUEST FOR CATEGORICAL CHANGES TO COOPERATIVE AGREEMENT U61/CCU800529-01)
AUTHOR: MAUGHAN, DAVID/MDHES
ADDRESSEE: SOKAL, DAVID C./CDC
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0765 THRU: 316/0776
KEYWORD(S): LEAD * CADMIUM * ARSENIC
NOTES: UPDATE 02

FILE: 1170205 DOCNO: 0150217 DATE: OCT. 27, 1983 PAGE: 6
TITLE: (DISCUSSES NEW PROCEDURES TO PROCESS WORK PLANS)
AUTHOR: D'AGOSTARO, R./CH2M HILL
ADDRESSEE: /PROJECT DISTRIBUTION
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/0777 THRU: 316/0782
NOTES: UPDATE 02

FILE: 1170206 DOCNO: 0150223 DATE: NOV. 4, 1983 PAGE: 20
TITLE: ASARCO COMMENTS CONCERNING EPA PROPOSED AMENDMENT TO NATIONAL OIL AND HAZARDOUS SUBSTANCES CONTINGENCY PLAN; NPL; 48 FED. REG 40674 (SEP. 8, 1983)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: WYER, RUSSELL H./EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020101
MICROFILM ROLL/FRAME NO.: 316/0783 THRU: 316/0802
KEYWORD(S): ASARCO
NOTES: UPDATE 02

FILE: 1170206 DOCNO: 0150243 DATE: NOV. 8, 1983 PAGE: 1
TITLE: (TRANSMITS DATA AND QUALITY ASSURANCE SUMMARY SHEETS FOR SAMPLES AND QA/QC COMPRISING CASE 796H)
AUTHOR: MASINO, MARK/CALIFORNIA ANALYTICAL LAB * WONG, ANTHONY S./CALIFORNIA ANALYTICAL LAB
ADDRESSEE: HAEBERER, FRED/EPA
QUALIFIER(S): INCOMPLETE * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030200
MICROFILM ROLL/FRAME NO.: 316/0803 THRU: 316/0803
NOTES: UPDATE 02

FILE: 1170206 DOCNO: 0150244 DATE: NOV. 9, 1983 PAGE: 1
TITLE: (NOTIFIES DRAFT WORK PLAN WILL BE COMPLETED NOV. 18, 1983 INSTEAD OF NOV. 11, 1983)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: WILLIS * MAROTTE * SHOUP * MCKOWN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/0804 THRU: 316/0804
NOTES: UPDATE 02

FILE: 1170206 DOCNO: 0150245 DATE: NOV. 11, 1983 PAGE: 1
TITLE: (CONFIRMS LIST OF TASK ORDER REVISIONS THAT ARE MUTUALLY ACCEPTABLE)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MCKOWN, GARY/BATTELLE
CC: VAN MUNSTER * SHOUP * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120106
MICROFILM ROLL/FRAME NO.: 316/0805 THRU: 316/0805
NOTES: UPDATE 02

FILE: 1170206 DOCNO: 0150246 DATE: NOV. 17, 1983 PAGE: 2
TITLE: (TRANSMITS DRAFT WORK PLAN FOR RI ACTIVITIES AT EAST HELENA SMELTER)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: WILLIS * WARDELL * SELLMAN * D'AGOSTARO * MAROTTE * SHOUP * WALLACE * DAVIS * CHATWIN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/0806 THRU: 316/0807
NOTES: UPDATE 02

FILE: 1170206 DOCNO: 0150248 DATE: NOV. 22, 1983 PAGE: 1
TITLE: (TRANSMITS DRAFT PROJECT ORGANIZATION CHART AND RESUMES FOR PERSONNEL PROPOSED FOR USE ON ASARCO RI/FS)
AUTHOR: MCKOWN, GARY L./BATTELLE
ADDRESSEE: LOVELL, DOUGLAS/CH2M HILL
CC: TAYLOR
QUALIFIER(S): INCOMPLETE * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/0808 THRU: 316/0808
NOTES: UPDATE 02

FILE: 1170206 DOCNO: 0150249 DATE: NOV. 30, 1983 PAGE: 8
TITLE: CORRIGENDA FOR THE FIRST EXTERNAL REVIEW OF DRAFT OF 1983 REVISED EPA CRITERIA DOCUMENT, "AIR QUALITY CRITERIA FOR LEAD"
AUTHOR: GRANT, LESTER
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030300 * 1140000
MICROFILM ROLL/FRAME NO.: 316/0809 THRU: 316/0816
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170206 DOCNO: 0150257 DATE: DEC. 2, 1983 PAGE: 1
TITLE: SUMMARY OF BLOOD-LEAD RESULTS FOR EAST HELENA
AUTHOR: ROBBINS, HAL/MDHES
ADDRESSEE: /FILES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0817 THRU: 316/0817
NOTES: UPDATE 02

FILE: 1170206 DOCNO: 0150258 DATE: DEC. 6, 1983 PAGE: 4
TITLE: (RESPONSE TO ATTACHED NOV. 21, 1983 LETTER TO DRYNAN REGARDING ASARCO SMELTER AND ITS PLACEMENT ON NPL)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: MORISON, FRANK H./HOLLAND AND HART
CC: DRYNAN * ROBERTSON * MANGANIELLO
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0818 THRU: 316/0821
NOTES: UPDATE 02

FILE: 1170206 DOCNO: 0150262 DATE: DEC. 20, 1983 PAGE: 1
TITLE: (TRANSMITS LAB SHEET SUMMARIZING RESULTS OF WELL WATER ANALYSIS)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: LAMPING, CLIFF
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030200
MICROFILM ROLL/FRAME NO.: 316/0822 THRU: 316/0822
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1170206 DOCNO: 0150263 DATE: DEC. 20, 1983 PAGE: 6
TITLE: (NOTES ON CONFERENCE CALL BETWEEN TAYLOR, GREENE, LOVELL/CH2M HILL AND BATTELLE CONCERNING COMMENTS ON DRAFT EAST HELENA WORK PLAN RI/FS; COMMENTS FROM USGS ON SURFACE WATER SECTION)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: /FILE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060200 * 4070800
MICROFILM ROLL/FRAME NO.: 316/0823 THRU: 316/0828
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150268 DATE: MAR. 31, 1984 PAGE: 13
TITLE: THIRD QUARTERLY REPORT TO CDC JAN. 1 - MAR. 31, 1984 (DISCUSSES SAMPLES COLLECTED FOR EAST HELENA CHILD LEAD STUDY; ATTACHED PRELIMINARY XRF SCANS OF RANDOM STOOL MATERIALS)
AUTHOR: MAUGHAN, DAVID/MDHES
ADDRESSEE: SOKAL, DAVID/CDC
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0829 THRU: 316/0841
KEYWORD(S): LEAD * AIR * DUST * ARSENIC * CADMIUM
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150281 DATE: JAN. 3, 1984 PAGE: 2
TITLE: (DISCUSSES ASARCO REASSESSMENT OF STATUS OF PLANT OPERATIONS IN LIGHT OF CURRENT FEDERAL AND STATE HAZARDOUS WASTE MANAGEMENT REQUIREMENT AND DETERMINATION CURRENT OPERATIONS DO NOT REQUIRE HAZARDOUS WASTE PERMIT)
AUTHOR: SHARP, M. A./ASARCO
ADDRESSEE: HARRIS, JAMES C./EPA
CC: ROBERTSON
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020101
MICROFILM ROLL/FRAME NO.: 316/0842 THRU: 316/0843
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150283 DATE: JAN. 4, 1984 PAGE: 2
TITLE: COMMENTS ON DRAFT WORK PLAN FOR EAST HELENA SMELTER RI
AUTHOR: OSBORNE, PAUL/EPA * WALLINE, ROB/EPA
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/0844 THRU: 316/0845
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150285 DATE: JAN. 6, 1984 PAGE: 6
TITLE: (TRANSMITS ATTACHED DRAFT STRATEGY FOR LEAD EXPOSURE REDUCTION PRESENT AND FUTURE)
AUTHOR: KOVALICK, WALT/CCS
ADDRESSEE: CPDD/RTP * FITZPATRICK, E./EPA * DAVIS, A./EPA * /EPA * HOWEKAMP, D./EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060701
MICROFILM ROLL/FRAME NO.: 316/0846 THRU: 316/0851
KEYWORD(S): LEAD * AIR * DUST * SOIL
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150291 DATE: JAN. 6, 1984 PAGE: 1
TITLE: (REQUESTS APPROVAL TO INCLUDE SOIL SAMPLES FOR WHICH LEAD CONCENTRATION IS KNOWN IN SAMPLE STREAM AS QC SAMPLES FOR EAST HELENA SUPERFUND STUDY OF SOIL CONTAMINATION)
AUTHOR: DICKSTEIN, IRWIN L./EPA
ADDRESSEE: DAVIS, AL/EPA
CC: /EPA * SKIE * TOURANGEAU
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030200
MICROFILM ROLL/FRAME NO.: 316/0852 THRU: 316/0852
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150292 DATE: JAN. 11, 1984 PAGE: 5
TITLE: (TRANSMITS ATTACHED STUDY PROTOCOL TO ASSESS CHEMICAL CONTAMINATION ON HELENA VALLEY SOIL, CROP AND LIVESTOCK RESOURCES; TITLE PAGE AND TABLE OF CONTENTS)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: RICHARDSON, STUART/E AND E * TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070201 * 4070500 * 4070600
MICROFILM ROLL/FRAME NO.: 316/0853 THRU: 316/0857
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150297 DATE: JAN. 16, 1984 PAGE: 1
TITLE: (DISCUSSES EAST HELENA BLOOD STUDY QA RESPONSE, SO2 MONITORING NEAR SIDNEY AND PADDOCK CHICKEN COOP SAMPLES ANACONDA)
AUTHOR: SKIE, (DOUG/EPA)
ADDRESSEE: ROBBINS, HAL
CC: WARDELL * TAYLOR * SINNOTT
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0858 THRU: 316/0858
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150298 DATE: JAN. 18, 1984 PAGE: 1
TITLE: (TRANSMITS RESPONSE TO AUG. 22-23, 1983 AUDIT ON EAST HELENA LEAD BLOOD STUDY)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: STAIBLE, THOMAS F./EPA
CC: DICKSTEIN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL * TISSUE COPY * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0859 THRU: 316/0859
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150302 DATE: FEB. 8, 1984 PAGE: 2
TITLE: (LISTS ITEMS STILL REQUIRING RESPONSE CONCERNING QUALITY ASSURANCE ON EAST HELENA CHILD HEALTH STUDY)
AUTHOR: STAIBLE, THOMAS F./EPA
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000 * 1030100
MICROFILM ROLL/FRAME NO.: 316/0860 THRU: 316/0861
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150304 DATE: FEB. 10, 1984 PAGE: 5
TITLE: (TRANSMITS ATTACHED THIRD SUBMITTAL FOR INSERTION IN STUDY PROTOCOLS REGARDING CONTAMINATION OF HELENA VALLEY SOIL, CROP AND LIVESTOCK RESOURCES; TITLE PAGE AND TABLE OF CONTENTS)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: RICHARDSON, STUART/E AND E * TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070201
MICROFILM ROLL/FRAME NO.: 316/0862 THRU: 316/0866
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150309 DATE: FEB. 10, 1984 PAGE: 8
TITLE: (TRANSMITS ATTACHED SECOND QUARTERLY REPORT FOR JOINT EAST HELENA CHILD LEAD STUDY OCT. 1 - DEC. 31, 1983; DISCUSSES DELAYS IN ANALYZING SAMPLE)
AUTHOR: MAUGHAN, DAVID/MDHES
ADDRESSEE: SOKAL, DAVID C./CDC
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0867 THRU: 316/0874
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150317 DATE: FEB. 21, 1984 PAGE: 1
TITLE: (DISCUSSES CURRENT STATUS AT EAST HELENA SMELTER INCLUDING HEALTH SCREENING STUDY OF EAST HELENA CHILDREN, ANALYSIS OF BLOOD/LEAD IN EAST HELENA CHILDREN AND GROUNDWATER SURVEY)
AUTHOR: WARDELL, (JOHN)/EPA
ADDRESSEE: AWMD/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100 * 1010200
MICROFILM ROLL/FRAME NO.: 316/0875 THRU: 316/0875
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150318 DATE: FEB. 22, 1984 PAGE: 1
TITLE: (NOTES FROM TELEPHONE CONVERSATION ON KRIEGING ANALYSIS, TEST HERDS, SOIL AND CROP TESTING SCHEDULE)
AUTHOR: DOLLHOPF, (DOUGLAS J./MSU)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 316/0876 THRU: 316/0876
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 02

FILE: 1170301 DOCNO: 0150319 DATE: FEB. 28, 1984 PAGE: 8
TITLE: (DISCUSSES ACTIVITIES CONDUCTED UNDER AGREEMENT DW930242-01-2; ATTACHED QUARTERLY REPORT 2 MONTANA CHILD-LEAD (OCT. 1 - DEC. 31, 1983) AND SECOND QUARTER ACTIVITIES)
AUTHOR: JONES, GEORGI A./ATSDR
ADDRESSEE: HEDEMAN, WILLIAM N./EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/0877 THRU: 316/0884
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150327 DATE: MAR. 6, 1984 PAGE: 1
TITLE: (TRANSMITS FOURTH SUBMITTAL FOR REVIEW AND INSERTION IN STUDY PROTOCOLS REGARDING CONTAMINATION OF HELENA VALLEY SOIL, CROP AND LIVESTOCK RESOURCES)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: RICHARDSON, STUART/E AND E
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070201 * 4070500 * 4070600
MICROFILM ROLL/FRAME NO.: 316/0885 THRU: 316/0885
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150328 DATE: MAR. 7, 1984 PAGE: 3
TITLE: (REQUESTS CLARIFICATION ON WORK SCOPE FOR DRAFT RI/FS WORK PLAN; TRANSMITS REFERENCE MATERIAL)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: MCKOWN * DAVIS * SHOUP
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 1060708
MICROFILM ROLL/FRAME NO.: 316/0886 THRU: 316/0888
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150331 DATE: MAR. 8, 1984 PAGE: 2
TITLE: (LIST OF CONCERNS AND QUESTIONS ABOUT PROJECTED COSTS FOR EAST HELENA RI/FS WORK PLAN)
AUTHOR: TAYLOR, GENE D./EPA
ADDRESSEE: LOVELL, DOUGLAS W./CH2M HILL
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0889 THRU: 316/0890
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150333 DATE: MAR. 21, 1984 PAGE: 4
TITLE: (FOIA REQUEST FOR COPIES OF MATERIAL REFERENCED IN HRS DOCUMENTATION RECORDS ON LINCOLN PARK AND EAST HELENA SMELTER NPL HAZARDOUS WASTE SITES; ATTACHED TELECOPIER REQUEST AND MAIL CONTROL SCHEDULE)
AUTHOR: TURNER, JANE L./AMERICAN MINING CONGRESS
ADDRESSEE: WARDELL, JOHN F./EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1160000
MICROFILM ROLL/FRAME NO.: 316/0891 THRU: 316/0894
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150337 DATE: MAR. 21, 1984 PAGE: 4
TITLE: EAST HELENA WORK PLAN NOTES AND CH2M HILL LETTER ON ENDANGERMENT ASSESSMENT
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: SKIE, DOUG/(EPA) * WARDELL, JOHN/(EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060200 * 1060708 * 4070500 * 4070600
MICROFILM ROLL/FRAME NO.: 316/0895 THRU: 316/0898
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150341 DATE: MAR. 23, 1984 PAGE: 4
TITLE: (DOCUMENTS CH2M HILL REVISIONS APPROPRIATE FOR FINAL WORK PLAN)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: MCKOWN * DAVIS * SHOUP * MURPHY
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 1060708 * 4070500 * 4070600
MICROFILM ROLL/FRAME NO.: 316/0899 THRU: 316/0902
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150345 DATE: MAR. 23, 1984 PAGE: 1
TITLE: (TRANSMITS AND DISCUSSES DRAFT EAST HELENA SMELTER [ASARCO] SITE COMMUNITY RELATIONS PLAN FOR REVIEW)
AUTHOR: GILSON, SIGNE F./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: MCKOWN * LOVELL * WILLIS * DAVIS * SHOUP * D'AGOSTARO * RUSSO * TUOR
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 316/0903 THRU: 316/0903
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150346 DATE: MAR. 28, 1984 PAGE: 2
TITLE: (RESPONSE TO LETTER AND TELEPHONE CONVERSATION CONCERNING CHANGES IN FINAL WORK PLAN; TRANSMITS DRAFT EPA GUIDANCE DOCUMENT AND MARKED-UP COPY OF DRAFT WORK PLAN)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LOVELL, DOUG/CH2M HILL
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 1060708 * 4070600 * 4070500
MICROFILM ROLL/FRAME NO.: 316/0904 THRU: 316/0905
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150348 DATE: APR. 10, 1984 PAGE: 2
TITLE: MEMORANDUM OF CALL (NOTES COMMENTING ON ATTORNEYS HAVING OTHER ENFORCEMENT RELATED REQUIREMENTS OF ASARCO)
AUTHOR: GENE
ADDRESSEE: FROHARDT, PAUL/(HOLLAND AND HART)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 316/0906 THRU: 316/0907
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150350 DATE: APR. 9, 1984 PAGE: 2
TITLE: (TRANSMITS WORK PLAN FOR REMEDIAL INVESTIGATIONS FOR EAST HELENA SUPERFUND SITE; REQUESTS COMMENTS BY APR. 30)
AUTHOR: SKIE, DOUGLAS M./EPA
ADDRESSEE: SHARP, M. A./ASARCO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * MARGINALIA * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/0908 THRU: 316/0909
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150352 DATE: APR. 10, 1984 PAGE: 1
TITLE: (REQUEST TO REVISE MEETING NOTES FOR BOZEMAN MEETING BY ADDING DATE AND TIME; NEED TO WRITE MONTHLY FINANCIAL AND TECHNICAL REPORTS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MCKOWN, GARY/BATTELLE
CC: TAYLOR * DAVIS * SHOUP
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0910 THRU: 316/0910
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150353 DATE: APR. 17, 1984 PAGE: 5
TITLE: (DISCUSSES PERFORMANCE AUDIT OF EAST HELENA LEAD SAMPLING NETWORK; ATTACHED SYSTEM AUDIT OF HASTIE AND HADFIELD SITES, MAPS OF HASTIE AND HADFIELD SITES AND LETTER FROM STAIBLE TO ROBBINS)
AUTHOR: RAISCH, BOB
ADDRESSEE: STAIBLE, THOMAS F./EPA
CC: SKIE * TAYLOR
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 316/0911 THRU: 316/0915
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150358 DATE: APR. 23, 1984 PAGE: 7
TITLE: (REVIEW COMMENTS ON FINAL WORK PLAN PHASE 1 RI; TRANSMITS ATTACHED COMMENTS OF VARIOUS REVIEWERS)
AUTHOR: DICKSTEIN, IRWIN L./EPA
ADDRESSEE: TAYLOR, GENE
CC: JOHNSON * WARDELL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/0916 THRU: 316/0922
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150365 DATE: APR. 25, 1984 PAGE: 4
TITLE: (EXPLANATIONS TO FROHARDT CONCERNING RI/FS WORK PLAN; DISCUSSES FROHARDT CONCERNS)
AUTHOR: TAYLOR, GENE/(EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/0923 THRU: 316/0926
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150369 DATE: APR. 26, 1984 PAGE: 5
TITLE: (REQUESTS IMMEDIATE ATTENTION TO MATTER CONCERNING ASARCO DECISION TO REVIEW EPA DRAFT WORK PLAN THOROUGHLY IN LIGHT OF EXISTING STUDIES AND DATA RELATING TO EAST HELENA AREA)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: WELLES, JOHN/EPA
CC: WOODS * HART * SHARP * VARNER * BUNDY * NICKEL * WARDELL * SKIE * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/0927 THRU: 316/0931
NOTES: UPDATE 02

FILE: 1170302 DOCNO: 0150374 DATE: APR. 30, 1984 PAGE: 1
TITLE: (NOTES CONCERNING REVISIONS TO MSU SOILS, CROP AND LIVESTOCK PROTOCOLS; ADDED CONVERSATION NOTES BY TAYLOR)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: WHITE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0932 THRU: 316/0932
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150375 DATE: MAY 1, 1984 PAGE: 2
TITLE: (TRANSMITS SUBCONTRACTOR PROCUREMENT PACKAGE FOR SOIL/CROP/LIVESTOCK SAMPLING PLANS AND MSU PROPOSAL)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MCKOWN, GARY/BATTELLE
CC: DAVIS * SHOUP * VAN MUNSTER * TAYLOR * DOLLHOPF
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/0933 THRU: 316/0934
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150377 DATE: MAY 1, 1984 PAGE: 8
TITLE: (TRANSMITS ATTACHED TASK ORDERS 819, 820, 821, 822 AND 823 FOR PHASE 1 RI ACTIVITIES)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MORRIS, PAUL/BATTELLE
CC: DAVIS * VAN MUNSTER * SHOUP * MCKOWN * TAYLOR
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120106
MICROFILM ROLL/FRAME NO.: 316/0935 THRU: 316/0942
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150385 DATE: MAY 2, 1984 PAGE: 4
TITLE: (DISCUSSES CRITICAL ISSUES RELATING TO TIMING OF REVIEW OF DRAFT WORK PLAN FOR RI FOR PROPOSED EAST HELENA SUPERFUND SITE)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: WELLES, JOHN/EPA
CC: WOODS * HART * SHARP * VARNER * BUNDY * NICKEL * WARDELL * SKIE * TAYLOR
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/0943 THRU: 316/0946
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150389 DATE: MAY 2, 1984 PAGE: 4
TITLE: (COMMENTS ON FINAL WORK PLAN PHASE 1 RI; ATTACHED APR. 23, 1984 MEMO FROM DICKSTEIN)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: MCKOWN * DAVIS * HARRIS * SHOUP * CHATWIN
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/0947 THRU: 316/0950
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150393 DATE: MAY 3, 1984 PAGE: 2
TITLE: (ANNOUNCES COMPLETE LINE OF EPA RECOMMENDED SAMPLE CONTAINERS IS AVAILABLE FOR PURCHASE; TRANSMITS ATTACHED CURRENT PRICE LIST FOR REFERENCE)
AUTHOR: RUDD, ANITA C./I-CHEM RESEARCH CORPORATION
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/0951 THRU: 316/0952
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150395 DATE: MAY 3, 1984 PAGE: 4
TITLE: (CONFIRMS MAY 9 MEETING TO DISCUSS DRAFT RI/FS WORK PLAN; TRANSMITS ATTACHED SCHEDULE OF WORK FOR NEXT 45-60 DAYS PROPOSED FOR EAST HELENA SITE AND OVERALL PROPOSED SCHEDULE)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: FROHARDT, PAUL D./HOLLAND AND HART
CC: WILLEMS * MANGANIELLO * JOHNSON
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/0953 THRU: 316/0956
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150399 DATE: MAY 3, 1984 PAGE: 2
TITLE: (TRANSMITS CH2M HILL PROTOCOLS FOR SUPERFUND PROGRAM AND DISCUSSION THAT MSU WILL BE RESPONSIBLE FOR PROTOCOL)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: DAVIS * SHOUP * CHILLINGWORTH * MCKOWN * TAYLOR
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/0957 THRU: 316/0958
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150401 DATE: MAY 3, 1984 PAGE: 1
TITLE: (REQUESTS INFORMATION ON ALL MSU INDIVIDUALS WHO WILL OR MAY PARTICIPATE IN FIELD ACTIVITIES FOR ASARCO SITE)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: MCKOWN * DAVIS * SHOUP * CHILLINGWORTH * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/0959 THRU: 316/0959
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150402 DATE: MAY 4, 1984 PAGE: 1
TITLE: TELEPHONE CONVERSATION AND/OR VISITOR REPORT MAY 9, 1984 MEETING (EXPANSION OF LIST OF ATTENDEES)
AUTHOR: FROHARDT, PAUL/HOLLAND AND HART
ADDRESSEE: SKIE, (DOUG/EPA)
CC: JOHN * GENE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 316/0960 THRU: 316/0960
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150403 DATE: MAY 4, 1984 PAGE: 4
TITLE: (FOIA REQUEST FOR RECORDS IN EPA RELATING TO CERCLA, STUDIES, GUIDANCE DOCUMENTS AND MEMOS RELATING TO CERCLA AND CONTRACTS AND/OR AGREEMENTS BETWEEN STATE AND EPA RELATING TO CERCLA; ATTACHED MAIL CONTROL SCHEDULE)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: GREEN, JERALENE/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1160000
MICROFILM ROLL/FRAME NO.: 316/0961 THRU: 316/0964
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150407 DATE: MAY 4, 1984 PAGE: 1
TITLE: (DISCUSSES NOT USING X-RAY FLUORESCENCE FOR JUN. 1984 SOIL/CROP SAMPLING; REQUEST TO CONTACT COUNTY OR PUBLIC HEALTH OFFICIAL/VETERINARIAN REGARDING PLANNED LIVESTOCK BLOOD SAMPLING TO DETERMINE WHAT ASSISTANCE CAN BE PROVIDED)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * CHILLINGWORTH * DOLLHOPF * MCKOWN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101 * 4070500 * 4070600
MICROFILM ROLL/FRAME NO.: 316/0965 THRU: 316/0965
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150408 DATE: MAY 8, 1984 PAGE: 1
ATTACHED DOC(S): 0150409
TITLE: (CONFIRMS DISCUSSIONS REGARDING SAMPLING SITE ACCESS FOR PHASE 1 RI)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * MCKOWN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/0966 THRU: 316/0966
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150409 DATE: MAY 8, 1984 PAGE: 2
ATTACHED TO: 0150408
TITLE: (REQUESTS DISCLOSURE OF ALL WORK PERFORMED BY MSU FOR ASARCO TO DETERMINE IF ANY CONFLICT OF INTEREST EXISTS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: JUTILA, JOHN/MSU
CC: DAVIS * SHOUP * TAYLOR * MCKOWN * DOLLHOPF
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/0967 THRU: 316/0968
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150411 DATE: MAY 8, 1984 PAGE: 1
TITLE: (TRANSMITS FIRST DRAFT HEALTH AND SAFETY PLAN MARKED-UP BY LOVELL)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * CHILLINGWORTH * MCKOWN * DOLLHOPF * KARP * HOLM * FLEISSNER
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070201
MICROFILM ROLL/FRAME NO.: 316/0969 THRU: 316/0969
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150412 DATE: MAY 9, 1984 PAGE: 1
TITLE: (TRANSMITS FIRST DRAFT OF ASARCO RESPONSE TO RI WORK PLAN)
AUTHOR: SHARP, M. A./ASARCO
ADDRESSEE: SKIE, DOUGLAS M./EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/0970 THRU: 316/0970
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150413 DATE: MAY 14, 1984 PAGE: 6
TITLE: (TRANSMITS DRAFT QAPP; TABLE OF CONTENTS ATTACHED)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * HARRIS * CHATWIN * LINCOLN * MOORE * MCKOWN * MEUSER * SCHWAB * STAIBLE * HILLMAN * DOLLHOPF * FLEISSNER * HOLM
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/0971 THRU: 316/0976
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150419 DATE: MAY 11, 1984 PAGE: 2
TITLE: (TRANSMITS ADDITIONAL INFORMATION CONCERNING SOILS AND VEGETATION SAMPLING DATA FROM ASARCO IN VICINITY OF EAST HELENA PLANT)
AUTHOR: BUNDY, STEPHEN D./ASARCO
ADDRESSEE: SKIE, DOUGLAS M./EPA
CC: WARDELL * SHARP * FROHARDT * FOSTER * VARNER * ROBBINS * NICKEL * WHITE
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 316/0977 THRU: 316/0978
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150421 DATE: MAY 14, 1984 PAGE: 2
TITLE: (TRANSMITS COVER LETTER, FACT SHEET, REVISED APPENDIX A OF DRAFT COMMUNITY RELATIONS PLAN, PRESS RELEASE, LETTER TO MS. GARNETT DETRICK AND AGENDA FOR PUBLIC MEETING)
AUTHOR: LOVELL, DOUGLAS W/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * GILSON * MCKOWN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 316/0979 THRU: 316/0980
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150423 DATE: MAY 14, 1984 PAGE: 2
TITLE: TRI-WEEKLY STATE/EPA CERCLA MEETING SUMMARY
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: WILLEMS, DON/MDHES * ROBERTSON, DUANE/(MDHES) * ROBBINS, HAL/(MDHES) * PEDERSEN, DICK/(MDHES) * SHANKLIN, LEE/EPA * DUNN, JIM/EPA * TAYLOR, GENE/EPA * WALLINE, ROB/EPA * JOHNSON, LOU/EPA * METCALF, SHARON/EPA * HARRIS, JIM/EPA * SKIE, DOUG/EPA * HARRIS, TOM/EPA * PHILLIPS, GLENN/MDFWP
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010200
MICROFILM ROLL/FRAME NO.: 316/0981 THRU: 316/0982
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150425 DATE: MAY 15, 1984 PAGE: 6
TITLE: (RECOMMENDS MEUSER OF BATTELLE PERFORM SCREENING OF ASARCO DATA; RESUME ATTACHED)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * MCKOWN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/0983 THRU: 316/0988
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150431 DATE: MAY 15, 1984 PAGE: 1
TITLE: MONTHLY REPORTS PHASE 1 RI (REMINDER OF RESPONSIBILITY TO SCHEDULE MONTHLY REPORTS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MCKOWN, GARY/BATTELLE
CC: DAVIS * SHOUP * VAN MUNSTER * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/0989 THRU: 316/0989
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150432 DATE: MAY 15, 1984 PAGE: 2
TITLE: (TRANSMITS TECHNICAL MEMORANDUM, CRITERIA FOR CONTAMINANT LEVELS OF LEAD, CADMIUM, ZINC AND ARSENIC IN HELENA VALLEY SOILS AND CROPS)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: MCKOWN * TAYLOR * DOLLHOPF * KRESGE * GAVLAK
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 316/0990 THRU: 316/0991
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150434 DATE: MAY 15, 1984 PAGE: 2
TITLE: (CONFIRMS MAY 4, 1984 TELEPHONE CONVERSATIONS TO LAY OUT REVISED SCHEDULE FOR RI/FS)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: FROHARDT, PAUL D./HOLLAND AND HART
CC: NICKEL * ROBBINS * JOHNSON * MANGANIELLO * LOVELL
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/0992 THRU: 316/0993
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150436 DATE: MAY 15, 1984 PAGE: 1
TITLE: (TRANSMITS CORRESPONDENCE RELATIVE TO LABORATORY INSPECTIONS AT ASARCO SALT LAKE CITY DEPARTMENT OF ENVIRONMENTAL SCIENCES)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: STAIBLE, TOM/EPA
CC: TAYLOR * MCKOWN
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/0994 THRU: 316/0994
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150437 DATE: MAY 16, 1984 PAGE: 10
TITLE: (TRANSMITS ATTACHED CH2M HILL RESPONSE TO ASARCO COMMENTS ON WORK PLAN)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * HARRIS * CHATWIN * MCKOWN * DOLLHOPF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/0995 THRU: 316/1004
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150447 DATE: MAY 16, 1984 PAGE: 9
TITLE: (CONFIRMS UNDERSTANDING OF ATTACHED PROJECT SCHEDULE)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SHOUP * SELLMAN * CHILLINGWORTH * LABAR * HARRIS * HOLM * FLEISSNER * DAVIS * MOORE * ROWLISON * STONECIPHER * CHATWIN * LINCOLN * WALLACE * SCHWAB * HILLMAN * STAIBLE * MCKOWN * MEUSER * DEVARY * DOLLHOPF * KRESGE * GAVLAK * JONES * MORRIS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/1005 THRU: 316/1013
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150456 DATE: MAY 17, 1984 PAGE: 2
TITLE: (TRANSMITS RECOMMENDED CHANGES TO WRMP AND BATTELLE SUPPORTING EVALUATION)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * HARRIS * CHATWIN * MCKOWN * DOLLHOPF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1014 THRU: 316/1015
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150458 DATE: MAY 17, 1984 PAGE: 2
TITLE: (TRANSMITS ANALYTICAL DATA ADDRESSING SOILS, VEGETATION AND LIVESTOCK SAMPLING)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: WARDELL * SKIE
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030300 * 4030300 * 4070500 * 4070600
MICROFILM ROLL/FRAME NO.: 316/1016 THRU: 316/1017
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150460 DATE: MAY 17, 1984 PAGE: 3
TITLE: (REQUESTS REVIEW OF ATTACHED SELF-EVALUATION; REQUEST FOR INPUT FROM SKIE AND WARDELL ON RI/FS)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: MCKOWN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1018 THRU: 316/1020
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150463 DATE: MAY 18, 1984 PAGE: 5
TITLE: (REQUESTS ATTACHED EDITORIAL CHANGES BE MADE ON DRAFT WORK PLAN)
AUTHOR: G. T.
ADDRESSEE: DOUG
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1021 THRU: 316/1025
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150468 DATE: MAY 18, 1984 PAGE: 6
TITLE: (TRANSMITS ATTACHED EPA COMMENTS ON ASARCO WATER RESOURCES MONITORING PLAN)
AUTHOR: SKIE, DOUGLAS M./EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030100 * 4070800 * 4030100
MICROFILM ROLL/FRAME NO.: 316/1026 THRU: 316/1031
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150474 DATE: MAY 18, 1984 PAGE: 1
TITLE: (TRANSMITS MURPHY FINAL WORK PLAN COMMENTS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1032 THRU: 316/1032
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150475 DATE: MAY 18, 1984 PAGE: 3
TITLE: (RESPONSE TO MAY 4, 1984 FOIA REQUEST RIN-1481-84 ASKING FOR ALL RECORDS DEVELOPED, GENERATED OR ACQUIRED BY EPA AFTER INITIAL NOV. 23, 1983 REQUEST)
AUTHOR: HEDEMAN, WILLIAM N./EPA
ADDRESSEE: FROHARDT, PAUL D./HOLLAND AND HART
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1160000
MICROFILM ROLL/FRAME NO.: 316/1033 THRU: 316/1035
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150478 DATE: MAY 18, 1984 PAGE: 4
TITLE: (NOTIFIES OF TRANSFER OF RESPONSIBILITIES FOR REVIEW OF ASARCO DATA ON MAY 22, 1984 TO COLDIRON; ATTACHED RESUME OF COLDIRON)
AUTHOR: DAWSON, GAYNOR W./BATTELLE
ADDRESSEE: TAYLOR, GENE/EPA
CC: LOVELL * COLDIRON
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1036 THRU: 316/1039
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150482 DATE: MAY 21, 1984 PAGE: 2
TITLE: (COMMENTS RELATING TO QAPP AND APPENDICES A, B, C)
AUTHOR: CHATWIN, T.D./CH2M HILL
ADDRESSEE: LOVELL, DOUG/(CH2M HILL)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1040 THRU: 316/1041
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150484 DATE: MAY 21, 1984 PAGE: 14
TITLE: (TRANSMITS ATTACHED REVISED CALCULATION FOR COSTS OF SOIL/CROP SAMPLING TENTATIVELY SCHEDULED FOR JUN. 18, 1984)
AUTHOR: LOVELL, DOUGLAS W/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON * DOLLHOPF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070201 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1042 THRU: 316/1055
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150498 DATE: MAY 21, 1984 PAGE: 6
TITLE: (TRANSMITS ATTACHED EPA COMMENTS ON ASARCO WATER RESOURCES MONITORING PLAN [WRMP])
AUTHOR: SKIE, DOUGLAS M./EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
CC: PILCHER
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030100, * 4070800 * 4030100
MICROFILM ROLL/FRAME NO.: 316/1056 THRU: 316/1061
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150504 DATE: MAY 21, 1984 PAGE: 13
TITLE: (TRANSMITS ATTACHED DESCRIPTION OF INTERMOUNTAIN AMBIENT QUALIFICATIONS AND ALBEN [BEN] THEODORE MYREN RESUME)
AUTHOR: MYREN, ALBEN T./INTERMOUNTAIN AMBIENT
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120109
MICROFILM ROLL/FRAME NO.: 316/1062 THRU: 316/1074
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150517 DATE: MAY 21, 1984 PAGE: 2
TITLE: (CONFIRMS UNDERSTANDING OF RECENT DISCUSSIONS CONCERNING PUBLIC COMMENTS AND ASARCO EXECUTION OF RI)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/1075 THRU: 316/1076
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150519 DATE: MAY 21, 1984 PAGE: 1
ATTACHED DOC(S): 0150520
TITLE: BATTELLE STAFF CHANGES PHASE 1 RI (ATTACHED LETTER FROM JUTILA/MSU REGARDING CONFLICT OF INTEREST)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DAWSON, GAYNOR/BATTELLE
CC: DAVIS * SHOUP * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1077 THRU: 316/1077
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150520 DATE: MAY 16, 1984 PAGE: 1
ATTACHED TO: 0150519
TITLE: (RESPONSE TO LOVELL LETTER OF MAY 4, 1984 IN REFERENCE TO POSSIBLE CONFLICT OF INTEREST WHICH MIGHT EXIST IN RELATION TO WORK MSU MIGHT PERFORM FOR CH2M HILL)
AUTHOR: JUTILA, JOHN W./MSU
ADDRESSEE: LOVELL, DOUGLAS W./CH2M HILL
CC: MUNSHOWER
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1078 THRU: 316/1078
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150521 DATE: MAY 21, 1984 PAGE: 2
TITLE: (TRANSMITS INFORMATION SENT BY TAYLOR CONSISTING OF ORD EVALUATION OF GROUNDWATER MONITORING MATERIALS AND UPDATE ON ASARCO DATA)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DAWSON, GAYNOR/BATTELLE
CC: DAVIS * SHOUP * DOLLHOPF * TAYLOR
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030400
MICROFILM ROLL/FRAME NO.: 316/1079 THRU: 316/1080
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150523 DATE: MAY 23, 1984 PAGE: 1
TITLE: (TRANSMITS SOIL, VEGETATION AND GRAIN ANALYSES FOR HATLELID, CORY AND LAMPING PROPERTIES)
AUTHOR: NICKEL, JON C./(ASARCO)
ADDRESSEE: KRESGE, PAUL/MSU
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1081 THRU: 316/1081
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150524 DATE: MAY 23, 1984 PAGE: 1
TITLE: (TRANSMITS DRAFT OPERATIONAL PLAN FOR REVIEW)
AUTHOR: DAWSON, GAYNOR W./BATTELLE
ADDRESSEE: LOVELL, DOUG/CH2M HILL
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030300 * 4030100
MICROFILM ROLL/FRAME NO.: 316/1082 THRU: 316/1082
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150525 DATE: MAY 24, 1984 PAGE: 1
TITLE: (TRANSMITS COVER LETTERS FOR ANNUAL SOIL AND VEGETATION SURVEY AND GRID COORDINATES FOR SAMPLE SITE LOCATIONS FOR 1977-1983)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: DEVARY, JOE
CC: TAYLOR
QUALIFIER(S): INCOMPLETE * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030300 * 4020000
MICROFILM ROLL/FRAME NO.: 316/1083 THRU: 316/1083
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150526 DATE: MAY 25, 1984 PAGE: 1
TITLE: (TRANSMITS FINAL COMMUNITY RELATIONS PLANS FOR EAST HELENA SITE WITH COMMENTS AND REVISIONS)
AUTHOR: GILSON, SIGNE F./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: MCKOWN * LOVELL * WILLIS * DAVIS * SHOUP * D'AGOSTARO * RUSSO * HARRIS * TUOR * SCHILLING
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 316/1084 THRU: 316/1084
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150527 DATE: MAY 29, 1984 PAGE: 4
TITLE: (TRANSMITS REVISED FINAL TEXT OF SUBJECT WORK PLAN; TITLE PAGE AND TABLE OF CONTENTS ATTACHED)
AUTHOR: LOVELL, DOUGLAS W/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: WILLIS * BOORNAZIAN * TYLER * MURPHY * SELLMAN * D'AGOSTARO * DAVIS * SCHILLING * HARRIS * WALLACE * CHATWIN * HARRIS * SCHWAB * DAWSON * LINCOLN
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1085 THRU: 316/1088
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150531 DATE: MAY 29, 1984 PAGE: 3
TITLE: (TRANSMITS ASARCO DATA OBTAINED DURING LEVEL A REVIEW IN SALT LAKE CITY; LISTS TEN PACKAGES CONSISTING OF ANNUAL MONITORING DATA 1977-1983, 1983 INTERA REPORT, AD HOC SOIL AND VEGETATION STUDIES AND LIVESTOCK STUDIES; DISCUSSION OF DATA REVIEW)
AUTHOR: DAWSON, GAYNOR W./BATTELLE
ADDRESSEE: LOVELL, DOUGLAS/CH2M HILL
CC: TAYLOR
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101 * 4070600
MICROFILM ROLL/FRAME NO.: 316/1089 THRU: 316/1091
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150534 DATE: MAY 29, 1984 PAGE: 1
TITLE: (TRANSMITS PROPOSED SOIL SAMPLING PLAN FOR ASARCO)
AUTHOR: DEVARY, JOSEPH/BATTELLE
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 316/1092 THRU: 316/1092
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150535 DATE: MAY 29, 1984 PAGE: 2
TITLE: (REQUESTS REVIEW, REVISE, TYPE, SIGN AND RETURN ATTACHED MEMO FROM TAYLOR WHICH WILL INTRODUCE CH2M HILL TO PRIVATE PROPERTY OWNERS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON * DOLLHOPF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1093 THRU: 316/1094
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150537 DATE: MAY 29, 1984 PAGE: 17
TITLE: (TRANSMITS ATTACHED MAY 23-24, 1984 MEETING NOTES WITH ASARCO)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SHOUP * DAWSON * DAVIS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1010200
MICROFILM ROLL/FRAME NO.: 316/1095 THRU: 316/1111
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150554 DATE: MAY 29, 1984 PAGE: 1
TITLE: (TRANSMITS DRAFT RESPONSE TO ASARCO COMMENTS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DAWSON, GAYNOR/BATTELLE
CC: DAVIS * SHOUP * DOLLHOPF * TAYLOR
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1112 THRU: 316/1112
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150555 DATE: MAY 29, 1984 PAGE: 1
TITLE: (DOCUMENTS CH2M HILL UNDERSTANDING OF SUBSTANTIAL CHANGES MADE TO FINAL WORK PLAN)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON * DOLLHOPF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1113 THRU: 316/1113
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150556 DATE: MAY 29, 1984 PAGE: 3
TITLE: (RESPONSE TO DAWSON MAY 25, 1984 ATTACHED LETTER TO LOVELL; ACCEPTANCE OF REASONING BEHIND BATTELLE RECENT STAFF CHANGES)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DAWSON, GAYNOR/BATTELLE
CC: DAVIS * SHOUP * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1114 THRU: 316/1116
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150559 DATE: MAY 30, 1984 PAGE: 3
TITLE: (NOTES FROM TELEPHONE CONVERSATION WITH FROHARDT CONCERNING CHANGES IN WORK PLAN)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1117 THRU: 316/1119
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150562 DATE: MAY 30, 1984 PAGE: 19
TITLE: (TRANSMITS ATTACHED EPA RESPONSE TO ASARCO CRITIQUE OF RI/FS WORK PLAN, POSITION ON SURFACE AND GROUNDWATER MONITORING PROGRAM DEVELOPED BY HYDROMETRICS, AND PRELIMINARY FINDINGS ON EVALUATION OF ASARCO SOIL AND PLANT DATA; ATTACHED TRANSMITTAL)
AUTHOR: SKIE, DOUGLAS M./EPA
ADDRESSEE: FROHARDT, PAUL D./HOLLAND AND HART
CC: WILLEMS * NICKEL * BUNDY
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/1120 THRU: 316/1138
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150581 DATE: MAY 30, 1984 PAGE: 13
TITLE: (TRANSMITS ATTACHED EPA RESPONSE TO ASARCO CRITIQUE OF RI/FS WORK PLAN, EPA POSITION ON SURFACE AND GROUNDWATER MONITORING PROGRAM DEVELOPED BY HYDROMETRICS, AND PRELIMINARY FINDINGS ON EVALUATION OF ASARCO SOIL AND PLANT DATA)
AUTHOR: SKIE, DOUGLAS M./EPA
ADDRESSEE: FROHARDT, PAUL D./HOLLAND AND HART
CC: WILLEMS * NICKEL * BUNDY
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 3030200 * 4030200
MICROFILM ROLL/FRAME NO.: 316/1139 THRU: 316/1151
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150594 DATE: JUN. 1, 1984 PAGE: 3
TITLE: (DISCUSSES CONDUCTING PHASE 1 RI IN AREA SURROUNDING AND INCLUDING SMELTER IN EAST HELENA; ATTACHED MAY 1984 FACT SHEET; NOTIFICATION OF JUN. 6, 1984 PUBLIC MEETING)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: INTERESTED GROUPS
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1100500 * 1060200 * 1070201
MICROFILM ROLL/FRAME NO.: 316/1152 THRU: 316/1154
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150597 DATE: JUN. 1, 1984 PAGE: 1
TITLE: (DISCUSSES PUBLIC REVIEW OF REPORT AND OTHER INFORMATION ABOUT REMEDIAL RESPONSE ACTIVITIES AT EAST HELENA SITE; TRANSMITS RI WORK PLAN AND FACT SHEET)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: DETRICK, GARNETT/EAST HELENA CITY HALL
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * ORIGINAL * TISSUE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1101000
MICROFILM ROLL/FRAME NO.: 316/1155 THRU: 316/1155
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150598 DATE: JUN. 1, 1984 PAGE: 6
TITLE: (TRANSMITS WORK PLAN FOR CONDUCTING RI AND FACT SHEET SUMMARIZING RI AND TABLE OF CONTENTS)
AUTHOR: TAYLOR, GENE/(EPA)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060200 * 1100200
MICROFILM ROLL/FRAME NO.: 316/1156 THRU: 316/1161
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150604 DATE: JUN. 1, 1984 PAGE: 3
TITLE: (LISTS REASONS MSU BELIEVES IMPERATIVE FOR SAMPLING PLANT MATERIALS IN EARLY JUN. IN HELENA VALLEY)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: TAYLOR, GENE/EPA
CC: LOVELL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070500
MICROFILM ROLL/FRAME NO.: 316/1162 THRU: 316/1164
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150607 DATE: JUN. 1, 1984 PAGE: 1
TITLE: (EPA CONTRACT LABORATORY REQUEST)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MASINO, MARK/CALIFORNIA ANALYTICAL LABORATORIES
CC: SCHWAB * TAYLOR * DAVIS * SHOUP * AUSSERER * DAWSON * DOLLHOPF
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1165 THRU: 316/1165
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150608 DATE: JUN. 5, 1984 PAGE: 3
TITLE: (TRANSMITS REVISED APPROVAL PACKAGE AND OLD APPROVAL PACKAGE; TITLE PAGE FOR ENCLOSURE A ATTACHED)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON * BOORNAZIAN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1166 THRU: 316/1168
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150611 DATE: JUN. 5, 1984 PAGE: 3
TITLE: (DISCUSSES CONFERENCE CALL HELD JUN. 5, 1984 BETWEEN TAYLOR, LOVELL, DAWSON, SCHALLA AND BOTZ CONCERNING MODIFICATION OF ATTACHMENT 2)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON * SCHALLA * BOTZ
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/1169 THRU: 316/1171
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150614 DATE: JUN. 5, 1984 PAGE: 1
TITLE: (WEEKLY SIGNIFICANT ACTIVITIES REPORT FOR ASARCO)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: WELLES, JOHN G./EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010200
MICROFILM ROLL/FRAME NO.: 316/1172 THRU: 316/1172
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150615 DATE: JUN. 6, 1984 PAGE: 2
ATTACHED DOC(S): 0150617
TITLE: COMMENTS ON DRAFT WORK PLAN FOR ASARCO, EAST HELENA
AUTHOR: ROY
QUALIFIER(S): ORIGINAL * HANDWRITTEN * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: NOTES
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1173 THRU: 316/1174
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150617 DATE: JUN. 6, 1984 (E) PAGE: 2
ATTACHED TO: 0150615
TITLE: (OUTLINES) PREPARATION OF ENDANGERMENT ASSESSMENT
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LIST
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 316/1175 THRU: 316/1176
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150619 DATE: JUN. 6, 1984 PAGE: 4
TITLE: (PRESENTATION OF UNDERSTANDING OF RECENT DISCUSSION REGARDING NUMBER OF SOIL/CROP SAMPLING LOCATIONS AND NUMBER OF SOIL/CROP SAMPLES)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON * DOLLHOPF * HOLM * FLEISSNER
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101 * 4030300 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1177 THRU: 316/1180
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150623 DATE: JUN. 6, 1984 PAGE: 2
TITLE: (CLARIFIES INTENT REGARDING RETENTION OF MSU FOR PHASE 1 RI ACTIVITIES AT EAST HELENA)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: DAVIS * SHOUP * DAWSON * TAYLOR
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1181 THRU: 316/1182
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150625 DATE: JUN. 6, 1984 PAGE: 2
TITLE: TELEPHONE CONVERSATION AND/OR VISITOR REPORT (DISCUSSES ASARCO ORDER AND WORK PLAN ACTIVITIES)
AUTHOR: SKIE, (DOUG/EPA)
ADDRESSEE: SUE M.
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 316/1183 THRU: 316/1184
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150627 DATE: JUN. 6, 1984 PAGE: 4
TITLE: MAY 21, 1984 TRI-WEEKLY STATE/EPA CERCLA MEETING SUMMARY
AUTHOR: SKIE, DOUG/EPA
ADDRESSEE: WILLEMS, DON/ESD * ROBERTSON, DUANE/(MDHES) * WARDELL, JOHN/EPA * ROBBINS, HAL/(MDHES) * PEDERSEN, DICK/(MDHES) * SHANKLIN, LEE/EPA * DUNN, JIM/EPA * TAYLOR, GENE/EPA * WALLINE, ROB/EPA * JOHNSON, LOU/EPA * CALLAWAY, REX/EPA * HARRIS, JIM/EPA * SKIE, DOUG/EPA * HARRIS, TOM/EPA * PHILLIPS, GLENN/MDFWP * NAWAR, MADELINE/EPA * FINKE, ERIC/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010200
MICROFILM ROLL/FRAME NO.: 316/1185 THRU: 316/1188
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150631 DATE: JUN. 6, 1984 PAGE: 2
TITLE: (CONFIRMS DISCUSSION THERE WILL BE 50 CORE/CROP SAMPLING LOCATIONS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON * DOLLHOPF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1189 THRU: 316/1190
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150633 DATE: JUN. 6, 1984 PAGE: 1
TITLE: (CONFIRMS DISCUSSIONS REGARDING STATISTICAL SIGNIFICANCE STATEMENTS AFTER SOIL/CROP DATA IS COLLECTED)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DAWSON, GAYNOR/BATTELLE
CC: DAVIS * SHOUP * TAYLOR * DOLLHOPF
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1191 THRU: 316/1191
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150634 DATE: JUN. 6, 1984 PAGE: 1
TITLE: (REQUEST TO ABIDE BY REVISED COST ESTIMATES CONTAINED IN JUN. 5, 1984 REVISED WORK PLAN APPROVAL PACKAGE REGARDLESS OF TASK ORDERS ISSUED FOR THIS PROJECT)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DAWSON, GAYNOR/BATTELLE
CC: DAVIS * SHOUP * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1192 THRU: 316/1192
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150635 DATE: JUN. 6, 1984 PAGE: 1
TITLE: (TRANSMITS REQUESTED INFORMATION REGARDING USE OF STANDARD LAB CONTROL SAMPLES FOR SOIL/CROP STUDY AND PROCEDURES FOR LABORATORY QC CHECKS)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: DOLLHOPF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1193 THRU: 316/1193
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150636 DATE: JUN. 6, 1984 PAGE: 2
TITLE: (NOTIFIES SOIL/CROP SAMPLING IS PLANNED FOR JUN. 18, 1984 AND CERTAIN SUBTASKS WILL NOT BE PERFORMED PRIOR TO THIS EFFORT IN CONTRADICTION TO FINAL WORK PLAN)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON * DOLLHOPF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1194 THRU: 316/1195
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150638 DATE: JUN. 7, 1984 PAGE: 5
TITLE: BOTTLE AND PAPERWORK REQUEST PHASE 1 RI (LIST OF NEEDED SAMPLING ITEMS)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: EMERY, JIM
CC: DAWSON * TAYLOR
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/1196 THRU: 316/1200
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150643 DATE: JUN. 7, 1984 PAGE: 2
TITLE: (TRANSMITS ATTACHED REVISED EPA CONTRACT LABORATORY REQUEST)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MAIORANA, TONY/ROCKY MOUNTAIN ANALYTICAL LABORATORIES
CC: SCHWAB * TAYLOR * DAVIS * SHOUP * AUSSERER * DAWSON * DOLLHOPF
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1201 THRU: 316/1202
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150645 DATE: JUN. 8, 1984 PAGE: 23
TITLE: (TRANSMITS ATTACHED REVISION 2 FOR CONTRACT LABORATORY REQUEST)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MASINO, MARK/CALIFORNIA ANALYTICAL LABORATORIES * SCHOFFMAN, ALAN/CHEMTECH CONSULTING * MAIORANA, TONY/ROCKY MOUNTAIN ANALYTICAL LABORATORIES * NIVENS, BILL/VERSAR
CC: SCHWAB * TAYLOR * DAVIS * SHOUP * AUSSERER * DAWSON * DOLLHOPF
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1203 THRU: 316/1225
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150668 DATE: JUN. 8, 1984 PAGE: 3
TITLE: (AUTHORIZATION OF $1569.00 FOR ENTRANCE EXAMINATIONS FOR MSU PERSONNEL BY TAYLOR; AUTHORIZATION BY LOVELL FOR MSU TO BEGIN PHYSICALS JUN. 11, 1984)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON * DOLLHOPF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1226 THRU: 316/1228
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150671 DATE: JUN. 8, 1984 PAGE: 2
TITLE: (CONFIRMS AUTHORIZATION FOR MSU TO SPEND $2000.00 TO PRODUCE STANDARD SOIL SAMPLES, STANDARD CROP SAMPLES AND CORE BARRELS/BITS FOR GIDDINGS CORING MACHINE)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: DAVIS * SHOUP * DAWSON * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1229 THRU: 316/1230
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150673 DATE: JUN. 8, 1984 PAGE: 1
TITLE: (DISCUSSES DIFFERENCE OF OPINION REGARDING RESPECTIVE ROLES OF BATTELLE AND MSU TEAM CONCERNING SOIL WORK TO BE PERFORMED AT EAST HELENA SITE)
ADDRESSEE: LOVELL, DOUGLAS W./CH2M HILL
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101 * 4030300
MICROFILM ROLL/FRAME NO.: 316/1231 THRU: 316/1231
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150674 DATE: JUN. 8, 1984 PAGE: 2
TITLE: (RESPONSE TO FOIA AND TRANSMITTAL OF REQUESTED INFORMATION WHICH WAS DEEMED AVAILABLE FOR PUBLIC RELEASE; SOME INFORMATION WITHHELD)
AUTHOR: WELLES, JOHN G./EPA
ADDRESSEE: FROHARDT, PAUL D./HOLLAND AND HART
CC: /EPA * WARDELL
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1160000
MICROFILM ROLL/FRAME NO.: 316/1232 THRU: 316/1233
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150676 DATE: JUN. 11, 1984 PAGE: 4
TITLE: (NOTIFIES SAMPLES WILL BE COLLECTED AT SOME FRACTION OF 115 SURFACE SOIL SITES)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON * DOLLHOPF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070500
MICROFILM ROLL/FRAME NO.: 316/1234 THRU: 316/1237
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150680 DATE: JUN. 11, 1984 PAGE: 1
TITLE: (TRANSMITS ASARCO COMMENTS TO EPA REVISED EAST HELENA WORKPLAN JUN. 4, 1984)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: SKIE, DOUGLAS M./EPA
CC: WARDELL
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1238 THRU: 316/1238
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150681 DATE: JUN. 12, 1984 PAGE: 1
TITLE: (EPA APPROVAL FOR ASARCO TO PERFORM SOIL AND CROP ANALYSIS CONTINGENT ON LISTED CRITERIA)
ADDRESSEE: HART, BILL/ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030300 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1239 THRU: 316/1239
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150682 DATE: JUN. 12, 1984 PAGE: 3
TITLE: (NOTIFIES OF DECISION TO SPLIT UP RI/FS WORK PLAN ACTIVITIES VIA 106 SEPARATION ISSUE ORDER THAT APPLIES ONLY TO ASARCO)
AUTHOR: DMS
ADDRESSEE: RSPO
CC: JIM * LEE * ERIC * GENE * TOM
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1240 THRU: 316/1242
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150685 DATE: JUN. 13, 1984 PAGE: 3
TITLE: (DISCUSSES ASARCO BELIEF MAJOR ASPECTS OF RI PROPOSED BY EPA ARE DUPLICATIVE, EXCESSIVE AND UNWARRANTED; LISTS CONDITIONS ASARCO WOULD BE WILLING TO PARTICIPATE IN CERTAIN ASPECTS OF RI)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: WARDELL, JOHN/EPA
CC: SHARP * WOODS * VARNER * ROBBINS * BUNDY * NICKEL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/1243 THRU: 316/1245
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150688 DATE: JUN. 13, 1984 PAGE: 1
TITLE: (CONFIRMS CH2M HILL HAS BEEN AUTHORIZED TO PROCEED WITH SOIL/CROP SAMPLING FOR EAST HELENA)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON * DOLLHOPF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1246 THRU: 316/1246
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150692 DATE: JUN. 14, 1984 PAGE: 4
TITLE: (CONFIRMS DISCUSSIONS REGARDING REQUIRED DETECTION LIMITS FOR SOIL/CROP TESTING)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: DAVIS * SHOUP * DAWSON * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4030300 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1247 THRU: 316/1250
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150696 DATE: JUN. 14, 1984 PAGE: 2
TITLE: (CONFIRMS DISCUSSION REGARDING LABORATORY ANALYSIS OF SOIL SAMPLES FROM SOIL/CROP SAMPLING AT EAST HELENA DEALING WITH XRD ANALYSIS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DAWSON, GAYNOR/BATTELLE
CC: DAVIS * SHOUP * DOLLHOPF * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4030300 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1251 THRU: 316/1252
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150698 DATE: JUN. 14, 1984 PAGE: 2
TITLE: (COMMENTS ON DECISION TO ALLOW ASARCO PARTICIPATION IN EAST HELENA ENDANGERMENT ASSESSMENT)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: SKIE, DOUG/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * TISSUE COPY * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 316/1253 THRU: 316/1254
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150700 DATE: JUN. 14, 1984 PAGE: 1
TITLE: (CONFIRMS DISCUSSIONS REGARDING CLP REPORTING TIMES, MAXIMUM OF 120 DAYS FROM RECEIPT OF SAMPLES TO PRESENTATION OF RESULTS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DAWSON * DOLLHOPF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1255 THRU: 316/1255
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150701 DATE: JUN. 15, 1984 PAGE: 1
ATTACHED DOC(S): 0150702 THRU: 0150706
TITLE: (CONFIRMS TELEPHONE CONVERSATION OF JUN. 13-14 GIVING GO-AHEAD FOR SOIL AND CROP SAMPLING)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LOVELL, DOUGLAS W./CH2M HILL
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120100
MICROFILM ROLL/FRAME NO.: 316/1256 THRU: 316/1256
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150702 DATE: JUN. 22, 1984(E) PAGE: 5
ATTACHED TO: 0150701
TITLE: (NOTES AND SCHEDULE ON ITEMS TO BE ACCOMPLISHED)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 316/1257 THRU: 316/1261
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150707 DATE: JUN. 20, 1984 PAGE: 8
TITLE: CDC QUARTERLY REPORT 4 APR. 1 - JUN. 20, 1984 (ATTACHED MOU AND COMPLETION SCHEDULE)
AUTHOR: MAUGHAN, DAVID/MDHES
ADDRESSEE: SOKAL, DAVID/CDC
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120102 * 1030100
MICROFILM ROLL/FRAME NO.: 316/1262 THRU: 316/1269
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150715 DATE: JUN. 21, 1984 PAGE: 1
TITLE: (NOTIFIES SKIE WILL BE MAJOR CONTACT; LISTS TASKS TO BE COMPLETED FOR SKIE)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LOVELL, DOUG/CH2M HILL
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/1270 THRU: 316/1270
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150716 DATE: JUN. 22, 1984 PAGE: 3
TITLE: (DETAILS OF JUN. 22, 1984 TELEPHONE CONVERSATION BETWEEN NEUMAN AND ROBBINS CONCERNING SOIL AND CROP SAMPLES)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: SKIE, DOUG/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1271 THRU: 316/1273
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150719 DATE: JUN. 28, 1984 PAGE: 3
TITLE: (SUMMARIZES EFFORTS TO DATE REGARDING FINALIZATION OF SECTION 106 ORDER)
AUTHOR: FROHARDT, PAUL/HOLLAND AND HART
ADDRESSEE: SKIE, DOUGLAS M./EPA
CC: SHARP * HART * ROBBINS * BUNDY * VARNER * NICKEL * MANGANIELLO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 316/1274 THRU: 316/1276
NOTES: UPDATE 02

FILE: 1170303 DOCNO: 0150722 DATE: JUN. 29, 1984 PAGE: 9
TITLE: (TRANSMITS ATTACHED TELEPHONE CONVERSATION RECORDS ON VERBAL AGREEMENTS: JUN. 28, 1984 WITH LOVELL CONCERNING COMMENTS ON WRMP, JUN. 29 ADDITIONAL REQUIREMENTS FOR WRMP, JUN. 29 SAMPLING PROCEDURES, AND JUN. 26 SAMPLE SPLITS WITH ASARCO)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):4020000
MICROFILM ROLL/FRAME NO.: 316/1277 THRU: 316/1285
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150731 DATE: JUL. 2, 1984 PAGE: 1
TITLE: (NOTIFIES FINAL WATER RESOURCES MONITORING PLAN FOR ASARCO EAST HELENA HAS BEEN COMPLETED)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: SKIE, DOUGLAS M./EPA
CC: MANGANIELLO * FROHARDT * HART * ROBBINS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300
MICROFILM ROLL/FRAME NO.: 316/1286 THRU: 316/1286
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150732 DATE: JUL. 3, 1984 PAGE: 3
TITLE: TRI-WEEKLY STATE/EPA CERCLA MEETING SUMMARY (LISTS SIGNIFICANT ISSUES AND MAJOR ACTION ITEMS)
AUTHOR: SKIE, DOUG/(EPA)
ADDRESSEE: WILLEMS, DON/ESD * HAYDEN, BRACE/OG * ROBERTSON, DUANE/(MDHES) * WARDELL, JOHN/EPA * RUBICH, MIKE/(MDHES) * KARLSEN, BARB/(MDHES) * ROBBINS, HAL/(MDHES) * PEDERSEN, DICK/(MDHES) * SHANKLIN, LEE/EPA * DUNN, JIM/EPA * TAYLOR, GENE/EPA * WALLINE, ROB/EPA * JOHNSON, LOU/EPA * CALLAWAY, REX/EPA * HARRIS, JIM/EPA * HARRIS, TOM/EPA * PHILLIPS, GLENN/MDFWP * NAWAR, MADELINE/EPA * FINKE, ERIC/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010200
MICROFILM ROLL/FRAME NO.: 316/1287 THRU: 316/1289
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150735 DATE: JUL. 3, 1984 PAGE: 1
TITLE: (NOTIFIES ESTIMATES OF POTENTIALLY RECOVERABLE COSTS DEALING WITH OVERSIGHT ROLE OF EPA WILL BE FORWARDED)
AUTHOR: SKIE, DOUGLAS M./EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
CC: LOVELL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020101
MICROFILM ROLL/FRAME NO.: 316/1290 THRU: 316/1290
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150736 DATE: JUL. 9, 1984 PAGE: 4
TITLE: (TRANSMITS ATTACHED REQUIREMENTS FOR LABORATORY ANALYTICAL WORK; SURFACE WATER, SEDIMENT CARE AND GROUNDWATER SAMPLES AND SOW)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: ROBBINS * STAIBLE * DAVIS * AYCOCK * LUCERO * SHARP
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 3030200 * 4030200
MICROFILM ROLL/FRAME NO.: 316/1291 THRU: 316/1294
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150740 DATE: JUL. 11, 1984 PAGE: 3
TITLE: (TRANSMITS ATTACHED ERRATA TO UPDATE REVISED WORK PLAN)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: WILLIS * BOORNAZIAN * TYLER * MURPHY * SELLMAN * D'AGOSTARO * DAVIS * SCHILLING * HARRIS * WALLACE * CHATWIN * HARRIS * SCHWAB * DAWSON * LINCOLN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1295 THRU: 316/1297
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150743 DATE: JUL. 12, 1984 PAGE: 1
TITLE: REVIEW OF JUL. 9, 1984 DRAFT OF REQUIREMENTS FOR LABORATORY ANALYTICAL WORK - SURFACE WATER, SEDIMENT, CORE, AND GROUNDWATER SAMPLES, PHASE 1 RI ASARCO, MT RI/FS
AUTHOR: HILLMAN, JUANITA J./EPA
ADDRESSEE: SKIE, DOUGLAS/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):3030200 * 4030200
MICROFILM ROLL/FRAME NO.: 316/1298 THRU: 316/1298
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150744 DATE: JUL. 13, 1984 PAGE: 6
TITLE: (TRANSMITS ATTACHED JUL. 3, 1984 LETTER FROM ROBBINS TO SKIE FOR REVIEW AND COMMENT CONCERNING EPA 90 DAY SAMPLE ANALYSIS TIME REQUIREMENT; REQUESTS RESPONSE)
AUTHOR: SKIE, DOUGLAS M./EPA
ADDRESSEE: LOVELL, DOUGLAS W./CH2M HILL
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060800
MICROFILM ROLL/FRAME NO.: 316/1299 THRU: 316/1304
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150750 DATE: JUL. 13, 1984 PAGE: 3
TITLE: (DISCUSSES STATUS OF EFFORTS TO FINALIZE SECTION 106 ORDER RELATING TO PROPOSED RI FOR EAST HELENA)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: SKIE, DOUGLAS M./EPA
CC: SHARP * HART * ROBBINS * BUNDY * VARNER * NICKEL * MANGANIELLO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 316/1305 THRU: 316/1307
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150753 DATE: JUL. 17, 1984 PAGE: 3
TITLE: (NOTIFIES ASARCO FEELS ANALYSIS OF ADDITIONAL PARAMETERS IN SPECIAL ANALYSIS IS UNWARRANTED IN CONTEXT OF EAST HELENA RI)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: SKIE, DOUGLAS M./EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1308 THRU: 316/1310
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150756 DATE: JUL. 18, 1984 PAGE: 3
TITLE: (TRANSMITS ATTACHED REVISED PROJECT TIME SCHEDULE FOR ASARCO EAST HELENA WATER RESOURCE MONITORING PLAN THAT WILL SERVE AS ADDENDUM TO ORIGINAL PLAN REPLACING FIGURE 3 ON PAGE 30)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: SKIE, DOUG M./EPA
CC: MANGANIELLO * FROHARDT * HART * ROBBINS * LOVELL * BOTZ * SHARP
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/1311 THRU: 316/1313
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150759 DATE: JUL. 18, 1984 PAGE: 2
TITLE: (CONFIRMS UNDERSTANDING THAT LOVELL HAS AUTHORIZED EXPENDITURE OF CONTINGENCY FUNDS FOR ASARCO EAST HELENA SMELTER RI/FS)
AUTHOR: DAWSON, GAYNOR W./BATTELLE
ADDRESSEE: LOVELL, DOUGLAS W./CH2M HILL
CC: TAYLOR
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1314 THRU: 316/1315
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150761 DATE: JUL. 19, 1984 PAGE: 1
TITLE: (CONFIRMS JUL. 13 AND 16 TELEPHONE CONVERSATIONS CONCERNING COMMENTS FROM EPA REGIONAL QUALITY ASSURANCE OFFICE REGARDING QUALITY ASSURANCE PACKAGE RECENTLY SUBMITTED TO ROBBINS BY LOVELL)
AUTHOR: SKIE, DOUGLAS M./EPA
ADDRESSEE: ROBBINS, DON/ASARCO
CC: LOVELL * TAYLOR * HILLMAN
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1316 THRU: 316/1316
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150762 DATE: JUL. 19, 1984 PAGE: 1
TITLE: (TRANSMITS TASK ORDERS 828, 829, 830, 831 AND NARRATIVE TEXT DESCRIBING SCOPE OF WORK FOR EACH TASK ORDER)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MORRIS, PAUL/BATTELLE
CC: DAVIS * VAN MUNSTER * SHOUP * TAYLOR * DEVARY
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120106
MICROFILM ROLL/FRAME NO.: 316/1317 THRU: 316/1317
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150763 DATE: JUL. 19, 1984 PAGE: 3
TITLE: (TRANSMITS PROTOCOL ASARCO LABORATORY PLANS TO USE FOR ANALYSIS OF SAMPLES RESULTING FROM HYDROGEOLOGICAL INVESTIGATION OF ASARCO EAST HELENA PLANT)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: SKIE, DOUGLAS M./EPA
CC: TAYLOR * LOVELL
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 3030300
MICROFILM ROLL/FRAME NO.: 316/1318 THRU: 316/1320
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150766 DATE: JUL. 19, 1984 PAGE: 2
TITLE: (NOTIFIES PROJECT MANAGEMENT RESPONSIBILITIES HAVE BEEN REASSIGNED TO DEVARY IN ACCORDANCE WITH EPA WISHES TO HAVE ASARCO EAST HELENA SMELTER PROJECT MANAGED AT P3 LEVEL)
AUTHOR: DAWSON, GAYNOR W./BATTELLE
ADDRESSEE: LOVELL, DOUGLAS/CH2M HILL
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1321 THRU: 316/1322
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150768 DATE: JUL. 23, 1984 PAGE: 3
TITLE: CORRECTIONS TO CASE ASSIGNMENT REQUEST CASE 2890; SAS; 1154H SOIL/CROP INVESTIGATION
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MASINO, MARK/CAL
CC: DAVIS * SHOUP * TAYLOR * DOLLHOPF * AUSSERER * DEVARY * LUCERO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070201 * 4030300 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1323 THRU: 316/1325
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150771 DATE: JUL. 24, 1984 PAGE: 2
TITLE: (TRANSMITS ATTACHED CASE ASSIGNMENT REQUEST [CLP REQUEST] GRAIN CROP INVESTIGATION PHASE 1 RI)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: CARTER, MARK J./ROCKY MOUNTAIN ANALYTICAL LABORATORIES
CC: SCHWAB * TAYLOR * DAVIS * SHOUP * AUSSERER * DOLLHOPF * DEVARY * LUCERO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1326 THRU: 316/1327
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150773 DATE: JUL. 25, 1984 PAGE: 3
TITLE: (CONFIRMS UNDERSTANDING ON ONSITE LABORATORY AUDITS AND DATA AUDITS PHASE 1 RI)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DEVARY * DOLLHOPF * LUCERO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1328 THRU: 316/1330
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150776 DATE: JUL. 26, 1984 PAGE: 5
TITLE: (TRANSMITS ATTACHED LETTER TO BE SENT OUT UNDER TAYLOR SIGNATURE REGARDING PERFORMANCE EVALUATION TESTING)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DEVARY * LUCERO * SCHALLA * GREENE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030200 * 3030200
MICROFILM ROLL/FRAME NO.: 316/1331 THRU: 316/1335
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150781 DATE: JUL. 27, 1984 PAGE: 2
TITLE: (NOTIFIES NECESSITY FOR CH2M HILL TO HAVE REPRODUCIBLE COPIES OF ALL OVERSIZE MAPS CONTAINED IN WRMP; REQUESTS SEPIAS OF BASE MAP AND ANY OVERLAYS BE SENT; TRANSMITS REQUESTED INFORMATION FROM QUALITY ASSURANCE MANUAL)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: BOTZ, MAX/HYDROMETRICS
CC: DAVIS * TAYLOR * LOVELL * SHOUP * DEVARY * ROBBINS * SCHALLA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070201
MICROFILM ROLL/FRAME NO.: 316/1336 THRU: 316/1337
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150783 DATE: JUL. 30, 1984 PAGE: 2
TITLE: (REVIEW COMMENTS ON FINAL COMMUNITY RELATIONS PLAN)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: SKIE, DOUGLAS M./EPA
CC: HART * SHARP * ROBBINS * BUNDY * VARNER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 316/1338 THRU: 316/1339
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150785 DATE: JUL. 30, 1984 PAGE: 12
TITLE: (TRANSMITS ATTACHED CONTACT LIST WHICH CONTAINS WORK AND HOME ADDRESSES AND PHONE NUMBERS OF INDIVIDUALS CURRENTLY INVOLVED IN ASARCO PHASE 1 RI)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: LOVELL * DAVIS * DEVARY * DOLLHOPF * ROBBINS * SHOUP
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/1340 THRU: 316/1351
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150797 DATE: JUL. 30, 1984 PAGE: 2
TITLE: (COMMENTS ON FINAL COMMUNITY RELATIONS PLAN FOR EAST HELENA SMELTER SITE AND STATEMENT OF ASARCO INTENTION NOT TO BE INVOLVED IN COMMUNITY RELATION ACTIVITIES)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: SKIE, DOUGLAS M./EPA
CC: HART * SHARP * ROBBINS * BUNDY * VARNER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 316/1352 THRU: 316/1353
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150799 DATE: JUL. 30, 1984 PAGE: 1
TITLE: (COMMENTS ON POOR ANALYTICAL RECOVERIES OBTAINED USING EPA SUPERFUND TOXIC WASTE MATERIAL SAMPLE DIGEST)
AUTHOR: MAUGHAN, DAVID/(MDHES)
ADDRESSEE: CARLSON, BARBARA/SWB
CC: TAYLOR * ROBBINS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070103 * 4030300
MICROFILM ROLL/FRAME NO.: 316/1354 THRU: 316/1354
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150800 DATE: JUL. 31, 1984 PAGE: 4
TITLE: (CLARIFICATION OF DISPOSITION OF NINE NOT NOTED AND TWO MISSING VEGETATION SAMPLES AND NOTATION OF SEVERAL DEVIATIONS FROM STANDARD SAMPLE MANAGEMENT OFFICE PROCEDURES WHICH HAVE OCCURRED DURING SHIPMENT OF SOIL/CROP SAMPLES)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: AUSSERER, PAULA/(EPA) * MASINO, MARK/CAL * DOLLHOPF, DOUG/MSU * DEVARY, JOE/BATTELLE * DAVIS, BOB/CH2M HILL * LOVELL, DOUG/CH2M HILL * SHOUP, DIANE/CH2M HILL * TAYLOR, GENE/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1355 THRU: 316/1358
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150804 DATE: JUL. 31, 1984 PAGE: 2
TITLE: (SAMPLE LANGUAGE TO INCLUDE QUALITY ASSURANCE IN ADMINISTRATIVE ORDERS UNDER CERCLA; E-MAIL TRANSMITTAL TO WARDELL FROM LUCERO)
AUTHOR: HATHAWAY, WILLIAM
ADDRESSEE: LUCERO, GENE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300 * 1040100
MICROFILM ROLL/FRAME NO.: 316/1359 THRU: 316/1360
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150806 DATE: AUG. 1, 1984 PAGE: 2
TITLE: (NOTIFIES ASARCO WILL EXECUTE PERFORMANCE EVALUATION [PE] TESTING IN ACCORDANCE WITH STATEMENT OF WORK [SOW], INORGANIC ANALYSIS, MULTI-MEDIA, MULTI-CONCENTRATION ISSUED BY EPA; DESCRIBES PROCEDURES AND COORDINATION BETWEEN EPA, EMSL AND CONTRACTORS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: BUTLER, LARRY/EMSL
CC: LOVELL * DEVARY * HILLMAN
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 316/1361 THRU: 316/1362
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150808 DATE: AUG. 2, 1984 PAGE: 1
TITLE: (DISCUSSES ASARCO COOLERS OF SOILS SAMPLES SHIPPED TO CAL)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: TAYLOR * LOVELL * SCHALLA * DAVIS * SHOUP * DEVARY * GREENE
QUALIFIER(S): MARGINALIA * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060600
MICROFILM ROLL/FRAME NO.: 316/1363 THRU: 316/1363
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150809 DATE: AUG. 2, 1984 PAGE: 8
TITLE: (TRANSMITS ATTACHED LOVELL AND LUCERO TELEPHONE LOGS FOR AUG. 2, 1984 CONFERENCE CALL WITH ROBBINS, ASARCO, SLC)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: LOVELL
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/1364 THRU: 316/1371
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150817 DATE: AUG. 3, 1984 PAGE: 2
TITLE: (CONFIRMS CONFERENCE CALL BETWEEN LOVELL, ROBBINS, TAYLOR CONCERNING ASARCO LABORATORY PROTOCOLS FOR SURFACE AND GROUNDWATER SAMPLES AND ASSOCIATED SOIL AND BOTTOM SEDIMENT SAMPLES)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: ROBBINS, DONALD/ASARCO
CC: LOVELL * HILLMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 3030200 * 4030200
MICROFILM ROLL/FRAME NO.: 316/1372 THRU: 316/1373
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150819 DATE: AUG. 3, 1984 PAGE: 1
TITLE: (TRANSMITS ATTACHED COPY OF CHECK FOR $200.00 FOR REIMBURSEMENT FOR CROP DAMAGE AND PERSONAL ANGUISH OCCURRING DURING SOIL/CROP SAMPLING [JUN. 19, 1984])
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: HATLELID, DENNIS
CC: TAYLOR * LUCERO * DAVIS * SHOUP * DEVARY * DOLLHOPF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1374 THRU: 316/1374
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150820 DATE: AUG. 6, 1984 PAGE: 1
TITLE: (REQUESTS COPY OF EPA LATEST CLP QA PACKAGE INCLUDING DISCUSSION OF HOW REGION MAY 21, 1984 DRAFT EVALUATION CRITERIA FOR EXISTING DATA FROM CERCLA STUDY AREAS SHOULD BE USED IN CONJUNCTION WITH CLP REQUIREMENTS)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: DICKSTEIN, IRWIN L./EPA
CC: HILLMAN
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1375 THRU: 316/1375
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150821 DATE: AUG. 7, 1984 PAGE: 3
TITLE: (CLARIFIES ROUGH TIMING FOR START OF GROUNDWATER/SURFACE WATER STUDY AT EAST HELENA SITE)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: LOVELL
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):3010000 * 4010000
MICROFILM ROLL/FRAME NO.: 316/1376 THRU: 316/1378
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150824 DATE: AUG. 7, 1984 PAGE: 13
TITLE: (TRANSMITS ATTACHED EXHIBIT F CHAIN OF CUSTODY AND DOCUMENTS CONTROL PROCEDURES FOR CLP LABORATORY CONTRACTS)
AUTHOR: LAIDLAW, ROBERT/EPA
ADDRESSEE: TAYLOR, GENE/EPA
CC: BLACKMAN * MANGANIELLO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1379 THRU: 316/1391
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150837 DATE: AUG. 8, 1984 PAGE: 5
TITLE: (TRANSMITS ATTACHED WRMP SCHEDULE)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: LOVELL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060100 * 3030300 * 4070800 * 4070100
MICROFILM ROLL/FRAME NO.: 316/1392 THRU: 316/1396
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150842 DATE: AUG. 9, 1984 PAGE: 2
TITLE: (RESPONSE TO AUG. 7, 1984 LETTER FROM ROBBINS/ASARCO SLC TO TAYLOR WHICH CITES REASONS FOR DELAYING FIELD WORK UNTIL SEP. 3, 1984)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DEVARY * LUCERO * SCHALLA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300 * 1060500 * 3010000 * 4010000
MICROFILM ROLL/FRAME NO.: 316/1397 THRU: 316/1398
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150844 DATE: AUG. 15, 1984 PAGE: 2
TITLE: (TRANSMITS ATTACHED MEMO FROM LAIDLAW TO TAYLOR TRANSMITTING DOCUMENT FROM NEIC GIVING CRITERIA FOR EPA CONTRACT LABS CONCERNING CHAIN OF CUSTODY PROCEDURES)
AUTHOR: TAYLOR, GENE D./EPA
ADDRESSEE: ROBBINS, DON/ASARCO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1399 THRU: 316/1400
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150846 DATE: AUG. 15, 1984 PAGE: 1
TITLE: (LISTS INFORMATION REQUIRED BEFORE MATTER OF UPSET FARMERS INVOLVED IN SOIL/CROP INVESTIGATION CAN BE RESOLVED)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: DEVARY, JOE/BATTELLE
CC: LOVELL * TAYLOR * SHOUP * DAVIS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1401 THRU: 316/1401
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150847 DATE: AUG. 16, 1984 PAGE: 2
TITLE: (TRANSMITS SUPPLEMENT TO PROTOCOL FOR COMPLIANCE WITH REQUIREMENTS FOR SURFACE WATER, SEDIMENT, AND GROUNDWATER SAMPLES FOR PHASE 1 REMEDIAL INVESTIGATION ASARCO, MT RI/FS)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: SKIE * LOVELL * STANGA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 3030200 * 4030200
MICROFILM ROLL/FRAME NO.: 316/1402 THRU: 316/1403
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150849 DATE: AUG. 16, 1984 PAGE: 1
TITLE: (CLP REQUEST FOR ANALYSIS OF SURFACE WATER, GROUNDWATER, SOIL CORE AND SEDIMENT SAMPLE SPLITS AS PART OF OVERSIGHT OF ASARCO WRMP)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * LOVELL * DEVARY * SCHALLA * SHOUP
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1404 THRU: 316/1404
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150850 DATE: AUG. 16, 1984 PAGE: 8
TITLE: (TRANSMITS ATTACHED STATUS REPORT FROM MAUGHAN TO SOKAL ON EAST HELENA MONTANA CHILD LEAD STUDY FOR APR. 1 - JUN. 30, 1984; ATTACHED MOU REGARDING TIMETABLE FOR COMPLETION OF LAB ANALYSES AND PROJECT REPORT)
AUTHOR: JONES, GEORGI A./ATSDR
ADDRESSEE: HEDEMAN, WILLIAM N./EPA
CC: PERRY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/1405 THRU: 316/1412
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150858 DATE: AUG. 20, 1984 PAGE: 2
TITLE: (TRANSMITS ATTACHED CLOSE OUT FORM FOR EAST HELENA COMMUNITY RELATIONS PLAN WORK ASSIGNMENT)
AUTHOR: TUOR, NANCY R./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DIECIDUE * DAVIS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 316/1413 THRU: 316/1414
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150860 DATE: AUG. 20, 1984 PAGE: 1
TITLE: (EXPRESSES THANKS FOR SENDING WORK PLAN FOR SMELTER)
AUTHOR: KELLER, P. KEITH/KELLER, REYNOLDS, DRAKE, STERNHAGEN AND JOHNSON
ADDRESSEE: TAYLOR, GENE/EPA
CC: LAMPING
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/1415 THRU: 316/1415
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150861 DATE: AUG. 22, 1984 PAGE: 9
TITLE: (TRANSMITS ATTACHED EPA AOC CERCLA-VIII-84- IN WHICH ASARCO WOULD CONDUCT WATER QUALITY INVESTIGATION AND DEVELOP RISK ASSESSMENT)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: FROHARDT, PAUL D./HOLLAND AND HART
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 316/1416 THRU: 316/1424
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150870 DATE: AUG. 22, 1984 PAGE: 4
TITLE: (TRANSMITS ATTACHED LUCERO COMMENTS ON ASARCO LAB PROTOCOL SUPPLEMENT)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: FILE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1425 THRU: 316/1428
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150874 DATE: AUG. 24, 1984 PAGE: 1
TITLE: (REQUEST TO SEND ASARCO SET OF PERFORMANCE EVALUATION SAMPLES)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: BUTLER, LARRY/EMSL/ORD
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1429 THRU: 316/1429
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150875 DATE: AUG. 27, 1984 PAGE: 1
TITLE: (TRANSMITS COMMENTS PREPARED FROM CH2M HILL REVIEW OF ASARCO QAPP)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * LOVELL * DEVARY * SCHALLA * SHOUP * BOTZ * ROBBINS
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1430 THRU: 316/1430
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150876 DATE: AUG. 27, 1984 PAGE: 1
TITLE: (DISCUSSES DIGESTION PROCEDURES LISTED IN CURRENT INORGANIC CLP PROTOCOL)
AUTHOR: FOWLER, J. W./LOCKHEED
ADDRESSEE: MOORE, J. M./EPA * HAMSHER, M. T./EPA
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1431 THRU: 316/1431
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150877 DATE: AUG. 28, 1984 PAGE: 1
TITLE: (TRANSMITS DRAFT COST ESTIMATES FOR OVERSIGHT WORK PLAN)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: SKIE, DOUG/EPA
CC: DAVIS * LOVELL
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * HANDWRITTEN * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1432 THRU: 316/1432
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150878 DATE: AUG. 28, 1984 PAGE: 3
TITLE: (FOLLOW-UP TO EPA VISIT TO LABORATORY IN SALT LAKE CITY ON AUG. 22, 1984; LIST OF CHANGES NEEDED TO BE MADE IN LABORATORY PROCEDURES)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: ROBBINS, DONALD A./ASARCO
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1433 THRU: 316/1435
NOTES: UPDATE 02

FILE: 1170304 DOCNO: 0150881 DATE: AUG. 31, 1984 PAGE: 4
TITLE: (REVIEW OF CLP PAPERWORK FOR SOIL SAMPLES SHIPPED JUL. 23, 1984 AND LIST OF CORRECTIONS WHICH MUST BE MADE TO CHAIN OF CUSTODY FORMS AND INORGANIC TRAFFIC REPORT TO BE CONSISTENT)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: MASINO, MARK/CAL * TAYLOR, GENE/EPA * LOVELL, DOUG/CH2M HILL * DAVIS, BOB/CH2M HILL * DEVARY, JOE/BATTELLE * PARKHURST, RICHARD/BATTELLE * SCHWAB, KEITH/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 316/1436 THRU: 316/1439
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150885 DATE: SEP. 5, 1984 PAGE: 2
TITLE: (NOTIFIES NICKEL WILL SERVE AS ASARCO DESIGNATED COORDINATOR; REQUESTS CARBON COPIES OF FURTHER CORRESPONDENCE, NOTICES BE SENT TO HOLLAND AND HART)
AUTHOR: FROHARDT, PAUL/HOLLAND AND HART
ADDRESSEE: MANGANIELLO, SUSAN/EPA
CC: DUPREY * WARDELL * SKIE * TAYLOR
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 316/1440 THRU: 316/1441
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150887 DATE: SEP. 11, 1984 PAGE: 10
TITLE: (RESPONSE TO SITE VISIT OF AUG. 22 AND LETTER OF AUG. 28; LIST OF STEPS ASARCO IS PLANNING TO TAKE TO ACHIEVE COMPLIANCE; ATTACHED INFORMATION DEADLINE WITH MERCURY AND MAIL CONTROL SCHEDULE)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1442 THRU: 316/1451
KEYWORD(S): MERCURY
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150897 DATE: SEP. 17, 1984 PAGE: 1
TITLE: (ANSWERS TO QUESTIONS ADDRESSED TO AUG. 6, 1984 MEMO FROM WARDELL REGARDING QA GUIDANCE AND DIGESTION METHODS)
AUTHOR: DICKSTEIN, IRWIN/EPA
ADDRESSEE: WARDELL, JOHN/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1452 THRU: 316/1452
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150898 DATE: SEP. 19, 1984 PAGE: 9
TITLE: (TRANSMITS ATTACHED CONTRACT EVIDENCE AUDIT TEAM [CONTRACT EVIDENCE AUDIT TEAM] REPORT FOR AUG. 22, 1984)
AUTHOR: HILDEN, GERRI/(EPA)
ADDRESSEE: MANGANIELLO, SUSAN/(EPA) * TAYLOR, GENE/(EPA)
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1453 THRU: 316/1461
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150907 DATE: SEP. 21, 1984 PAGE: 7
TITLE: (TRANSMITS ATTACHED RESULTS OF PERFORMANCE EVALUATION SAMPLE TO DETERMINE ANALYTICAL PROFICIENCY FOR THOSE PARAMETERS BEING ANALYZED AS PART OF EAST HELENA RI)
AUTHOR: ROBBINS, DONALD/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BUTLER * SHARP * NICKEL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1462 THRU: 316/1468
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * IRON * ZINC * MANGANESE
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150914 DATE: SEP. 24, 1984 PAGE: 2
TITLE: (DISCUSSES INFORMATION REQUIRED FOR FUTURE DECISION MAKING IN MORE COST EFFECTIVE MANNER)
AUTHOR: ROBBINS, DONALD/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: SKIE
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020101
MICROFILM ROLL/FRAME NO.: 316/1469 THRU: 316/1470
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150916 DATE: SEP. 25, 1984 PAGE: 3
TITLE: (RESULTS OF AUDIT OF ASARCO METHOD OF ANALYSIS OF MERCURY)
AUTHOR: HELFER, RALPH/UTAH DEPT. OF HEALTH
ADDRESSEE: HILLMAN, JUANITA/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1471 THRU: 316/1473
KEYWORD(S): MERCURY
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150919 DATE: SEP. 26, 1984 PAGE: 2
TITLE: (DISCUSSES MSU ARCHIVED SAMPLES)
AUTHOR: LUCERO, JOHN
ADDRESSEE: TAYLOR, GENE/EPA * FILE * MANGANIELLO, SUE/EPA * LOVELL, DOUG/(CH2M HILL) * DAVIS, BOB * DOLLHOPF DOUG/MSU * DEVARY, JOE/BATTELLE * LAIDLAW, ROB/NEIC
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1474 THRU: 316/1475
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150921 DATE: OCT. 4, 1984 PAGE: 2
TITLE: (COMMENTS ON DRAFT OVERSIGHT WORK PLAN FOR EAST HELENA)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: LUCERO, JOHN
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 1120107
MICROFILM ROLL/FRAME NO.: 316/1476 THRU: 316/1477
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150923 DATE: OCT. 10, 1984 PAGE: 4
TITLE: (COMMENTS ON PRELIMINARY ENDANGERMENT ASSESSMENT FOR SECTION 106 ORDER)
AUTHOR: MANGANIELLO, SUSAN
ADDRESSEE: TAYLOR, GENE/(EPA) * SKIE, DOUG/(EPA)
CC: WONG
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 316/1478 THRU: 316/1481
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150927 DATE: OCT. 10, 1984 PAGE: 4
TITLE: (NOTIFIES OF RECEIPT OF ATTACHED AUG. 20, 1984 LETTER FROM TUOR TO TAYLOR; RECOMMENDATION TO AUTHORIZE CLOSE OUT)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * TUOR * GILSON
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 316/1482 THRU: 316/1485
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150931 DATE: OCT. 12, 1984 PAGE: 1
ATTACHED DOC(S): 0150932 THRU: 0150945
TITLE: (TRANSMITS REVIEW COMMENT OF ASARCO QAPP)
AUTHOR: LOVELL, DOUGLAS/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP * DEVARY
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1486 THRU: 316/1486
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150932 DATE: OCT. 18, 1984 PAGE: 14
ATTACHED TO: 0150931
TITLE: (TRANSMITS ATTACHED COMMENTS ON ASARCO REVISED QAPP SEP. 21, 1984 AND DATA REDUCTION AND VALIDATION METHODS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JOHN (JON)/ASARCO
CC: HILLMAN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1487 THRU: 316/1500
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150946 DATE: OCT. 12, 1984 PAGE: 3
TITLE: (TRANSMITS ATTACHED ASARCO LABORATORY EVALUATION)
AUTHOR: PEARSON, J. GARETH
ADDRESSEE: TAYLOR, GENE/EPA
CC: HILLMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1501 THRU: 316/1503
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150949 DATE: OCT. 16, 1984 PAGE: 17
TITLE: (TRANSMITS ATTACHED EPA/LV EVALUATION OF ASARCO LABORATORY ANALYSIS OF PERFORMANCE EVALUATION SAMPLES AND RELEVANT CORRESPONDENCE CONCERNING EVALUATION)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: ROBBINS, DON/ASARCO
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 316/1504 THRU: 316/1520
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150966 DATE: OCT. 18, 1984 PAGE: 2
TITLE: (TRANSMITS REQUESTED INFORMATION FOR SOIL LEAD DATA GATHERED IN VICINITY OF EAST HELENA ASARCO LEAD SMELTER)
AUTHOR: MAUGHAN, DAVID/MDHES
ADDRESSEE: TAYLOR, GENE/EPA
CC: MEUSER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1521 THRU: 316/1522
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150968 DATE: OCT. 18, 1984 PAGE: 1
TITLE: (REQUESTS EPA/LV [EMSL-LV] SEND ASARCO LAB IN SALT LAKE CITY ANOTHER PERFORMANCE EVALUATION [PE] SAMPLE [SOIL ONLY] FOR THEIR ANALYSIS FROM FIRST QUARTER 1985 GROUP OF SAMPLES)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: BUTLER, LARRY/EPA
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/1523 THRU: 316/1523
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150969 DATE: OCT. 23, 1984 PAGE: 3
TITLE: (REQUESTS CURRENT STATUS OF 1983 BLOOD LEAD STUDY; ATTACHED MAIL CONTROL SCHEDULE)
AUTHOR: FROHARDT, PAUL/HOLLAND AND HART
ADDRESSEE: WARDELL, JOHN/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/1524 THRU: 316/1526
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150972 DATE: OCT. 23, 1984 PAGE: 5
TITLE: (CONFIRMS TELEPHONE CONVERSATION OF SEP. 22, 1984 LISTING CONCERNS VOICED BY QUALITY ASSURANCE OFFICE ON ASARCO INVOLVEMENT IN RI OF EAST HELENA; TRANSMITS ATTACHED APR. 11, 1984 MEMO ADDRESSING REQUIRED INVOLVEMENT OF ENVIRONMENTAL SERVICES DIVISION AND REGIONAL QUALITY ASSURANCE OFFICER IN ENVIRONMENTAL MONITORING ACTIVITIES)
AUTHOR: HILLMAN, JUANITA J./(EPA)
ADDRESSEE: TAYLOR, GENE/(EPA)
CC: SKIE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/1527 THRU: 316/1531
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150977 DATE: OCT. 24, 1984 PAGE: 1
TITLE: (REQUESTS CH2M HILL DELIVER COPY OF ASARCO LAB PROTOCOL ON OCT. 23, 1984; REQUESTS COMMENTS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: HILLMAN, JUANITA/EPA
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1532 THRU: 316/1532
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150978 DATE: OCT. 25, 1984 PAGE: 1
TITLE: (REQUESTS CH2M HILL DEVELOP ACCEPTANCE/REJECTION CRITERIA FOR EAST HELENA CERCLA PROJECT AND COURSE OF CORRECTIVE ACTION TO FOLLOW WHEN ONE OR BOTH LABS COME IN WITH WIDELY DIVERGENT NUMBERS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LOVELL, DOUG/CH2M HILL
QUALIFIER(S): TISSUE COPY * ORIGINAL * MARGINALIA * INCOMPLETE * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1533 THRU: 316/1533
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150979 DATE: OCT. 25, 1984 PAGE: 3
TITLE: (DISCUSSES INFORMATION REQUIRED BY PARAGRAPH 28 OF SECTION 106 AOC)
AUTHOR: FROHARDT, PAUL/HOLLAND AND HART
ADDRESSEE: TAYLOR, GENE/EPA
CC: HART * SHARP * ROBBINS * NICKEL * DUPREY * WARDELL * SKIE * MANGANIELLO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040400
MICROFILM ROLL/FRAME NO.: 316/1534 THRU: 316/1536
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150982 DATE: OCT. 25, 1984 PAGE: 2
TITLE: QUALITY ASSURANCE OFFICER APPROVAL FOR EPA MONITORING ACTIVITIES (CONFIRMATION OF AGREEMENT)
AUTHOR: SKIE, DOUGLAS/(EPA)
ADDRESSEE: HILLMAN, JUANITA
CC: /ALL RSPO'S * HARRIS * RUBICH * JOHNSON
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1537 THRU: 316/1538
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150984 DATE: OCT. 26, 1984 PAGE: 1
TITLE: (TRANSMITS RESUBMITTED RESULTS FROM ORIGINAL PERFORMANCE EVALUATION SAMPLE AND REQUIRED DELIVERABLES)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL * HAYES
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1539 THRU: 316/1539
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150985 DATE: OCT. 26, 1984 PAGE: 1
TITLE: (NOTIFIES ASARCO INTENT TO INITIATE DRILLING IN ACCORDANCE WITH HYDROMETRICS WATER QUALITY STUDY DURING WEEK OF OCT. 29; CONFIRMS ASARCO INTENT TO COMPLY WITH SPECIFICS OUTLINED IN TAYLOR OCT. 18 LETTER CONCERNING QAPP)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE
CC: WARDELL * SKIE * MANGANIELLO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040400 * 1060300
MICROFILM ROLL/FRAME NO.: 316/1540 THRU: 316/1540
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150986 DATE: OCT. 29, 1984 PAGE: 12
TITLE: (TRANSMITS ATTACHED QA PROGRAM PLAN, ASARCO EAST HELENA PLANT WITH COMMENTS)
AUTHOR: HILLMAN, JUANITA/EPA
ADDRESSEE: TAYLOR, GENE/EPA
CC: SKIE * LOVELL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1541 THRU: 316/1552
NOTES: UPDATE 02

FILE: 1170305 DOCNO: 0150998 DATE: OCT. 31, 1984 PAGE: 2
TITLE: (COMMENTS AND QUESTIONS ON ASARCO LAB PROTOCOL FROM CAMPBELL OF QUALITY ASSURANCE OFFICE)
AUTHOR: HILLMAN, JUANITA/EPA
ADDRESSEE: LOVELL, DOUGLAS/CH2M HILL
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1553 THRU: 316/1554
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151000 DATE: NOV. 5, 1984 PAGE: 1
TITLE: (TRANSMITS FINAL REQUIRED DELIVERABLE FROM ANALYSIS OF PERFORMANCE EVALUATION SAMPLE 2547)
AUTHOR: TAYLOR, GENE D./EPA
ADDRESSEE: BUTLER, LARRY/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1555 THRU: 316/1555
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151001 DATE: NOV. 6, 1984 PAGE: 1
TITLE: (TRANSMITS ASARCO DELIVERABLE REQUIRED BY EPA/LV)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: HILLMAN, JUANITA/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1556 THRU: 316/1556
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151002 DATE: NOV. 7, 1984 PAGE: 1
TITLE: (NOTIFIES OF DESIGNATION OF TAYLORS AS OFFICIAL EPA CONTACT FOR EPA-ASARCO ADMINISTRATIVE ORDER)
AUTHOR: SKIE, DOUGLAS M./EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FROHARDT * MANGANIELLO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * TISSUE COPY * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040400
MICROFILM ROLL/FRAME NO.: 316/1557 THRU: 316/1557
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151003 DATE: NOV. 7, 1984 PAGE: 2
TITLE: (TRANSMITS SAMPLE CUSTODY SEALS)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: STANGA, GARY/ASARCO
CC: TAYLOR
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * HANDWRITTEN * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1558 THRU: 316/1559
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151005 DATE: NOV. 7, 1984 PAGE: 3
TITLE: (TRANSMITS ATTACHED FIFTH QUARTERLY REPORT FOR WORK DONE ON EAST HELENA CHILD LEAD STUDY JUL. 1-SEP. 30, 1984)
AUTHOR: MAUGHAN, DAVID/MDHES
ADDRESSEE: SOKAL, DAVID/CDC
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/1560 THRU: 316/1562
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151008 DATE: NOV. 8, 1984 PAGE: 3
TITLE: (COMMENTS AND HYDROMETRICS RESPONSES CONCERNING ASARCO QAPP; ATTACHED TRANSMITTAL FROM LUCERO)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: LOVELL, DOUG/CH2M HILL * TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1563 THRU: 316/1565
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151014 DATE: NOV. 15, 1984 PAGE: 14
TITLE: (COMMENTS ON ATTACHED ASARCO AOC PROGRESS REPORT 1)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): HANDWRITTEN * MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):1040400
MICROFILM ROLL/FRAME NO.: 316/1566 THRU: 316/1579
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151028 DATE: NOV. 15, 1984 PAGE: 7
TITLE: (SUMMARIZES PROJECT STATUS TO SUPPORT PREPARATION OF NEXT FACT SHEET)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120103
MICROFILM ROLL/FRAME NO.: 316/1580 THRU: 316/1586
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151035 DATE: NOV. 19, 1984 PAGE: 1
TITLE: (TRANSMITS FROM SAMPLE MANAGEMENT OFFICE OF REQUESTED INFORMATION)
AUTHOR: MANZO, STEVE/EPA
ADDRESSEE: TAYLOR, GENE
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/1587 THRU: 316/1587
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151036 DATE: NOV. 20, 1984 PAGE: 31
TITLE: (OUTLINES THOUGHTS ON IMPLEMENTATION OF DATABASE MANAGEMENT SYSTEM (DBMS) FOR ASARCO SITE; TRANSMITS ATTACHED PRELIMINARY DRAFT OF "REM/FIT TECHNICAL DATA MANAGEMENT WELL MONITORING VERSION")
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA * DOLLHOPF, DOUG/MSU * DEVARY, JOE/BATTELLE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/1588 THRU: 316/1618
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151067 DATE: NOV. 20, 1984 PAGE: 1
ATTACHED DOC(S): 0151068 THRU: 0151069
TITLE: (TRANSMITS MEMOS ON MONITORING WELL CASINGS AND A GUIDE TO THE SELECTION OF MATERIALS FOR MONITORING WELL CONSTRUCTION AND GROUNDWATER SAMPLING)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: SCHALLA, RON/BATTELLE
CC: TAYLOR * SKIE
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):3010000
MICROFILM ROLL/FRAME NO.: 316/1619 THRU: 316/1619
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151068 DATE: NOV. 20, 1984 PAGE: 2
ATTACHED TO: 0151067
TITLE: (TRANSMITS DRAFT HAZARD CRITERIA, ANACONDA SMELTER RI/FS, AUG. 17, 1984)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: TAYLOR
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 316/1620 THRU: 316/1621
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151070 DATE: NOV. 21, 1984 PAGE: 13
TITLE: (TRANSMITS ATTACHED ANALYTICAL RESULTS FOR PERFORMANCE EVALUATION SAMPLE 3288 AND ASSOCIATED QUALITY CONTROL INFORMATION)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BUTLER * VARNER * ROBBINS * STANGA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1622 THRU: 316/1634
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151083 DATE: NOV. 24, 1984 PAGE: 2
TITLE: (DISCUSSES MICRO-KRIGING PROGRAMS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: MAUGHAN, DAVE/MDHES
CC: TAYLOR * BARNES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1635 THRU: 316/1636
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151085 DATE: NOV. 27, 1984 PAGE: 3
TITLE: INITIAL MONITOR WELL FIELD ACTIVITIES REPORT AND DELAYS FOR NOV. 13-18, 1984 (ATTACHED NOV. 20, 1984 TELEPHONE CONVERSATION)
AUTHOR: SCHALLA, RONALD/BATTELLE
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: TAYLOR
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1637 THRU: 316/1639
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151088 DATE: NOV. 27, 1984 PAGE: 2
TITLE: (DISCUSSES RESUBMISSION BY ASARCO OF RESULTS FOR EMSL-LV THIRD QUARTER INORGANIC PERFORMANCE EVALUATION SAMPLE)
AUTHOR: BUTLER, LARRY C./EPA
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1640 THRU: 316/1641
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151090 DATE: NOV. 28, 1984 PAGE: 3
TITLE: (COMMENTS ON MATTERS DISCUSSED IN PROGRESS REPORT 1 AND ON LIVESTOCK STUDY DESCRIBED IN RI/FS WORK PLAN; ATTACHED MAIL CONTROL SCHEDULE)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FROHARDT * KARLSEN * METCALF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * TISSUE COPY * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 4070600
MICROFILM ROLL/FRAME NO.: 316/1642 THRU: 316/1645
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151094 DATE: DEC. 3, 1984 PAGE: 6
TITLE: (TRANSMITS ATTACHED INITIAL OVERVIEW AND INTERPRETATION OF LEVELS OF ARSENIC, LEAD AND CADMIUM IN SURFACE SOILS AND CROP SAMPLES COLLECTED IN HELENA VALLEY; ATTACHED OVERVIEW AND DISTRIBUTION DATA)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU * NEUMAN, DENNIS R./MSU
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300 * 4070500
MICROFILM ROLL/FRAME NO.: 316/1646 THRU: 316/1651
KEYWORD(S): ARSENIC * CADMIUM * LEAD * VEGETATION * SOIL
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151100 DATE: DEC. 4, 1984 PAGE: 1
TITLE: (FOLLOW-UP TO NOV. 28 AND 29, 1984 TELEPHONE CONVERSATIONS CONCERNING PROPOSED DELAY IN SUBMITTAL OF FIRST THREE MONTHS DATA SUMMARY REPORT)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: ROBBINS, DON/ASARCO
CC: NICKEL * FROHARDT * KARLSON * METCALF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1652 THRU: 316/1652
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151101 DATE: DEC. 4, 1984 PAGE: 1
TITLE: (TRANSMITS ADDITIONAL INFORMATION NOT INCLUDED IN DELIVERABLE CONCERNING PERFORMANCE EVALUATION SOIL 3288 NOV. 26, 1984)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: BUTLER, LARRY/EPA
CC: TAYLOR * VARNER * ROBBINS * STANGA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1653 THRU: 316/1653
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151102 DATE: DEC. 5, 1984 PAGE: 3
TITLE: (RESPONSE TO AND TRANSMITTAL OF LETTERS FROM ROBBINS AND FROHARDT CONCERNING QUESTIONS RELATING TO EAST HELENA BLOOD LEAD STUDY, XRF ANALYZER AND QUALITY CONTROL MEASURES)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
CC: NICKEL * METCALF * KARLSEN * SOKHOL
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500 * 1030100
MICROFILM ROLL/FRAME NO.: 316/1654 THRU: 316/1656
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151105 DATE: DEC. 5, 1984 PAGE: 1
TITLE: (TRANSMITS SAMPLES RECEIVED BY ASARCO NOV. 5, 1984 IN CONJUNCTION WITH EAST HELENA RI)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE
CC: NICKEL * VARNER
QUALIFIER(S): INCOMPLETE * MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/1657 THRU: 316/1657
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151106 DATE: DEC. 7, 1984 PAGE: 18
TITLE: (RESPONSE TO AND DISCUSSION OF JUL. 3 AND SEP. 24, 1984 LETTERS REGARDING VALID DATA COLLECTION AND RISK ASSESSMENT OF EAST HELENA AREA HEALTH AND ENVIRONMENT; TRANSMITS LETTER TO FROHARDT)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: ROBBINS, DON/ASARCO
CC: FROHARDT * KARLSEN * METCALF
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/1658 THRU: 316/1675
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151124 DATE: DEC. 7, 1984 PAGE: 1
ATTACHED DOC(S): 0151125 THRU: 0151127
TITLE: (REQUESTS INFORMATION INVOLVING AMENDMENTS OR REVISIONS TO GUIDANCE DOCUMENTS PREPARED PRIOR TO ASARCO LETTING OF CONTRACT FOR PREPARATION OF RFP IN PERFORMING ENDANGERMENT ASSESSMENT)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 316/1676 THRU: 316/1676
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151125 DATE: DEC. 7, 1984 PAGE: 3
ATTACHED TO: 0151124
TITLE: EAST HELENA HYDROGEOLOGICAL STUDY (REPORT WITH ANALYTICAL RESULTS OF SAMPLES)
AUTHOR: HAYES, JOHN/ASARCO
ADDRESSEE: TAYLOR, STEVE
CC: ROBBINS * NICKEL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 316/1677 THRU: 316/1679
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151128 DATE: DEC. 11, 1984 PAGE: 1
TITLE: (TRANSMITS LISTED SAMPLES TAKEN NOV. 9, 1984 FOR RI INVESTIGATION)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL * VARNER * ROBBINS
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1680 THRU: 316/1680
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151129 DATE: DEC. 12, 1984 PAGE: 4
TITLE: (RESPONSE TO QUESTIONS AND CONCERNS REGARDING ASARCO INVOLVEMENT WITH CERCLA RI STUDIES; REVISED PROJECT TIME SCHEDULE ATTACHED)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: FROHARDT * METCALF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070800
MICROFILM ROLL/FRAME NO.: 316/1681 THRU: 316/1684
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151133 DATE: DEC. 14, 1984 PAGE: 11
TITLE: (COMMENTS ON DRAFT OVERSIGHT WORK PLAN)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LOVELL, DOUGLAS W./CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120107
MICROFILM ROLL/FRAME NO.: 316/1685 THRU: 316/1695
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151144 DATE: DEC. 17, 1984 PAGE: 2
TITLE: (DISCUSSES DIFFICULTIES WITH COMPLETION OF WELL DH-3; ATTACHED DIAGRAM OF WELL)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: LOVELL, DOUGLAS/CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030400
MICROFILM ROLL/FRAME NO.: 316/1696 THRU: 316/1697
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151146 DATE: DEC. 17, 1984 PAGE: 1
TITLE: (TRANSMITS DOCUMENTATION REQUIRED TO INITIATE REMEDIAL RESPONSE SERVICES [REM ONE] FOR EAST HELENA)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: EVANS, LIZ
CC: WONG * SKIE
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/1698 THRU: 316/1698
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151147 DATE: DEC. 19, 1984 PAGE: 1
TITLE: (DISCUSSES NO NEW GUIDANCE IS READY FOR RELEASE AND RISK ASSESSMENT GUIDELINES ISSUED IN FEDERAL REGISTER ON NOV. 23, 1984 SHOULD BE SENT TO ASARCO FOR USE IN RFP)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: THE RECORD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 316/1699 THRU: 316/1699
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151148 DATE: DEC. 19, 1984 PAGE: 12
TITLE: (COMMENTS ON ATTACHED DEC. 12, 1984 LETTER FROM NICKEL TO TAYLOR)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070800 * 3010000
MICROFILM ROLL/FRAME NO.: 316/1700 THRU: 316/1711
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151160 DATE: DEC. 19, 1984 PAGE: 10
TITLE: (REQUESTS FOR PROPOSALS FROM SELECTED CONSULTING ENGINEERING FIRMS FOR PROFESSIONAL SERVICES DURING RI OF EAST HELENA SMELTER SITE; ATTACHED UNIT PRICE PROPOSAL)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: KIRKLAND, T.G./MULTITECH * STILLER, DAVE/STILLER AND ASSOCIATES * WING, THOMAS J./RESOURCE ENGINEERING AND ASSOCIATES * MORRISON, JOHN/MORRISON-MAIRLE * KARP, DICK/SYSTEC
CC: TAYLOR * SHOUP * VAN MUNSTER
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120107
MICROFILM ROLL/FRAME NO.: 316/1712 THRU: 316/1721
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151170 DATE: DEC. 20, 1984 PAGE: 2
TITLE: (RESPONSE TO ATTACHED DEC. 13, 1984 MEMO CONCERNING ATTORNEY COMMUNICATIONS)
AUTHOR: SKIE, DOUG/(EPA)
ADDRESSEE: METCALF, SHARON/EPA
CC: SPEICHER * HESTER * WARDELL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/1722 THRU: 316/1723
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151172 DATE: DEC. 21, 1984 PAGE: 7
TITLE: (DISCUSSES INITIAL OVERVIEW AND INTERPRETATION OF TOTAL LEVELS OF ARSENIC, CADMIUM AND LEAD IN SOIL CORE SAMPLES COLLECTED IN HELENA VALLEY; ATTACHED CONCLUSIONS AND SUMMARY TABLES)
AUTHOR: NEUMAN, DENNIS R./MSU * DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060800
MICROFILM ROLL/FRAME NO.: 316/1724 THRU: 316/1730
KEYWORD(S): LEAD * ARSENIC * CADMIUM * VEGETATION * SOIL
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151179 DATE: DEC. 21, 1984 PAGE: 2
TITLE: (RESPONSE TO DEC. 7, 1984 LETTER REGARDING EPA GUIDANCE ON PREPARATION OF EAS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: ROBBINS, DON/ASARCO
CC: NICKEL * FROHARDT * KARLSON * HESTER * NEWAR * LOVELL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020101
MICROFILM ROLL/FRAME NO.: 316/1731 THRU: 316/1732
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151181 DATE: DEC. 27, 1984 PAGE: 2
TITLE: (DISCUSSES SCREENING OF ASARCO WATER RESOURCE MONITORING PLAN RAW DATA FOR ACUTE EFFECTS)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DAVIS * SHOUP
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1733 THRU: 316/1734
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151183 DATE: DEC. 27, 1984 PAGE: 12
TITLE: (DISCUSSES INTENT TO SUBCONTRACT DIRECTLY WITH MSU FOR ALL PAST, PRESENT, AND FUTURE WORK ON ASARCO RI/FS; ATTACHED SUBCONTRACTOR APPROVAL FORM)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: VAN MUNSTER * SHOUP * DAVIS * KAIN * DEVARY * NUNN * ROSE * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1735 THRU: 316/1746
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151195 DATE: DEC. 27, 1987 PAGE: 1
TITLE: (TRANSMITS REFERENCE FOR HAZARD CRITERIA WORK)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: TAYLOR * SHOUP
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 316/1747 THRU: 316/1747
NOTES: UPDATE 02

FILE: 1170306 DOCNO: 0151196 DATE: DEC. 31, 1984 PAGE: 5
TITLE: (QUARTERLY REPORT 6: MONTANA CHILD-LEAD STUDY OCT. 1 - DEC. 31, 1984; ATTACHED EXHIBIT 1 PROPOSED WORKPLAN)
AUTHOR: MAUGHAN, DAVID/MDHES
ADDRESSEE: SCHILLING, REBECCA/CDC
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/1748 THRU: 316/1752
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151201 DATE: JAN. 2, 1985 PAGE: 2
TITLE: (TRANSMITS DATA REGARDING USGS DOMESTIC WELL SAMPLING/TESTING EVENT OF FALL 1983)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SHOUP * SCHWING
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030200
MICROFILM ROLL/FRAME NO.: 316/1753 THRU: 316/1754
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151203 DATE: JAN. 3, 1985 PAGE: 4
TITLE: (REQUEST FOR INPUT ON DATABASE MANAGEMENT SYSTEM PLANNING)
AUTHOR: LOVELL, DOUGLAS/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SHOUP * SCHWING * DOLLHOPF
QUALIFIER(S): INCOMPLETE * ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/1755 THRU: 316/1758
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151207 DATE: JAN. 3, 1985 PAGE: 6
TITLE: JUSTIFICATION FOR SOLE SOURCE SUBCONTRACTING OF MSU
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: VAN MUNSTER, JOAN/CH2M HILL
CC: TAYLOR * DOLLHOPF * KAIN * SCHWING
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/1759 THRU: 316/1764
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151213 DATE: JAN. 4, 1985 PAGE: 2
TITLE: (TRANSMITS SIGNED ORIGINAL AMENDMENT TO EAST HELENA SECTION 106 ORDER RELATING TO REVISED SCHEDULE FOR WATER QUALITY SAMPLING; ATTACHED SCHEDULE DATES AO/EAST HELENA)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: HESTER, DANIEL A/EPA
CC: SHARP * ROBBINS * NICKEL * HART * WARNER
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040200
MICROFILM ROLL/FRAME NO.: 316/1765 THRU: 316/1766
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151215 DATE: JAN. 4, 1985 PAGE: 2
TITLE: (DEFINITION OF BATTELLE REVISED ROLE)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DEVARY, JOE/BATTELLE
CC: TAYLOR * DOLLHOPF * SCHWING
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1767 THRU: 316/1768
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151217 DATE: JAN. 11, 1985 PAGE: 3
TITLE: (REQUEST FOR PROPOSAL TO CONDUCT ENDANGERMENT ASSESSMENT; TRANSMITS PORTION OF AO DEALING WITH PERFORMANCE OF ENDANGERMENT ASSESSMENT)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: DURFEE, ROBERT L./(VERSAR)
CC: SHARP * HART * FROHARDT * VARNER * BUNDY * TAYLOR
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 316/1769 THRU: 316/1771
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151220 DATE: JAN. 14, 1985 PAGE: 3
TITLE: (CH2M HILL COMMENTS ON ASARCO RI)
AUTHOR: LOVELL, DOUG/CH2M HILL * LUCERO, JOHN/CH2M HILL
ADDRESSEE: STANGA, GARY/ASARCO * HAYES, JOHN/ASARCO
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1772 THRU: 316/1774
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151223 DATE: JAN. 15, 1985 PAGE: 10
TITLE: (PROGRESS REPORT 2 FOR AOC CERCLA VIII-84-006)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 316/1775 THRU: 316/1784
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151233 DATE: JAN. 15, 1985 PAGE: 8
TITLE: (COMMENTS ON ASARCO DEC. 5, 1984 DATA PACKAGE; EXAMPLES OF CHAIN OF CUSTODY RECORDS)
AUTHOR: WEGNER, KEITH/CONTRACT EVIDENCE AUDIT TEAM
ADDRESSEE: LAIDLAW, ROB/EPA
CC: HILDEN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/1785 THRU: 316/1792
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151241 DATE: JAN. 16, 1985 PAGE: 2
TITLE: (TRANSMITS RFP ISSUED BY RESULTING HIRING OF CONSULTANT TO PREPARE ENDANGERMENT ASSESSMENT FOR EAST HELENA)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: METCALF, SHARON/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * MARGINALIA * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/1793 THRU: 316/1794
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151243 DATE: JAN. 18, 1985 PAGE: 1
TITLE: (APPRECIATION LETTER FOR EXCELLENT PERFORMANCE ON ASARCO RI)
AUTHOR: LOVELL, DOUGLAS/CH2M HILL * LUCERO, JOHN/ASARCO
ADDRESSEE: WONG, ANTHONY/CAL * TAYLOR, PAUL/CAL
CC: TAYLOR * AUSSERER * SHOUP * SCHWING
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1795 THRU: 316/1795
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151244 DATE: JAN. 21, 1985 PAGE: 4
TITLE: (RECOMMENDED PROCEDURE FOR RELEASE OF RI HEAVY METALS DATA)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * LUCERO * DOLLHOPF * FENSTERMAKER * FORESMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1796 THRU: 316/1799
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151248 DATE: JAN. 22, 1985 PAGE: 6
TITLE: (TRANSMITS ATTACHED OVERVIEW AND INTERPRETATION OF LEVEL OF THREE KEY ELEMENTS; ARSENIC, CADMIUM AND LEAD IN GRAIN SAMPLES COLLECTED IN HELENA VALLEY)
AUTHOR: NEUMAN, DENNIS R./MSU * DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 316/1800 THRU: 316/1805
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151254 DATE: JAN. 22, 1985 PAGE: 15
TITLE: (SUMMARIZES EVENTS CONCERNING ASARCO SAMPLING OF GROUNDWATER MONITORING WELLS INSTALLED BY HYDROMETRICS; ATTACHED LUCERO TELEPHONE MEMO CONCERNING GROUNDWATER SAMPLING)
AUTHOR: LUCERO, JOHN
ADDRESSEE: LOVELL, DOUG/(CH2M HILL)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):3030300
MICROFILM ROLL/FRAME NO.: 316/1806 THRU: 316/1820
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151269 DATE: JAN. 22, 1985 PAGE: 4
TITLE: (TRANSMITS ATTACHED AMENDMENT 1 TO AOC 84-006; ATTACHED TRANSMITTAL FROM FROHARDT)
AUTHOR: HESTER, DANIEL/EPA
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040200
MICROFILM ROLL/FRAME NO.: 316/1821 THRU: 316/1824
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151273 DATE: JAN. 22, 1985 PAGE: 7
TITLE: (TRANSMITS ATTACHED EVALUATION CRITERIA FOR EXISTING DATA FROM CERCLA STUDY AREAS JAN. 5, 1985 REVISION 1)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: NICKEL, JOHN (JON/ASARCO)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/1825 THRU: 316/1831
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151280 DATE: JAN. 24, 1985 PAGE: 2
TITLE: (TRANSMITS ASARCO DEC. 5, 1984 LABORATORY REVIEW)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: HILLMAN * CALLIO * VAN SCHULZ * LUCERO * HESTER * LAIDLAW
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1832 THRU: 316/1833
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151282 DATE: JAN. 25, 1985 PAGE: 3
TITLE: (DISCUSSES AND TRANSMITS ATTACHED CERTIFIED VALUES FOR NBS CITRUS LEAVES AND RESULTS OF SIX ANALYSES)
AUTHOR: NEUMAN, DENNIS R/MSU
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: TAYLOR * DOLLHOPF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1834 THRU: 316/1836
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151285 DATE: JAN. 25, 1985 PAGE: 1
TITLE: (TRANSMITS ADDITIONAL INFORMATION CONCERNING PERFORMANCE EVALUATION SOIL 3288 DELIVERABLE)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: BUTLER, LARRY/EPA
CC: TAYLOR * ROBBINS * VARNER
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/1837 THRU: 316/1837
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151286 DATE: JAN. 29, 1985 PAGE: 3
TITLE: (CONFERENCE CALL OF JAN. 28, 1985 ON EAST HELENA CERCLA STUDY GROUNDWATER MONITORING)
AUTHOR: GREENE, ROB/MDHES
ADDRESSEE: KEENAN, KEVIN/(MDHES) * KARLSEN, BARB/(MDHES)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):3010000
MICROFILM ROLL/FRAME NO.: 316/1838 THRU: 316/1840
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151289 DATE: JAN. 29, 1985 PAGE: 1
TITLE: (TRANSMITS TOXICITY PERSISTENCE IN PRICKLY PEAR CREEK, MONTANA NOV. 1984)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: NICKEL, JON/ASARCO
CC: TAYLOR * SCHWING * KOHONOSKI
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 316/1841 THRU: 316/1841
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151290 DATE: JAN. 29, 1985 PAGE: 3
TITLE: (TRANSMITS ATTACHED LIST OF SAMPLE SPECIFIC PARAMETERS ASARCO LAB HAS BEEN ASKED TO REANALYZE)
AUTHOR: GREENE, ROBERT N./MDHES
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: KARLSEN * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1842 THRU: 316/1844
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151293 DATE: JAN. 30, 1985 PAGE: 2
TITLE: (DISCUSSES AND TRANSMITS ATTACHED MAP SUMMARIZING LOCATIONS OF CATTLE HERDS IN HELENA PROJECT AREA)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: LOVELL, DOUG/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070201
MICROFILM ROLL/FRAME NO.: 316/1845 THRU: 316/1846
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151295 DATE: JAN. 31, 1985 PAGE: 18
TITLE: (INFORMATION REGARDING PRACTICES AND PROCEDURES ASARCO PLANS TO FOLLOW REGARDING PERFORMANCE OF ANALYSES WHICH ARE PART OF HYDROGEOLOGICAL INVESTIGATION OF EAST HELENA PLANT; ATTACHED ADDENDUM TO APPENDIX E DATA REDUCTION AND VALIDATION METHODS PLUS STATISTICAL TABLES AND LAB REPORT FORMS)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL * STANGA * VARNER * WATSON
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 316/1847 THRU: 316/1864
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151313 DATE: FEB. 5, 1985 PAGE: 10
TITLE: (TRANSMITS ATTACHED DRAFT SCOPE OF WORK [SOW] FOR DATABASE MANAGEMENT SYSTEM [DBMS])
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: ROBBINS, DON/ASARCO
CC: TAYLOR * SCHWING * KOHONOSKI * DOLLHOPF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/1865 THRU: 316/1874
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151323 DATE: FEB. 5, 1985 PAGE: 4
TITLE: (TRANSMITS ATTACHED DOCUMENTATION OF ANALYTICAL PROFICIENCY FOR ARSENIC; LISTS METHODOLOGY RECOGNIZED BY EPA FOR DETERMINATION OF ARSENIC; PERFORMANCE EVALUATION REPORT)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: TAYLOR * NICKEL * VARNER * STANGA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1875 THRU: 316/1878
KEYWORD(S): ARSENIC * SELENIUM
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151327 DATE: FEB. 5, 1985 PAGE: 2
TITLE: (TRANSMITS PART OF DRAFT WORK SCOPE DATABASE MANAGEMENT SYSTEM DEVELOPMENT ON EAST HELENA SMELTER; REQUESTS COMMENTS)
AUTHOR: LOVELL, DOUGLAS W./(CH2M HILL)
ADDRESSEE: ROBBINS, DON/ASARCO
CC: TAYLOR * SCHWING * KOHONOSKI * DOLLHOPF
QUALIFIER(S): MARGINALIA * INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070201
MICROFILM ROLL/FRAME NO.: 316/1879 THRU: 316/1880
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151329 DATE: FEB. 6, 1985 PAGE: 4
TITLE: (REJECTS PROPOSAL TO REPLACE KLARICH WITH JONES)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: KARP, DICK/SYSTEC
CC: SCHWING * KOHONOSKI * VAN MUNSTER * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/1881 THRU: 316/1884
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151333 DATE: FEB. 6, 1985 PAGE: 4
TITLE: (TRANSMITS ATTACHED ACTIVITY PLAN TOXIC EFFECTS MODELING EAST HELENA, MONTANA)
AUTHOR: FENSTERMAKER, LYNN K./LOCKHEED
ADDRESSEE: TAYLOR, GENE/EPA
CC: NELSON
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/1885 THRU: 316/1888
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151337 DATE: FEB. 8, 1985 PAGE: 2
TITLE: (TRANSMITS REVIEW COMMENTS FOR LABORATORY WATER RESOURCE MONITORING PLAN DATA PACKAGE)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: HESTER * HILLMAN * SCHWING * KOHONOSKI
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/1889 THRU: 316/1890
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151339 DATE: FEB. 11, 1985 PAGE: 8
TITLE: (TRANSMITS ATTACHED RECOMMENDED EXPERIMENTAL APPROACH FOR HELENA PROJECT AREA CATTLE STUDY)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: LOVELL, DOUGLAS W./CH2M HILL
CC: TAYLOR * HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 316/1891 THRU: 316/1898
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151347 DATE: FEB. 11, 1985 PAGE: 6
TITLE: (TRANSMITS ATTACHED ADDITIONAL HAZARD CRITERIA WORK REGARDING AS, PB, CD, AND ZN)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: LOVELL, DOUGLAS W./CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 316/1899 THRU: 316/1904
KEYWORD(S): ARSENIC * LEAD * CADMIUM * ZINC
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151353 DATE: FEB. 12, 1985 PAGE: 3
TITLE: (RESPONSE TO ATTACHED FEB. 6, 1985 LETTER FROM KAIN CONCERNING UNPAID INVOICES AND UNEXECUTED CONTRACT)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: KAIN, LAWRENCE T./MSU
CC: DOLLHOPF * TAYLOR * VAN MUNSTER * SCHWING * KOHONOSKI
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120104
MICROFILM ROLL/FRAME NO.: 316/1905 THRU: 316/1907
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151356 DATE: FEB. 13, 1985 PAGE: 2
TITLE: (NOTES FROM MEETING ATTENDED BY LUCERO, HILLMAN AND CALLIO; LISTS SPECIFICS OF DATA REVIEW PROCESS)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: ASARCO FILE
CC: TAYLOR * SCHWING * LOVELL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/1908 THRU: 316/1909
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151358 DATE: FEB. 13, 1985 PAGE: 8
TITLE: (TRANSMITS ATTACHED JUSTIFICATION FOR USING CONCENTRATED HCL FOR DETERMINATION OF EXTRACTABLE SOIL ARSENIC)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: LOVELL, D.W./CH2M HILL * TAYLOR, (GENE)/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 316/1910 THRU: 316/1917
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151366 DATE: FEB. 13, 1985 PAGE: 4
TITLE: (DISCUSSES INFORMATION CONCERNING COLLECTION OF RESIDENTIAL WELLS UNDER EAST HELENA CERCLA RI; ATTACHED TABLE WEST GAIL AVENUE (EAST HELENA, MT) JAN. 15, 1985 CONDUCTIVITY SURVEY)
AUTHOR: GREENE, ROBERT N./MDHES
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):3010000
MICROFILM ROLL/FRAME NO.: 316/1918 THRU: 316/1921
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151370 DATE: FEB. 15, 1985 PAGE: 3
TITLE: (TRANSMITS SCORE SHEETS AND ANALYTICAL SPREADSHEETS IN DATA PACKAGE)
AUTHOR: BUTLER, LARRY C./EPA
ADDRESSEE: TAYLOR, GENE/EPA * DUNN, JIM/EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/1922 THRU: 316/1924
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151373 DATE: FEB. 19, 1985 PAGE: 1
TITLE: (TRANSMITS PRELIMINARY RESULTS OF ANALYSIS AND DELIVERABLE FOR WATER SAMPLES RECEIVED JAN. 17, 1985)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * NICKEL * VARNER * ROBBINS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1925 THRU: 316/1925
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151374 DATE: FEB. 20, 1985 PAGE: 2
TITLE: (RESPONSES TO CH2M HILL DEC. 27, 1984 COMMENTS CONCERNING ASARCO DATA PACKAGE)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL * LUCERO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/1926 THRU: 316/1927
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151376 DATE: FEB. 21, 1985 PAGE: 15
TITLE: (TRANSMITS ATTACHED RESULTS AND SCORESHEETS OF REVIEW OF DATA PACKAGE DEC. 5, 1984 WHICH PRESENTED RESULTS OF ASARCO ANALYSIS OF WATER SAMPLES TAKEN AT EAST HELENA)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: HILLMAN, JUANITA/EPA
CC: HESTER * LEHR * DUPREY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 316/1928 THRU: 316/1942
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151391 DATE: FEB. 26, 1985 PAGE: 5
TITLE: (TRANSMITS ATTACHED TABLES SHOWING RESULTS OF ANALYSES OF THREE BLIND FIELD STANDARDS, NBS RIVER SEDIMENT, NBS CITRUS LEAVES AND USGS SOIL USED IN HELENA VALLEY INVESTIGATION)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: TAYLOR * DOLLHOPF
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/1943 THRU: 316/1947
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * COPPER * LEAD * MANGANESE * SELENIUM * ZINC
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151396 DATE: FEB. 27, 1985 PAGE: 3
TITLE: (TRANSMITS ATTACHED SUMMARIZATION OF TYPE AND INTERPRETATION OF SOIL/VEGETATION DATA IN LETTER FROM LOVELL TO TAYLOR)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FROHARDT
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 316/1948 THRU: 316/1950
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151399 DATE: FEB. 27, 1985 PAGE: 2
TITLE: (CONFIRMS ASARCO DOES NOT INTEND TO PERFORM ANY PORTION OF SAMPLING ANALYSIS IN CONNECTION WITH EPA PLANNED LIVESTOCK BLOOD TESTING PROGRAM)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: TAYLOR, GENE/EPA
CC: SHARP * HART * ROBBINS * VARNER * NICKEL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 316/1951 THRU: 316/1952
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151401 DATE: FEB. 28, 1985 PAGE: 15
TITLE: (DISCUSSES DEVELOPMENTS CONCERNING SET OF SOIL SAMPLES WHICH FAILED EPA TOXICITY TEST; DEC. 19, 1984 MSU CORRESPONDENCE WITH ATTACHED DATA RESULTS ADDRESSING OVERVIEW OF NINE SOIL SAMPLES THAT UNDERWENT EP TOXICITY SAMPLING)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FROHARDT * KEENAN * KARLSON
QUALIFIER(S): MARGINALIA * ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300
MICROFILM ROLL/FRAME NO.: 316/1953 THRU: 316/1967
KEYWORD(S): ARSENIC * IRON * LEAD * MANGANESE
NOTES: UPDATE 02

FILE: 1170401 DOCNO: 0151416 DATE: FEB. 28, 1985 PAGE: 2
TITLE: (CONFIRMS CONVERSATION OF FEB. 25, 1985 WHERE CH2M HILL WAS INFORMED OF ASARCO DECISION NOT TO EXECUTE LIVESTOCK STUDIES AND WAS DIRECTED TO PROCEED ON PLANNING AND PREPARATION OF DOCUMENTS NECESSARY FOR FIELD WORK)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * KOHONOSKI
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 316/1968 THRU: 316/1969
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151418 DATE: MAR. 1, 1985 PAGE: 1
TITLE: (TRANSMITS INFORMATION DEFINING SCOPE, SCHEDULE AND BUDGET FOR MSU INVOLVEMENT IN DATABASE MANAGEMENT SYSTEM DEVELOPMENT)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: TAYLOR * SCHWING * SHOUP * VAN MUNSTER
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120107
MICROFILM ROLL/FRAME NO.: 316/1970 THRU: 316/1970
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151419 DATE: MAR. 1, 1985 PAGE: 10
TITLE: (COMMENTS ON ATTACHED FEB. 20, 1985 LETTER FROM MILLER TO TAYLOR CONCERNING DEC. 5, 1985 DATA PACKAGE)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * KOHONOSKI * LUCERO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/1971 THRU: 316/1980
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151429 DATE: MAR. 1, 1985 PAGE: 1
TITLE: (NOTIFIES FEB. 19, 1985 WRMP DATA PACKAGE WAS RECEIVED)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * KOHONOSKI
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/1981 THRU: 316/1981
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151430 DATE: MAR. 1, 1985 PAGE: 4
TITLE: (COMMENTS ON ATTACHED FEB. 19, 1985 WEEKLY LAB STATUS REPORT)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/1982 THRU: 316/1985
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151434 DATE: MAR. 1, 1985 PAGE: 14
TITLE: (COMMENTS ON ASARCO SALT LAKE CITY LABORATORY WATER RESOURCE MONITORING PLAN DATA PACKAGE OF DEC. 5, 1984)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: ROBBINS, DON/ASARCO
CC: NICKEL * FROHARDT * HESTER * HILLMAN * LOVELL
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/1986 THRU: 316/1999
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151448 DATE: MAR. 4, 1985 PAGE: 18
TITLE: (TRANSMITS ATTACHED FEB. 19, 1985 LETTER TO NICKEL FROM MILLER ADDRESSING CONCERNS OF GROUNDWATER SAMPLING METHODS AND FIELD PARAMETER MEASUREMENTS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030400
MICROFILM ROLL/FRAME NO.: 316/2000 THRU: 316/2017
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151466 DATE: MAR. 16, 1985 PAGE: 5
TITLE: (TRANSMITS ATTACHED QUARTERLY STATUS REPORT 6 ON EAST HELENA CHILD LEAD STUDY OCT. 1 - DEC. 31, 1984)
AUTHOR: JONES, GEORGI A./ATSDR
ADDRESSEE: HEDEMAN, WILLIAM/EPA
CC: ZAMUNDA * SPEIGHTS * PERRY
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/2018 THRU: 316/2022
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151471 DATE: MAR. 7, 1985 PAGE: 1
TITLE: (CONFIRMS CONVERSATION ON DATA MANAGEMENT SYSTEM, OVERSIGHT WORK PLAN AND LIVESTOCK INVESTIGATIONS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LOVELL, DOUG/CH2M HILL
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 316/2023 THRU: 316/2023
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151472 DATE: MAR. 8, 1985 PAGE: 4
TITLE: (AOC CERCLA VIII-84-006 PROGRESS REPORT 3)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 316/2024 THRU: 316/2027
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151476 DATE: MAR. 8, 1985 PAGE: 2
TITLE: (NOTIFIES ASARCO IS POSTPONING MAR. 1, 1985 WATER QUALITY SAMPLING)
AUTHOR: FROHARDT, PAUL/HOLLAND AND HART
ADDRESSEE: TAYLOR, GENE/EPA
CC: SHARP * HART * ROBBINS * NICKEL * HESTER
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1010100
MICROFILM ROLL/FRAME NO.: 316/2028 THRU: 316/2029
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151478 DATE: MAR. 12, 1985 PAGE: 3
TITLE: (INFORMATION ON RESIDENTIAL WELLS SAMPLED IN JAN. 15, 1985 GAIL MDHES SURVEY; ATTACHED ANALYSIS REPORT)
AUTHOR: GREENE, ROBERT N./MDHES
ADDRESSEE: TAYLOR, GENE/EPA
CC: KARLSEN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/2030 THRU: 316/2032
KEYWORD(S): CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151481 DATE: MAR. 13, 1985 PAGE: 2
TITLE: (NOTE CONCERNING MSU HAZARD CRITERIA DOCUMENT)
AUTHOR: JMS
ADDRESSEE: GENE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 316/2033 THRU: 316/2034
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151483 DATE: MAR. 13, 1985 PAGE: 3
TITLE: RESEARCH OBJECTIVES ASSOCIATED ANALYTICAL PROTOCOLS, NUMBER AND HAZARD CRITERIA AT MINING RELATED SUPERFUND SITES IN MONTANA
AUTHOR: BISHOP, MIKE/EPA * RUBICH, MIKE/MDHES
ADDRESSEE: LOVELL, DOUG/(CH2M HILL)
CC: WONG * CALLAWAY * JOHNSON * /GOVERNOR OFFICE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070302 * 1060400
MICROFILM ROLL/FRAME NO.: 316/2035 THRU: 316/2037
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151486 DATE: MAR. 14, 1985 PAGE: 3
TITLE: (TRANSMITS ATTACHED TELEPHONE CONVERSATION SUMMARY REGARDING EVIDENCE AUDIT QUESTIONS)
AUTHOR: LOVELL, DOUG/(CH2M HILL)
ADDRESSEE: ROBBINS, DON/(ASARCO)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/2038 THRU: 316/2040
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151489 DATE: MAR. 15, 1985 PAGE: 17
TITLE: (REQUESTS RESPONSE FROM STANGA AND HAYES CONCERNING DEC. 5, 1983 DATA PACKAGE; RESPONSES ATTACHED)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: HILLMAN * LOVELL * FROHARDT * STANGA * BOTZ * NICKEL * VARNER
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/2041 THRU: 316/2057
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151506 DATE: MAR. 18, 1985 PAGE: 2
TITLE: (TRANSMITS MAR. 1982 THE EFFECTS OF LEAD EMISSIONS ON LIVESTOCK IN THE AREA OF THE EAST HELENA ASARCO SMELTER)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030300 * 4070600
MICROFILM ROLL/FRAME NO.: 316/2058 THRU: 316/2059
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151508 DATE: MAR. 18, 1985 PAGE: 2
TITLE: (NOTIFIES OF PROBLEM DEFINING WHAT IS REQUIRED OF EVIDENCE AUDIT; TRANSMITS MAR. 18, 1985 LETTER FROM ROBBINS)
AUTHOR: LAIDLAW, ROB
ADDRESSEE: TAYLOR, GENE
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * HANDWRITTEN * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/2060 THRU: 316/2061
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151510 DATE: MAR. 20, 1985 PAGE: 2
TITLE: (CONFIRMS TELEPHONE DISCUSSIONS REGARDING CH2M HILL AND MSU PARTICIPATION IN HAZARD CRITERIA MEETING)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: KOHONOSKI * SELLMAN * SCHWING * DOLLHOPF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070302
MICROFILM ROLL/FRAME NO.: 316/2062 THRU: 316/2063
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151512 DATE: MAR. 25, 1985 PAGE: 1
TITLE: (REQUESTS REVIEW OF THE EFFECTS OF LEAD EMISSIONS ON LIVESTOCK IN THE AREA OF THE EAST HELENA ASARCO SMELTER)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: KOHONOSKI * SCHWING * TAYLOR
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 316/2064 THRU: 316/2064
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151513 DATE: MAR. 26, 1985 PAGE: 1
TITLE: (TRANSMITS REVISIONS TO FINAL OVERSIGHT WORK PLAN)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): INCOMPLETE * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120107
MICROFILM ROLL/FRAME NO.: 316/2065 THRU: 316/2065
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151514 DATE: MAR. 26, 1985 PAGE: 20
TITLE: (REQUEST TO REVIEW ATTACHED MSU DATABASE MANAGEMENT SYSTEM [DBMS] INTERIM DELIVERABLE)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA * MAUGHAN, DAVE/MDHES * LUCERO, JOHN/CH2M HILL * SHERMAN, SUE/CH2M HILL * DOLLHOPF, DOUG/MSU
CC: KOHONOSKI * SCHWING
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/2066 THRU: 316/2085
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151534 DATE: MAR. 26, 1985 PAGE: 6
TITLE: REQUEST FOR PROPOSALS, LIVESTOCK SAMPLING PHASE 1 RI ASARCO, MT RI/FS
AUTHOR: LOVELL, DOUGLAS/CH2M HILL
ADDRESSEE: STILLER, DAVID/STILLER AND ASSOCIATES * CASNE, EDWARD/CASNE AND ASSOCIATES * KARP, DICK/SYSTEC * FERNS, TOM/MSU
CC: TAYLOR * KOHONOSKI * BRIDGER * SCHWING
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 316/2086 THRU: 316/2091
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151540 DATE: MAR. 27, 1985 PAGE: 1
TITLE: (TRANSMITS INTRODUCTORY MATERIAL ON DATABASE MANAGEMENT SYSTEM FOR ANACONDA SMELTER RI/FS CERCLA PROJECT)
AUTHOR: LOVELL, DOUGLAS/CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: TAYLOR * BISHOP * KOHONOSKI * SCHWING
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/2092 THRU: 316/2092
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151541 DATE: MAR. 27, 1985 PAGE: 1
TITLE: (ACKNOWLEDGES RECEIPT OF LABORATORY WATER RESOURCE MONITORING PLAN DATA PACKAGES FEB. 14 AND 22, 1985)
AUTHOR: LOVELL, DOUGLAS/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: KOHONOSKI * SCHWING
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/2093 THRU: 316/2093
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151542 DATE: MAR. 27, 1985 PAGE: 2
TITLE: (TRANSMITS INFORMATION ON LIVESTOCK SAMPLE LABORATORY ANALYSIS)
AUTHOR: LOVELL, DOUGLAS/CH2M HILL
ADDRESSEE: AUSSERER, PAULA/(EPA)
CC: TAYLOR * SCHWAB * KOHONOSKI * SCHWING * HILLMAN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101 * 4070600
MICROFILM ROLL/FRAME NO.: 316/2094 THRU: 316/2095
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151544 DATE: APR. 1, 1985 PAGE: 1
TITLE: (APPROVES CH2M HILL EXPENDITURES BUDGET ON EAST HELENA THROUGH FISCAL YEAR 1985)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: WONG, JUDY/EPA * SKIE, DOUG/EPA
QUALIFIER(S): ORIGINAL * TISSUE COPY * MARGINALIA * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/2096 THRU: 316/2096
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151545 DATE: APR. 1, 1985 PAGE: 2
TITLE: (TRANSMITS REVISION 2 FOR PHASE 1 RI, OPTIONAL FORM 60 SUPPORTING REVISION REQUEST AND LETTER REQUESTING REVIEW AND APPROVAL)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: WONG, JUDY/EPA
CC: TAYLOR * SCHWING * KOHONOSKI * SELLMAN
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120107
MICROFILM ROLL/FRAME NO.: 316/2097 THRU: 316/2098
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151547 DATE: APR. 1, 1985 PAGE: 2
TITLE: (TRANSMITS DATA PACKAGE OF CHECK LISTS EXTRACTED FROM NEIC PROCEDURES MANUALS FOR REQUESTED EVIDENCE AUDIT)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL * BOTZ * VARNER * STANGA * HAYES
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/2099 THRU: 316/2100
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151549 DATE: APR. 2, 1985 PAGE: 2
TITLE: (TRANSMITS REVISION 2 FOR PHASE 1 RI AND LETTER REQUESTING REVIEW AND APPROVAL)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: SELLMAN, WAYNE
CC: TAYLOR * WONG * SCHWING * KOHONOSKI
QUALIFIER(S): INCOMPLETE * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120107
MICROFILM ROLL/FRAME NO.: 316/2101 THRU: 316/2102
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151551 DATE: APR. 2, 1985 PAGE: 4
TITLE: (TRANSMITS ATTACHED REVIEW COMMENTS PREPARED BY NEIC CONTRACT EVIDENCE AUDIT TEAM REGARDING ASARCO RESPONSE TO EPA DATA PACKAGE REVIEW)
AUTHOR: LAIDLAW, ROBERT/(EPA)
ADDRESSEE: TAYLOR, GENE/EPA
CC: LOVELL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/2103 THRU: 316/2106
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151555 DATE: APR. 2, 1985 PAGE: 3
TITLE: (DISCUSSES STATUS OF DATABASE MANAGEMENT SYSTEM PHASE 1 RI)
AUTHOR: LOVELL, DOUGLAS/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DOLLHOPF * KOHONOSKI * SCHWING * SELLMAN * BUTT * WONG
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/2107 THRU: 316/2109
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151558 DATE: APR. 3, 1985 PAGE: 3
TITLE: (DIRECTS MSU TO STOP WORK ON SUBTASK 2.2 UNTIL FURTHER NOTICE)
AUTHOR: LOVELL, DOUGLAS/CH2M HILL
ADDRESSEE: DOLLHOPF, DOUGLAS/MSU
CC: TAYLOR * SCHWING * KOHONOSKI * VAN MUNSTER
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120107
MICROFILM ROLL/FRAME NO.: 316/2110 THRU: 316/2112
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151561 DATE: APR. 4, 1985 PAGE: 1
TITLE: (FOLLOW-UP TO TELEPHONE CONVERSATION GIVING ASARCO EPA VERBAL APPROVAL TO BEGIN MAR. 1985 SURFACE AND GROUNDWATER SAMPLING AND SUBSEQUENT ANALYSIS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FROHARDT * KARLSEN * GREENE * HESTER * HILLMAN
QUALIFIER(S): ORIGINAL * TISSUE COPY * INCOMPLETE * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020101
MICROFILM ROLL/FRAME NO.: 316/2113 THRU: 316/2113
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151562 DATE: APR. 4, 1985 PAGE: 5
TITLE: (RESPONSE TO ATTACHED FEB. 27, 1985 LETTER CONFIRMING INTENT NOT TO PARTICIPATE IN LIVESTOCK STUDY)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
CC: NICKEL * KARLSEN * HESTER
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 316/2114 THRU: 316/2118
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151567 DATE: DEC. 21, 1984 PAGE: 2
TITLE: (PROPOSED SEQUENCE OF EVENTS DEALING WITH LIVESTOCK BLOOD TESTING PROGRAM)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: NICKEL, JON/(ASARCO)
CC: FROHARDT * DOLLHOPF * LOVELL * KARLSEN * HESTER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 316/2119 THRU: 316/2120
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151569 DATE: MAR. 13, 1985 PAGE: 1
TITLE: MEETING NOTES DEALING WITH LIVESTOCK STUDY
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 316/2121 THRU: 316/2121
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151570 DATE: APR. 4, 1985 PAGE: 2
TITLE: (NOTIFIES NICKEL WAS GIVEN VERBAL APPROVAL FOR SCHEDULED MAR. 1985 SURFACE WATER SAMPLING AT EAST HELENA; RESPONSE TO MAR. 8, 1985 LETTER FROM FROHARDT)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
CC: NICKEL * KARLSEN * HESTER
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):4010000
MICROFILM ROLL/FRAME NO.: 316/2122 THRU: 316/2123
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151583 DATE: APR. 12, 1985 PAGE: 2
TITLE: (DISCUSSES WATER RESOURCES INVESTIGATION SAMPLING PROCEDURES)
AUTHOR: BOTZ, M. K.
ADDRESSEE: TAYLOR, GENE
CC: NICKEL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/2124 THRU: 316/2125
KEYWORD(S): ZINC * CADMIUM * ARSENIC * GROUNDWATER
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151585 DATE: APR. 15, 1985 PAGE: 1
TITLE: (DISCUSSES COMPLAINTS ABOUT GAIL STREET DOMESTIC WELL SAMPLING)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FROHARDT * GREENE * KARLSON * HESTER
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/2126 THRU: 316/2126
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151586 DATE: APR. 15, 1985 PAGE: 1
TITLE: (TRANSMITS PROFESSIONAL RESUMES OBTAINED FROM ESE STAFF OF GAINESVILLE FLORIDA)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): INCOMPLETE * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 316/2127 THRU: 316/2127
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151587 DATE: APR. 15, 1985 PAGE: 2
TITLE: (TRANSMITS CH2M HILL COMMENTS SUGGESTED OUTLINE, COVER PAGES, MARKED UP COPY OF MSU FOP AND EXAMPLE FOP)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: DOLLHOPF, DOUGLAS J./MSU
CC: SCHWING * KOHONOSKI * LUCERO * SHERMAN * TAYLOR * CASNE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500 * 4070600
MICROFILM ROLL/FRAME NO.: 316/2128 THRU: 316/2129
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151589 DATE: APR. 16, 1985 PAGE: 2
TITLE: (TRANSMITS COMMENTS ON WOODWARD-CLYDE CONSULTANTS MEMO ON LIBRARY DATA SYSTEM RECORD DEFINITION, ASARCO RECORD DEFINITION, SORTING REQUIREMENTS AND DATABASE MANAGEMENT SYSTEM [DBMS] QA/QC)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: VON LINDERN, IAN/TERRA GRAPHICS
CC: SCHWING * KOHONOSKI * HALM * DOLLHOPF * TAYLOR * BISHOP
QUALIFIER(S): REPRODUCTION * MARGINALIA * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120109
MICROFILM ROLL/FRAME NO.: 316/2130 THRU: 316/2131
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151591 DATE: APR. 16, 1985 PAGE: 2
TITLE: (TRANSMITS ATTACHED REVISED PROJECT TIME SCHEDULE FOR COMPLETION OF GROUND AND SURFACE WATER STUDIES OUTLINED IN HYDROGEOLOGICAL INVESTIGATION FOR ASARCO EAST HELENA PLANT)
AUTHOR: NICKEL, JON/(ASARCO)
ADDRESSEE: TAYLOR, GENE/(EPA)
CC: FROHARDT * GREENE * KARLSON
QUALIFIER(S): ORIGINAL * INCOMPLETE * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/2132 THRU: 316/2133
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151593 DATE: APR. 16, 1985 PAGE: 3
TITLE: (TRANSMITS ATTACHED LETTER AND ABSTRACT FROM FORESMAN/EPA TO NICKEL CONCERNING TOXIC EMISSIONS MODELING)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LOVELL, DOUG/CH2M HILL
CC: DOLLHOPF * HESTER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/2134 THRU: 316/2136
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151596 DATE: APR. 17, 1985 PAGE: 4
TITLE: (TRANSMITS STATEMENT OF QUALIFICATIONS FROM WILSON LABORATORIES AND TAKE TELECOM RESPONSE TO QUESTIONS FROM CH2M HILL)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: AUSSERER, PAULA/(EPA)
CC: TAYLOR * HILLMAN * SCHWING * KOHONOSKI * LUCERO * SHERMAN * DOLLHOPF * CASNE
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070600
MICROFILM ROLL/FRAME NO.: 316/2137 THRU: 316/2140
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151600 DATE: APR. 18, 1985 PAGE: 6
TITLE: (SUMMARIZES ASARCO PROJECT TEAM ACTIVITIES AND SELECTION OF SUBCONTRACTOR FOR LIVESTOCK SAMPLING)
AUTHOR: SHERMAN, SUE/CH2M HILL
ADDRESSEE: BRIDGER, ANGELA/CH2M HILL
CC: LOVELL * TAYLOR * VAN MUNSTER * KOHONOSKI
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120107
MICROFILM ROLL/FRAME NO.: 316/2141 THRU: 316/2146
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151606 DATE: APR. 19, 1985 PAGE: 1
TITLE: (APPROVAL FOR ASARCO TO HIRE ES AND E FOR ENDANGERMENT ASSESSMENT)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 316/2147 THRU: 316/2147
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151607 DATE: APR. 19, 1985 PAGE: 3
TITLE: (COMMENTS ON SOLID MATRIX ANALYSIS)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: ROBBINS, DON/(ASARCO)
CC: FROHARDT * GREENE * KARLSEN * HESTER * HILLMAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 316/2148 THRU: 316/2150
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151610 DATE: APR. 22, 1985 PAGE: 2
TITLE: (TRANSMITS ATTACHED PROJECT TIME SCHEDULE FOR ASARCO EAST HELENA PROJECT)
AUTHOR: MILLER, ROBERT/HYDROMETRICS
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL * LOVELL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/2151 THRU: 316/2152
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151612 DATE: APR. 22, 1985 PAGE: 1
ATTACHED DOC(S): 0151613
TITLE: ROUTING AND TRANSMITTAL SLIP (WITH NOTES RELATING TO APR. 17, 1985 LETTERS BY LOVELL)
AUTHOR: SCHWAB, K. O.
ADDRESSEE: TAYLOR, GENE
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/2153 THRU: 316/2153
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151613 DATE: APR. 23, 1984 PAGE: 1
ATTACHED TO: 0151612
TITLE: (REVIEW COMMENTS FINAL WORK PLAN PHASE 1 RI)
AUTHOR: DICKSTEIN, IRWIN L./(EPA)
ADDRESSEE: TAYLOR, GENE
CC: JOHNSON * WARDELL
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/2154 THRU: 316/2154
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151614 DATE: APR. 23, 1985 PAGE: 1
TITLE: (NOTIFIES OF MEETING SCHEDULED MAY 9, 1985 TO DISCUSS CONDUCT OF ASSESSMENT DEALING WITH ENDANGERMENT ASSESSMENT PRIOR TO INITIATION OF ANY WORK BY CONTRACTOR)
AUTHOR: ROBBINS, DONALD/ASARCO
ADDRESSEE: NICKEL, JON/(ASARCO)
CC: TUCKER * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 316/2155 THRU: 316/2155
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151615 DATE: APR. 23, 1985 PAGE: 3
TITLE: (COMMENTS ON LETTER AND REVISED TIME SCHEDULE DATE APR. 11, 1985)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: KARLSEN * GREENE * FROHARDT * HESTER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * INCOMPLETE * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/2156 THRU: 316/2158
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151618 DATE: APR. 24, 1985 PAGE: 3
TITLE: (INFORMATION CONCERNING SAMPLING OF FIVE SURFACE WATER STATIONS DESCRIBED IN WATER RESOURCES MONITORING PLAN)
AUTHOR: MILLER, ROBERT/HYDROMETRICS
ADDRESSEE: (GREENE), ROB/(MDHES)
CC: TAYLOR * NICKEL * LOVELL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/2159 THRU: 316/2161
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151621 DATE: APR. 25, 1985 PAGE: 4
TITLE: (CONCERNS ABOUT ASARCO 1985 IRRIGATION SEASON SAMPLING OF WILSON DITCH; ATTACHED CERTIFIED MAIL RECEIPT P553 667 069)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: KEENAN * FROHARDT * KARLSON * HESTER * WARDELL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070800
MICROFILM ROLL/FRAME NO.: 316/2162 THRU: 316/2166
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151626 DATE: APR. 25, 1985 PAGE: 3
TITLE: (DISCUSSES BLIND FIELD STANDARDS LIVESTOCK STUDIES)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: PASCHAL, DAN/CDC
CC: LOVELL * SHERMAN * CASNE * SCHWING * KOHONOSKI * TAYLOR * NEUMAN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500 * 4070600
MICROFILM ROLL/FRAME NO.: 316/2167 THRU: 316/2169
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151629 DATE: APR. 26, 1985 PAGE: 4
TITLE: (APPRECIATION FOR PARTICIPATION IN LIVESTOCK SURVEY; ATTACHED DATA SHEET OF RANCHERS WHO WILL PARTICIPATE IN SUPERFUND INVESTIGATION)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: BURNHAM
QUALIFIER(S): ORIGINAL * TISSUE COPY * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 316/2170 THRU: 316/2173
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151633 DATE: APR. 26, 1985 PAGE: 2
TITLE: (NOTES ON TELECONFERENCE BETWEEN LOVELL AND TAYLOR APR. 26, 1985 DEALING WITH RELEASE OF DOCUMENTATION AND DATA SUBMITTAL 1 TO HYDROMETRICS)
AUTHOR: LOVELL, DOUG/CH2M HILL
ADDRESSEE: LUCERO, JOHN
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/2174 THRU: 316/2175
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151635 DATE: APR. 29, 1985 PAGE: 13
TITLE: (TRANSMITS ATTACHED REAL-WORLD DATA FOR METALS IN SOIL AND VEGETATION COMPLIED BY NEWMAN/MSU)
AUTHOR: LOVELL, DOUGLAS/CH2M HILL
ADDRESSEE: BAKER, JIM/EPA
CC: SCHWING * KOHONOSKI * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 316/2176 THRU: 316/2188
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * LEAD * MANGANESE * SELENIUM * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151648 DATE: APR. 29, 1985 PAGE: 2
TITLE: DADS NO. 1 WATER RESOURCE MONITORING PLAN OVERSIGHT (ADDENDUM TO DOCUMENTATION AND DATA SUBMITTAL NO. 1 VOL. 1)
AUTHOR: LOVELL, DOUGLAS/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * KOHONOSKI * LUCERO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/2189 THRU: 316/2190
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151650 DATE: APR. 29, 1985 PAGE: 3
TITLE: (TRANSMITS ATTACHED SOLID MATRIX STANDARD REFERENCE MATERIALS FOR SOILS INVESTIGATIONS PHASE 1 RI)
AUTHOR: LOVELL, DOUGLAS W./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * KOHONOSKI * LUCERO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/2191 THRU: 316/2193
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151653 DATE: APR. 29, 1985 PAGE: 5
TITLE: (TRANSMITS ATTACHED QUARTERLY REPORT 7 CHILD LEAD STUDY JAN. 1 - MAR. 31, 1985)
AUTHOR: JONES, GEORGI A./ATSDR
ADDRESSEE: HEDEMAN, WILLIAM/EPA
CC: ZAMUNDA * SPEIGHTS * PERRY
QUALIFIER(S): MARGINALIA * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 316/2194 THRU: 316/2198
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151658 DATE: APR. 29, 1985 PAGE: 2
TITLE: (CONFIRMS INTENT TO PERFORM DOMESTIC GROUNDWATER WELL SAMPLING AND ANALYSES OF THIRTEEN WELLS LOCATED ALONG GAIL STREET; ATTACHED LIST OF WELLS TO BE SAMPLED)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: FROHARDT * KARLSEN * BOTZ
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020101
MICROFILM ROLL/FRAME NO.: 316/2199 THRU: 316/2200
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151660 DATE: APR. 29, 1985 PAGE: 2
TITLE: (PERMISSION TO CONDUCT PARTIAL SURFACE AND SEDIMENT SAMPLING BEGINNING FIRST WEEK OF MAY AS SHOWN IN APR. 15, 1985 PROPOSED REVISED TIME SCHEDULE)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FROHARDT * GREENE * KARLSEN * HESTER
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL * TISSUE COPY * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 316/2201 THRU: 316/2202
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151662 DATE: APR. 29, 1985 PAGE: 3
TITLE: (CONCERNS TURBIDITY OF NEWLY CONSTRUCTED GROUNDWATER MONITORING WELLS DH-1 - DH-11)
AUTHOR: LOVELL, DOUG/(CH2M HILL)
ADDRESSEE: LUCERO, JOHN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/2203 THRU: 316/2205
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151665 DATE: APR. 30, 1985 PAGE: 3
TITLE: (DISCUSSES LAB PROTOCOLS APPROPRIATE FOR ANALYSIS OF INORGANIC TRACE ELEMENTS COMMONLY ASSOCIATED WITH MINING/SMELTING; ATTACHED HCL EXTRACTABLE ARSENIC IN SOILS)
AUTHOR: BISHOP, MIKE/EPA
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/2206 THRU: 316/2208
NOTES: UPDATE 02

FILE: 1170402 DOCNO: 0151668 DATE: APR. 30, 1985 PAGE: 4
TITLE: (RESPONSES TO EPA COMMENTS OF APR. 19, 1985 REGARDING SOLID MATRIX PERFORMANCE EVALUATION [PE])
AUTHOR: ROBBINS, DONALD/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL * WARNER * STANGA * HAYES
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/2209 THRU: 316/2212
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151672 DATE: MAY 6, 1985 PAGE: 2
TITLE: (RESPONSE TO REQUEST FOR DETAILED EXPLANATION REGARDING EVENTS RELATING TO APR. 18, 1985 WATER SAMPLING OF WILSON IRRIGATION DITCH)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: FROHARDT * KARLSEN * KEENAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070800
MICROFILM ROLL/FRAME NO.: 316/2213 THRU: 316/2214
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151674 DATE: MAY 7, 1985 PAGE: 10
TITLE: FIRST QUARTERLY GROUNDWATER SAMPLING DATA JAN. 15-21, 1985; IMPACT OF TURBIDITY ON METAL ION CONCENTRATIONS
AUTHOR: SALE, TOM/CH2M HILL
ADDRESSEE: LOVELL, DOUG/(CH2M HILL)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070101 * 3030300
MICROFILM ROLL/FRAME NO.: 316/2215 THRU: 316/2224
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151684 DATE: MAY 7, 1985 PAGE: 1
TITLE: (REQUESTS LIVESTOCK LAP, FIELD OPERATION PLAN, OVER-ALL WORKPLAN AND HERD HISTORY)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: FROHARDT
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070600
MICROFILM ROLL/FRAME NO.: 316/2225 THRU: 316/2225
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151685 DATE: MAY 7, 1985 PAGE: 1
TITLE: (CONCERNS RESERVATION OF ROOM IN HELENA FEDERAL BUILDING FOR MAY 9, 1985 ENDANGERMENT ASSESSMENT MEETING)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1010200
MICROFILM ROLL/FRAME NO.: 316/2226 THRU: 316/2226
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151686 DATE: MAY 7, 1985 PAGE: 5
TITLE: (TRANSMITS ATTACHED ADVANCE DRAFT COPY OF REMEDIAL COMPONENT OF AMENDED FISCAL YEAR 1985 SCAP)
AUTHOR: SHECKELLS, TOM/EPA
ADDRESSEE: REGIONAL BRANCH CHIEFS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1110100
MICROFILM ROLL/FRAME NO.: 316/2227 THRU: 316/2231
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151691 DATE: MAY 8, 1985 PAGE: 2
TITLE: (CLARIFIES SEQUENCE OF EVENTS WHICH OCCURRED RELATING TO CERCLA WATER RESOURCE INVESTIGATION)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: FROHARDT * KARLSEN * GREENE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 316/2232 THRU: 316/2233
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151693 DATE: MAY 8, 1985 PAGE: 1
TITLE: (REQUESTS EXHIBIT 2 BE AMENDED IN BLOOD SAMPLING EFFORTS TO INCLUDE COST ADDITION AND UTILIZATION OF INDIVIDUALS)
AUTHOR: STILLER, DAVID/STILLER AND ASSOCIATES
ADDRESSEE: LOVELL, DOUGLAS/CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/2234 THRU: 316/2234
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151694 DATE: MAY 10, 1985 PAGE: 1
TITLE: (APPROVAL TO WAIVE 30-DAY TURNAROUND TIME FOR CORE AND SEDIMENT SAMPLES)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: FROHARDT * NICKEL * VARNER * ROBBINS * STANGA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 316/2235 THRU: 316/2235
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151695 DATE: MAY 10, 1985 PAGE: 1
TITLE: (REQUESTS REVIEW OF DOCUMENTATION AND DATA SUBMITTAL NUMBER ONE EAST HELENA, MONTANA)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: HILLMAN, JUANITA/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/2236 THRU: 316/2236
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151696 DATE: MAY 14, 1985 PAGE: 1
TITLE: (TRANSMITS RESPONSE TO EPA REGARDING ANALYSIS OF SOLID MATRIX P.E. SAMPLES)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: HILLMAN, JUANITA/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 316/2237 THRU: 316/2237
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151697 DATE: MAY 14, 1985 PAGE: 3
TITLE: AOC VIII-84-006 PROGRESS REPORT 4
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 316/2238 THRU: 316/2240
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151700 DATE: APR. 12, 1985 PAGE: 2
TITLE: (RECOMMENDS FUTURE MONITORING WELL SAMPLING PROCEDURES REMAIN SIMILAR TO PREVIOUS PROCEDURES)
AUTHOR: BOTZ, M. K./HYDROMETRICS
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 316/2241 THRU: 316/2242
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151702 DATE: MAY 14, 1985 PAGE: 1
TITLE: (NOTIFIES $100.00 WILL BE PROVIDED TO RANCHERS FOR SAMPLES FROM THEIR HERDS)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * KOHONOSKI * DOLLHOPF * SHERMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/2243 THRU: 316/2243
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151703 DATE: MAY 15, 1985 PAGE: 1
TITLE: (TRANSMITS LIVESTOCK STUDY LABORATORY PROTOCOL; NOTIFIES HERD SPECIFIC INFORMATION REQUESTED WILL BE FURNISHED AFTER REVIEW AND ANALYSIS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070600
MICROFILM ROLL/FRAME NO.: 316/2244 THRU: 316/2244
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151704 DATE: MAY 16, 1985 PAGE: 1
TITLE: (SUGGESTS FALL SAMPLING OF HATLELID AND JOHNSON HERDS)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: LOVELL * SCHWING * SHERMAN * DOLLHOPF * KOHONOSKI
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101 * 4070600
MICROFILM ROLL/FRAME NO.: 316/2245 THRU: 316/2245
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151705 DATE: MAY 16, 1985 PAGE: 1
TITLE: (TRANSMITS CH2M HILL QUALITY CONTROL SAMPLES FOR PHASE 1 RI)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: ROBBINS, DON/ASARCO
CC: TAYLOR * SCHWING * LOVELL * KOHONOSKI
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 316/2246 THRU: 316/2246
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151706 DATE: MAY 16, 1985 PAGE: 1
TITLE: (REQUESTS REVIEW AND APPROVAL OF ASARCO DATA REDUCTION AND VALIDATION METHODS FOR PHASE 1 RI)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: HILLMAN, JUANITA/EPA
CC: LOVELL * SCHWING * TAYLOR * KOHONOSKI
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 316/2247 THRU: 316/2247
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151707 DATE: MAY 17, 1985 PAGE: 3
TITLE: (DISCUSSES ISSUES RAISED AT ASARCO SUPERFUND MEETING NEEDING RESOLUTION)
AUTHOR: HESTER, DANIEL W./EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1010200 * 1060708 * 4070800
MICROFILM ROLL/FRAME NO.: 316/2248 THRU: 316/2250
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151710 DATE: MAY 20, 1985 PAGE: 6
TITLE: (RESPONSE TO FINAL LAP FOR LIVESTOCK STUDIES; TRANSMITS CURRENT LABORATORY LICENSES, DOL OSHA NOTICE CLP2 AND RESUMES FOR ESA EMPLOYEES)
AUTHOR: KEENAN, RICHARD R./ESA
ADDRESSEE: LUCERO, JOHN/CH2M HILL
QUALIFIER(S): INCOMPLETE * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070600
MICROFILM ROLL/FRAME NO.: 316/2251 THRU: 316/2256
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151716 DATE: MAY 20, 1985 PAGE: 2
TITLE: (SUMMARIZES MAY 20, 1985 CONFERENCE CALL CONCERNING RESPONSIBILITIES FOR DATA SUMMARIES, SPOT CHECKS AND STATISTICAL COMPARISON)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: LOVELL * SCHWING * HILLMAN * KOHONOSKI
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120107
MICROFILM ROLL/FRAME NO.: 316/2257 THRU: 316/2258
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151718 DATE: MAY 22, 1985 PAGE: 2
TITLE: (COMMENTS ON MEETING AND PIECES OF CORRESPONDENCE RELATING TO STORM RUN OFF EVENT SAMPLING, WILSON DITCH SAMPLING, GAIL STREET DOMESTIC WELL SAMPLING AND PROGRESS REPORT 4)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: GREENE * KARP * KARLSEN * HESTER * LUCERO
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070800
MICROFILM ROLL/FRAME NO.: 316/2259 THRU: 316/2260
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151720 DATE: MAY 22, 1985 PAGE: 5
TITLE: (DISCUSSES ASARCO ANALYSIS OF SOLID MATRIX PERFORMANCE EVALUATION [PE] SAMPLES)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: ROBBINS, DON/ASARCO * HILLMAN, JUANITA/EPA
CC: NICKEL * FROHARDT * KARLSEN * GREENE * HESTER * LUCERO
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 316/2261 THRU: 316/2265
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151725 DATE: MAY 23, 1985 PAGE: 9
TITLE: (TRANSMITS ATTACHED MEMO FROM LUCERO AND SCHWING TO LAMB REQUESTING EXPANSION OF CONTRACT TO INCLUDE LOVELL WORK)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 316/2266 THRU: 316/2274
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151734 DATE: MAY 30, 1985 PAGE: 2
TITLE: (TRANSMITS PRELIMINARY RESULTS OF ANALYSES AND DELIVERABLE FOR THIRD SAMPLING CAMPAIGN OF SURFACE AND GROUNDWATER RECEIVED APR. 5 AND 13, 1985; TABLE OF CONTENTS ATTACHED)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * NICKEL * VARNER * ROBBINS
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101 * 3030400 * 4030400
MICROFILM ROLL/FRAME NO.: 316/2275 THRU: 316/2276
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151736 DATE: MAY 30, 1985 PAGE: 10
TITLE: (TRANSMITS CHECKS FOR REIMBURSEMENT FOR COOPERATION IN ALLOWING EPA TO TAKE BLOOD AND HAIR SAMPLES FROM LIVESTOCK)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: WING, J. A. * THOMPSON, JIM * JOHNSON, EDNA * FOSTER, BILL * HATLELID, DENNIS * ANDERS, TOM * WOOD, WARREN * BROWN, DAVID * BURNHAM, DON
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 316/2277 THRU: 316/2286
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151746 DATE: MAY 30, 1985 PAGE: 2
TITLE: (DISCUSSES AMENDMENT 2 TO ADMINISTRATIVE ORDER AND ASARCO ACCEPTANCE OF SCHEDULE)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: HESTER, DANIEL/EPA
CC: SHARP * HART * ROBBINS * VARNER * NICKEL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040200 * 1060708
MICROFILM ROLL/FRAME NO.: 316/2287 THRU: 316/2288
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151748 DATE: MAY 31, 1985 PAGE: 1
TITLE: (TRANSMITS DOCUMENTATION AND DATA SUBMITTAL 1 TO ASARCO INVOLVING CLP ANALYSIS OF SPLIT SAMPLES)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: HILLMAN, JUANITA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 316/2289 THRU: 316/2289
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151749 DATE: JUN. 3, 1985 PAGE: 3
TITLE: (TRANSMITS ATTACHED WORK PLAN REVISION 3 PHASE 1 RI)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * MCNAB * LOVELL * KOHONOSKI * SELLMAN
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 316/2290 THRU: 316/2292
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151752 DATE: JUN. 5, 1985 PAGE: 4
TITLE: (STATUS REPORT ON REMEDIAL INVESTIGATIONS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: INTERESTED GROUPS * INDIVIDUALS * GOVERNMENT AGENCIES
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: MEMO
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 316/2293 THRU: 316/2296
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151756 DATE: JUN. 5, 1985 PAGE: 1
TITLE: (DISCUSSES REVIEW OF IDVARP)
AUTHOR: HILLMAN, J. J./EPA
ADDRESSEE: TAYLOR, GENE/EPA
CC: LUCERO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 316/2297 THRU: 316/2297
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151757 DATE: JUN. 6, 1985 PAGE: 10
TITLE: (RESPONSE TO ATTACHED MAY 22, 1985 LETTER FROM TAYLOR AND HILLMAN TO ROBBINS CONCERNING NECESSITY OF DETERMINING PERCENT MOISTURE ON CORE AND SEDIMENT SAMPLES TAKEN AS PART OF HYDROGEOLOGICAL INVESTIGATION PHASE; TRANSMITS STUDY PROTOCOL AND REVIEW)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: LUCERO * NICKEL * FROHARDT * VARNER * STANGA * HAYES
QUALIFIER(S): ORIGINAL * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 316/2298 THRU: 316/2307
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151767 DATE: JUN. 7, 1985 PAGE: 1
TITLE: (CONFIRMS ESA IS QUALIFIED TO PERFORM LIVESTOCK SAMPLE ANALYSIS)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: AUSSERER, PAULA/(EPA)
CC: TAYLOR * SCHWING * SHERMAN * KOHONOSKI
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070600
MICROFILM ROLL/FRAME NO.: 316/2308 THRU: 316/2308
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151768 DATE: JUN. 12, 1985 PAGE: 2
TITLE: (PROCUREMENT OF OUTSIDE CLP LABORATORY AND REQUEST FOR SUPPORT EFFORTS FROM NEIC)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LAIDLAW, ROB/EPA
CC: LUCERO * HILLMAN * LEHR
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500 * 4070600
MICROFILM ROLL/FRAME NO.: 317/0002 THRU: 317/0003
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151770 DATE: JUN. 12, 1985 PAGE: 4
TITLE: (TRANSMITS ATTACHED AMENDMENT WITH REVISED PROJECT TIME SCHEDULE; DISCUSSES MAY 9, 1985 MEETING PROVIDING DOCUMENTS TO ASARCO)
AUTHOR: HESTER, DANIEL/EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040200
MICROFILM ROLL/FRAME NO.: 317/0004 THRU: 317/0007
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151774 DATE: JUN. 12, 1985 PAGE: 2
TITLE: (REVIEW COMMENTS ON MAY 15, 1985 LIVESTOCK STUDY LABORATORY PROTOCOL)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL * FROHARDT * VARNER
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070600
MICROFILM ROLL/FRAME NO.: 317/0008 THRU: 317/0009
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151776 DATE: JUN. 12, 1985 PAGE: 3
TITLE: (TRANSMITS COMMENTS BY VON SCHUTZ TO LAIDLAW ON EVIDENCE AUDIT PACKAGE SUBMITTED BY ASARCO)
AUTHOR: HILDEN, GERRI/EPA
ADDRESSEE: TAYLOR, GENE/EPA
CC: LAIDLAW
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 317/0010 THRU: 317/0012
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151779 DATE: JUN. 12, 1985 PAGE: 1
TITLE: (DISCUSSES AGREEMENT THAT SAMPLES BEING DRIED WILL BE CHECKED TO ASSURE THEY HAVE REACHED DRYNESS TO BE RECORDED IN ANALYST LABORATORY NOTE BOOK)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE * ROBBINS, DON/ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0013 THRU: 317/0013
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151780 DATE: JUN. 13, 1985 PAGE: 5
TITLE: (TRANSMITS ATTACHED PACKAGE CONTAINING SUPPORTING DETAIL PROVIDED BY BATTELLE AND PROCESSED INVOICES)
AUTHOR: LOVELL, DOUGLAS/CH2M HILL
ADDRESSEE: COTTRILL, KATHY S./BATTELLE
CC: LUCERO * SCHWING * VAN MUNSTER * SELLMAN * LAMB * HEGER * TAYLOR * DAWSON * DEVARY * MCGETRICK
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120104
MICROFILM ROLL/FRAME NO.: 317/0014 THRU: 317/0018
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151785 DATE: JUN. 13, 1985 PAGE: 3
TITLE: (SUGGESTS SAMPLES BE COOLED IN DESICCATOR TO ROOM TEMPERATURE PRIOR TO WEIGHING)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: HILLMAN, JUANITA
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0019 THRU: 317/0021
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151788 DATE: JUN. 17, 1985 PAGE: 1
TITLE: (RESPONSE TO MAY 31, 1985 REQUEST REGARDING INVALIDATION OF DATA FROM ASARCO RI/FS)
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: WARDELL, JOHN/EPA
CC: LEHR * SKIE * METCALF * HESTER * HILLMAN
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 317/0022 THRU: 317/0022
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151789 DATE: JUN. 17, 1985 PAGE: 5
TITLE: (DISCUSSES ONGOING RI/FS AND CHILD LEAD STUDY)
AUTHOR: DUPREY, ROBERT/EPA
ADDRESSEE: HEDEMAN, WILLIAM N./EPA
CC: DRYNAN * ROBBINS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0023 THRU: 317/0027
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151794 DATE: JUN. 17, 1985 PAGE: 2
TITLE: (CONFIRMS ASSIGNMENT OF LUCERO AS SITE PROJECT MANAGER)
AUTHOR: SCHWING, JAMES E./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: WONG * LUCERO * BUTT
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 317/0028 THRU: 317/0029
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151796 DATE: JUN. 17, 1985 PAGE: 2
TITLE: (DISCUSSES ANALYTICAL RESULTS OF VEGETATION BLIND FIELD STANDARDS AND REANALYSIS PROCEDURES)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: SCHWAB, KEITH/EPA
CC: LUCERO * HESTER
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 317/0030 THRU: 317/0031
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151798 DATE: JUN. 17, 1985 PAGE: 2
TITLE: (ASSIGNMENT OF CONTRACT EVIDENCE AUDIT TEAM TO CONDUCT PRE-ANALYSIS, MID-ANALYSIS AND POST-ANALYSIS EVIDENCE AUDITS FOR EAST HELENA SITE AS REQUESTED IN JUN. 12, 1985 MEMO)
AUTHOR: LAIDLAW, ROBERT/EPA
ADDRESSEE: TAYLOR, GENE/EPA
CC: BLACKMAN * HILLMAN * LEHR * LUCERO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400 * 4070600
MICROFILM ROLL/FRAME NO.: 317/0032 THRU: 317/0033
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151800 DATE: JUN. 17, 1985 PAGE: 2
TITLE: (TRANSMITS PUBLICATIONS AND REFERENCE MATERIAL REQUESTED BY EPA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060701
MICROFILM ROLL/FRAME NO.: 317/0034 THRU: 317/0035
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151802 DATE: JUN. 20, 1985 PAGE: 1
TITLE: (DISCUSSES DOCUMENTATION AND DATA SUBMITTAL PHASE 1 RI)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * KOHONOSKI
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 317/0036 THRU: 317/0036
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151803 DATE: JUN. 20, 1985 PAGE: 4
TITLE: (TRANSMITS ATTACHED CH2M HILL REVIEW COMMENTS ON PHASE 1 RI)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: HILLMAN, JUANITA/EPA
CC: SCHWING * TAYLOR * SKIE * KOHONOSKI
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 317/0037 THRU: 317/0040
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151807 DATE: JUN. 26, 1985 PAGE: 2
TITLE: (REQUESTS AUTHORIZATION TO PERFORM WORK OUTSIDE OF SCOPE CONTAINED IN REVISED FINAL OVERSIGHT WORK PLAN)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * KOHONOSKI * SKIE * DOLLHOPF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300 * 1120107
MICROFILM ROLL/FRAME NO.: 317/0041 THRU: 317/0042
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151809 DATE: JUN. 27, 1985 PAGE: 1
TITLE: (COMMENTS ON PRELIMINARY ENDANGERMENT ASSESSMENT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: POPPELL
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060701
MICROFILM ROLL/FRAME NO.: 317/0043 THRU: 317/0043
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151810 DATE: JUN. 28, 1985 PAGE: 13
TITLE: (TRANSMITS ATTACHED REVISED APPENDIX C QUALITY ASSURANCE REQUIREMENTS)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: AUSSERER, PAULA/(EPA)
CC: TAYLOR * SCHWAB * SCHWING * KOHONOSKI * AUSSERER * DOLLHOPF * SHERMAN * HILLMAN * SHILLING * WARD * CASNE * BUCK * NEUMAN * LOVELL
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070600
MICROFILM ROLL/FRAME NO.: 317/0044 THRU: 317/0056
NOTES: UPDATE 02

FILE: 1170403 DOCNO: 0151823 DATE: JUN. 28, 1985 PAGE: 11
TITLE: (TRANSMITS ATTACHED LABORATORY AUDIT REPORT)
AUTHOR: LAIDLAW, ROBERT/EPA
ADDRESSEE: TAYLOR, GENE
CC: BLACKMAN * LUCERO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0057 THRU: 317/0067
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151834 DATE: JUL. 1, 1985 PAGE: 2
TITLE: (REQUESTS ADDITIONAL 30 DAYS TO COMPLETE AND REVIEW PRELIMINARY DATA)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * LOVELL * VARNER * ROBBINS * STANGA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070800 * 4030300 * 3030300
MICROFILM ROLL/FRAME NO.: 317/0068 THRU: 317/0069
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151836 DATE: JUL. 5, 1985 PAGE: 1
TITLE: (INFORMATION RELATING TO LOW VOLUME BLADDER PUMP)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL
QUALIFIER(S): MARGINALIA * ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):3010000
MICROFILM ROLL/FRAME NO.: 317/0070 THRU: 317/0070
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151837 DATE: JUL. 8, 1985 PAGE: 5
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 5
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): MARGINALIA * ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100 * 3030300 * 3010000 * 4070800
MICROFILM ROLL/FRAME NO.: 317/0071 THRU: 317/0075
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151842 DATE: JUL. 10, 1985 PAGE: 2
TITLE: RESPONSE TO ASARCO COMMENTS ON LIVESTOCK LAP
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070600
MICROFILM ROLL/FRAME NO.: 317/0076 THRU: 317/0077
KEYWORD(S): ZINC
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151844 DATE: JUL. 12, 1985 PAGE: 3
TITLE: (LISTS ITEMS PERFORMED TO VERIFY CAPABILITIES OF ESA LABORATORIES)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * HILLMAN * KOHONOSKI
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070600
MICROFILM ROLL/FRAME NO.: 317/0078 THRU: 317/0080
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151847 DATE: JUL. 12, 1985 PAGE: 7
TITLE: (DISCUSSES BLADDER PUMP DEMONSTRATION ON MONITORING WELLS; ATTACHED JUN. 20, 1985 TECHNICAL MEMO FROM KARP CONCERNING BLADDER PUMP DEMONSTRATION)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * GLANZMAN * KARP * KOHONOSKI
QUALIFIER(S): MARGINALIA * ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):3010000
MICROFILM ROLL/FRAME NO.: 317/0081 THRU: 317/0087
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151854 DATE: JUL. 15, 1985 PAGE: 1
ATTACHED DOC(S): 0151855 THRU: 0151857
TITLE: (TRANSMITS AMENDMENT 2 TO AOC CERCLA VIII-84-006)
AUTHOR: CRANE, JOLENE M./EPA
ADDRESSEE: FROHARDT, PAUL D./HOLLAND AND HART
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040200
MICROFILM ROLL/FRAME NO.: 317/0088 THRU: 317/0088
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151855 DATE: AUG. 31, 1984 PAGE: 3
ATTACHED TO: 0151854
TITLE: AMENDMENT 2 TO AOC CERCLA VIII-84-006 (COMPLIANCE SCHEDULE ATTACHED)
AUTHOR: DUPREY, ROBERT L./EPA * LABBE, ARMAND L./ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LEGAL DOCUMENT
CROSS FILE(S):1040200
MICROFILM ROLL/FRAME NO.: 317/0089 THRU: 317/0092
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151858 DATE: JUL. 15, 1985 PAGE: 1
TITLE: (AGREEMENT TO AMEND LABORATORY PROTOCOL FOR EAST HELENA PROJECT WITH ADDITIONAL REQUIREMENT)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: ROBBINS, DON/ASARCO
CC: LUCERO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0093 THRU: 317/0093
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151859 DATE: JUL. 17, 1985 PAGE: 1
TITLE: (DISCUSSES HAZARD CRITERIA FOR SOILS, CROPS AND LIVESTOCK)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: CRANE, JODY/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * TISSUE COPY * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070301 * 4070600 * 4070200 * 4070500
MICROFILM ROLL/FRAME NO.: 317/0094 THRU: 317/0094
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151860 DATE: JUL. 18, 1985 PAGE: 1
TITLE: (LISTS WELLS TO BE SAMPLED USING FOR BLADDER PUMP AND BAILING METHODS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: LUCERO, JOHN/CH2M HILL
CC: TAYLOR * NICKEL
QUALIFIER(S): MARGINALIA * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101 * 3010000
MICROFILM ROLL/FRAME NO.: 317/0095 THRU: 317/0095
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151861 DATE: JUL. 23, 1985 PAGE: 1
ATTACHED DOC(S): 0151862 THRU: 0151863
TITLE: (TRANSMITS WORK PLAN AMENDMENT FOR ASARCO LABORATORY AUDITS)
AUTHOR: HILDEN, GERRI/EPA
ADDRESSEE: TAYLOR, GENE/EPA
CC: LAIDLAW * LUCERO
QUALIFIER(S): ORIGINAL * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/0096 THRU: 317/0096
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151862 DATE: JUL. 3, 1985 PAGE: 2
ATTACHED TO: 0151861
TITLE: WORK PLAN AMENDMENT (CONTRACT 68-01-6838)
AUTHOR: /EPA * /NEIC
ADDRESSEE: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: CONTRACT
CROSS FILE(S):1060200 * 1060400
MICROFILM ROLL/FRAME NO.: 317/0097 THRU: 317/0098
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151864 DATE: JUL. 23, 1985 PAGE: 5
TITLE: (TRANSMITS ATTACHED CH2M HILL OPINIONS REGARDING CONFIDENTIALITY OF LISTED DOCUMENTS)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: LEE, WAYNE/EPA
CC: TAYLOR * MAROTTE * SCHWING
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1160000
MICROFILM ROLL/FRAME NO.: 317/0099 THRU: 317/0103
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151869 DATE: JUL. 24, 1985 PAGE: 16
TITLE: (DISCUSSES ATTACHED JUN. 20, 1985 HOLLAND AND HART LETTER REGARDING ASPECTS OF EAST HELENA OVERSIGHT WORK PLAN; ATTACHED EDITED COPY)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
CC: NICKEL * JONES * CRANE
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/0104 THRU: 317/0120
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151886 DATE: JUL. 25, 1985 PAGE: 2
TITLE: (RESPONSE TO COMMENTS CONCERNING EPA LIVESTOCK STUDY LABORATORY PROTOCOL)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: ROBBINS, DON/ASARCO
CC: FROHARDT * NICKEL * CRANE * LUCERO
QUALIFIER(S): ORIGINAL * TISSUE COPY * MARGINALIA * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070600
MICROFILM ROLL/FRAME NO.: 317/0121 THRU: 317/0122
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151888 DATE: JUL. 26, 1985 PAGE: 1
ATTACHED DOC(S): 0151889 THRU: 0151892
TITLE: (REQUESTS ADDITIONAL DAYS TO COMPLETE METALS ANALYSES AND REVIEW OF DATA AND DOCUMENTATION)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * LOVELL * VARNER * ROBBINS * STANGA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 317/0123 THRU: 317/0123
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151889 DATE: JUL. 25, 1985 PAGE: 4
ATTACHED TO: 0151888
TITLE: "EAST HELENA HYDROGEOLOGICAL STUDY"
AUTHOR: HAYES, JOHN G./ASARCO
CC: NICKEL * VARNER * ROBBINS * STANGA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):3030400
MICROFILM ROLL/FRAME NO.: 317/0124 THRU: 317/0127
KEYWORD(S): ARSENIC * LEAD * CADMIUM * ZINC
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151893 DATE: JUL. 26, 1985 PAGE: 2
TITLE: (TRANSMITS ESTIMATING THE AMOUNT OF SOIL INGESTED BY YOUNG CHILDREN THROUGH TRACER ELEMENTS)
AUTHOR: BINDER, SUE/(CDC)
ADDRESSEE: MAUGHAN, DAVE/MDHES
QUALIFIER(S): REPRODUCTION * INCOMPLETE * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0128 THRU: 317/0129
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151895 DATE: AUG. 1, 1985 PAGE: 1
TITLE: (TRANSMITS FINAL REPORTS FOR EAST HELENA 1983 CHILD LEAD STUDY AND SILVER VALLEY, IDAHO 1983 CHILD LEAD STUDY)
AUTHOR: SCHILLING, REBECCA/CDC
ADDRESSEE: MAUGHAN, A. DAVID/MDHES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0130 THRU: 317/0130
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151896 DATE: AUG. 2, 1985 PAGE: 2
TITLE: REVIEW COMMENTS ON ASARCO DATA REDUCTION AND VALIDATION METHODS PHASE 1 RI
AUTHOR: GRABBE, ROLLY
ADDRESSEE: HILLMAN, JUANITA
QUALIFIER(S): MARGINALIA * ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/0131 THRU: 317/0132
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151898 DATE: AUG. 5, 1985 PAGE: 11
TITLE: (TRANSMITS ATTACHED ANALYTICAL RESULTS FOR EP TOXICITY TEST OF BLAST FURNACE SLAG)
AUTHOR: STANGA, GARY R./ASARCO
ADDRESSEE: NICKEL, J. C./ASARCO
CC: SHARP * VARNER * STANGA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):5030300
MICROFILM ROLL/FRAME NO.: 317/0133 THRU: 317/0143
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * LEAD * MERCURY * SELENIUM * SILVER * ZINC * SLAG
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151909 DATE: AUG. 6, 1985 PAGE: 9
TITLE: ASSESSMENT OF EXISTING DATA PHASE 1 RI
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * KOHONOSKI
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 317/0144 THRU: 317/0152
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151918 DATE: AUG. 6, 1985 PAGE: 3
TITLE: (TRANSMITS PRELIMINARY RESULTS OF ANALYSES AND DELIVERABLE FOR FOURTH SAMPLING CAMPAIGN GROUND AND SURFACE WATERS)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * NICKEL * VARNER * ROBBINS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):3040400 * 1070101 * 4040400 * 4080800
MICROFILM ROLL/FRAME NO.: 317/0153 THRU: 317/0155
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151921 DATE: AUG. 6, 1985 PAGE: 1
TITLE: (RESPONSE TO JUL. 15, 1985 LETTER CONCERNING DRYING PROCEDURES FOR EAST HELENA SEDIMENT SAMPLES)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: LUCERO * NICKEL * BOTZ * VARNER * ROBBINS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0156 THRU: 317/0156
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151922 DATE: AUG. 9, 1985 PAGE: 1
TITLE: (MODIFIES ASARCO ORIGINAL LABORATORY PROTOCOL)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: LUCERO * NICKEL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070300
MICROFILM ROLL/FRAME NO.: 317/0157 THRU: 317/0157
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151923 DATE: AUG. 12, 1985 PAGE: 1
TITLE: (TRANSMITS FINAL DRAFTS OF KELLOGG, IDAHO LEAD STUDY AND EAST HELENA, MONTANA LEAD STUDY)
AUTHOR: HOUK, VERNON N./CDC
ADDRESSEE: FALCO, JAMES/EPA
CC: SCHILLING * ROSS * BINDER * BROKAPP * MAUGHAN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0158 THRU: 317/0158
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151924 DATE: AUG. 14, 1985 PAGE: 1
ATTACHED DOC(S): 0151925 THRU: 0151933
TITLE: (TRANSMITS ESA MID-ANALYSIS AUDIT REPORT)
AUTHOR: HILDEN, GERRI/EPA
ADDRESSEE: TAYLOR, GENE/EPA
CC: LAIDLAW * LUCERO
QUALIFIER(S): ORIGINAL * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0159 THRU: 317/0159
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151925 DATE: JUL. 23, 1985 PAGE: 9
ATTACHED TO: 0151924
TITLE: (TRANSMITS ATTACHED ESA LABORATORY EVIDENCE AUDIT REPORT)
AUTHOR: RHYNE, P. WILLIAM/CONTRACT EVIDENCE AUDIT TEAM
ADDRESSEE: LAIDLAW, ROBERT/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0160 THRU: 317/0168
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151934 DATE: AUG. 23, 1985 PAGE: 6
TITLE: (REQUESTS REVIEW OF MSU HAZARD CRITERIA DOCUMENT)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: FOOTE, SHARON/EPA
QUALIFIER(S): MARGINALIA * ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 317/0169 THRU: 317/0174
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151940 DATE: AUG. 27, 1985 PAGE: 2
TITLE: (DISCUSSES SCHEDULE FOR RI REPORT PHASE 1)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DOLLHOPF * SCHWING
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 317/0175 THRU: 317/0176
NOTES: UPDATE 02

FILE: 1170404 DOCNO: 0151942 DATE: AUG. 27, 1985 PAGE: 1
TITLE: (TRANSMITS CONTRACT EVIDENCE AUDIT TEAM REPORT FOR AUDIT CONDUCTED AT ASARCO LABORATORY IN SALT LAKE CITY ON AUG. 7, 1985)
AUTHOR: HILDEN, GERRI/EPA
ADDRESSEE: TAYLOR, GENE/EPA
CC: LAIDLAW * LUCERO
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0177 THRU: 317/0177
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151943 DATE: SEP. 3, 1985 PAGE: 5
TITLE: (TRANSMITS RI/FS GUIDANCE AND ATTACHED CH2M HILL OVERSIGHT WORK PLAN SUMMARY)
AUTHOR: CRANE, JOLENE M./EPA * TAYLOR, GENE/EPA
ADDRESSEE: FROHARDT, PAUL/HOLLAND AND HART
CC: JONES * METCALF
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120107
MICROFILM ROLL/FRAME NO.: 317/0178 THRU: 317/0182
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151948 DATE: SEP. 10, 1985 PAGE: 3
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 6
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/0183 THRU: 317/0185
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151951 DATE: SEP. 11, 1985 PAGE: 1
TITLE: (COMMENTS ON JUL. 1983 EAST HELENA, MONTANA, CHILD LEAD STUDY 1983 REPORT)
AUTHOR: MAUGHAN, DAVID/MDHES
ADDRESSEE: GEDROSE, JUDITH/MDHES * DRYNAN, JOHN/MDHES * TAYLOR, GENE/EPA
CC: ROBBINS
QUALIFIER(S): MARGINALIA * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0186 THRU: 317/0186
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151952 DATE: SEP. 11, 1985 PAGE: 2
TITLE: (COMMENTS ON EAST HELENA CHILD LEAD STUDY)
AUTHOR: MAUGHN, DAVID/MDHES
ADDRESSEE: SCHILLING, REBECCA/CDC
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0187 THRU: 317/0188
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151954 DATE: SEP. 11, 1985 PAGE: 2
TITLE: (TRANSMITS PRELIMINARY RESULTS OF ANALYSIS AND DELIVERABLE FOR FIFTH SAMPLING CAMPAIGN)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * NICKEL * VARNER * ROBBINS
QUALIFIER(S): MARGINALIA * INCOMPLETE * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 317/0189 THRU: 317/0190
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151956 DATE: SEP. 16, 1985 PAGE: 10
TITLE: (TRANSMITS ATTACHED RESULTS FROM THIRTEEN DOMESTIC GROUNDWATER WELLS LOCATED ALONG GAIL STREET)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070800 * 3030400
MICROFILM ROLL/FRAME NO.: 317/0191 THRU: 317/0200
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151966 DATE: SEP. 18, 1985 PAGE: 1
TITLE: (DISCUSSES COST EFFECTIVENESS OF SAMPLING CATTLE KIDNEY AND LIVER)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: LUCERO, JOHN/CH2M HILL
CC: TAYLOR
QUALIFIER(S): MARGINALIA * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 317/0201 THRU: 317/0201
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151967 DATE: SEP. 20, 1985 PAGE: 9
TITLE: (TRANSMITS ATTACHED FINDINGS AUG. 22, 1985 AUDIT; ATTACHED DOMESTIC RETURN RECEIPT, RECEIPT FOR CERTIFIED MAIL P 081 681- 976)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: ROBBINS, DON/ASARCO
CC: NICKEL * HILLMAN * LUCERO * CRANE * JONES
QUALIFIER(S): TISSUE COPY * CONCURRENCE COPY * MARGINALIA * ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0202 THRU: 317/0210
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151976 DATE: SEP. 24, 1985 PAGE: 1
TITLE: COMMENTS ON ASARCO SEP. 16, 1985 LETTER
AUTHOR: LUCERO/CH2M HILL
ADDRESSEE: TAYLOR, (GENE)/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/0211 THRU: 317/0211
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151977 DATE: SEP. 25, 1985 PAGE: 4
TITLE: (TRANSMITS ATTACHED COMMENTS ON CDC LEAD/BLOOD STUDY)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: BAKER, JIM/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0212 THRU: 317/0215
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151981 DATE: SEP. 26, 1985 PAGE: 2
TITLE: (GIVES COST ESTIMATE FOR USGS ASSISTANCE ON EAST HELENA SITE)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LAMBER, KURT
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/0216 THRU: 317/0217
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151983 DATE: SEP. 27, 1985 PAGE: 1
TITLE: (REQUESTS ADDITIONAL FORTY DAYS TO COMPLETE ANALYSIS OF GROUND AND SURFACE WATER SAMPLING)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * LUCERO * VARNER * ROBBINS * STANGA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020101
MICROFILM ROLL/FRAME NO.: 317/0218 THRU: 317/0219
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151985 DATE: OCT. 4, 1985 PAGE: 2
ATTACHED DOC(S): 0151987 THRU: 0151989
TITLE: (SUGGESTS COPY OF CHILD LEAD STUDIES LETTER BE SENT TO BAKER)
ADDRESSEE: DOUG
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0220 THRU: 317/0221
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151987 DATE: SEP. 25, 1985 PAGE: 3
ATTACHED TO: 0151985
TITLE: (ACKNOWLEDGES REVIEW OF EAST HELENA CHILD LEAD STUDY AND RESPONSE THAT ADDITIONAL WINTERTIME CHILD BLOOD LEAD SAMPLING SHOULD BE DONE; ATTACHED MAIL CONTROL SCHEDULE)
AUTHOR: DRYNAN, JOHN J.\MDHES
ADDRESSEE: WARDELL, JOHN\EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0222 THRU: 317/0224
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151990 DATE: OCT. 7, 1985 PAGE: 8
TITLE: (TRANSMITS ATTACHED BAILER/BLADDER PUMP COMPARISON RESULTS)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * KEENAN * KOHONOSKI * GLANZMAN
QUALIFIER(S): MARGINALIA * SAMPLING/ANALYSES/DATA * ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 317/0225 THRU: 317/0232
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0151998 DATE: OCT. 7, 1985 PAGE: 10
TITLE: (TRANSMITS ATTACHED REPORT OF THE PEER REVIEW COMMITTEE ON THE KELLOGG, IDAHO, LEAD STUDY AND THE EAST HELENA, MONTANA LEAD STUDY)
AUTHOR: PIRKLE, JAMES L./CDC
ADDRESSEE: HAUK, VERNON/ATSDR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0233 THRU: 317/0242
KEYWORD(S): AIR * SOIL * DUST * LEAD
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0152008 DATE: OCT. 17, 1985 PAGE: 2
TITLE: (SUMMARIZES OCT. 17, 1985 MEETING BETWEEN ASARCO AND HYDROMETRICS)
AUTHOR: BOTZ, M. K./HYDROMETRICS
ADDRESSEE: TAYLOR, STEVE/EPA
CC: NICKEL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0243 THRU: 317/0244
NOTES: UPDATE 02

FILE: 1170405 DOCNO: 0152010 DATE: OCT. 18, 1985 PAGE: 11
TITLE: (DISCUSSES AND TRANSMITS ATTACHED REPORT OF THE PEER REVIEW COMMITTEE ON THE KELLOGG, IDAHO, LEAD STUDY AND THE EAST HELENA, MONTANA, LEAD STUDY)
AUTHOR: SCHILLING, REBECCA/CDC
ADDRESSEE: MAUGHAN, DAVID/MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0245 THRU: 317/0255
KEYWORD(S): AIR * SOIL * DUST * LEAD * CADMIUM * ZINC
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152021 DATE: NOV. 5, 1985 PAGE: 13
TITLE: (ACCEPTS RESPONSE TO LAB AUDIT COMMENTS OF SEP. 20, 1985; CORRESPONDENCE FROM CH2M HILL AND ASARCO RELEVANT TO FINDINGS AND COMMENTS; ATTACHED SAMPLE ANALYTICAL STANDARDS LOG BOOK)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: ROBBINS, DON/ASARCO
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0256 THRU: 317/0268
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152034 DATE: NOV. 7, 1985 PAGE: 2
TITLE: (TRANSMITS COMMENTS ON TOXICOSIS PROPERTIES AND CRITERIA FOR LEAD ARSENIC, CADMIUM AND ZINC IN LIVESTOCK, SOIL, PLANTS AND WATER)
AUTHOR: NEUMAN, DENNIS R.\MSU
ADDRESSEE: TAYLOR, GENE\EPA
CC: LUCERO * DOLLHOPF
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070301 * 4070600 * 4070100 * 4070200
MICROFILM ROLL/FRAME NO.: 317/0269 THRU: 317/0270
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152036 DATE: NOV. 13, 1985 PAGE: 2
TITLE: (RESPONSE TO OCT. 18, 1985 PEER COMMITTEE RECOMMENDATIONS)
AUTHOR: MAUGHAN, DAVID/MDHES
ADDRESSEE: SCHILLING, REBECCA/CDC
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0271 THRU: 317/0272
KEYWORD(S): LEAD * VEGETATION * SOIL * AIR * DUST
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152038 DATE: NOV. 13, 1985 PAGE: 1
TITLE: (TRANSMITS LIST OF ENGINEERING CONTROLS IMPLEMENTED AT EAST HELENA PLANT SINCE 1972)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: LUCERO, JOHN/CH2M HILL
CC: TAYLOR
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020101
MICROFILM ROLL/FRAME NO.: 317/0273 THRU: 317/0273
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152039 DATE: NOV. 13, 1985 PAGE: 1
TITLE: (TRANSMITS TOXICOSIS PROPERTIES AND CRITERIA FOR LEAD, ARSENIC, CADMIUM AND ZINC IN LIVESTOCK, SOIL, PLANTS AND WATER)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: TAYLOR, GENE/EPA
CC: DOLLHOPF * LUCERO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0274 THRU: 317/0274
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152040 DATE: NOV. 14, 1985 PAGE: 1
TITLE: (DISCUSSES REQUEST OF SEP. 25, 1985 FOR FINANCIAL ASSISTANCE TO PERFORM CHILD/BLOOD LEAD SCREENING)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: DRYNAN, JOHN/MDHES
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0275 THRU: 317/0275
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152041 DATE: NOV. 15, 1985 PAGE: 1
TITLE: RESPONSE TO ASARCO LETTER ON SCHEDULE AND WATER REPORT OUTLINE
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: CRANE, JODY/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/0276 THRU: 317/0276
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152042 DATE: NOV. 15, 1985 PAGE: 3
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 7
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/0277 THRU: 317/0279
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152045 DATE: NOV. 19, 1985 PAGE: 2
TITLE: (RESPONSE BOTZ OCT. 17, 1985 LETTER REQUESTING RESPONSE TO CONCERNS RELATED TO PROJECT SCHEDULE, RI REPORT OUTLINE, ANALYTICAL DATA AND LAB QA/OC)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 317/0280 THRU: 317/0281
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152047 DATE: NOV. 20, 1985 PAGE: 4
TITLE: (SUMMARIZES EVENTS LEADING TO SCHWAB LETTERS CONCERNING CAL ANALYTICAL AND ASARCO SAMPLES; ATTACHED CORRESPONDENCE FROM LUCERO TO CAL REGARDING ASARCO SAMPLES NOT BEING ANALYZED)
AUTHOR: LUCERO/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 317/0282 THRU: 317/0285
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152051 DATE: NOV. 19, 1985 PAGE: 2
TITLE: (DISCUSSES CONTRACT LABORATORY COMMUNICATION PROBLEM)
AUTHOR: SCHWAB, KEITH O./EPA
ADDRESSEE: SCHWING, JAMES/CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * TISSUE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 317/0286 THRU: 317/0287
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152053 DATE: NOV. 20, 1985 PAGE: 2
TITLE: (TRANSMITS AND REQUESTS REVIEW OF LIVESTOCK AND CROP HAZARD CRITERIA FOR EAST HELENA)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: CRANE, JODY/EPA * BAKER, JIM/EPA * GEISE, BILL/EPA * FOOTE, SHARON/EPA * ZAMUNDA, CRAIG/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060800
MICROFILM ROLL/FRAME NO.: 317/0288 THRU: 317/0289
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152055 DATE: NOV. 22, 1985 PAGE: 25
TITLE: (TRANSMITS ATTACHED RESULTS OF WATER SAMPLES TAKEN FROM VARIOUS EAST HELENA WELLS AND MAILING LIST)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LAMPING, FRED
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 317/0290 THRU: 317/0314
KEYWORD(S): DRINKING WATER STANDARDS * ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152080 DATE: NOV. 26, 1985 PAGE: 1
TITLE: (TRANSMITS PRELIMINARY RESULTS OF ANALYSES AND DELIVERABLE FOR ALL REMAINING WATER SAMPLES FOR EAST HELENA HYDROGEOLOGICAL STUDY)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * NICKEL * VARNER * ROBBINS
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0315 THRU: 317/0315
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152081 DATE: NOV. 26, 1985 PAGE: 1
TITLE: (DISCUSSES ANALYSIS OF LOST EAST HELENA SOIL SAMPLES BY CAL ANALYTICAL LABORATORY)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: SCHWAB, KEITH/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * TISSUE COPY * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 317/0316 THRU: 317/0316
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152082 DATE: NOV. 27, 1985 PAGE: 1
TITLE: (DISCUSSES NOV. 16, 1985 PHONE CONVERSATION ABOUT INCOMPLETE JTC LABORATORY DATA AND IMPROPERLY IDENTIFIED SOILS DATA PACKAGE FROM ROCKY MOUNTAIN ANALYTICAL LABORATORIES)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: LUCERO, JOHN/CH2M HILL
CC: TAYLOR * NICKEL
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0317 THRU: 317/0317
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152083 DATE: DEC. 2, 1985 PAGE: 7
TITLE: (TRANSMITS ATTACHED FINALIZED LIST OF WORK PRACTICES AND CONSTRUCTION ACTIVITIES IMPLEMENTED IN EAST HELENA PLANT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: ROBBINS, HAL/MDHES
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020101
MICROFILM ROLL/FRAME NO.: 317/0318 THRU: 317/0324
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152090 DATE: DEC. 2, 1985 PAGE: 2
TITLE: (REQUEST COMMENTS TOXICOSIS PROPERTIES AND CRITERIA FOR LEAD, ARSENIC, CADMIUM AND ZINC IN LIVESTOCK, SOILS, PLANTS AND WATER)
AUTHOR: DUPREY, ROBERT/EPA
ADDRESSEE: ANDERSON, ELIZABETH/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060800 * 1070301
MICROFILM ROLL/FRAME NO.: 317/0325 THRU: 317/0326
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152092 DATE: DEC. 6, 1985 PAGE: 1
TITLE: (CONFIRMS NOV. 16, 1985 MEETING BETWEEN ASARCO AND EPA DISCUSSING TIMEFRAME FOR COMPLETING RI REPORTS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FROHARDT * CRANE * WARDELL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 317/0327 THRU: 317/0327
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152093 DATE: DEC. 6, 1985 PAGE: 3
TITLE: (TRANSFERS PROJECTS FROM REM FIT TO REM 4)
AUTHOR: SCHWING, JAMES E./CH2M HILL
ADDRESSEE: GEISE, J. WILLIAM/EPA
CC: MORITZ * BUTT
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0328 THRU: 317/0330
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152096 DATE: DEC. 10, 1985 PAGE: 6
TITLE: (TRANSMITS ATTACHED JUSTIFICATION FOR WINTER CHILD-LEAD SCREENING STUDY; ATTACHED CORRESPONDENCE FROM WARDELL TO DRYNAN CONCERNING FINANCING OF SCREENING STUDY; MENTIONS LIVESTOCK DEATHS)
AUTHOR: DRYNAN, JOHN J./MDHES
ADDRESSEE: WARDELL, JOHN F./EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0331 THRU: 317/0336
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152102 DATE: DEC. 13, 1985 PAGE: 2
TITLE: (DISCUSSES CHILD LEAD STUDY REPORT AND RECOMMENDATION FOR FOLLOW-UP ACTIONS)
AUTHOR: MAUGHAN, A. DAVID/MDHES * DRYNAN, JOHN J./MDHES
ADDRESSEE: HOUCK, VERNON N./CDC
CC: /EAST HELENA FILE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0337 THRU: 317/0338
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152104 DATE: DEC. 17, 1985 PAGE: 7
TITLE: (TRANSMITS ATTACHED WORK PLAN REVISION REQUEST 5 PHASE 1 RI)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * BUTT
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/0339 THRU: 317/0345
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152111 DATE: DEC. 18, 1985 PAGE: 2
TITLE: (DISCUSSES DOI PRELIMINARY NATURAL RESOURCES SURVEY)
AUTHOR: BLANCHARD, BRUCE/DOI
ADDRESSEE: LUCERO, GENE/EPA
CC: DECK
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 317/0346 THRU: 317/0347
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152113 DATE: DEC. 20, 1985 PAGE: 2
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR WATER QUALITY, SEDIMENT AND EARTH MATERIALS AND MAPS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: TAYLOR, GENE/EPA
CC: NICKEL * ROBBINS * HENDERSON
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0348 THRU: 317/0349
NOTES: UPDATE 02

FILE: 1170406 DOCNO: 0152115 DATE: DEC. 30, 1985 PAGE: 2
TITLE: (DISCUSSES DELAY OF SUBMISSION OF DRAFT WRMP)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: HART * FROHARDT * BOTZ * HENDERSON * ROBBINS * VARNER * SHARP
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030100
MICROFILM ROLL/FRAME NO.: 317/0350 THRU: 317/0351
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152117 DATE: JAN. 3, 1986 PAGE: 1
TITLE: (TRANSMITS DRAFT RI SOILS REPORT)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LEVENE, BARRY/EPA * WALLINE, BOB/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * MARGINALIA * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070201 * 4040000
MICROFILM ROLL/FRAME NO.: 317/0352 THRU: 317/0352
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152118 DATE: JAN. 6, 1986 PAGE: 2
TITLE: (LISTS AND DISCUSSES RECOMMENDATIONS MDHES BELIEVES SHOULD BE IMPLEMENTED AT EAST HELENA)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: HOUCK, VERNON N./CDC
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0353 THRU: 317/0354
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152120 DATE: JAN. 9, 1986 PAGE: 3
TITLE: (TRANSMITS LETTER DISCUSSING SELECTION OF TOXIC BLOOD LEVEL CRITERIA FOR CATTLE)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * HANDWRITTEN * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070301 * 4070600 * 1060400
MICROFILM ROLL/FRAME NO.: 317/0355 THRU: 317/0357
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152123 DATE: JAN. 9, 1986 PAGE: 1
TITLE: (TRANSMITS AND REQUESTS COMMENTS ON DRAFT RI REPORT ON SOILS IN EAST HELENA)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: ANDERSEN, VIC/(MDEQ)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070201 * 4040000
MICROFILM ROLL/FRAME NO.: 317/0358 THRU: 317/0358
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152124 DATE: JAN. 9, 1986 PAGE: 2
TITLE: (DISCUSSES PREPARATION OF HAZARD CRITERIA FOR COPPER, MERCURY, SELENIUM, SILVER AND THALLIUM)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * DOLLHOPF * CRANE
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 317/0359 THRU: 317/0360
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152126 DATE: JAN. 13, 1986 PAGE: 2
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 8
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/0361 THRU: 317/0362
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152128 DATE: JAN. 16, 1986 PAGE: 1
TITLE: (REQUESTS ASSURANCES CHANGE OF EAST HELENA PROJECT TO REM 4 CONTRACT WOULD NOT MEAN ANY CHANGES BE MADE TO CH2M HILL PERSONAL)
AUTHOR: TAYLOR, GENE D./EPA
ADDRESSEE: SCHWING, JIM/CH2M HILL
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120201
MICROFILM ROLL/FRAME NO.: 317/0363 THRU: 317/0363
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152129 DATE: JAN. 17, 1986 PAGE: 1
TITLE: (TRANSMITS RESULTS OF ANALYSES AND DELIVERABLES FOR COMPARATIVE DIGESTION OF SOILS AND SEDIMENTS FROM ASARCO/EAST HELENA HYDROGEOLOGICAL SURVEY)
AUTHOR: FABBI, MICHAEL J./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: (FROHARDT) * NICKEL * VARNER * STANGA * ROBBINS
QUALIFIER(S): INCOMPLETE * MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101 * 4030300
MICROFILM ROLL/FRAME NO.: 317/0364 THRU: 317/0364
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152130 DATE: JAN. 21, 1986 PAGE: 13
TITLE: (TRANSMITS ATTACHED SUMMARY OF ASARCO QA/QC METHODOLOGY AND LAB PROCEDURES RELATING WRMP)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * NICKEL * VARNER * STANGA * HAYES * FABBI
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 317/0365 THRU: 317/0377
KEYWORD(S): LEAD * CADMIUM * ZINC * ARSENIC * GROUNDWATER * SOIL
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152143 DATE: JAN. 22, 1986 PAGE: 2
TITLE: (RESPONSE TO LETTER CONCERNING LUCERO CONTINUED ASSIGNMENT TO ASARCO PROJECT)
AUTHOR: SCHWING, JAMES E./CH2M HILL
ADDRESSEE: TAYLOR, GENE D./EPA
CC: EVANS * LUCERO * BUTT
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120201
MICROFILM ROLL/FRAME NO.: 317/0378 THRU: 317/0379
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152147 DATE: JAN. 24, 1986 PAGE: 1
TITLE: (TRANSMITS DRAFT 1983 EAST HELENA CHILD LEAD STUDY FOR REVIEW)
AUTHOR: SCHILLING, REBECCA J./CDC
ADDRESSEE: TAYLOR, GENE D./EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0380 THRU: 317/0380
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152148 DATE: JAN. 24, 1986 PAGE: 1
TITLE: (NOTIFIES FUNDS ARE NOT AVAILABLE FOR ADDITIONAL BLOOD LEAD SURVEY WORK AT EAST HELENA)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: DRYNAN, JOHN J./MDHES
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0381 THRU: 317/0381
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152149 DATE: JAN. 24, 1986 PAGE: 6
TITLE: (REVIEWS MDHES PROPOSAL FOR EPA TO FUND ADDITIONAL LEAD BLOOD SURVEY AT EAST HELENA)
AUTHOR: WARDELL, JOHN/EPA
ADDRESSEE: DUPREY, ROBERT/EPA
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0382 THRU: 317/0387
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152155 DATE: JAN. 30, 1986 PAGE: 2
TITLE: AUTHORIZATION OF TECHNICAL ASSISTANCE UNDER IAG
AUTHOR: LAMBER, C. KURT/EPA * GREEN, SIDNEY L./EPA
ADDRESSEE: /USGS
CC: RAGONE * KLAAS * /EPA REGIONAL COORDINATOR * /EPA REGIONAL COORDINATOR * /EPA PROJECT MANAGER * /IAG FILE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010400
MICROFILM ROLL/FRAME NO.: 317/0388 THRU: 317/0389
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152157 DATE: FEB. 2, 1986 PAGE: 2
TITLE: (CORRECTS ASARCO DATA PACKAGE OF JAN. 17, 1986 CONCERNING OVERSIGHT OF WRMP ASARCO RI/FS)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA * SCHWING, JIM/CH2M HILL
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 317/0390 THRU: 317/0391
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152159 DATE: FEB. 4, 1986 PAGE: 2
ATTACHED DOC(S): 0152161 THRU: 0152168
TITLE: (CONFIRMS CONVERSATION OF FEB. 4, 1986 CONCERNING REVISIONS AND ADDITIONS TO HAZARD CRITERIA DOCUMENT AND DRAFT SOILS REPORT)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LUCERO, JOHN/CH2M HILL
CC: CRANE
QUALIFIER(S): ORIGINAL * TISSUE COPY * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 317/0392 THRU: 317/0393
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152161 DATE: JAN. 17, 1986 PAGE: 6
ATTACHED TO: 0152159
TITLE: (TRANSMITS ATTACHED COMMENTS ON TOXICOSIS PROPERTIES AND CRITERIA FOR LEAD, ARSENIC, CADMIUM AND ZINC IN LIVESTOCK, SOILS, PLANTS AND WATER)
AUTHOR: GRANT, LESTER D./EPA
ADDRESSEE: TAYLOR, GENE/EPA
CC: DUPREY
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070500 * 4070600 * 4070200 * 4070100 * 1060701
MICROFILM ROLL/FRAME NO.: 317/0394 THRU: 317/0399
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152167 DATE: 1986 PAGE: 1
ATTACHED TO: 0152159
TITLE: (COMMENTS ON TOXICOSIS PROPERTIES AND CRITERIA FOR LEAD, ARSENIC, CADMIUM, AND ZINC IN LIVESTOCK, SOIL, PLANTS AND WATER)
AUTHOR: WILHELM, RONALD/EPA
ADDRESSEE: FOOTE, SHARON/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070600 * 4070200 * 4070100 * 1070301
MICROFILM ROLL/FRAME NO.: 317/0400 THRU: 317/0400
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152168 DATE: OCT. 2, 1985 PAGE: 1
ATTACHED TO: 0152159
TITLE: (FOOTES COMMENTS ON MSU DOCUMENT)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 317/0401 THRU: 317/0401
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152169 DATE: FEB. 10, 1986 PAGE: 2
TITLE: (TRANSMITS REPORT ON WATER RESOURCES MONITORING)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070201
MICROFILM ROLL/FRAME NO.: 317/0402 THRU: 317/0403
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152171 DATE: FEB. 19, 1986 PAGE: 1
TITLE: (TRANSMITS CORRECTIONS TO APPENDIX 9 AND TABLE 3-9 OF REPORT ON WATER RESOURCES MONITORING)
AUTHOR: MILLER, R. J./HYDROMETRICS
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070201
MICROFILM ROLL/FRAME NO.: 317/0404 THRU: 317/0404
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152172 DATE: FEB. 21, 1986 PAGE: 2
TITLE: (RESPONSE TO LETTER OF JAN. 31, 1986 REQUESTING STATUS UPDATE ON VARIOUS EPA GENERATED RI REPORTS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: CRANE * ROBERTSON * FROHARDT
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 317/0405 THRU: 317/0406
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152174 DATE: FEB. 25, 1986 PAGE: 1
TITLE: (CONFIRMS GRUNDY/USGS ASSISTED CH2M HILL IN DATA COLLECTION FOR EPA)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: LONG, MARTHA/USGS
CC: TAYLOR * SPANSKI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 317/0407 THRU: 317/0407
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152175 DATE: FEB. 25, 1986 PAGE: 5
TITLE: (OUTLINE REAFFIRMING CONCEPT OF LAKE HELENA AND UPPER LAKE BIOLOGICAL STUDY)
AUTHOR: WOOD, JOHN G./DOI
ADDRESSEE: LUCERO, JOHN/CH2M HILL
CC: TAYLOR * FWS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 317/0408 THRU: 317/0412
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SEDIMENTS * MERCURY
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152180 DATE: FEB. 25, 1986 PAGE: 1
TITLE: (REQUESTS TOXICOSIS PROPERTIES AND CRITERIA FOR LEAD, ARSENIC, CADMIUM AND ZINC IN LIVESTOCK, SOIL, PLANTS AND WATER)
AUTHOR: MERRYMAN, VIRGINIA/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 317/0413 THRU: 317/0413
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152181 DATE: FEB. 26, 1986 PAGE: 1
TITLE: (NOTIFIES DOLLHOPF WILL PRESENT EAST HELENA HAZARD CRITERIA AND IMPLICATIONS OF CRITERIA FOR SOILS, CROPS AND LIVESTOCK)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: EPA STAFF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070301 * 4070600 * 4070200
MICROFILM ROLL/FRAME NO.: 317/0414 THRU: 317/0414
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152182 DATE: FEB. 27, 1986 PAGE: 1
TITLE: (TRANSMITS REVIEW COMMENTS ON DRAFT REPORT ON WATER RESOURCES MONITORING)
AUTHOR: MORELAND, JOE A./USGS
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070203
MICROFILM ROLL/FRAME NO.: 317/0415 THRU: 317/0415
NOTES: UPDATE 02

FILE: 1170501 DOCNO: 0152183 DATE: FEB. 28, 1986 PAGE: 2
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 9
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/0416 THRU: 317/0417
NOTES: UPDATE 02

FILE: 1170502 DOCNO: 0152185 DATE: MAR. 4, 1986 PAGE: 1
TITLE: (LISTS PRIORITY ITEMS TO BE CONSIDERED IF EPA FUNDS ARE AVAILABLE)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LUCERO, JOHN/CH2M HILL
CC: CRANE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 317/0418 THRU: 317/0418
NOTES: UPDATE 02

FILE: 1170502 DOCNO: 0152186 DATE: MAR. 12, 1986 PAGE: 2
TITLE: (COMMENTS BY MDHES ON WATER RESOURCES MONITORING)
AUTHOR: PEDERSEN, DICK
ADDRESSEE: TAYLOR, GENE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):3040100
MICROFILM ROLL/FRAME NO.: 317/0419 THRU: 317/0420
NOTES: UPDATE 02

FILE: 1170502 DOCNO: 0152188 DATE: MAR. 26, 1986 PAGE: 8
TITLE: (SUMMARY OF PROJECT OBJECTIVES FOR WILDLIFE STUDY AND SCHEDULE OUTLINING TASKS AND EXPECTED START AND END DATES)
AUTHOR: BARUTH, BETH/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * SHERMAN * LUCERO * NEUMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100 * 4070700
MICROFILM ROLL/FRAME NO.: 317/0421 THRU: 317/0428
KEYWORD(S): SEDIMENTS * ARSENIC * CADMIUM * LEAD * MERCURY
NOTES: UPDATE 02

FILE: 1170502 DOCNO: 0152196 DATE: MAR. 27, 1986 PAGE: 2
TITLE: (COMMENTS ON DRAFT REPORT ON WATER RESOURCES MONITORING)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: KEENAN * ROBERTSON * FROHARDT * LUCERO * GEISE * DAVIES * CRANE * BAKER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070203
MICROFILM ROLL/FRAME NO.: 317/0429 THRU: 317/0430
NOTES: UPDATE 02

FILE: 1170502 DOCNO: 0152198 DATE: APR. 1, 1986 PAGE: 1
TITLE: (TRANSMITS LETTERS TO HELENA VALLEY RANCHERS REGARDING RI LIVESTOCK INVESTIGATION)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 317/0431 THRU: 317/0431
NOTES: UPDATE 02

FILE: 1170502 DOCNO: 0152199 DATE: APR. 14, 1986 PAGE: 11
TITLE: (TRANSMITS ATTACHED EXECUTIVE SUMMARY FOR RI OF SOILS, VEGETATION AND LIVESTOCK)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: TAYLOR, GENE/EPA
CC: LUCERO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1010200
MICROFILM ROLL/FRAME NO.: 317/0432 THRU: 317/0442
NOTES: UPDATE 02

FILE: 1170502 DOCNO: 0152210 DATE: APR. 22, 1986 PAGE: 2
TITLE: (TRANSMITS ATTACHED DRAFT AGENDA FOR ASARCO WILDLIFE INVESTIGATION MEETING APR. 29, 1986)
AUTHOR: BARUTH, BETH/CH2M HILL
ADDRESSEE: NEUMAN, DENNIS/MSU * DOLLHOPF, DOUG/MSU * MUNSHOWER, FRANK/MSU * TAYLOR, GENE/EPA * JONES, BILL/FWS * LUCERO, JOHN/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 317/0443 THRU: 317/0444
NOTES: UPDATE 02

FILE: 1170502 DOCNO: 0152212 DATE: APR. 29, 1986 PAGE: 1
TITLE: (TRANSMITS WORK PLAN REVISION 6 FOR REVIEW AND APPROVAL)
AUTHOR: LUCERO, JOHN
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING * WARWICK
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/0445 THRU: 317/0445
NOTES: UPDATE 02

FILE: 1170502 DOCNO: 0152213 DATE: APR. 30, 1986 PAGE: 2
TITLE: (NOTIFIES ASARCO AGREES TO UNDERTAKE PHASE 2 WATER QUALITY INVESTIGATION TO PREPARE ENDANGERMENT ASSESSMENT)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: CRANE, JOLENE M./EPA
CC: SHARP * HART * VARNER * ROBBINS * NICKEL * TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030300
MICROFILM ROLL/FRAME NO.: 317/0446 THRU: 317/0447
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152215 DATE: MAY 2, 1986 PAGE: 2
TITLE: (COMMENTS ON WORK PLAN REVISION 6)
AUTHOR: TAYLOR, GENE D./EPA
ADDRESSEE: LUCERO, JOHN/CH2M HILL
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/0448 THRU: 317/0449
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152217 DATE: MAY 5, 1986 PAGE: 13
TITLE: (TRANSMITS ATTACHED COMMENTS ON TOXICOSIS PROPERTIES AND CRITERIA FOR LEAD, ARSENIC, CADMIUM AND ZINC IN LIVESTOCK, SOIL, PLANTS AND WATER)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: GRANT, LESTER D./EPA
CC: LUCERO * CRANE * BAKER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * TISSUE COPY * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0450 THRU: 317/0462
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152230 DATE: MAY 12, 1986 PAGE: 2
TITLE: (DISCUSSES ASARCO RI/FS TRANSFER OF PROJECT TO REM 4 CONTRACT)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120201
MICROFILM ROLL/FRAME NO.: 317/0463 THRU: 317/0464
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152232 DATE: MAY 16, 1986 PAGE: 2
TITLE: (DISCUSSES AIR TOXICS HIGH RISK POINT SOURCE OF LOCALIZED CONCERN)
AUTHOR: DICKSTEIN, IRWIN L./EPA
ADDRESSEE: WELLES, JOHN G.
CC: HANLEY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060702
MICROFILM ROLL/FRAME NO.: 317/0465 THRU: 317/0466
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152234 DATE: MAY 19, 1986 PAGE: 3
TITLE: (RECOMMENDATIONS AND COST FOR PRIVATE WELL SAMPLING)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: GLANZMAN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0467 THRU: 317/0469
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152237 DATE: MAY 22, 1986 PAGE: 1
TITLE: (TRANSMITS RESPONSES TO COMMENTS SUBMITTED IN EPA MAR. 27, 1986 LETTER TO ASARCO CONCERNING DRAFT WRMP)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):3040000
MICROFILM ROLL/FRAME NO.: 317/0470 THRU: 317/0470
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152238 DATE: MAY 22, 1986 PAGE: 3
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 10
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/0471 THRU: 317/0473
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152241 DATE: JUN. 5, 1986 PAGE: 1
TITLE: (NOTIFIES OF WITHDRAWAL OF ACCEPTED SUBMITTAL FOR PRESENTATION AT SUPERFUND 1986 CONFERENCE)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: JACKSON, GYNNE/HAZARDOUS MATERIALS CONTROL RESEARCH INSTITUTE
CC: TAYLOR * LOVELL * LUCERO
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0474 THRU: 317/0474
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152242 DATE: JUN. 5, 1986 PAGE: 1
TITLE: (QUESTION CONCERNING WATER RESOURCES MONITORING REPORT)
AUTHOR: ARRIGO, JOHN L./MDHES
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0475 THRU: 317/0475
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152243 DATE: JUN. 9, 1986 PAGE: 1
TITLE: (TRANSMITS DRAFT PHASE 2 WATER RESOURCE INVESTIGATION WORK PLAN)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030100
MICROFILM ROLL/FRAME NO.: 317/0476 THRU: 317/0476
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152244 DATE: JUN. 10, 1986 PAGE: 1
TITLE: (LETTERS TO RANCHERS WHO PARTICIPATED IN ASARCO RI/FS LIVESTOCK INVESTIGATION)
AUTHOR: LUCERO, JOHN
ADDRESSEE: TAYLOR, GENE
CC: SCHWING
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 317/0477 THRU: 317/0477
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152245 DATE: JUN. 12, 1986 PAGE: 4
TITLE: (TRANSMITS HAZARD LEVELS FOR ARSENIC, CADMIUM, LEAD AND ZINC IN LIVESTOCK, SOIL AND PLANTS)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: LUCERO, JOHN/CH2M HILL * TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 317/0478 THRU: 317/0481
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152249 DATE: JUN. 12, 1986 PAGE: 1
TITLE: (TRANSMITS ANALYSIS OF BLOOD, BLOOD SERUM AND HAIR SAMPLES COLLECTED AT RANCHES IN 1985)
ADDRESSEE: WOOD, WARREN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 317/0482 THRU: 317/0482
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152250 DATE: JUN. 24, 1986 PAGE: 4
TITLE: ASARCO RI/FS COMMUNITY RELATIONS MEETING AGENDA
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SKIE * NULL * BEAN * SCHWING * HOLM * DOLLHOPF * BLAINEY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1100300
MICROFILM ROLL/FRAME NO.: 317/0483 THRU: 317/0486
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152254 DATE: JUN. 24, 1986 PAGE: 1
TITLE: (TRANSMITS SCOPE OF WORK AND SCHEDULE FOR ASARCO RI FISH AND WILDLIFE INVESTIGATION AND CORRESPONDENCE FROM BARUTH TO TAYLOR)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: JONES, BILL/FWS
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 317/0487 THRU: 317/0487
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152255 DATE: JUN. 26, 1986 PAGE: 16
TITLE: (TRANSMITS ATTACHED MODIFICATIONS TO ASARCO QAPP AND RI/FS)
AUTHOR: HAYES, JOHN G./ASARCO
ADDRESSEE: TAYLOR, GENE
CC: BOTZ * NICKEL * VARNER * ROBBINS * STANGA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 317/0488 THRU: 317/0503
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1170503 DOCNO: 0152271 DATE: JUN. 27, 1986 PAGE: 2
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 11
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/0504 THRU: 317/0505
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152273 DATE: JUL. 1, 1986 PAGE: 4
TITLE: (DISCUSSES AND TRANSMITS REVIEW OF WATER RESOURCES INVESTIGATION PHASE 2 RI WORK PLAN AND ASARCO RI/FS)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: GLANZMAN * SCHWING * HOLM * SKIE * KOHONOSKI
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 3030100
MICROFILM ROLL/FRAME NO.: 317/0506 THRU: 317/0509
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152277 DATE: JUL. 1, 1986 PAGE: 18
TITLE: RESPONSE TO CH2M HILL TASK ORDER 889 REGARDING CATTLE RED MEAT TRACE METAL MONITORING IN UNITED STATES (ATTACHED RECORDS OF TELEPHONE TRANSACTIONS CONCERNING TASK ORDER)
AUTHOR: DOLLHOPF, DOUGLAS/MSU
ADDRESSEE: LUCERO, JOHN/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120106 * 4070600
MICROFILM ROLL/FRAME NO.: 317/0510 THRU: 317/0527
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152295 DATE: JUL. 8, 1986 PAGE: 4
TITLE: (CONFIRMS PROPOSED SAMPLING DATE OF JUL 29, 1986 FOR DUCK COLLECTION PORTION OF RI INVESTIGATION; ATTACHED PROPOSED SAMPLING SCHEDULE)
AUTHOR: BARUTH, BETH/CH2M HILL
ADDRESSEE: CHILDRESS, DON/MDFWP
CC: TAYLOR * JONES * LUCERO * NEUMAN * MUNSHOWER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 317/0528 THRU: 317/0531
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152299 DATE: JUL. 9, 1986 PAGE: 1
TITLE: (TRANSMITS COMPLETED ANALYSIS OF BLOOD, BLOOD SERUM AND HAIR SAMPLES COLLECTED FROM CATTLE ON AREA RANCHES FOR HEAVY METAL CONCENTRATIONS)
AUTHOR: TAYLOR, GENE D./EPA
ADDRESSEE: HATLELID, DENNIS
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 317/0532 THRU: 317/0532
KEYWORD(S): ARSENIC * LEAD * CADMIUM * ZINC
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152300 DATE: JUL. 11, 1986 PAGE: 1
TITLE: (TRANSMITS COMMENTS ON HAZARD CRITERIA DOCUMENT)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LUCERO, JOHN/CH2M HILL
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * MARGINALIA * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070302
MICROFILM ROLL/FRAME NO.: 317/0533 THRU: 317/0533
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152301 DATE: JUL. 11, 1986 PAGE: 2
TITLE: (TRANSMITS RESULTS FROM LIVESTOCK SAMPLING; MEMO FROM TAYLOR ON LIVESTOCK DATA ATTACHED)
AUTHOR: TAYLOR, GENE D./EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: CRANE * LUCERO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 317/0534 THRU: 317/0535
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152303 DATE: JUL. 14, 1986 PAGE: 9
TITLE: (TRANSMITS ATTACHED REVIEW OF WATER RESOURCES INVESTIGATION PHASE 2 RI WORK PLAN ASARCO RI/FS)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: GLANZMAN * SCHWING * HOLM * SKIE * KOHONOSKI
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 3010000
MICROFILM ROLL/FRAME NO.: 317/0536 THRU: 317/0544
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152312 DATE: JUL. 15, 1986 PAGE: 3
TITLE: (TRANSMITS EAST HELENA, MONTANA CHILD LEAD STUDY SUMMER 1983)
AUTHOR: JOHNSON, BARRY L./ATSDR
ADDRESSEE: LONGEST, HENRY L./EPA
CC: (ZAMUNDA) * BROWN * WARDELL * DUPREY * MCGEEHIN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030200
MICROFILM ROLL/FRAME NO.: 317/0545 THRU: 317/0547
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152315 DATE: JUL. 16, 1986 PAGE: 4
TITLE: (TRANSMITS ATTACHED DRAFT AMENDMENT 3 TO AOC)
AUTHOR: FROHARDT, PAUL/HOLLAND AND HART
ADDRESSEE: CRANE, JOLENE M./EPA
CC: TAYLOR * SHARP * HART * VARNER * ROBBINS * NICKEL * BOTZ
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040200 * 3010000 * 4010000
MICROFILM ROLL/FRAME NO.: 317/0548 THRU: 317/0551
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152319 DATE: JUL. 17, 1986 PAGE: 6
TITLE: (TRANSMITS ATTACHED EPA REVIEW OF ASARCO RESPONSE TO EPA COMMENTS ON ASARCO ORIGINAL PHASE 2 WATER QUALITY PLAN)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030100 * 1060300
MICROFILM ROLL/FRAME NO.: 317/0552 THRU: 317/0557
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152325 DATE: JUL. 17, 1986 PAGE: 4
TITLE: (SUMMARIZES CHANGES TO ASARCO EAST HELENA PLANT PHASE 2 RI WORK PLAN)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * SHEWMAN * KEENAN * CROWLEY
QUALIFIER(S): MARGINALIA * ORIGINAL * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 1020101
MICROFILM ROLL/FRAME NO.: 317/0558 THRU: 317/0561
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152329 DATE: JUL. 18, 1986 PAGE: 3
TITLE: (FOLLOW-UP TO TELEPHONE CONVERSATION TO CLARIFY ASARCO POSITION ON ASSESSMENT OF ENVIRONMENTAL HAZARD CRITERIA AND COMPILATION OF RESULTS OF LIVESTOCK, VEGETATION AND SOILS STUDIES)
AUTHOR: FROHARDT, PAUL D./HOLLAND AND HART
ADDRESSEE: CRANE, JOLENE M./EPA
CC: TAYLOR * SHARP * HART * VARNER * ROBBINS * NICKEL
QUALIFIER(S): MARGINALIA * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060708 * 4070500 * 4070600
MICROFILM ROLL/FRAME NO.: 317/0562 THRU: 317/0564
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152332 DATE: JUL. 25, 1986 PAGE: 10
TITLE: (TRANSMITS ATTACHED COMMENTS TO ASARCO RESPONSE TO EPA COMMENTS ON PHASE 2 WATER RESOURCES INVESTIGATION WORK PLAN)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: GLANZMAN * SCHWING * HOLM * SKIE * KOHONOSKI * FEAST
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/0565 THRU: 317/0574
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152342 DATE: JUL. 25, 1986 PAGE: 1
TITLE: (TRANSMITS EPA APPROVED SCOPE OF WORK AND SCHEDULE FOR FISH AND WILDLIFE INVESTIGATION)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: JONES * /FWS * RUBICH * CRANE * LUCERO * KEENAN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100 * 4070700
MICROFILM ROLL/FRAME NO.: 317/0575 THRU: 317/0575
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152343 DATE: JUL. 25, 1986 PAGE: 1
TITLE: (TRANSMITS CORRECTED COPY OF FINAL REPORT OF THE EAST HELENA, MONTANA, CHILD LEAD STUDY SUMMER 1983)
AUTHOR: SCHILLING, REBECCA/CDC
ADDRESSEE: RECIPIENT OF THE 1983 MONTANA LEAD REPORT
CC: NICKEL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 317/0576 THRU: 317/0576
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152344 DATE: JUL. 27, 1986 PAGE: 1
TITLE: (DISCUSSES CANCELLATION OF FISH AND WILDLIFE SAMPLING AT LAKE HELENA)
AUTHOR: TAYLOR, GENE/(EPA)
ADDRESSEE: THE RECORD
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 317/0577 THRU: 317/0577
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152345 DATE: AUG. 1, 1986 PAGE: 9
TITLE: (TRANSMITS ATTACHED DATA AND SAMPLE RESULT REGARDING BROWN LIVESTOCK HERD 04)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: TAYLOR, GENE/EPA
CC: LUCERO
QUALIFIER(S): ORIGINAL * SAMPLING/ANALYSES/DATA * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600 * 1070101
MICROFILM ROLL/FRAME NO.: 317/0578 THRU: 317/0586
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152354 DATE: AUG. 6, 1986 PAGE: 6
TITLE: ASARCO COMMENTS ON PROPOSED EPA FISH AND WILDLIFE INVESTIGATION
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: SHARP * HART * FROHARDT * ROBBINS * CRANE * VARNER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500 * 4070700
MICROFILM ROLL/FRAME NO.: 317/0587 THRU: 317/0592
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152360 DATE: AUG. 7, 1986 PAGE: 1
TITLE: (TRANSMITS REVISED SCOPE OF WORK FOR ASARCO RI WILDLIFE SURVEY)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070700 * 1060200
MICROFILM ROLL/FRAME NO.: 317/0593 THRU: 317/0593
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152362 DATE: AUG. 7, 1986 PAGE: 2
TITLE: (TRANSMITS REVISED SCOPE OF WORK FOR ASARCO RI/FS WILDLIFE SURVEY)
AUTHOR: BARUTH, BETH/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: LUCERO * SCHWING * HOLM * HOLMES * NEUMAN
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 317/0594 THRU: 317/0595
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152364 DATE: AUG. 7, 1986 PAGE: 3
TITLE: (CLARIFIES FUNDING SITUATION RELATED TO EAST HELENA [ASARCO]; BREAKDOWN OF FUNDING BY WORK ASSIGNMENT)
AUTHOR: TAUNTON, WANDA C./EPA
ADDRESSEE: SCHWING, JAMES E./CH2M HILL
CC: TAYLOR * LUCERO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 317/0596 THRU: 317/0598
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152367 DATE: AUG. 22, 1986 PAGE: 6
TITLE: (SUMMARY OF CHANGES TO JUL. 16, 1986 PHASE 2 WORK PLAN)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030100 * 1060300
MICROFILM ROLL/FRAME NO.: 317/0599 THRU: 317/0604
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152373 DATE: AUG. 22, 1986 PAGE: 1
TITLE: (TRANSMITS REVIEW OF FINAL DRAFT RI REPORT)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: TAYLOR, GENE/EPA * LUCERO, JOHN/CH2M HILL
CC: LINDSAY * KOHONOSKI * SCHWING * HOLM * BLUCK * GLANZMAN * SWITZER * AYCOCK * SHERMAM * DOLLHOPF * NEUMAN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/0605 THRU: 317/0605
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152374 DATE: AUG. 27, 1986 PAGE: 1
TITLE: (TRANSMITS DRAFT FINAL RI REPORT ON SOILS, CROPS AND LIVESTOCK)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: CRANE, JODY/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL * TISSUE COPY * CONCURRENCE COPY * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060200 * 4070500 * 4070600
MICROFILM ROLL/FRAME NO.: 317/0606 THRU: 317/0606
NOTES: UPDATE 02

FILE: 1170504 DOCNO: 0152375 DATE: AUG. 29, 1986 PAGE: 2
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 12
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/0607 THRU: 317/0608
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0152377 DATE: SEP. 2, 1986 PAGE: 7
TITLE: (COMMENTS ON ASARCO QAPP ADDENDUM)
AUTHOR: LUCERO/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: GLANZMAN * SCHWING * GRABBE * HOLM
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/0609 THRU: 317/0617
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0152384 DATE: SEP. 4, 1986 PAGE: 3
TITLE: (CONFERENCE CALL WITH TAYLOR, LUCERO, GLANZMAN, NICKEL, BOTZ, ROBBINS ADDRESSING ARSENIC ISSUES)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: TELEPHONE CONVERSATION
CROSS FILE(S):1020101
MICROFILM ROLL/FRAME NO.: 317/0618 THRU: 317/0620
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0152387 DATE: SEP. 5, 1986 PAGE: 1
TITLE: (TRANSMITS FINAL DRAFT RI REPORT FOR SOILS, CROPS AND LIVESTOCK)
AUTHOR: TAYLOR, GENE D./EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * TISSUE COPY * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0621 THRU: 317/0621
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0152388 DATE: SEP. 9, 1986 PAGE: 1
ATTACHED DOC(S): 0152389 THRU: 0152391
TITLE: (RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION REGARDING SITES ON NPL IN REGION 8; TRANSMITS SUMMARY SHEETS CONTAINING REQUESTED INFORMATION)
AUTHOR: SCHALLER, DAVID A./EPA
ADDRESSEE: DIBENEDETTO, P. J./RESOURCES CONSERVATION CO.
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0622 THRU: 317/0622
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0152389 DATE: SEP. 9, 1986 PAGE: 3
ATTACHED TO: 0152388
TITLE: (REFERENCE TO FUNDING OF COMMUNITY RELATIONS WORK; ATTACHED CORRESPONDENCE FROM CH2M HILL ON ASARCO COMMUNITY RELATIONS)
AUTHOR: TAUNTON, WANDA/EPA
ADDRESSEE: NULL, MARILYN/EPA
CC: TAYLOR
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 317/0623 THRU: 317/0625
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0152392 DATE: SEP. 11, 1986 PAGE: 6
TITLE: (TRANSMITS ATTACHED NOTES FROM RI/FS CONFERENCE CALL OF SEP. 4, 1986)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: GLANZMAN * SCHWING * FEAST * HOLM * GRABBE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300
MICROFILM ROLL/FRAME NO.: 317/0626 THRU: 317/0631
KEYWORD(S): ARSENIC * IRON * GROUNDWATER
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0152398 DATE: SEP. 15, 1986 PAGE: 2
TITLE: COMMENTS ON FINAL DRAFT RI, EAST HELENA SITE TELEPHONE CONFERENCE WITH GENE TAYLOR ON SEP. 2, 1986
AUTHOR: CRANE, JODY/EPA
ADDRESSEE: FILE
CC: TAYLOR * METCALF * SKIE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070203
MICROFILM ROLL/FRAME NO.: 317/0632 THRU: 317/0633
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0152400 DATE: SEP. 16, 1986 PAGE: 1
TITLE: (LISTS PROPOSAL DATE, PROMULGATION DATE AND HRS SCORE FOR SUPERFUND SITES)
AUTHOR: SKIE, DOUG/EPA
ADDRESSEE: RPMS * CHIOTTI, KATHY/EPA * ROBERTSON, DUANE/(MDHES) * WEINSTOCK, SARA/(MDHES)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010300
MICROFILM ROLL/FRAME NO.: 317/0634 THRU: 317/0634
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0160001 DATE: SEP. 22, 1986 PAGE: 3
TITLE: (DESCRIBES CONFERENCE CALL ON SEP. 4, 1986, DISCUSSING FINAL WORK PLAN FOR PHASE 2 OF WATER QUALITY INVESTIGATIONS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: RUBICH * CRANE * LUCERO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0635 THRU: 317/0637
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0160004 DATE: SEP. 25, 1986 PAGE: 1
TITLE: (CONFIRMS CONVERSATION ON SEP. 24, 1986 REGARDING ASARCO COMMENT PERIOD ON EPA FINAL DRAFT RI REPORT FOR SOILS, CROPS AND LIVESTOCK)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE D./EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0638 THRU: 317/0638
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0160005 DATE: SEP. 26, 1986 PAGE: 6
TITLE: (RESPONSE TO SEP. 22, 1986 LETTER CONCERNING DETAILS OF ASARCO PHASE 2 WATER RESOURCES INVESTIGATION; TRANSMITS ATTACHED PROJECT TIME SCHEDULE AND LABORATORY OPERATING PROCEDURES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0639 THRU: 317/0644
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0160011 DATE: OCT. 1, 1986 PAGE: 1
TITLE: (DISCUSSES EXPEDITION OF PROCUREMENT OF SAMPLE BOTTLES AND PAPER WORK)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: TAYLOR * BARUTH
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 317/0645 THRU: 317/0645
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0160012 DATE: OCT. 9, 1986 PAGE: 1
TITLE: (TRANSMITS ERRATA SHEET FOR DRAFT EXISTING DATA REPORT [OCT. 6, 1986] AND WORK ASSIGNMENT FORMS FOR WPRR 2)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: SCHWING
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/0646 THRU: 317/0646
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0160020 DATE: OCT. 10, 1986 PAGE: 1
TITLE: (TRANSMITS DOCUMENTS FOR WORK ASSIGNMENT 54)
AUTHOR: KUHLENBERG, BETSY R./PEI ASSOCIATES
ADDRESSEE: CAVINESS, W. L./EPA
CC: DONALDSON * SINNOTT * MONTGOMERY * BAULCH * SCHELL
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 1060702
MICROFILM ROLL/FRAME NO.: 317/0647 THRU: 317/0647
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0160021 DATE: OCT. 16, 1986 PAGE: 1
TITLE: (TRANSMITS REPORT ON USE OF EXISTING DATA)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: CRANE, JODY/EPA * GRABBE, ROLLIE/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/0648 THRU: 317/0648
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0160022 DATE: OCT. 16, 1986 PAGE: 7
TITLE: (TRANSMITS ATTACHED SEP. 30, 1986 ASARCO LABORATORY EVIDENCE AUDIT REPORT)
AUTHOR: WEGNER, KEITH/CONTRACT EVIDENCE AUDIT TEAM
ADDRESSEE: TAYLOR, GENE/EPA
CC: LAIDLAW
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0649 THRU: 317/0655
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0160029 DATE: OCT. 22, 1986 PAGE: 3
TITLE: (TRANSMITS ASARCO COMMENTS ON FINAL DRAFT RI OF SOILS VEGETATION AND LIVESTOCK)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4040000
MICROFILM ROLL/FRAME NO.: 317/0656 THRU: 317/0658
NOTES: UPDATE 02

FILE: 1170505 DOCNO: 0160032 DATE: OCT. 24, 1986 PAGE: 11
TITLE: (TRANSMITS ATTACHED REVISED RESPONSE TO ECAO/RTP COMMENTS ON HAZARD LEVEL DOCUMENT)
AUTHOR: LUCERO, JOHN D./CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: DOLLHOPF * SCHWING
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070203
MICROFILM ROLL/FRAME NO.: 317/0659 THRU: 317/0669
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160043 DATE: NOV. 3, 1986 PAGE: 3
TITLE: (TRANSMITS ATTACHED HYDRIDE GENERATION AA METHOD FOR ARSENIC DETERMINATION)
AUTHOR: LUCERO, JOHN/CH2M HILL
ADDRESSEE: TAYLOR, STEVE/EPA
CC: SCHWING * GRABBE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500
MICROFILM ROLL/FRAME NO.: 317/0670 THRU: 317/0672
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160046 DATE: NOV. 6, 1986 PAGE: 1
TITLE: (TRANSMITS FIELD NOTEBOOK REGARDING SOIL, PLANT AND LIVESTOCK INVESTIGATION)
AUTHOR: DOLLHOPF, DOUGLAS/MSU
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070101
MICROFILM ROLL/FRAME NO.: 317/0673 THRU: 317/0673
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160047 DATE: NOV. 6, 1986 PAGE: 2
TITLE: (DISCUSSES WATER RECIRCULATION TANK SYSTEM)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE D./EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2010000
MICROFILM ROLL/FRAME NO.: 317/0674 THRU: 317/0675
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160049 DATE: NOV. 7, 1986 PAGE: 2
TITLE: (DRAFT COMMENTS ON EXISTING DATA SUMMARY AND LIMITATIONS, EAST HELENA (ASARCO) RI/FS)
AUTHOR: TAYLOR, GENE/EPA * GRABBE, ROLLY/EPA
ADDRESSEE: WARDELL, (JOHN)/EPA
QUALIFIER(S): DRAFT * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070201
MICROFILM ROLL/FRAME NO.: 317/0676 THRU: 317/0677
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160051 DATE: NOV. 12, 1986 PAGE: 3
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 13
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/0678 THRU: 317/0680
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160054 DATE: NOV. 13, 1986 PAGE: 1
TITLE: (TRANSMITS EPA AUDIT OF LABORATORY CONDUCTED ON SEP. 30, 1986 AND COPY OF EPA APPROVED HYDRIDE GENERATION AA METHOD)
AUTHOR: TAYLOR, GENE D./EPA
ADDRESSEE: STANGA, GARY/ASARCO
CC: NICKEL * MORENO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0681 THRU: 317/0681
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160055 DATE: NOV. 13, 1986 PAGE: 1
TITLE: (TRANSMITS DRAFT RESPONSE TO ASARCO COMMENTS ON SOIL, VEGETATION AND LIVESTOCK RI REPORT)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: TAYLOR, GENE/EPA
CC: LUCERO
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070203 * 4070600
MICROFILM ROLL/FRAME NO.: 317/0682 THRU: 317/0682
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160056 DATE: NOV. 13, 1986 PAGE: 1
TITLE: (TRANSMITS EXISTING DATA SUMMARY AND LIMITATIONS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070201
MICROFILM ROLL/FRAME NO.: 317/0683 THRU: 317/0683
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160057 DATE: NOV. 14, 1986 PAGE: 2
TITLE: (TRANSMITS MOBILE TREATMENT TECHNOLOGIES)
AUTHOR: WHITE, DONALD C./EPA
ADDRESSEE: ADDRESSEES
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 317/0684 THRU: 317/0685
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160059 DATE: NOV. 14, 1986 PAGE: 2
TITLE: (DISCUSSES REQUIREMENTS AND COURSE OF ACTION TO COMPLETE RI/FS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FROHARDT
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0686 THRU: 317/0687
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160061 DATE: NOV. 14, 1986 PAGE: 2
TITLE: (DISCUSSES AGENDA FOR MEETING NOV. 20, 1986 TO DISCUSS TO COMPLETE RI/FS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FROHARDT * MORENO * CRANE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/0688 THRU: 317/0689
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160063 DATE: NOV. 21, 1986 PAGE: 14
TITLE: (DISCUSSES NOV. 13, 1986 LABORATORY AUDIT REPORT; TRANSMITS ATTACHED RELEVANT DOCUMENTATION ON LABORATORY AUDITS AND WAIVER BY ASARCO TO CHALLENGE DATA)
AUTHOR: ROBBINS, DONALD/ASARCO
ADDRESSEE: TAYLOR, GENE D./EPA
CC: NICKEL * FROHARDT * HART * STANGA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0690 THRU: 317/0703
KEYWORD(S): LEAD * CADMIUM * ZINC * COPPER * IRON
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160077 DATE: NOV. 21, 1986 PAGE: 15
TITLE: (ACKNOWLEDGES RECEIPT OF LABORATORY AUDIT REPORT AND DISCUSSION OF ISSUES CONCERNING SAMPLING AND LABORATORY SECURITY; TRANSMITS ATTACHED RELEVANT DOCUMENTATION)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: TAYLOR, GENE D./EPA
CC: NICKEL * FROHARDT * HART * STANGA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400
MICROFILM ROLL/FRAME NO.: 317/0704 THRU: 317/0718
KEYWORD(S): LEAD * CADMIUM * ZINC * COPPER * IRON * ARSENIC
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160092 DATE: NOV. 21, 1986 PAGE: 3
TITLE: (FOLLOW-UP TO NOV. 20, 1986 EAST HELENA SITE MEETING)
AUTHOR: FROHARDT, PAUL/HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA/EPA
CC: TAYLOR * HART * ROBBINS * NICKEL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0719 THRU: 317/0721
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160095 DATE: NOV. 24, 1986 PAGE: 1
TITLE: (TRANSMITS FINAL DRAFT-ASSESSMENT OF THE TOXICITY OF ARSENIC, CADMIUM, LEAD, AND ZINC IN SOILS, PLANTS, LIVESTOCK AND WATER TO PLANTS AND LIVESTOCK IN THE HELENA VALLEY OF MONTANA)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600 * 1060708
MICROFILM ROLL/FRAME NO.: 317/0722 THRU: 317/0722
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160096 DATE: NOV. 26, 1986 PAGE: 2
TITLE: (COMMENTS ON OCT. 6, 1986 EXISTING DATA SUMMARY AND LIMITATIONS, EAST HELENA (ASARCO) RI/FS)
AUTHOR: GRABBE, ROLLY/EPA
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070203
MICROFILM ROLL/FRAME NO.: 317/0723 THRU: 317/0724
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160098 DATE: DEC. 8, 1986 PAGE: 1
TITLE: (TRANSMITS ASSESSMENT OF THE TOXICITY OF COPPER, MERCURY, SELENIUM, SILVER AND THALLIUM FOR SOIL AND PLANTS IN THE HELENA VALLEY OF MONTANA)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: MORENO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 317/0725 THRU: 317/0725
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160099 DATE: DEC. 11, 1986 PAGE: 1
TITLE: (TRANSMITS EPA RESPONSE TO ASARCO COMMENTS ON EPA DRAFT RI REPORT ON SOILS, VEGETATION, AND LIVESTOCK AND RELEVANT CORRESPONDENCE FROM NEUMAN TO TAYLOR)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070203
MICROFILM ROLL/FRAME NO.: 317/0726 THRU: 317/0726
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160100 DATE: DEC. 12, 1986 PAGE: 5
TITLE: (TRANSMITS ATTACHED SUMMARY STATUS SHEETS AND FINANCIAL STATUS OF RI/FS)
AUTHOR: SCHWING, JIM/CH2M HILL
ADDRESSEE: SKIE, DOUG/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: FORM
MICROFILM ROLL/FRAME NO.: 317/0727 THRU: 317/0731
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160105 DATE: DEC. 17, 1986 PAGE: 2
TITLE: (ACKNOWLEDGES ACCEPTANCE OF RESPONSE TO LABORATORY AUDIT REPORT RELATED TO EPA INSPECTION OF FACILITIES)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: ROBBINS, DONALD/ASARCO
CC: NICKEL * MORENO * LUCERO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0732 THRU: 317/0733
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160107 DATE: DEC. 19, 1986 PAGE: 3
TITLE: (TRANSMITS CHAPTER 10 DRAFT POTENTIALLY RESPONSIBLE PARTY [PRP] PARTICIPATION IN RI/FS)
AUTHOR: LUCERO, GENE A./EPA
ADDRESSEE: LONGEST, HENRY/EPA * REICH, ED/EPA * BERRY, DON/EPA * MORGENSTERN, RICHARD/EPA
CC: FIELDS * NADEAU * SMITH * WYER * WHITE * LINGLE * LAROCK * COOPER * LEIFER * KILPATRICK * KOSAKOWSKI * CERCLA ENFORCEMENT BRANCH CHIEFS, REGIONS 1 - 10 * REGIONAL COUNSEL, REGIONS 1 - 10
QUALIFIER(S): MARGINALIA * INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1020100 * 1060100
MICROFILM ROLL/FRAME NO.: 317/0734 THRU: 317/0736
NOTES: UPDATE 02

FILE: 1170506 DOCNO: 0160110 DATE: DEC. 19, 1986 PAGE: 7
TITLE: (SUMMARIZES ATTACHED ASARCO EAST HELENA SLAG PILE SEEPAGE COMPUTATIONS)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: TAYLOR, GENE/EPA
CC: LUCERO * FEAST * GLANZMAN
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):5030400
MICROFILM ROLL/FRAME NO.: 317/0737 THRU: 317/0743
KEYWORD(S): ARSENIC * GROUNDWATER
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160117 DATE: JAN. 9, 1987 PAGE: 7
TITLE: (REPLY TO EPA DEC. 11, 1986 RESPONSE TO COMMENTS ON FINAL DRAFT RI OF SOILS, VEGETATION AND LIVESTOCK)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: MORENO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070203 * 4070600
MICROFILM ROLL/FRAME NO.: 317/0744 THRU: 317/0750
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160124 DATE: JAN. 13, 1987 PAGE: 4
TITLE: (CORRECTED VERSIONS OF SAMPLE ANALYSIS REPORT FORMS)
AUTHOR: KELLER, V. P./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: BOTZ * NICKEL * ROBBINS * STANGA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102
MICROFILM ROLL/FRAME NO.: 317/0751 THRU: 317/0755
KEYWORD(S): LEAD * CADMIUM * ZINC * ARSENIC * IRON * COPPER * MANGANESE
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160129 DATE: JAN. 19, 1987 PAGE: 3
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 14
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
CC: MORENO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/0756 THRU: 317/0758
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160132 DATE: JAN. 21, 1987 PAGE: 5
TITLE: (TRANSMITS ATTACHED RI/OS EVALUATION OF SEQUENTIAL EXTRACTION RESULTS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0759 THRU: 317/0763
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160136 DATE: JAN. 28, 1987 PAGE: 6
TITLE: (DISCUSSES AMENDMENTS AND REAUTHORIZATION ACT OF 1986)
AUTHOR: DAVIS, ALLYN M./EPA
ADDRESSEE: GARNETT, PHYLLIS/ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
CC: BATES * GILREIN * SATTERWHITE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1050100
MICROFILM ROLL/FRAME NO.: 317/0764 THRU: 317/0769
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160142 DATE: JAN. 28, 1987 PAGE: 4
TITLE: (COMMENTS ON FINAL DRAFT ASSESSMENT OF TOXICITY OF ARSENIC, CADMIUM, LEAD, ZINC IN SOIL, PLANTS LIVESTOCK, AND WATER TO PLANTS AND LIVESTOCK IN HELENA VALLEY)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060800
MICROFILM ROLL/FRAME NO.: 317/0770 THRU: 317/0773
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160146 DATE: JAN. 30, 1987 PAGE: 2
TITLE: (DISCUSSES ASARCO COMMENTS ON NOV. 10, 1986 TECHNICAL MEMO EXISTING DATA SUMMARY AND LIMITATIONS)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: TAYLOR, GENE D./EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0774 THRU: 317/0775
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160148 DATE: JAN. 26, 1987 PAGE: 2
TITLE: (LISTS TASKS SCHEDULED TO BE COMPLETED AS PART OF PHASE 2 INVESTIGATION)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: TAYLOR, GENE/EPA
CC: HART * MORRISON * ROBBINS * NICKEL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0776 THRU: 317/0777
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160150 DATE: FEB. 4, 1987 PAGE: 1
TITLE: (DISCUSSES NEED FOR LEWIS AND CLARK COUNTY ADVISORY COMMITTEE AS PROPOSED BY RICHARD KARP)
AUTHOR: JOHNSON, ROBERT R./LCCCHD
ADDRESSEE: WARDELL, JOHN/EPA
CC: TAYLOR
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0778 THRU: 317/0778
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160151 DATE: FEB. 5, 1987 PAGE: 6
TITLE: (TRANSMITS ATTACHED SIGNED MOA ADDRESSING CONFIDENTIALITY WHICH CORRECTS CITATION ERROR)
AUTHOR: CALLAWAY, REX/EPA
ADDRESSEE: ORR, CATHERINE/MDHES
CC: WARDELL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1130200
MICROFILM ROLL/FRAME NO.: 317/0779 THRU: 317/0784
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160157 DATE: FEB. 10, 1987 PAGE: 11
TITLE: (TRANSMITS ATTACHED COMMENTS ON TOXICITY ASSESSMENT DOCUMENT)
AUTHOR: PREUSS, PETER/EPA
ADDRESSEE: PARKER, JEAN/EPA
CC: CALLAHAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060800
MICROFILM ROLL/FRAME NO.: 317/0785 THRU: 317/0795
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160168 DATE: FEB. 17, 1987 PAGE: 1
TITLE: (TRANSMITS DRAFT CONCEPTUAL WORK PLAN RI/FS)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: RUBICH * MORENO
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/0796 THRU: 317/0796
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160169 DATE: FEB. 25, 1987 PAGE: 17
TITLE: (TRANSMITS ATTACHED MATERIALS CONCERNING TESTING PROGRAM FOR SOIL SAMPLES, POTENTIAL SOURCES FOR GROUNDWATER CONTAMINATION AND ADDITIONAL PHASE 2 DRILLING PROGRAM)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): MARGINALIA * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300 * 3030300
MICROFILM ROLL/FRAME NO.: 317/0797 THRU: 317/0813
NOTES: UPDATE 02

FILE: 1170601 DOCNO: 0160186 DATE: FEB. 26, 1987 PAGE: 2
TITLE: (DISCUSSES TASKS TO BE COMPLETED BY APR. 13, 1987)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: LUCERO, JOHN/CH2M HILL
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120101
MICROFILM ROLL/FRAME NO.: 317/0814 THRU: 317/0815
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160188 DATE: MAR. 4, 1987 PAGE: 13
TITLE: (TRANSMITS DOCUMENTS REGARDING STATE OF MONTANA ARARS FOR RA AT MILL CREEK)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: ROBBINS, D. A./(ASARCO)
CC: SHARP * HART * MORISON * BOTZ
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1050200
MICROFILM ROLL/FRAME NO.: 317/0816 THRU: 317/0828
KEYWORD(S): ARSENIC * COPPER * CADMIUM * ZINC * LEAD * MANGANESE * SOIL
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160201 DATE: MAR. 6, 1987 PAGE: 2
TITLE: (REQUESTS ADDITIONAL INFORMATIONAL REGARDING ARARS REQUIREMENTS IN MILL CREEK RI/FS)
AUTHOR: BISHOP, MIKE/EPA
ADDRESSEE: JOHNSON, HOWARD/OFFICE OF GOVERNOR
CC: CALLAWAY * RUBICH * MASSMAN * ANDERSEN * ROBBINS * SHEWMAN * AMESTOY
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1050100
MICROFILM ROLL/FRAME NO.: 317/0829 THRU: 317/0830
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160203 DATE: MAR. 11, 1987 PAGE: 3
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 15
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/0831 THRU: 317/0833
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160206 DATE: MAR. 18, 1987 PAGE: 2
TITLE: (TRANSMITS ATTACHED EPA COMMENTS ON PROPOSED ADDITION TO GROUNDWATER MONITORING PROGRAM)
AUTHOR: WARDELL, JOHN/EPA
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070203
MICROFILM ROLL/FRAME NO.: 317/0834 THRU: 317/0835
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160208 DATE: MAR. 19, 1987 PAGE: 4
TITLE: (REVIEW OF HYDROMETRICS FEB. 25, 1987 LETTER; ATTACHED COMMENTS ON ASARCO PHASE 2 DRILLING PROGRAM AND RELATED TESTING)
AUTHOR: BUNTE, DAVID J./CH2M HILL
ADDRESSEE: WARDELL, JOHN/EPA
CC: TAYLOR * SCHWING * LUCERO * HOLM * KOHONOSKI * FEAST * GLANZMAN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120201
MICROFILM ROLL/FRAME NO.: 317/0836 THRU: 317/0839
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160212 DATE: MAR. 23, 1987 PAGE: 2
TITLE: (SUMMARY OF TES TRAINING; TRANSMITS TRAINING MANUAL)
AUTHOR: KNOY, JIM/EPA
ADDRESSEE: FINKE, ERIC/EPA * RPMS/EPA * HARRIS, JIM/EPA
CC: CALLAWAY * COHN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120400
MICROFILM ROLL/FRAME NO.: 317/0840 THRU: 317/0841
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160214 DATE: MAR. 24, 1987 PAGE: 7
TITLE: (RESPONSE TO ATTACHED FEB. 23, 1987 LETTER TO PORTER REQUESTING DOCUMENTS FROM AMERICAN CHEMET PURSUANT TO PROVISION OF SECTION 104 OF CERCLA; PRP GENERAL NOTICE LETTER)
AUTHOR: LAKE, CLIFTON A./ROOKS, PITTS AND POUST
ADDRESSEE: MORENO, SANDRA/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040300
MICROFILM ROLL/FRAME NO.: 317/0842 THRU: 317/0848
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160221 DATE: MAR. 25, 1987 PAGE: 2
TITLE: (REQUESTS RELEASE OF EAST HELENA/ASARCO RI SOILS, CROP AND LIVESTOCK REPORT AND ASSOCIATED TRACE ELEMENT EVALUATION CRITERIA DOCUMENT)
AUTHOR: CORNISH, JAY/MULTITECH
ADDRESSEE: WARDELL, JOHN/EPA
CC: HUDDLESTON
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1160000
MICROFILM ROLL/FRAME NO.: 317/0849 THRU: 317/0850
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160223 DATE: MAR. 30, 1987 PAGE: 1
TITLE: (NOTIFIES OF CHANGE OF SITE MANAGER FROM LUCERO TO BUNTE)
AUTHOR: SCHWING, JAMES/CH2M HILL
ADDRESSEE: TAUNTON, WANDA/EPA
CC: OGG * KOHONOSKI
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120201
MICROFILM ROLL/FRAME NO.: 317/0851 THRU: 317/0851
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160224 DATE: MAR. 31, 1987 PAGE: 1
TITLE: (RESPONSES TO SUMMARY OF COMMENTS DESCRIBED IN MAR. 19, 1987 LETTER FROM CH2M HILL TO WARDELL)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: WARDELL, JOHN/EPA
CC: NICKEL * BUNTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070203
MICROFILM ROLL/FRAME NO.: 317/0852 THRU: 317/0852
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160225 DATE: APR. 1, 1987 PAGE: 1
TITLE: (DISCUSSES REVIEWED CONCEPTUAL DRAFT WORK PLAN RI/FS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: WARDELL, JOHN/EPA
CC: RUBICH
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0853 THRU: 317/0853
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160226 DATE: APR. 2, 1987 PAGE: 1
TITLE: REVIEW OF TOXICITY ASSESSMENT DRAFT DOCUMENT FOR EAST HELENA SITE
AUTHOR: PREUSS, PETER W./EPA
ADDRESSEE: PARKER, JEAN/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/0854 THRU: 317/0854
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160227 DATE: APR. 10, 1987 PAGE: 7
TITLE: (RESPONSE TO ATTACHED MAR. 12, 1987 104E REQUEST)
AUTHOR: DENT, ROBERT L./AMC
ADDRESSEE: MORENO, SANDRA R./EPA
QUALIFIER(S): INCOMPLETE * MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040300
MICROFILM ROLL/FRAME NO.: 317/0855 THRU: 317/0861
KEYWORD(S): AMERICAN CHEMET CORPORATION * AMC/ARCO
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160234 DATE: APR. 10, 1987 PAGE: 5
TITLE: (TRANSMITS ATTACHED CERCLIS ASSESSMENT AND INSPECTION OF HAZARDOUS WASTE SITES QUARTERLY REPORT JAN.-MAR. 1987)
AUTHOR: WEINSTOCK, SARA/MDHES
ADDRESSEE: HARRIS, TOM/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1130300
MICROFILM ROLL/FRAME NO.: 317/0862 THRU: 317/0866
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160239 DATE: APR. 20, 1987 PAGE: 2
TITLE: (NOTES ABOUT MSI DETOXIFICATION PREPARED TO UNDERTAKE BIOLOGICAL BASED REMEDIATION, RECLAMATION AND INORGANIC CLP; DISCUSSES TOXIC LEVELS OF LEAD IN LIVESTOCK AND FOLLOW-UP ACTIONS)
AUTHOR: (BROWN, SCOTT/EPA)
ADDRESSEE: DOLLHOPF, DOUG/MSU * JONES, PETER/MSI DETOXIFICATION * HARVEY, KEVIN/MSI DETOXIFICATION
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: NOTES
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 317/0867 THRU: 317/0868
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160241 DATE: APR. 21, 1987 PAGE: 5
TITLE: (DISCUSSES IDENTIFICATION OF CLEANUP CRITERIA FOR LOWRY LANDFILL; SAMPLE OF ARARS REQUEST LETTER AND TABLE FORMATS)
AUTHOR: GEISE, J. WILLIAM/EPA
ADDRESSEE: LOOBY, THOMAS/COLORADO DEPARTMENT OF HEALTH
CC: ONDRUSZEK * NOACK * MESCH * HYKEN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1050200
MICROFILM ROLL/FRAME NO.: 317/0869 THRU: 317/0873
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160246 DATE: APR. 21, 1987 PAGE: 3
TITLE: (DISCUSSES ROLE OF EXPEDITED RESPONSE ACTIONS UNDER SARA; OSWER DIRECTIVE 9360.0-15)
AUTHOR: LONGEST, HENRY L./EPA
ADDRESSEE: WASTE MANAGEMENT DIVISION REGION 1, 4, 5, 6, 7 AND 8 * DIRECTOR, EMERGENCY AND REMEDIAL RESPONSE DIVISION REGION 2 * DIRECTOR, HAZARDOUS WASTE MANAGEMENT DIVISION, REGION 3 * DIRECTOR, TOXICS AND WASTE MANAGEMENT DIVISION, REGION 1 * DIRECTOR, HAZARDOUS WASTE DIVISION REGION 10 * DIRECTOR, ENVIRONMENTAL SERVICES DIVISION REGION 1, 6 AND 7
CC: SUPERFUND BRANCH CHIEF, REGION 1-10 * LUCERO * WYER * FIELDS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1090100
MICROFILM ROLL/FRAME NO.: 317/0874 THRU: 317/0876
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160249 DATE: APR. 27, 1987 PAGE: 2
TITLE: (TRANSMITS INFORMATION SENT BY TAYLOR FOR DEVELOPMENT OF RCRA MINING WASTE SITES)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): REPRODUCTION * MARGINALIA * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 317/0877 THRU: 317/0878
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160251 DATE: APR. 27, 1987 PAGE: 2
TITLE: (NOTIFIES ASARCO OF ASSIGNMENT OF BROWN AS RPM)
AUTHOR: FINKE, ERIC W./EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: TAUNTON * SCHWING * BUNTE * RUBICH
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040400
MICROFILM ROLL/FRAME NO.: 317/0879 THRU: 317/0880
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 0160253 DATE: APR. 30, 1987 PAGE: 1
TITLE: (TRANSMITS DRAFT PROCESS PONDS RI/FS WORKPLAN)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: RUBICH
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2030100
MICROFILM ROLL/FRAME NO.: 317/0881 THRU: 317/0881
NOTES: UPDATE 02

FILE: 1170602 DOCNO: 434758 DATE: MAR. 24, 1987 PAGE: 4
TITLE: (PARTIAL RESPONSE TO FEB. 23, 1987 REQUEST FOR INFORMATION)
AUTHOR: LAKE, CLIFTON A./ROOKS, PITTS AND POUST
ADDRESSEE: MORENO, SANDRA/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0239 THRU: 749/0242
NOTES: UPDATE 10

FILE: 1170603 DOCNO: 0160254 DATE: MAY 1, 1987 PAGE: 1
TITLE: (TRANSMITS ASARCO DRAFT WORK PLAN FOR PROCESS PONDS RI/FS)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: WARDELL, JOHN/EPA * FINKE, ERIC/EPA * MORENO, SANDRA/EPA * TAYLOR, GENE/EPA * BUNTE, DAVE/CH2M HILL
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):2030100
MICROFILM ROLL/FRAME NO.: 317/0882 THRU: 317/0882
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160255 DATE: MAY 4, 1987 PAGE: 6
TITLE: (RESPONSE TO FOIA REQUEST FOR HRS AND DOCUMENTATION)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: STEGER, MARK J./ROOKS, PITTS AND POUST
CC: MORENO * BROWN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1160000
MICROFILM ROLL/FRAME NO.: 317/0883 THRU: 317/0888
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160261 DATE: MAY 5, 1987 PAGE: 2
TITLE: EVALUATION OF WELFARE ASPECTS OF SUPERFUND SITES
AUTHOR: LONGEST, HENRY/EPA
ADDRESSEE: DUPREY, ROBERT L./EPA
CC: WASTE MANAGEMENT DIVISION/DIRECTORS REGIONS 1-7, 9 AND 10
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/0889 THRU: 317/0890
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160263 DATE: MAY 7, 1987 PAGE: 2
TITLE: (ACKNOWLEDGES RECEIPT OF ASARCO DRAFT WORK PLAN FOR PROCESS PONDS RI/FS AND STATES COMMENTS WILL BE SUBMITTED BY MAY 15, 1987)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * BUNTE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2030100
MICROFILM ROLL/FRAME NO.: 317/0891 THRU: 317/0892
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160265 DATE: MAY 14, 1987 PAGE: 3
TITLE: (TRANSMITS FINAL GUIDANCE FOR COORDINATION OF ATSDR HEALTH ASSESSMENT ACTIVITIES)
AUTHOR: PORTER, J. WINSTON/EPA
ADDRESSEE: DIRECTOR, WASTE MANAGEMENT DIVISION, REGION 1, 4, 5, 7, 8 * DIRECTOR, EMERGENCY AND REMEDIAL RESPONSE DIVISION, REGION 2 * DIRECTOR, HAZARDOUS WASTE MANAGEMENT DIVISION REGION 3, 6 * DIRECTOR, TOXICS AND WASTE MANAGEMENT DIVISION, REGION 9 * DIRECTOR, HAZARDOUS WASTE DIVISION, REGION 10 * DIRECTOR, ENVIRONMENTAL SERVICES DIVISION, REGION 1, 6, 7
CC: SUPERFUND REGIONAL BRANCH CHIEFS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060703
MICROFILM ROLL/FRAME NO.: 317/0893 THRU: 317/0895
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160268 DATE: MAY 15, 1987 PAGE: 1
TITLE: (REVIEWS ASARCO APR. 30, 1987 PROCESS PONDS RI/FS WORK PLAN)
AUTHOR: BUNTE, DAVID J./CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: TAYLOR * SCHWING * LUCERO * HOLM * KOHONOSKI * FEAST * GLANZMAN
QUALIFIER(S): INCOMPLETE * REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2030100
MICROFILM ROLL/FRAME NO.: 317/0896 THRU: 317/0896
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160269 DATE: MAY 15, 1987 PAGE: 5
TITLE: (TRANSMITS ATTACHED COMMENTS ON ASARCO PROPOSED PROCESS PONDS RI/FS WORK PLAN)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: WARDELL * FINKE * MORENO * TAYLOR * BUNTE * RUBICH
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2030100
MICROFILM ROLL/FRAME NO.: 317/0897 THRU: 317/0901
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160274 DATE: MAY 15, 1987 PAGE: 3
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 16
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/0902 THRU: 317/0904
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160277 DATE: MAY 20, 1987 PAGE: 1
TITLE: (GUIDANCE ON WORK ASSIGNMENTS)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: BUNTE, DAVE/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/0905 THRU: 317/0905
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160278 DATE: MAY 21, 1987 PAGE: 7
TITLE: (TRANSMITS RESULTS OF ANALYSES AND DELIVERABLE PERFORMED ON SEQUENTIAL EXTRACTIONS OF SAMPLES TAKEN IN CONJUNCTION WITH ASARCO-EAST HELENA HYDROGEOLOGICAL SURVEY PHASE 2)
AUTHOR: FABBI, M. J./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BOTZ * NICKEL * ROBBINS * STANGA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102
MICROFILM ROLL/FRAME NO.: 317/0906 THRU: 317/0912
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160285 DATE: MAY 21, 1987 PAGE: 6
TITLE: (DISCUSSES MEETING SCHEDULED FOR JUN. 10, 1987; TRANSMITS ATTACHED FINAL DRAFT RISK COMMUNICATION MESSAGES AND COMMUNICATION PROCEDURE FOR SPECIFIC RISK ISSUES)
AUTHOR: SANDERS, DORIS E./EPA
ADDRESSEE: COOKE, NOLA/RISK COMMUNICATION TASK FORCE * CROTTY, PAT/RISK COMMUNICATION TASK FORCE * FORGET, CECE/RISK COMMUNICATION TASK FORCE * JOHNSON, LOU/RISK COMMUNICATION TASK FORCE * JOHNSON, DOUG/RISK COMMUNICATION TASK FORCE * MULL, MARILYN/RISK COMMUNICATION TASK FORCE * PARKER, JEAN/RISK COMMUNICATION TASK FORCE * SIMMONS, BOB/RISK COMMUNICATION TASK FORCE * WANN, DAVID/RISK COMMUNICATION TASK FORCE * WUERTHLE, SUZANNE/RISK COMMUNICATION TASK FORCE
CC: FORGET
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060702
MICROFILM ROLL/FRAME NO.: 317/0913 THRU: 317/0918
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160291 DATE: MAY 21, 1987 PAGE: 5
TITLE: (TRANSMITS ATTACHED REM 4 MAY 1987 SUMMARY STATUS REPORTS)
AUTHOR: SCHWING, JAMES E./CH2M HILL
ADDRESSEE: TAUNTON, WANDA/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120203
MICROFILM ROLL/FRAME NO.: 317/0919 THRU: 317/0923
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160296 DATE: MAY 27, 1987 PAGE: 1
TITLE: (TRANSMITS DRAFT COMPREHENSIVE RI WORK PLAN)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: RUBICH
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/0924 THRU: 317/0924
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160297 DATE: MAY 27, 1987 PAGE: 3
TITLE: (TRANSMITS ATTACHED DRAFT ARTICLE FOR NEWSPAPER COMMUNITY CALENDAR AND DRAFT RADIO PUBLIC SERVICE ANNOUNCEMENT OF JUN. 11, 1987 PUBLIC MEETING)
AUTHOR: (STILES), JANIE/MDHES
ADDRESSEE: SCOTT
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100300
MICROFILM ROLL/FRAME NO.: 317/0925 THRU: 317/0927
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160300 DATE: MAY 29, 1987 PAGE: 1
TITLE: (TRANSMITS RI REPORT FOR SOILS, VEGETATION AND LIVESTOCK)
AUTHOR: BUNTE, DAVID J./CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: KALTREIDER * JURY * THOMPSON * HARRIS * SCHWING * HAHN * DEHN * KOHONOSKI * LUCERO * BLUCK * BARUTH * SWITZER * DOLLHOPF * NEUMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):4040000
MICROFILM ROLL/FRAME NO.: 317/0928 THRU: 317/0928
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160301 DATE: MAY 29, 1987 PAGE: 1
TITLE: (TRANSMITS ASSESSMENT OF THE TOXICITY OF ARSENIC, CADMIUM, LEAD AND ZINC IN SOIL, PLANTS AND LIVESTOCK IN THE HELENA VALLEY OF MONTANA)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: KALTREIDER * KOHONOSKI * SCHWING * LUCERO * BLUCK * BARUTH * BUNTE * NEUMAN * GOERING * MUNSHOWER
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):4040000
MICROFILM ROLL/FRAME NO.: 317/0929 THRU: 317/0929
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160302 DATE: MAY 29, 1987 PAGE: 1
TITLE: (TRANSMITS ASSESSMENT OF THE TOXICITY OF COPPER, MERCURY, SELENIUM, SILVER AND THALLIUM IN SOILS AND PLANTS IN THE HELENA VALLEY OF MONTANA)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: KALTREIDER * KOHONOSKI * SCHWING * LUCERO * BLUCK * BARUTH * BUNTE * NEUMAN * GOERING * MUNSHOWER
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):4040000
MICROFILM ROLL/FRAME NO.: 317/0930 THRU: 317/0930
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160303 DATE: JUN. 1, 1987 PAGE: 12
TITLE: RESULTS OF EPA WESTERN REGIONAL CERCLA SMELTING AND MINING ENFORCEMENT CONFERENCE
AUTHOR: SCHERER, JAMES/EPA * SPEICHER, THOMAS/EPA
ADDRESSEE: PORTER, J. WINSTON/EPA * BLAKE, FRANCIS/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010300
MICROFILM ROLL/FRAME NO.: 317/0931 THRU: 317/0942
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160315 DATE: JUN. 2, 1987 PAGE: 1
TITLE: (ACKNOWLEDGES RECEIPT OF TRANSMITTAL LETTER AND COPIES OF COMPREHENSIVE RI STUDY PLAN)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MARENO * BUNTE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070202
MICROFILM ROLL/FRAME NO.: 317/0943 THRU: 317/0943
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160316 DATE: JUN. 2, 1987 PAGE: 1
TITLE: (TRANSMITS 3 VOLUMES OF RI REPORTS FOR FINAL APPROVAL)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: WARDELL, JOHN F./EPA * MORENO, SANDRA/EPA * TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: MEMO
CROSS FILE(S):4040000
MICROFILM ROLL/FRAME NO.: 317/0944 THRU: 317/0944
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160317 DATE: JUN. 2, 1987 PAGE: 8
TITLE: (DISCUSSES POTENTIAL CONFLICTS OF INTEREST BETWEEN MDI AND MSU; ATTACHED NOTES ON SECTION 6.21 MSU/CH2M HILL CONTRACT)
AUTHOR: JONES, PETER M./MDI
ADDRESSEE: BROWN, SCOTT/EPA
CC: BROWNING * SMITH
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0945 THRU: 317/0952
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160325 DATE: JUN. 3, 1987 PAGE: 2
TITLE: (TRANSMITS AND REQUESTS REVIEW OF ASARCO DRAFT WORKPLAN FOR CONDUCTING RI)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: WARDELL, JOHN/EPA * FINKE, ERIC/EPA * MORENO, SANDRA/EPA * TAYLOR, GENE/EPA * BAKER, JAMES/EPA * BUNTE, DAVE/CH2M HILL
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/0953 THRU: 317/0954
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160327 DATE: JUN. 4, 1987 PAGE: 23
TITLE: REVIEW OF SECTION 4.0 SURFACE SOIL/SURFACE WATER OF "COMPREHENSIVE REMEDIAL INVESTIGATION (RI) STUDY PLAN"
AUTHOR: DOLLHOPF, DOUG/MSU * NEUMAN, DENNIS/MSU
ADDRESSEE: BUNTE, DAVE/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030100
MICROFILM ROLL/FRAME NO.: 317/0955 THRU: 317/0977
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160350 DATE: JUN. 11, 1987 PAGE: 2
TITLE: (NOTICE OF PUBLIC MEETING JUN. 11, 1987; TRANSMITS AGENDA AND SUMMARIES OF AGRICULTURAL REPORTS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: PERSONS INTERESTED IN EAST HELENA SUPERFUND SITE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100300
MICROFILM ROLL/FRAME NO.: 317/0978 THRU: 317/0979
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160352 DATE: JUN. 11, 1987 PAGE: 15
TITLE: (NOTICE OF PUBLIC MEETING JUN. 11, 1987; TRANSMITS ATTACHED AGENDA AND SUMMARIES OF RI OF SOILS, VEGETATION AND LIVESTOCK AND ASSESSMENT OF THE TOXICITY OF ARSENIC, CADMIUM, LEAD AND ZINC IN SOIL, PLANTS AND LIVESTOCK IN THE HELENA VALLEY OF MONTANA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: PERSONS INTERESTED IN EAST HELENA SUPERFUND SITE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100600 * 4040000 * 1060708
MICROFILM ROLL/FRAME NO.: 317/0980 THRU: 317/0994
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * VEGETATION
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160367 DATE: JUN. 12, 1987 PAGE: 1
TITLE: (TRANSMITS DRAFT PROCESS PONDS RI/FS WORK PLAN)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: RUBICH
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2030100
MICROFILM ROLL/FRAME NO.: 317/0995 THRU: 317/0995
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160368 DATE: JUN. 15, 1987 PAGE: 1
TITLE: (CONFIRMS ASARCO WILLINGNESS TO CONDUCT FS AT EAST HELENA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: RUBICH
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/0996 THRU: 317/0996
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160369 DATE: JUN. 19, 1987 PAGE: 30
TITLE: INTERIM GUIDANCE ON SETTLEMENTS WITH DE MINIMIS WASTE CONTRIBUTIONS UNDER SECTION 122(G) OF SARA
AUTHOR: ADAMS, THOMAS L./EPA * PORTER, J. WINSTON/EPA
ADDRESSEE: REGIONAL ADMINISTRATORS * REGIONAL COUNSELS * REGIONAL WASTE MANAGEMENT DIVISION DIRECTORS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: MEMO
CROSS FILE(S):1020400
MICROFILM ROLL/FRAME NO.: 317/0997 THRU: 317/1026
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160399 DATE: JUN. 19, 1987 PAGE: 1
TITLE: (TRANSMITS COMMENTS ON COMPREHENSIVE RI/FS WORK PLAN)
AUTHOR: BUNTE, DAVID J./CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SCHWING * LUCERO * FEAST * GLANZMAN * BARUTH * KOHONOSKI * DOLLHOPF * NEUMAN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 2030100
MICROFILM ROLL/FRAME NO.: 317/1027 THRU: 317/1027
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160400 DATE: JUN. 23, 1987 PAGE: 9
TITLE: (COMMENTS ON COMPREHENSIVE RI STUDY PLAN)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: WARDELL * FINKE * MORENO * BAKER * TAYLOR * BUNTE * RUBICH
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 2030100
MICROFILM ROLL/FRAME NO.: 317/1028 THRU: 317/1036
NOTES: UPDATE 02

FILE: 1170603 DOCNO: 0160409 DATE: JUN. 25, 1987 PAGE: 4
TITLE: (TRANSMITS AND RELEASES "THE HAZARDOUS WASTE SYSTEM" REPORT)
AUTHOR: PORTER, J. WINSTON/EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 317/1037 THRU: 317/1040
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160413 DATE: JUL. 6, 1987 PAGE: 2
TITLE: (REQUESTS BROWN AND BUNTE APPROVE RELEASE OF REQUESTED DATA; ATTACHED REQUEST FROM MAUGHAN TO DOLLHOPF FOR SURFACE AND CORE SAMPLING SITES AND HEAVY METAL CONCENTRATIONS FOR VARIOUS SOIL DEPTHS)
AUTHOR: DOLLHOPF, D. J./MSU
ADDRESSEE: MAUGHAN, A. DAVID
CC: BROWN * BUNTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1041 THRU: 317/1042
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160415 DATE: JUL. 7, 1987 PAGE: 3
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 17
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1043 THRU: 317/1045
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160418 DATE: JUL. 8, 1987 PAGE: 1
TITLE: (RESPONSE TO LETTER OF JUN. 2 FROM JONES REGARDING REQUEST TO GRANT DOLLHOPF AUTHORIZATION TO ACT AS CONSULTANTS FOR MSI)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: JONES, PETER M./MSI DETOXIFICATION
CC: WARDELL * FINKE * BROWNING * BUNTE * MORENO
QUALIFIER(S): MARGINALIA * REPRODUCTION * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1046 THRU: 317/1046
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160419 DATE: JUL. 9, 1987 PAGE: 1
TITLE: (TRANSMITS REQUEST FOR REVIEW AND COMMENT ON DRAFT PROCEDURES FOR ADMINISTRATIVE SETTLEMENTS UNDER SECTIONS 122(H)(1) AND (G)(4))
AUTHOR: CLEMMENS, LAURA/EPA
ADDRESSEE: METCALF, SHARON/EPA * FINKE, ERIC/EPA * SCHALLER, DAVID/EPA * SILVERNALE, JAY/EPA * WONG, JUDY/EPA
QUALIFIER(S): REPRODUCTION * INCOMPLETE * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1020400
MICROFILM ROLL/FRAME NO.: 317/1047 THRU: 317/1047
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160420 DATE: JUL. 9, 1987 PAGE: 9
TITLE: INTERIM GUIDANCE ON COMPLIANCE WITH ARARS
AUTHOR: PORTER, J. WINSTON/EPA
ADDRESSEE: REGIONAL ADMINISTRATORS, REGION 1-10 * REGIONAL COUNSEL, REGION 1-10 * DIRECTOR, WASTE MANAGEMENT DIVISION, REGION 1, 4, 5, 7, 8 * DIRECTOR, EMERGENCY AND REMEDIAL RESPONSE DIVISION REGION 2 * DIRECTOR, HAZARDOUS WASTE MANAGEMENT DIVISION, REGION 3, 6 * DIRECTOR, TOXICS AND WASTE MANAGEMENT DIVISION, REGION 9 * DIRECTOR, HAZARDOUS WASTE DIVISION, REGION 10 * ENVIRONMENTAL SERVICES DIVISION DIRECTORS, REGION 1, 6, 7
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1050200
MICROFILM ROLL/FRAME NO.: 317/1048 THRU: 317/1056
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160429 DATE: JUL. 10, 1987 PAGE: 3
TITLE: (TRANSMITS COMMENTS ON EAST HELENA PROCESS PONDS RI/FS WORK PLAN)
AUTHOR: BUNTE, DAVID J./CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SCHWING * LUCERO * FEAST * GLANZMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2030100
MICROFILM ROLL/FRAME NO.: 317/1057 THRU: 317/1059
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160432 DATE: JUL. 16, 1987 PAGE: 2
TITLE: (TRANSMITS COMMENTS ON ASARCO MAR. 31, 1987 LETTER)
AUTHOR: BUNTE, DAVID J./CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SCHWING * LUCERO * FEAST * GLANZMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030400
MICROFILM ROLL/FRAME NO.: 317/1060 THRU: 317/1061
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160434 DATE: JUL. 27, 1987 PAGE: 1
TITLE: (DISCUSSES AREA FORMALDEHYDE INSULATION USED IN EAST HELENA HOMES)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: DEADMOND, PAT
CC: FINKE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE * TISSUE COPY * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 317/1062 THRU: 317/1062
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160435 DATE: JUL. 29, 1987 PAGE: 7
TITLE: (COMMENTS ON REGIONAL REVIEW OF DRAFT MANUAL ON SUPERFUND COMPLIANCE WITH OTHER ENVIRONMENTAL LAWS: VOL. 1 AND 2)
AUTHOR: TETER, KATHARINE/EPA
ADDRESSEE: MALM, SYLVIA/EPA
CC: CRANE * MULLIN * CALLAWAY * BISHOP * HOLMES * LEVENE * EVANS * GIEDT * METCALF * FINKE * GEISE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1050200
MICROFILM ROLL/FRAME NO.: 317/1063 THRU: 317/1069
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160442 DATE: JUL. 30, 1987 PAGE: 15
TITLE: DUTIES AND RESPONSIBILITIES OF REGIONAL CONTACTS AND PRIMARY CONTACTS UNDER TES CONTRACTS
AUTHOR: LUCERO, GENE A./EPA
ADDRESSEE: DIRECTORS, WASTE MANAGEMENT DIVISION, REGION 1, 4, 5, 7, 8 * DIRECTORS, HAZARDOUS WASTE MANAGEMENT DIVISION, REGION 3, 6 * DIRECTOR, EMERGENCY AND REMEDIAL RESPONSE DIVISION, REGION 2 * ACTING DIRECTOR, TOXICS AND WASTE MANAGEMENT DIVISION, REGION 9 * DIRECTOR, AIR AND WASTE MANAGEMENT DIVISION, REGION 2 * DIRECTOR, HAZARDOUS WASTE DIVISION, REGION 10
CC: CERCLA ENFORCEMENT BRANCH CHIEFS, REGIONS 1 - 10 * RCRA ENFORCEMENT BRANCH CHIEFS, REGIONS 1 - 10
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120400
MICROFILM ROLL/FRAME NO.: 317/1070 THRU: 317/1084
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160457 DATE: AUG. 12, 1987 PAGE: 10
TITLE: (TRANSMITS ATTACHED WORKPLAN FOR ASARCO PHASE 2 GRAIN SAMPLING)
AUTHOR: RUPP, GRETCHEN/MSI DETOXIFICATION
ADDRESSEE: BUNTE, DAVE/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 4070500
MICROFILM ROLL/FRAME NO.: 317/1085 THRU: 317/1094
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160467 DATE: AUG. 12, 1987 PAGE: 1
TITLE: (TRANSMITS REVISED COMPREHENSIVE RI/FS PLAN)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/1095 THRU: 317/1095
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160468 DATE: AUG. 13, 1987 PAGE: 1
TITLE: (DISCUSSES ASARCO PROBLEM WITH GETTING QC SAMPLES)
AUTHOR: BOKSLEITNER, RUDOLPH/EPA
ADDRESSEE: THE RECORD
CC: BROWN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/1096 THRU: 317/1096
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160469 DATE: AUG. 18, 1987 PAGE: 1
TITLE: (TRANSMITS INFORMATION FROM 1984 EAST HELENA STUDY ON ANALYSIS OF VEGETATION SAMPLES)
AUTHOR: BUNTE, DAVID J./CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070500
MICROFILM ROLL/FRAME NO.: 317/1097 THRU: 317/1097
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160470 DATE: AUG. 18, 1987 PAGE: 1
TITLE: (CALL FROM KLAUS CONCERNING TES CONTRACTS)
AUTHOR: KLAUS, JULIE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
CROSS FILE(S):1120400
MICROFILM ROLL/FRAME NO.: 317/1098 THRU: 317/1098
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160471 DATE: AUG. 19, 1987 PAGE: 1
TITLE: (TRANSMITS FINAL DRAFT NEW AOC)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: WARDELL, JOHN/EPA * FINKE, ERIC/EPA * BAKER, JIM/EPA * MCGEEHIN, MIKE/EPA * RUBICH, MIKE/MDHES * ROGNESS, DOUG/MDHES * BUNTE, DAVE/CH2M HILL
CC: MORENO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1099 THRU: 317/1099
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160472 DATE: AUG. 21, 1987 PAGE: 1
TITLE: (TRANSMITS INFORMATION ON ASARCO TACOMA SMELTER ACTIVITIES)
AUTHOR: WANLESS, CYNTHIA/TACOMA-PIERCE COUNTY HEALTH DEPARTMENT
ADDRESSEE: STILES, JANE/MDHES
QUALIFIER(S): REPRODUCTION * MARGINALIA * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1101000
MICROFILM ROLL/FRAME NO.: 317/1100 THRU: 317/1100
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160473 DATE: AUG. 27, 1987 PAGE: 2
TITLE: (DISCUSSES ASARCO PROPOSED WORKPLAN REGARDING GRAIN AND GARDEN VEGETABLES)
AUTHOR: BROWN, SCOTT/(EPA)
ADDRESSEE: SPRENGER, LES/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060300 * 4070400 * 4070500
MICROFILM ROLL/FRAME NO.: 317/1101 THRU: 317/1102
NOTES: UPDATE 02

FILE: 1170604 DOCNO: 0160475 DATE: AUG. 27, 1987 PAGE: 2
TITLE: (TRANSMITS REVISED AOC)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: DRYNAN, JOHN J./MDHES
CC: BROWN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * TISSUE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040400
MICROFILM ROLL/FRAME NO.: 317/1103 THRU: 317/1104
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160477 DATE: SEP. 1, 1987 PAGE: 15
TITLE: "MEMORANDUM OF UNDERSTANDING (MOU) WITH THE BUREAU OF MINES (BOM)"
AUTHOR: LONGEST, HENRY L./EPA
ADDRESSEE: DIRECTORS, WASTE MANAGEMENT DIVISION, REGION 1, 4, 5, 7, 8 * DIRECTOR, EMERGENCY AND REMEDIAL RESPONSE DIVISION, REGION 2 * DIRECTORS, HAZARDOUS WASTE MANAGEMENT DIVISION, REGION 3, 4 * DIRECTOR, TOXICS AND WASTE MANAGEMENT DIVISION, REGION 9 * DIRECTOR, HAZARDOUS WASTE DIVISION, REGION 10
CC: /SUPERFUND BRANCH CHIEFS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/1105 THRU: 317/1119
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160492 DATE: SEP. 2, 1987 PAGE: 4
TITLE: (TRANSMITS ATTACHED COMMENTS ON REVISED "COMPREHENSIVE REMEDIAL INVESTIGATION/FEASIBILITY STUDY PLAN [RI/FS]" [AUG. 1987])
AUTHOR: ROGNESS, DOUG/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/1120 THRU: 317/1123
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160496 DATE: SEP. 2, 1987 PAGE: 20
TITLE: (TRANSMITS ATTACHED REVIEW COMMENTS ON ASARCO AUG. 1987 COMPREHENSIVE RI/FS WORK PLAN [SECOND DRAFT]; ATTACHED RPM COMMENTS)
AUTHOR: BUNTE, DAVID J./CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: SCHWING * LUCERO * FEAST * GLANZMAN * BARUTH * DOLLHOPF * NEUMAN * KOHONOSKI
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/1124 THRU: 317/1143
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160516 DATE: SEP. 3, 1987 PAGE: 12
TITLE: (TRANSMITS ATTACHED EPA COMMENTS ON ASARCO SECOND DRAFT OF COMPREHENSIVE RI/FS PLAN)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: WARDELL * FINKE * MORENO * BUNTE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/1144 THRU: 317/1155
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160528 DATE: SEP. 8, 1987 PAGE: 4
TITLE: (PROGRESS REPORT 18 DISCUSSING ACTIVITIES JUL. 1 - AUG. 31, 1987)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1156 THRU: 317/1159
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160532 DATE: SEP. 9, 1987 PAGE: 7
TITLE: (SUMMARY OF JUN. 11, 1987 MEETING)
AUTHOR: KENNEDY, CAROL/ICF
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SCRIMGEOUR * NULL * BEAN * SCHWING * BUNTE * ZODA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1100300
MICROFILM ROLL/FRAME NO.: 317/1160 THRU: 317/1166
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160539 DATE: SEP. 9, 1987 PAGE: 1
TITLE: (LISTS COMMENTS ABOUT QA ITEMS OF RI/FS PLAN)
AUTHOR: SPRENGER, LESTER D./EPA
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/1167 THRU: 317/1167
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160540 DATE: SEP. 14, 1987 PAGE: 2
TITLE: (DISCUSSES CH2M HILL CONTRACT, LOE HOURS AND SUGGESTED IDEAS TO TRANSFER PROJECT OVERSIGHT FROM CH2M HILL TO JACOBS)
AUTHOR: BROWN, SCOTT/(EPA)
ADDRESSEE: WARDELL, JOHN/(EPA) * CHIOTTI, KATHY/(EPA)
CC: FINKE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120107
MICROFILM ROLL/FRAME NO.: 317/1168 THRU: 317/1169
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160542 DATE: SEP. 16, 1987 PAGE: 2
TITLE: (DISCUSSES ACZ NO LONGER DOING ANALYTICAL WORK RELATED TO SECOND AND THIRD PHASES OF CLARK FORK STUDY)
AUTHOR: CLAGETT, TUCK/ACZ
ADDRESSEE: BROWN, SCOTT/EPA
CC: POULSEN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1170 THRU: 317/1171
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160544 DATE: SEP. 25, 1987 PAGE: 10
TITLE: (TRANSMITS REVISED COMPREHENSIVE RI/FS PLAN: ATTACHED RESPONSE DIRECTORY TO EPA COMMENTS ON COMPREHENSIVE RI/FS WORK PLAN)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS * SHEWMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/1172 THRU: 317/1181
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160554 DATE: OCT. 9, 1987 PAGE: 8
TITLE: (TRANSMITS ATTACHED NEUMAN COMMENTS ON ASARCO ANALYTICAL PROTOCOLS FOR ANALYSIS OF FISH, CATTLE TISSUE, GRAIN HEADS AND VEGETABLES)
AUTHOR: BUNTE, DAVID J./CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: LUCERO * DOLLHOPF * NEUMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060400 * 4070600 * 4070700 * 4070500
MICROFILM ROLL/FRAME NO.: 317/1182 THRU: 317/1189
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160562 DATE: OCT. 13, 1987 PAGE: 1
TITLE: (DISCUSSES EVALUATING PROGRESS MADE TOWARD ACHIEVING STATE AND FEDERAL LEAD AMBIENT STANDARDS WITHIN EAST HELENA)
AUTHOR: RAISCH, BOB/MDHES
ADDRESSEE: SINNOTT, JAY/EPA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1190 THRU: 317/1190
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160563 DATE: OCT. 20, 1987 PAGE: 5
TITLE: (DISCUSSES INCREASING NUMBER OF SAMPLES IN EAST HELENA INCLUDING PARKS AND PLAYGROUNDS; TRANSMITS ATTACHED MDI SOIL SAMPLING MAP AND RESIDENTIAL SOIL SAMPLING SOP)
AUTHOR: BABITS, MEG/MDI
ADDRESSEE: DOLLHOPF, DOUGLAS J./(MSU)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070200 * 1060600
MICROFILM ROLL/FRAME NO.: 317/1191 THRU: 317/1195
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160568 DATE: OCT. 22, 1987 PAGE: 3
TITLE: (TRANSMITS COMMENTS ON ASARCO COMPREHENSIVE RI/FS WORK PLAN)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN * INCOMPLETE
DOCUMENT TYPE: FORM
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/1196 THRU: 317/1198
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160571 DATE: OCT. 22, 1987 PAGE: 3
TITLE: (SUGGESTS SCHEDULING DATES FOR DRAFT FS, PUBLIC COMMENT FS AND ROD)
AUTHOR: LUCERO/CH2M HILL
ADDRESSEE: BUNTE, DAVE/(CH2M HILL)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 317/1199 THRU: 317/1201
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160574 DATE: OCT. 23, 1987 PAGE: 3
TITLE: (DISCUSSES SECOND DRAFT EAST HELENA ASARCO OFFSITE SAMPLING)
AUTHOR: BABITS, MEG/MDI
ADDRESSEE: DOLLHOPF, DOUGLAS J./(MSU)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 317/1202 THRU: 317/1204
NOTES: UPDATE 02

FILE: 1170605 DOCNO: 0160577 DATE: OCT. 29, 1987 PAGE: 6
TITLE: (DISCUSSES CONDITIONAL ACCEPTANCE BY EPA OF COMPREHENSIVE RI/FS PLAN; ATTACHED COMMENTS ON ASARCO COMPREHENSIVE RI/FS WORK PLAN THIRD DRAFT)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE, * MORENO * BUNTE * ROGNESS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/1205 THRU: 317/1210
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160583 DATE: NOV. 3, 1987 PAGE: 1
TITLE: (TRANSMITS FISCAL YEAR 1988 MULTISITE COOPERATIVE AGREEMENT; REQUESTS COMMENTS)
AUTHOR: HARRIS, TOM/(EPA)
ADDRESSEE: WALLACE, STEPHANIE/(EPA) * BISHOP, MIKE/(EPA) * FORBA, RUSS/(EPA) * WEINSTOCK, SARA/(EPA) * BROWN, SCOTT/(EPA) * WALLACE, KEN/(EPA)
QUALIFIER(S): REPRODUCTION * INCOMPLETE * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1130200
MICROFILM ROLL/FRAME NO.: 317/1211 THRU: 317/1211
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160584 DATE: NOV. 4, 1987 PAGE: 5
ATTACHED DOC(S): 0160589
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 19
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1212 THRU: 317/1216
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160589 DATE: NOV. 2, 1987 PAGE: 1
ATTACHED TO: 0160584
TITLE: (TRANSMITS SAMPLE RESULTS, DOCUMENTATION AND DELIVERABLE FOR WATER SAMPLES FROM EAST HELENA AREA BETWEEN AUG. 3 AND SEP. 22, 1987)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BOTZ * NICKEL * ROBBINS * STANGA
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070202
MICROFILM ROLL/FRAME NO.: 317/1217 THRU: 317/1217
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160590 DATE: NOV. 9, 1987 PAGE: 13
TITLE: (TRANSMITS ATTACHED RESIDENTIAL SOIL SAMPLING SOP; ATTACHED FINAL DRAFT EAST HELENA ASARCO OFFSITE SAMPLING AND MAP; ATTACHED ASARCO RESPONSES TO NEUMAN COMMENTS SUBMITTED TO CH2M HILL HILL OCT. 7, 1987)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: FORM
CROSS FILE(S):1060500 * 4070200 * 1060400
MICROFILM ROLL/FRAME NO.: 317/1218 THRU: 317/1230
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MERCURY * ZINC * MANGANESE * SELENIUM * THALLIUM * VEGETATION
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160603 DATE: NOV. 9, 1987 PAGE: 18
TITLE: (TRANSMITS EAST HELENA RESPONSE/ERRATA DOCUMENTS WHICH REFLECT MODIFICATIONS TO COMPREHENSIVE RI/FS WORK PLAN)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS * BUNTE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 1060300 * 1060500 * 4070800
MICROFILM ROLL/FRAME NO.: 317/1231 THRU: 317/1248
KEYWORD(S): ARSENIC * CADMIUM * LEAD * COPPER * ZINC * SELENIUM * MANGANESE * MERCURY * CHROMIUM * SOIL
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160621 DATE: NOV. 10, 1987 PAGE: 7
TITLE: (SUMMARIZES INFORMATION GATHERED AND USED TO JUSTIFY SELECTION OF ANIMALS FOR STEP 1 CATTLE TISSUE SAMPLING TASK)
AUTHOR: HARVEY, KEVIN/MDI
ADDRESSEE: NICKEL, JON/ASARCO * BROWN, SCOTT/EPA * BUNTE, DAVE/CH2M HILL * DOLLHOPF, DOUG/MSU * NEUMAN, DENNIS/MSU
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070600 * 1060200
MICROFILM ROLL/FRAME NO.: 317/1249 THRU: 317/1255
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160628 DATE: NOV. 11, 1987 PAGE: 5
TITLE: (TRANSMITS ATTACHED NEW ADMINISTRATIVE ORDER LIST OF DELIVERABLES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS * BUNTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1256 THRU: 317/1260
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160633 DATE: NOV. 11, 1987 PAGE: 2
TITLE: (TRANSMITS RESPONSE/ERRATA DOCUMENTS TO COMPREHENSIVE RI/FS WORK PLAN)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: BUNTE
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060500 * 1060200 * 1060300 * 4030200 * 4070800
MICROFILM ROLL/FRAME NO.: 317/1261 THRU: 317/1262
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160635 DATE: NOV. 19, 1987 PAGE: 6
TITLE: (TRANSMITS ATTACHED DETECTION LIMIT VALUES FOR BIOLOGICAL SAMPLES)
AUTHOR: MORGAN, R. CHARLES/ESE
ADDRESSEE: NICKEL, JON C./ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102 * 4070700 * 4070600 * 4070500
MICROFILM ROLL/FRAME NO.: 317/1263 THRU: 317/1268
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MERCURY * ZINC
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160641 DATE: NOV. 24, 1987 PAGE: 2
TITLE: NOTICE OF 75 PERCENT BUDGET EXPENDITURE EAST HELENA SITE
AUTHOR: SCHWING, JAMES E./CH2M HILL
ADDRESSEE: TAUNTON, WANDA/EPA
CC: BROWN * BUNTE * OGG * SELLMAN * CROWE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120201
MICROFILM ROLL/FRAME NO.: 317/1269 THRU: 317/1270
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160643 DATE: NOV. 30, 1987 PAGE: 1
TITLE: (FINAL ACCEPTANCE OF COMPREHENSIVE RI/FS STUDY)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * BUNTE * ROGNESS * BAKER * MCGEEHIN * SPRENGER * JONES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060600 * 1060200
MICROFILM ROLL/FRAME NO.: 317/1271 THRU: 317/1271
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160644 DATE: NOV. 30, 1987 PAGE: 1
TITLE: (RESPONSE TO ALTRINGER NOV. 2, 1987 LETTER CONCERNING SAMPLING AND ACQUISITION OF VOLUMES OF PROCESS PONDS AND MONITORING WELL WATER)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: ALTRINGER, PAULETTE/DOI
CC: FINKE * FOX * NICKEL
QUALIFIER(S): TISSUE COPY * ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2010000
MICROFILM ROLL/FRAME NO.: 317/1272 THRU: 317/1272
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160645 DATE: DEC. 3, 1987 PAGE: 3
TITLE: (TRANSMITS ATTACHED SECOND DRAFT OF BROWN LETTER WHICH REPORTS GROUNDWATER SAMPLE RESULTS TO DOMESTIC WELL OWNERS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1273 THRU: 317/1275
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160648 DATE: DEC. 14, 1987 PAGE: 7
TITLE: (LISTS DETECTION LIMITS FOR EAST HELENA BIOLOGICAL SAMPLES)
AUTHOR: BUNTE, DAVID J./CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BARUTH * NEUMAN * LUCERO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070700 * 4070600 * 4070400
MICROFILM ROLL/FRAME NO.: 317/1276 THRU: 317/1282
KEYWORD(S): LEAD * MERCURY * SILVER * SELENIUM * THALLIUM * VEGETATION
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160655 DATE: DEC. 15, 1987 PAGE: 4
TITLE: (TRANSMITS ATTACHED REM 4 DEC. 1987 SUMMARY STATUS REPORTS NOV. 1987 TO BE DISCUSSED AT DEC. 23, 1987 MEETING)
AUTHOR: SCHWING, JAMES E./CH2M HILL
ADDRESSEE: TAUNTON, WANDA/EPA
CC: OGG
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1283 THRU: 317/1286
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160659 DATE: DEC. 21, 1987 PAGE: 1
TITLE: (FOLLOW-UP TO DEC. 17, 1987 MEETING DISCUSSING ADMINISTRATIVE ORDER AND PROPOSED AMENDMENTS TO ASARCO AO)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: DRYNAN, JOHN/MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1287 THRU: 317/1287
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160660 DATE: DEC. 22, 1987 PAGE: 3
TITLE: (REVIEW OF COMMENTS FROM CH2M HILL REGARDING ATTACHED DETECTION LIMITS IN BIOLOGICAL SAMPLES AND LISTS ACCEPTABLE DOSE VALUES)
AUTHOR: MORGAN, R. CHARLES/ESE
ADDRESSEE: NICKEL, JON C./ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102
MICROFILM ROLL/FRAME NO.: 317/1288 THRU: 317/1290
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * MERCURY * SILVER * MANGANESE * SELENIUM * THALLIUM * ANTIMONY
NOTES: UPDATE 02

FILE: 1170606 DOCNO: 0160663 DATE: DEC. 23, 1987 PAGE: 2
TITLE: (TRANSMITS ATTACHED TENTATIVE AGENDA FOR CHEMICAL MASS BALANCE MEETING)
AUTHOR: RAISCH, BOB/MDHES
ADDRESSEE: INTERESTED PERSONS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010200 * 1140000
MICROFILM ROLL/FRAME NO.: 317/1291 THRU: 317/1292
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160665 DATE: JAN. 4, 1988 PAGE: 6
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 20
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1293 THRU: 317/1298
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160671 DATE: JAN. 4, 1988 PAGE: 1
TITLE: (TRANSMITS DRAFT WORK PLAN WITH ERRATA DOCUMENTS, LETTER OF ACCEPTANCE AND SPRENGER COMMENTS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPRENGER, LES
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060200
MICROFILM ROLL/FRAME NO.: 317/1299 THRU: 317/1299
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160672 DATE: JAN. 7, 1988 PAGE: 3
TITLE: (TRANSMITS ATTACHED PAGE 5-45 OF DRAFT SECOND REPORT TO CONGRESS ON SOLID WASTE FROM PROCESSING OF SELECTED ORES AND MINERALS)
AUTHOR: MERNITZ, SCOTT/CDM
ADDRESSEE: BROWN, SCOTT/EPA
CC: WALLINE * HAYENS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1150000
MICROFILM ROLL/FRAME NO.: 317/1300 THRU: 317/1302
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160675 DATE: JAN. 7, 1988 PAGE: 10
TITLE: (TRANSMITS ATTACHED LIST OF SEARCHES RUN DURING FISCAL YEAR 1987 EPA TOXIC SUBSTANCES BRANCH)
AUTHOR: YORKE, C. ALVIN/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060704
MICROFILM ROLL/FRAME NO.: 317/1303 THRU: 317/1312
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160685 DATE: JAN. 8, 1988 PAGE: 3
TITLE: (DISCUSSES LEGAL AUTHORITY TO TAKE HAZARDOUS WASTE ACTIONS ANALOGOUS TO FEDERAL ENFORCEMENT ACTIONS)
AUTHOR: SPEICHER, THOMAS A./EPA
ADDRESSEE: DRYNAN, JOHN J./MDHES
CC: GREELEY * CROWLEY * DUPREY * WARDELL * METCALF * CALLAWAY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1130100
MICROFILM ROLL/FRAME NO.: 317/1313 THRU: 317/1315
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160688 DATE: JAN. 11, 1988 PAGE: 2
TITLE: (TRANSMITS ATTACHED ASARCO DETECTION LIMIT VALUES FOR BIOLOGICAL SAMPLES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1316 THRU: 317/1317
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160690 DATE: JAN. 27, 1988 PAGE: 2
TITLE: (REQUESTS CLARIFICATION ON POINTS BEFORE RESPONDING TO REQUEST FOR FOUND LEGAL COUNSEL OPINION REGARDING CERCLA ANALOGOUS AUTHORITIES)
AUTHOR: CROWLEY, FRANK C./MDHES
ADDRESSEE: SPEICHER, TOM/EPA
CC: DRYNAN * EGGERT * METCALF * SCHUNK * WARDELL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1130100
MICROFILM ROLL/FRAME NO.: 317/1318 THRU: 317/1319
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160692 DATE: JAN. 27, 1988 PAGE: 2
TITLE: REGIONAL MANAGEMENT OF ARCS CONTRACTS
AUTHOR: LONGEST, HENRY L./EPA
ADDRESSEE: REGIONAL DIRECTORS/EPA
CC: SUPERFUND BRANCH CHIEFS/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120302
MICROFILM ROLL/FRAME NO.: 317/1320 THRU: 317/1321
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160694 DATE: JAN. 28, 1988 PAGE: 17
TITLE: (TRANSMITS ATTACHED PRELIMINARY LIST OF ARARS THAT MAY APPLY TO EAST HELENA)
AUTHOR: ROGNESS, DOUG/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
CC: EGGERT * NICKEL * BUNTE * MILLER
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1050100
MICROFILM ROLL/FRAME NO.: 317/1322 THRU: 317/1338
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160711 DATE: FEB. 9, 1988 PAGE: 5
TITLE: (TRANSMITS ATTACHED UPDATED REPORT OF SUPERFUND ACTIVITIES FOR EAST HELENA RESIDENTS FOR REVIEW)
AUTHOR: (BROWN), SCOTT/EPA
ADDRESSEE: (NICKEL) JON/ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):1010200
MICROFILM ROLL/FRAME NO.: 317/1339 THRU: 317/1343
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160716 DATE: FEB. 16, 1988 PAGE: 2
TITLE: (DISCUSSES PERSONS WHICH MAY PROVIDE ASSISTANCE INTERPRETING FEDERAL STANDARDS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: KERCHER, RONALD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1344 THRU: 317/1345
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160718 DATE: FEB. 17, 1988 PAGE: 1
TITLE: (TRANSMITS INFORMATION CONCERNING TECHNICAL ASSISTANCE GRANTS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MOORE, LARRY/MAYOR OF EAST HELENA
CC: FINKE * STILES * ROGNESS
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100900
MICROFILM ROLL/FRAME NO.: 317/1346 THRU: 317/1346
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160719 DATE: FEB. 19, 1988 PAGE: 2
TITLE: (LISTS CONCERNS VOICED BY MAYOR MOORE AND COUNCIL MEMBERS ABOUT EPA AND SUPERFUND PROCESS DURING EAST HELENA COUNCIL MEETING)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: WARDELL, JOHN F./EPA
CC: MOORE * FINKE * ROGNESS * STILES * MORENO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1347 THRU: 317/1348
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160721 DATE: FEB. 19, 1988 PAGE: 2
TITLE: (LISTS INTERACTIONS THAT TOOK PLACE DURING FEB. 17, 1987 ARARS WORK GROUP MEETING)
AUTHOR: BISHOP, MIKE/EPA
ADDRESSEE: TETER, JONI/EPA
CC: CALLAWAY * CRANE * FINKE * RPMS * TAUNTON
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1050200
MICROFILM ROLL/FRAME NO.: 317/1349 THRU: 317/1350
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160723 DATE: FEB. 22, 1988 PAGE: 2
TITLE: (CHEMICAL MASS BALANCE WORKSHOP LIST OF ATTENDEES, PROGRAM AND ACTION)
AUTHOR: RAISCH, BOB
ADDRESSEE: INTERESTED PARTIES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010200
MICROFILM ROLL/FRAME NO.: 317/1351 THRU: 317/1352
NOTES: UPDATE 02

FILE: 1170701 DOCNO: 0160725 DATE: FEB. 23, 1988 PAGE: 20
TITLE: (TRANSMITS ATTACHED THIRD QUARTER 1987 EAST HELENA CHEMICAL MASS BALANCE RESULTS)
AUTHOR: RAISCH, BOB
ADDRESSEE: FILES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/1353 THRU: 317/1372
KEYWORD(S): ZINC * ARSENIC * LEAD * COPPER
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160745 DATE: APR. 1, 1988 PAGE: 4
TITLE: (TRANSMITS COMPREHENSIVE PRELIMINARY FS AND TABULATION OF PROCESS FLUID SAMPLING DATA)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070401 * 2030400
MICROFILM ROLL/FRAME NO.: 317/1373 THRU: 317/1376
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160749 DATE: APR. 4, 1988 PAGE: 2
TITLE: (DISCUSSES PLANS TO SAMPLE FISH FROM LAKE HELENA FOR HEAVY METALS CONTAMINATION)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: STOLLER, LARRY/STOLLERS SPIRIT LAKE FISHERY
CC: FINKE * MORENO * ROGNESS * BUNTE * GRASTEIT
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 317/1377 THRU: 317/1378
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160751 DATE: APR. 4, 1988 PAGE: 1
TITLE: (TRANSMITS FS OUTLINE AND CHECK LIST)
AUTHOR: ROGNESS, DOUG/MDHES
ADDRESSEE: NICKEL, JON/ASARCO
CC: BROWN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 317/1379 THRU: 317/1379
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160752 DATE: APR. 4, 1988 PAGE: 2
TITLE: (ACKNOWLEDGES RECEIPT OF COMPREHENSIVE PRELIMINARY FS, ASARCO INC., EAST HELENA, MONTANA, PHASE 1 AND SUMMARY OF PROCESS FLUID SAMPLING DATA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * ROGNESS * BUNTE * MILLER
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070401 * 2030400
MICROFILM ROLL/FRAME NO.: 317/1380 THRU: 317/1381
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160754 DATE: APR. 6, 1988 PAGE: 1
TITLE: (TRANSMITS DRAFT LIST OF REGULATIONS FOR REVIEW BY STATE AGENCIES FOR FINALIZATION)
AUTHOR: ROGNESS, DOUG/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * BUNTE * MILLER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1050100
MICROFILM ROLL/FRAME NO.: 317/1382 THRU: 317/1382
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160755 DATE: APR. 12, 1988 PAGE: 3
TITLE: (DISCUSSES COMPILATION OF STATE AUTHORITIES AND CERTIFICATION)
AUTHOR: EGGERT, TOM/MDHES
ADDRESSEE: MORENO, SANDRA/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1130100
MICROFILM ROLL/FRAME NO.: 317/1383 THRU: 317/1385
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160758 DATE: APR. 20, 1988 PAGE: 2
TITLE: (TRANSMITS COMPREHENSIVE RI/FS PLAN, ASARCO., EAST HELENA PLANT AND COMPREHENSIVE PRELIMINARY FS, ASARCO, EAST HELENA, MONTANA, PHASE 1)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: STEGER, MARK J./ROOKS, PITTS AND POUST
CC: PORTER * NICKEL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * CONCURRENCE COPY ATTACHED * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1160000
MICROFILM ROLL/FRAME NO.: 317/1386 THRU: 317/1387
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160760 DATE: APR. 22, 1988 PAGE: 3
TITLE: (TRANSMITS DRAFT REVISED COMMUNITY RELATIONS PLAN; ATTACHED LETTER FROM BROWN TO CASEY)
AUTHOR: CASEY, SEAN/ICF
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SCRIMGEOUR * NULL * BEAN * SCHWING * BUNTE * ZODA
QUALIFIER(S): INCOMPLETE * DRAFT * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 317/1388 THRU: 317/1390
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160763 DATE: APR. 27, 1988 PAGE: 11
TITLE: (REVIEWS COMPREHENSIVE PRELIMINARY FS [APR. 1, 1988]; ATTACHED COMMENTS ON PRELIMINARY FS FROM DOLLHOPF, NEUMAN AND FEAST)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070402
MICROFILM ROLL/FRAME NO.: 317/1391 THRU: 317/1401
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160774 DATE: MAR. 1, 1988 PAGE: 3
TITLE: (DISCUSSES ORD EXPOSURE ASSESSMENT PROCESS FOR WORKSHOPS; ATTACHED APR. 23, 1988 MEMO FROM JOHNSON ANNOUNCING AVAILABILITY OF TRAINING ON SPECIFIC RISK ASSESSMENT RELATED TOPICS)
AUTHOR: PARKER, JEAN/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060701
MICROFILM ROLL/FRAME NO.: 317/1402 THRU: 317/1404
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160777 DATE: MAR. 7, 1988 PAGE: 4
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 21
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1405 THRU: 317/1408
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160781 DATE: MAR. 10, 1988 PAGE: 3
TITLE: (DISCUSSES AND LISTS STATUTORY AUTHORITIES FOR IMPLEMENTATION AND ENFORCEMENT OF RI/FS)
AUTHOR: MORENO, SANDRA R./EPA
ADDRESSEE: EGGERT, TOM/MDHES
CC: WARDELL * FINKE * BROWN * CROWLEY * METCALF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1130100
MICROFILM ROLL/FRAME NO.: 317/1409 THRU: 317/1411
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160784 DATE: MAR. 10, 1988 PAGE: 3
TITLE: (RESPONSE TO JAN. 27, 1988 REQUEST FOR INDEPENDENT LEGAL COUNSEL OPINION ON SCOPE OF LEGAL AUTHORITIES ANALOGOUS TO EPA)
AUTHOR: RISNER, MICHAEL T./EPA
ADDRESSEE: CROWLEY, FRANK/MDHES
CC: DUPREY * WARDELL * METCALF
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1130100
MICROFILM ROLL/FRAME NO.: 317/1412 THRU: 317/1414
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160787 DATE: MAR. 10, 1988 PAGE: 3
TITLE: (TRANSMITS SAMPLE RESULTS, DOCUMENTATION AND DELIVERABLE FOR WATER SAMPLES FROM EAST HELENA OCT. 20 AND DEC. 18, 1987: ATTACHED TABLE OF CONTENTS FOR EAST HELENA WATER RI/FS PHASE 2 DATA PACKAGE FOR WATER)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BOTZ * NICKEL * ROBBINS * STANGA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102
MICROFILM ROLL/FRAME NO.: 317/1415 THRU: 317/1416
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160790 DATE: MAR. 11, 1988 PAGE: 1
TITLE: (DISCUSSES TAG PROGRAM UNDER SARA AND NOTIFICATION OF CONFERENCE ON APR. 7, 1988)
AUTHOR: GEISE, J. WILLIAM/EPA
ADDRESSEE: KERRIGAN, CLOUGH/EPA * DUPREY, ROBERT/EPA * GEISE, BILL/EPA * ALL RPMS/EPA * ALL SECTION CHIEFS/EPA * NICODEMUS, MARTHA/EPA * GOODSELL, BEVERLY/EPA * WARDELL, JOHN/EPA * DOAN, ANN/EPA * MCFADDEN, FRANK/EPA * RODRIGUEZ, BARBARA/EPA * NULL, MARILYN/EPA * SANDRA, DORIS/EPA * METCALF, SHARON/EPA * GEIDT (GIEDT), JOHN/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1100900
MICROFILM ROLL/FRAME NO.: 317/1417 THRU: 317/1417
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160791 DATE: MAR. 16, 1988 PAGE: 4
TITLE: (RESPONSE TO BROWN LETTER RELATING CONCERNS EXPRESSED AT FEB. 16, 1988 COUNCIL MEETING ON POSSIBLE SMELTER CLOSURE AND CLEAN UP CONSIDERATIONS)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: EAST HELENA COUNCIL MEMBERS * MOORE, LARRY/MAYOR OF EAST HELENA
CC: FINKE * BROWN * ROGNESS * STILES * MORENO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1418 THRU: 317/1422
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160795 DATE: MAR. 12, 1988 PAGE: 1
TITLE: (RESPONSE TO LETTER CONCERNING MILLER CAPABILITIES IN DEMONSTRATING GOOD FIELD PROCEDURES)
AUTHOR: BUNTE, DAVID J./CH2M HILL
ADDRESSEE: CUTLER, DIANA C./DNRC
CC: BROWN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120205
MICROFILM ROLL/FRAME NO.: 317/1423 THRU: 317/1423
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160796 DATE: MAR. 24, 1988 PAGE: 3
TITLE: (DISCUSSES COMPILATION OF STATE OF MONTANA AUTHORITIES IN AREA REQUESTED)
AUTHOR: EGGERT, TOM/MDHES
ADDRESSEE: STEIN, BARRY/EPA
CC: WALLACE * KIRLEY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1130100
MICROFILM ROLL/FRAME NO.: 317/1424 THRU: 317/1426
NOTES: UPDATE 02

FILE: 1170702 DOCNO: 0160799 DATE: MAR. 28, 1988 PAGE: 1
TITLE: (TRANSMITS LIST OF PROCESS WATER DATAFILE AND CLP DATA)
AUTHOR: KARP, RICHARD/SYSTEC
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: BUNTE * BROWN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2030400
MICROFILM ROLL/FRAME NO.: 317/1427 THRU: 317/1427
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160800 DATE: MAY 2, 1988 PAGE: 7
TITLE: (EXPRESSES APPRECIATION FOR COOPERATION; TRANSMITS ATTACHED COMMENTS ON COMPREHENSIVE PRELIMINARY FS PHASE 1)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * BAKER * ROGNESS * BUNTE * MILLER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070402
MICROFILM ROLL/FRAME NO.: 317/1428 THRU: 317/1434
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160807 DATE: MAY 5, 1988 PAGE: 1
TITLE: (APPRECIATION FOR COMPLETION OF REVISED COMMUNITY RELATIONS PLAN)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: CASEY, SEAN/ICF
CC: BUNTE * SCRIMGEOUR * STILES * ROGNESS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 317/1435 THRU: 317/1435
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160808 DATE: MAY 5, 1988 PAGE: 1
TITLE: (SCHEDULES FISH SAMPLING AT LAKE HELENA JUN. 1, 1988)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: MILLER * FARMER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 317/1436 THRU: 317/1436
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160809 DATE: MAY 9, 1988 PAGE: 3
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 22
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS * MORENO * BUNTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1437 THRU: 317/1439
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160812 DATE: MAY 9, 1988 PAGE: 1
TITLE: (LISTS INDIVIDUALS INTERESTED IN SERVING ON EAST HELENA SUPERFUND TASK FORCE COMMITTEE)
AUTHOR: MOORE, LARRY D./EAST HELENA MAYOR
ADDRESSEE: STILES, JANE M./MDHES
CC: BROWN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100100
MICROFILM ROLL/FRAME NO.: 317/1440 THRU: 317/1440
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160813 DATE: MAY 10, 1988 PAGE: 1
TITLE: (TRANSMITS REQUESTED MATERIALS FOR SAMPLING PRIVATE WELLS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BUNTE, DAVE/CH2M HILL
CC: NICKEL * BROWN * ROGNESS
QUALIFIER(S): REPRODUCTION * INCOMPLETE * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102
MICROFILM ROLL/FRAME NO.: 317/1441 THRU: 317/1441
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160814 DATE: MAY 11, 1988 PAGE: 1
TITLE: (TRANSMITS LISTING FROM SURFACE AND GROUNDWATER DATA FILES)
AUTHOR: KARP, RICHARD/SYSTEC
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: BUNTE * BROWN
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030400 * 4030400
MICROFILM ROLL/FRAME NO.: 317/1442 THRU: 317/1442
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160815 DATE: MAY 16, 1988 PAGE: 2
TITLE: (TRANSMITS DRAFT REVIEW OF CLP SPLIT RESULTS FOR CATTLE TISSUE, WHEATGRAIN, GARDEN VEGETABLES AND FISH)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070400 * 4070500 * 4070600 * 4070700
MICROFILM ROLL/FRAME NO.: 317/1443 THRU: 317/1444
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160817 DATE: MAY 31, 1988 PAGE: 2
TITLE: COMMENTS ON PHASE 2 DATA PACKAGE FOR ASARCO EAST HELENA SITE
AUTHOR: ROGNESS, DOUG/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 317/1445 THRU: 317/1446
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160819 DATE: JUN. 1, 1988 PAGE: 16
TITLE: (QUESTIONS, ANSWERS AND LIST OF CHEMICALS ON INTEGRATED RISK INFORMATION SYSTEM [IRIS])
AUTHOR: BARNES, A. JAMES
ADDRESSEE: ASSISTANT ADMINISTRATORS * ASSOCIATED ADMINISTRATORS * REGIONAL ADMINISTRATORS * OFFICE DIRECTORS * DIVISION DIRECTORS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060702
MICROFILM ROLL/FRAME NO.: 317/1447 THRU: 317/1462
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160835 DATE: JUN. 3, 1988 PAGE: 2
TITLE: (TRANSMITS ATTACHED COMPLETED FISH DESCRIPTION FORM FROM LAKE HELENA)
AUTHOR: FARMER, PATRICK/WESTECH
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * MILLER
QUALIFIER(S): ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 317/1463 THRU: 317/1464
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160837 DATE: JUN. 3, 1988 PAGE: 1
TITLE: (APPRECIATION FOR ASSISTANCE PROVIDED BY FISHERIES DIVISION IN COLLECTING FISH FROM PRICKLY PEAR CREEK AND LAKE HELENA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: GRAHAM, PATRICK J./MDFWP
CC: ROGNESS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 317/1465 THRU: 317/1465
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160838 DATE: JUN. 7, 1988 PAGE: 13
TITLE: (TRANSMITS ATTACHED JUN. 3, 1988 REVIEW OF ASARCO LABORATORY GARDEN VEGETABLES ANALYSES)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * NEUMAN
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070400
MICROFILM ROLL/FRAME NO.: 317/1466 THRU: 317/1478
KEYWORD(S): MERCURY * TIN * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160851 DATE: JUN .7, 1988 PAGE: 2
TITLE: (TRANSMITS RE-DRAFTED AOC ADDRESSING INCREASED ROLE OF STATE FOR NON-TIME CRITICAL REMOVAL AND RI/FS)
AUTHOR: SCHERER, JAMES J./EPA
ADDRESSEE: DRYNAN, JOHN/MDHES
CC: CROWLEY * DUPREY * WARDELL * SPEICHER
QUALIFIER(S): REPRODUCTION * INCOMPLETE * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1130100
MICROFILM ROLL/FRAME NO.: 317/1479 THRU: 317/1480
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160853 DATE: JUN. 10, 1988 PAGE: 7
TITLE: (TRANSMITS ATTACHED ATSDR PRELIMINARY HEALTH ASSESSMENT AND COMMENTS BY BROWN)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: GEISE, (J. WILLIAM)/EPA
CC: FINKE * MORENO * MCGREEHIN * ROGNESS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060703
MICROFILM ROLL/FRAME NO.: 317/1481 THRU: 317/1488
KEYWORD(S): THALLIUM * LEAD * ZINC * ARSENIC * CADMIUM
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160860 DATE: JUN. 13, 1988 PAGE: 2
TITLE: (TRANSMITS ATTACHED DBASE 3 PLUS FILE FOR ASARCO GARDEN VEGETABLES DATA)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: BROWN, SCOTT/EPA
CC: BUNTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070400
MICROFILM ROLL/FRAME NO.: 317/1489 THRU: 317/1490
KEYWORD(S): SILVER * ARSENIC * CADMIUM * COPPER * MERCURY * MANGANESE * LEAD * ANTIMONY * SELENIUM * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160862 DATE: JUN. 21, 1988 PAGE: 5
TITLE: (RESPONSE TO ATTACHED JUN. 3, 1983 FOIA REQUEST)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: GABRIELSE, RICHARD/PERLAND ENVIRONMENTAL TECHNOLOGIES
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1160000
MICROFILM ROLL/FRAME NO.: 317/1491 THRU: 317/1495
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160867 DATE: JUN. 21, 1988 PAGE: 5
TITLE: RECOMMENDED AGENCY POLICY ON CARCINOGENICITY RISK ASSOCIATED WITH INGESTION OF INORGANIC ARSENIC
AUTHOR: THOMAS, LEE M./EPA
ADDRESSEE: ASSISTANT ADMINISTRATORS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060704
MICROFILM ROLL/FRAME NO.: 317/1496 THRU: 317/1502
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160872 DATE: JUN. 28, 1988 PAGE: 9
TITLE: (ANSWERS TO QUESTION NOT RESOLVED AT PREVIOUS MEETING; ATTACHED ARTICLES CONCERNING MAXIMUM CONTAMINANT LEVELS, NATIONAL AMBIENT AIR QUALITY STANDARDS, AIR POLLUTANT STANDARDS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: PYFER, CLARK/SUPERFUND TASK FORCE * PREBIL, EDWARD * SCHWEYEN, BILL * LINGOHR, SYLVESTER * PALMER, ERIC
CC: FINKE * MORENO * ROGNESS * STILES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100300 * 1140000
MICROFILM ROLL/FRAME NO.: 317/1503 THRU: 317/1511
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160881 DATE: JUN. 29, 1988 PAGE: 1
TITLE: (RECOMMENDATION OF ROBBINS FOR WORK ON EXTRACTION OF METALS FROM EFFLUENTS)
AUTHOR: BISHOP, MIKE/EPA
ADDRESSEE: RPMS/EPA * SPOS/(MDHES)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/1512 THRU: 317/1512
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160882 DATE: JUN. 30, 1988 PAGE: 1
TITLE: (DISCUSSES AMENDING CANCER RISK ASSESSMENT GUIDELINES)
AUTHOR: MOORE, JOHN A./EPA
ADDRESSEE: ASSISTANT ADMINISTRATORS * REGIONAL ADMINISTRATORS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060702
MICROFILM ROLL/FRAME NO.: 317/1513 THRU: 317/1513
NOTES: UPDATE 02

FILE: 1170703 DOCNO: 0160883 DATE: JUN. 30, 1988 PAGE: 1
TITLE: (TRANSMITS PRELIMINARY BUDGETS AND TARGETS FOR FISCAL YEAR 1989)
AUTHOR: LONGEST, HENRY L./EPA * CANNON, JONATHAN/OFFICE OF WASTE PROGRAMS ENFORCEMENT
ADDRESSEE: DIRECTOR, WASTE MANAGEMENT DIVISION/EPA * DIRECTOR, EMERGENCY AND REMEDIAL RESPONSE DIVISION/EPA * DIRECTOR, HAZARDOUS WASTE MANAGEMENT DIVISION/EPA * DIRECTOR, TOXICS AND WASTE MANAGEMENT DIVISION/EPA * DIRECTOR, HAZARDOUS WASTE DIVISION/EPA * DIRECTOR, ENVIRONMENTAL SERVICES DIVISION/EPA
QUALIFIER(S): MARGINALIA * INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1110200
MICROFILM ROLL/FRAME NO.: 317/1514 THRU: 317/1514
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160884 DATE: JUL. 1, 1988 PAGE: 2
TITLE: REQUEST FOR INDEMNIFICATION FOR CH2M HILL WORK AT SBC NPL SITE
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: DRYNAN, JOHN J./MDHES
CC: DEMARINIS * LLOYD * MASON * ELSEN * BROWN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1515 THRU: 317/1516
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160886 DATE: JUL. 5, 1988 PAGE: 8
TITLE: (TRANSMITS ATTACHED JUN. 29, 1988 REVIEW OF ASARCO LABORATORY ANALYSES)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * NEUMAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 317/1517 THRU: 317/1524
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160894 DATE: JUL. 5, 1988 PAGE: 3
TITLE: (SUMMARY OF JUN. 15, 1988 MEETING OF EAST HELENA CITIZENS TASKS FORCE; ATTACHED TRANSMITTAL SLIP FROM STILES)
AUTHOR: STILES, JANE M./MDHES
ADDRESSEE: EAST HELENA TASK FORCE MEMBER
CC: ROGNESS * BROWN * NICKEL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100100
MICROFILM ROLL/FRAME NO.: 317/1525 THRU: 317/1527
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160897 DATE: JUL. 6, 1988 PAGE: 2
TITLE: (TRANSMITS LIST OF INSTRUMENTAL DETECTION LIMITS [IDL])
AUTHOR: STANGA, GARY R./ASARCO
ADDRESSEE: RUPP, G./MSI
CC: BROWN * NICKEL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070400 * 4070500
MICROFILM ROLL/FRAME NO.: 317/1528 THRU: 317/1529
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160899 DATE: JUL. 10, 1988 PAGE: 4
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 23
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1530 THRU: 317/1533
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160903 DATE: JUL. 11, 1988 PAGE: 2
TITLE: TECHNICAL MEMORANDUM PHASE 2 EAST HELENA RI VEGETABLE DATA VALIDATION
AUTHOR: WEED, REBECCA/MSI DETOXIFICATION
ADDRESSEE: NICKEL, JON/ASARCO * BROWN, SCOTT/EPA * BUNTE, DAVE/CH2M HILL * STANGA, GARY/ASARCO * KELLER, VINCE/ASARCO * NEUMAN, DENNIS/MSU * MILLER, BOB/HYDROMETRICS * ROGNESS, DOUG/MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070400
MICROFILM ROLL/FRAME NO.: 317/1534 THRU: 317/1535
KEYWORD(S): MERCURY * CADMIUM
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160905 DATE: JUL. 14, 1988 PAGE: 3
TITLE: (TRANSMITS ATTACHED ASARCO GARDEN VEGETABLE DATA)
AUTHOR: BROWN, SCOTT/(EPA)
ADDRESSEE: BAKER, JIM/(EPA)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * HANDWRITTEN * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070400
MICROFILM ROLL/FRAME NO.: 317/1536 THRU: 317/1538
KEYWORD(S): ARSENIC * SILVER * CADMIUM * COPPER * MERCURY * MANGANESE * LEAD * ANTIMONY * SELENIUM * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160908 DATE: JUL. 22, 1988 PAGE: 1
TITLE: (NOTIFICATION RISK ASSESSMENT FORUM [RAF] HAS REVIEWED AVAILABLE TOXICITY INFORMATION FOR ARSENIC AND NEW CANCER POTENCY FACTOR INGESTION OF ARSENIC HAS BEEN RECOMMENDED)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060704
MICROFILM ROLL/FRAME NO.: 317/1539 THRU: 317/1539
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160909 DATE: JUL. 25, 1988 PAGE: 6
TITLE: (TRANSMITS ATTACHED PRELIMINARY HEALTH ASSESSMENT FOR EAST HELENA, EAST HELENA MONTANA, JUL. 11, 1988)
AUTHOR: MCGEEHIN, MICHAEL A./ATSDR
ADDRESSEE: GEISE, BILL/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060702
MICROFILM ROLL/FRAME NO.: 317/1540 THRU: 317/1545
KEYWORD(S): GROUNDWATER * ARSENIC * CADMIUM * LEAD * CHROMIUM * COPPER * IRON * SOIL
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160915 DATE: JUL. 26, 1988 PAGE: 1
TITLE: (REQUEST FOR COMMENTS TO ADMINISTRATIVE ORDER)
AUTHOR: MORENO, SANDRA R./EPA
ADDRESSEE: EGGERT, TOM/MDHES
CC: WARDELL * BROWN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1546 THRU: 317/1546
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160916 DATE: JUL. 27, 1988 PAGE: 1
TITLE: (EXPRESSES APPRECIATION FOR SENDING RI DOCUMENTS)
AUTHOR: DAVIDSON, ANNE/ARNOLD AND PORTER
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1547 THRU: 317/1547
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160917 DATE: JUL. 29, 1988 PAGE: 14
TITLE: (TRANSMITS ATTACHED REVIEW COMMENTS BY MSU OF ASARCO LABORATORY ANALYSES)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NEUMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070400 * 1070103
MICROFILM ROLL/FRAME NO.: 317/1548 THRU: 317/1561
KEYWORD(S): ARSENIC * CADMIUM
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160931 DATE: AUG. 2, 1988 PAGE: 2
TITLE: ARSENIC EXPOSURE ASSUMPTION FOR TACOMA ERA
AUTHOR: FORBA, RUSS/EPA
ADDRESSEE: FILE
CC: BISHOP * WEINSTOCK
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060704 * 1150000
MICROFILM ROLL/FRAME NO.: 317/1562 THRU: 317/1563
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160933 DATE: AUG. 2, 1988 PAGE: 6
TITLE: REVIEW OF ASARCO SOIL SAMPLE DATA COLLECTED APR. 22 - MAY 6, 1987
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BUNTE, DAVE/CH2M HILL
QUALIFIER(S): REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA *
ADMINISTRATIVE RECORD
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 317/1564 THRU: 317/1569
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * MANGANESE * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160939 DATE: AUG. 2, 1988 PAGE: 12
TITLE: (RESULTS OF TOTAL METALS IN SOIL LAB 88-101 TO 88-147; 88-148 TO 88-209 AND 88-280 TO 88-391)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BUNTE, DAVE/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 317/1570 THRU: 317/1581
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * MANGANESE * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160951 DATE: AUG. 5, 1988 PAGE: 1
TITLE: (REQUESTS ASSESSMENT OF THE TOXICITY OF ARSENIC, CADMIUM, LEAD AND ZINC IN SOIL, PLANTS AND LIVESTOCK IN THE HELENA VALLEY AND ASSESSMENT OF THE TOXICITY OF COPPER, MERCURY, SELENIUM, SILVER AND THALLIUM IN SOILS AND PLANTS IN THE HELENA VALLEY)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060708
MICROFILM ROLL/FRAME NO.: 317/1582 THRU: 317/1582
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160952 DATE: AUG. 5, 1988 PAGE: 6
TITLE: REVIEW OF ASARCO DATA WATER SAMPLES COLLECTED MAR. 16 - APR. 15, 1987)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BUNTE, DAVE/CH2M HILL
QUALIFIER(S): REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA *
ADMINISTRATIVE RECORD
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 317/1583 THRU: 317/1588
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160958 DATE: AUG. 8, 1988 PAGE: 1
TITLE: (TRANSMITS WILSON DITCH RISK ASSESSMENT)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060702 * 4070800
MICROFILM ROLL/FRAME NO.: 317/1589 THRU: 317/1589
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160959 DATE: AUG. 8, 1988 PAGE: 13
TITLE: REVIEW OF ASARCO DATA WATER SAMPLES COLLECTED DEC. 30, 1986 - FEB. 20, 1987
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BUNTE, DAVE/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 317/1590 THRU: 317/1602
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160972 DATE: AUG. 9, 1988 PAGE: 3
TITLE: (TRANSMITS INDEPENDENT LEGAL COUNSEL STATEMENT)
AUTHOR: CROWLEY, FRANK C./MDHES
ADDRESSEE: SPEICHER, THOMAS A./EPA
CC: DRYNAN * SCHUNK
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1130100
MICROFILM ROLL/FRAME NO.: 317/1603 THRU: 317/1605
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160975 DATE: AUG. 10, 1988 PAGE: 6
TITLE: REVIEW OF ASARCO DATA SEQUENTIAL EXTRACTIONS OF SOIL SAMPLES COLLECTED OCT. 21 - NOV. 26, 1986
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BUNTE, DAVE/CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 317/1606 THRU: 317/1611
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160981 DATE: AUG. 23, 1988 PAGE: 2
TITLE: (TRANSMITS REVIEW OF ASARCO LABORATORY SOIL AND WATER ANALYSES)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * NEUMAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 317/1612 THRU: 317/1613
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160983 DATE: AUG. 24, 1988 PAGE: 6
TITLE: (QUESTIONS AND COMMENTS CONCERNING DRAFT RISK ASSESSMENT REPORT FOR WILSON DITCH)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * ROGNESS * BUNTE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060702 * 4070800
MICROFILM ROLL/FRAME NO.: 317/1614 THRU: 317/1619
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0160989 DATE: AUG. 26, 1988 PAGE: 26
TITLE: (TRANSMITS ATTACHED CH2M HILL REVIEW OF ASARCO LABORATORY SOIL ANALYSES DATA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * ROGNESS * BUNTE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * MARGINALIA * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030300 * 2020000 * 4070400
MICROFILM ROLL/FRAME NO.: 317/1620 THRU: 317/1645
KEYWORD(S): ARSENIC * GROUNDWATER * LEAD
NOTES: UPDATE 02

FILE: 1170704 DOCNO: 0161015 DATE: AUG. 26, 1988 PAGE: 8
TITLE: (RESPONSE TO COMMENTS ON WILSON DITCH RISK ASSESSMENT; ATTACHED CALCULATIONS AND TABLES ON SOIL INGESTION)
AUTHOR: MORGAN, R. CHARLES/ESE
ADDRESSEE: NICKEL, JON C./ASARCO
CC: KOUNTZMAN * TUCKER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070800 * 1060702
MICROFILM ROLL/FRAME NO.: 317/1646 THRU: 317/1653
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SEDIMENTS
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161023 DATE: SEP. 1, 1988 PAGE: 7
TITLE: (NOTICE OF SEP. 7, 1988 TASK FORCE MEETING; ATTACHED NOTES FROM AUG. 31, 1988 MEETING WITH TASK FORCE AND GARDEN ORDERS TO FURTHER EXPLAIN UPCOMING MEETING; ATTACHED MAILING LIST OF TASK FORCE MEMBERS)
AUTHOR: STILES, JANE M./MDHES
ADDRESSEE: PREBIL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100100 * 1100300
MICROFILM ROLL/FRAME NO.: 317/1654 THRU: 317/1660
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161030 DATE: SEP. 1, 1988 PAGE: 1
TITLE: (NOTIFICATION RISK ASSESSMENT FOR WILSON DITCH IN EAST HELENA AND COMMENT LETTER SENT TO NICKEL HAVE BEEN REVIEWED)
AUTHOR: ROGNESS, DOUG/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070800 * 1060702
MICROFILM ROLL/FRAME NO.: 317/1661 THRU: 317/1661
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161031 DATE: SEP. 8, 1988 PAGE: 3
TITLE: (NOTE CONCERNING USE OF ARC MONEY)
AUTHOR: KATHY
ADDRESSEE: SCOTT
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1120301
MICROFILM ROLL/FRAME NO.: 317/1662 THRU: 317/1664
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161033 DATE: SEP. 8, 1988 PAGE: 5
TITLE: (TRANSMITS ATTACHED INFORMATION RECEIVED FROM CDM/FPC REGARDING TES 3 CONTRACTUAL REQUIREMENTS; ADDRESSEE LIST ATTACHED)
AUTHOR: MARQUEZ, S. J./EPA
ADDRESSEE: RPMS
CC: TAUNTON * GEISE * LEVENE * SCHALLER * SILVERNALE * FINKE * HANLEY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120400
MICROFILM ROLL/FRAME NO.: 317/1665 THRU: 317/1669
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161038 DATE: SEP. 9, 1988 PAGE: 4
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 24
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1670 THRU: 317/1673
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161042 DATE: SEP. 12, 1988 PAGE: 2
TITLE: (TRANSMITS NEUMAN COMMENTS CONCERNING SOIL AND WATER QUALITY DATA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * ROGNESS * BUNTE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 317/1674 THRU: 317/1675
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161044 DATE: SEP. 12, 1988 PAGE: 3
TITLE: (TRANSMITS ATTACHED SEP. 7, 1988 REVIEW BY NEUMAN ON ASARCO REANALYSIS OF SOIL SAMPLES FOR CADMIUM; ATTACHED DATA VALIDATION CHECKLIST)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * NEUMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 317/1676 THRU: 317/1678
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161047 DATE: SEP. 14, 1988 PAGE: 4
TITLE: (TRANSMITS DATA VALIDATION AND REDUCTION REPORT ASARCO EAST HELENA PHASE 2 RI SOILS DATA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): MARGINALIA * INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030400 * 1070202
MICROFILM ROLL/FRAME NO.: 317/1679 THRU: 317/1682
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161051 DATE: SEP. 19, 1988 PAGE: 3
TITLE: (TRANSMITS AND DISCUSSES ATTACHED SEP. 15, 1988 MEMO CONCERNING EVALUATION OF POTENTIAL REMEDIAL ACTIONS AND STARS APPLICABILITY TO BARREN SOILS EAST OF SMELTER)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * NEUMAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1090200
MICROFILM ROLL/FRAME NO.: 317/1683 THRU: 317/1685
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161054 DATE: SEP. 19, 1988 PAGE: 4
TITLE: (COMMENTS ON AND CONCURS WITH PRELIMINARY HEALTH ASSESSMENT FOR EAST HELENA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MCGEEHIN, MICHAEL/EPA
CC: WARDELL * GEISE * FINKE * MORENO * ROGNESS * KICERA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * CONCURRENCE COPY ATTACHED * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060703
MICROFILM ROLL/FRAME NO.: 317/1686 THRU: 317/1689
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161058 DATE: SEP. 20, 1988 PAGE: 7
TITLE: (TRANSMITS ATTACHED TABLE SUMMARIZING ANALYSIS WHICH ASARCO LAB PERFORMED ON GARDEN VEGETABLES SAMPLES)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: GARDEN OWNERS
CC: FINKE * MORENO * ROGNESS * STILES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY ATTACHED * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070400
MICROFILM ROLL/FRAME NO.: 317/1690 THRU: 317/1696
KEYWORD(S): SILVER * ARSENIC * CADMIUM * COPPER * MERCURY * MANGANESE * LEAD * SELENIUM * ANTIMONY * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161064 DATE: SEP. 21, 1988 PAGE: 2
TITLE: (TRANSMITS ATTACHED REQUESTED LIST OF 1987 EAST HELENA SOIL SAMPLING SITES)
AUTHOR: CRAYTON, ROBERT F./WESTON
ADDRESSEE: NICKEL, JON C./ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1697 THRU: 317/1698
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161066 DATE: SEP. 22, 1988 PAGE: 1
TITLE: (NOTICE OF SEP. 29-30, 1988 EPA AND ASARCO MEETING TO DISCUSS PROPOSED ADMINISTRATIVE ORDER REGARDING EAST HELENA)
AUTHOR: MORENO, SANDRA R./EPA
ADDRESSEE: PORTER, BILL/AMERICAN CHEMET * LAKE, CLIFTON A./ROOKS, PITTS AND POUST * DENT, ROBERT L./AMC
CC: BROWN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1699 THRU: 317/1699
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161067 DATE: SEP. 23, 1988 PAGE: 4
TITLE: (TRANSMITS SEP. 1988 REPORT DATA VALIDATION AND REDUCTION REPORT ASARCO EAST HELENA PHASE 2 RI GARDEN VEGETABLE DATA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070400 * 4030400
MICROFILM ROLL/FRAME NO.: 317/1700 THRU: 317/1703
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161071 DATE: SEP. 27, 1988 PAGE: 4
TITLE: SECOND PHASE OF FINAL CONTROL PLAN FOR ORE PROPORTIONING AND STORAGE ACTIVITIES
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: RAISCH, ROBERT W./MDHES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):6010000 * 1020101
MICROFILM ROLL/FRAME NO.: 317/1704 THRU: 317/1707
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161075 DATE: SEP. 28, 1988 PAGE: 1
TITLE: (DISCUSSES CONCLUSIONS IN PRELIMINARY RISK ASSESSMENT REPORT WILSON DITCH EAST HELENA, MONTANA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300 * 4070800
MICROFILM ROLL/FRAME NO.: 317/1708 THRU: 317/1708
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161076 DATE: SEP. 28, 1988 PAGE: 1
TITLE: (NOTICE ESE HAS COMPLETED PRELIMINARY RISK ASSESSMENT FOR WILSON DITCH)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070800 * 4030300
MICROFILM ROLL/FRAME NO.: 317/1709 THRU: 317/1709
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161077 DATE: SEP. 29, 1988 PAGE: 1
TITLE: (TRANSMITS FINAL ENDANGERMENT ASSESSMENT REPORT)
AUTHOR: BRADFORD, JAMES L./BLACK AND VEATCH
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROSE * BRADLEY * SNYDER
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060700 * 4070800 * 4030300
MICROFILM ROLL/FRAME NO.: 317/1710 THRU: 317/1710
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161078 DATE: SEP. 29, 1988 PAGE: 3
TITLE: (TRANSMITS AND BRIEF DISCUSSES DRAFT PRELIMINARY RISK ASSESSMENT REPORT VEGETABLE CONSUMPTION EAST HELENA SUPERFUND SITE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300 * 4070400
MICROFILM ROLL/FRAME NO.: 317/1711 THRU: 317/1713
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161081 DATE: OCT. 4, 1988 PAGE: 3
TITLE: (TRANSMITS AND DISCUSSES SEP. 1988 REPORT COMPARABILITY OF THE 1983 MDHES/CDC AND 1987 ASARCO SOIL DATA SETS ASARCO EAST HELENA, MONTANA RI/FS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 317/1714 THRU: 317/1716
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161084 DATE: OCT. 4, 1988 PAGE: 3
TITLE: (TRANSMITS COMPARABILITY OF THE 1983 MDHES/CDC AND 1987 ASARCO SOIL DATA SETS ASARCO EAST HELENA, MONTANA RI/FS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300 * 4070200
MICROFILM ROLL/FRAME NO.: 317/1717 THRU: 317/1719
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161087 DATE: OCT. 5, 1988 PAGE: 10
TITLE: (TRANSMITS SEP. 26, 1988 MEMO FROM HARVEY/WESTON REGARDING ORIGIN OF TRIGGER LEVELS FOR METALS IN BEEF; CATTLE TISSUE SAMPLING)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600 * 1060800
MICROFILM ROLL/FRAME NO.: 317/1720 THRU: 317/1729
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161097 DATE: OCT. 5, 1988 PAGE: 10
TITLE: (TRANSMITS AND DISCUSSES ATTACHED SEP. 26, 1988 MEMO FROM HARVEY CONCERNING ORIGIN OF TRIGGER LEVELS FOR METALS IN BEEF; CATTLE TISSUE SAMPLING)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 317/1730 THRU: 317/1739
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161106 DATE: OCT. 6, 1988 PAGE: 1
TITLE: (TRANSMITS INDEX OF EPA GUIDANCE DOCUMENTS)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: JON
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1740 THRU: 317/1740
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161107 DATE: OCT. 11, 1988 PAGE: 1
TITLE: (TRANSMITS ASSESSMENT OF POTENTIAL EXPOSURE PATHWAYS OF METAL CONTAMINANTS FROM MIGRATORY WATERFOWL AT UPPER LAKE TO HUMAN RECEPTORS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS * NICKEL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2030300
MICROFILM ROLL/FRAME NO.: 317/1741 THRU: 317/1741
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161108 DATE: OCT. 8, 1988 PAGE: 4
TITLE: REVIEW OF ASARCO/WESTON EAST HELENA SOIL DATA VALIDATION AND REDUCTION REPORT (TRANSMITS ATTACHED NEUMAN SEP. 1988 REVIEW OF DATA VALIDATION AND REDUCTION REPORT)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * NEUMAN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 317/1742 THRU: 317/1745
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161112 DATE: OCT. 11, 1988 PAGE: 1
TITLE: (TRANSMITS ASSESSMENT OF POTENTIAL EXPOSURE PATHWAYS OF METAL CONTAMINANTS FROM MIGRATORY WATERFOWL AT UPPER LAKE TO HUMAN RECEPTORS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS * NICKEL
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060800
MICROFILM ROLL/FRAME NO.: 317/1746 THRU: 317/1746
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161113 DATE: OCT. 12, 1988 PAGE: 1
TITLE: (TRANSMITS DESCRIPTION OF MDHES CHEMISTRY LAB PROCEDURE FOR ANALYSIS OF HI-VOL AND PM-10 AIR QUALITY SAMPLES)
AUTHOR: ROGNESS, DOUG/MDHES
ADDRESSEE: NICKEL, JON/ASARCO
CC: BROWN * BUNTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1747 THRU: 317/1747
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161114 DATE: OCT. 14, 1988 PAGE: 5
TITLE: (TRANSMITS AND COMMENTS ON DATA VALIDATION SUMMARY FOR ASARCO EAST HELENA RI/FS ASARCO, INC. EAST HELENA, MONTANA; ATTACHED TRANSMITTAL SLIP FROM BROWN TO BUNTE)
AUTHOR: MASON, SCOTT/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * DAVIS * ROBBINS * STANGA * HART * MORRISON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102
MICROFILM ROLL/FRAME NO.: 317/1748 THRU: 317/1752
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161119 DATE: OCT. 14, 1988 PAGE: 4
TITLE: (TRANSMITS AND COMMENTS ON OCT. 14, 1989 DATA VALIDATION SUMMARY FOR THE ASARCO EAST HELENA RI/FS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * DAVIS * ROBBINS * STANGA * HART * MORRISON
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070202
MICROFILM ROLL/FRAME NO.: 317/1753 THRU: 317/1756
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161123 DATE: OCT. 17, 1988 PAGE: 5
TITLE: (TRANSMITS ATTACHED MEMOS REVIEWING ASARCO/LIVESTOCK EAST HELENA SOIL DATA VALIDATION AND REDUCTION REPORT; STATEMENT OF CONCURRENCE WITH RECOMMENDATIONS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * ROGNESS * BUNTE
QUALIFIER(S): CONCURRENCE COPY * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030400
MICROFILM ROLL/FRAME NO.: 317/1757 THRU: 317/1761
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161128 DATE: OCT. 17, 1988 PAGE: 5
TITLE: (TRANSMITS ATTACHED MEMOS CONTAINING REVIEW COMMENTS ON SEP. 1988 DATA VALIDATION AND REDUCTION REPORT)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * ROGNESS * BUNTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030200 * 1120201 * 4070200 * 4070300
MICROFILM ROLL/FRAME NO.: 317/1762 THRU: 317/1766
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161133 DATE: OCT. 18, 1988 PAGE: 1
TITLE: (TRANSMITS SECTION 6.0 AND 7.0 OF BASELINE EXPOSURE ASSESSMENT AND RISK CHARACTERIZATION OF RUSTON/VASHON ISLAND, WASHINGTON AREA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * ROGNESS * BUNTE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070800 * 4030300
MICROFILM ROLL/FRAME NO.: 317/1767 THRU: 317/1767
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161134 DATE: OCT. 18, 1988 PAGE: 2
TITLE: (TRANSMITS ATTACHED SUMMARY OF COMMENTS OF BARUTH AND BUNTE/CH2M HILL REVIEW OF ASARCO SEP. 1988 PRELIMINARY RISK ASSESSMENT FOR WILSON DITCH)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * BARUTH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120201 * 4070800 * 4030300
MICROFILM ROLL/FRAME NO.: 317/1768 THRU: 317/1769
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161136 DATE: OCT. 18, 1988 PAGE: 1
TITLE: (TRANSMITS FINAL DRAFT OF REVISED EAST HELENA COMMUNITY RELATIONS PLAN)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * STILES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * INCOMPLETE * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):1100500 * 1120201
MICROFILM ROLL/FRAME NO.: 317/1770 THRU: 317/1770
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161137 DATE: OCT. 8, 1988 PAGE: 1
TITLE: (TRANSMITS SECTION 6.0 OF BASELINE EXPOSURE ASSESSMENT AND SECTION 7.0 OF BASELINE RISK CHARACTERIZATION)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * ROGNESS * BUNTE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * INCOMPLETE * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070800 * 4030300
MICROFILM ROLL/FRAME NO.: 317/1771 THRU: 317/1771
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161138 DATE: OCT. 21, 1988 PAGE: 4
TITLE: (TRANSMITS ATTACHED OCT. 20, 1988 MEMO FROM BARUTH TO BUNTE REGARDING COMMENTS ON VEGETABLE RISK ASSESSMENT FOR EAST HELENA)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * BARUTH
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070400 * 4030300
MICROFILM ROLL/FRAME NO.: 317/1772 THRU: 317/1775
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161142 DATE: OCT. 21, 1988 PAGE: 4
TITLE: (TRANSMITS ATTACHED OCT. 20, 1988 COMMENTS BY BARUTH ON ASARCO GARDEN VEGETABLE DRAFT PRELIMINARY RISK ASSESSMENT)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * BARUTH
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070400 * 4030300
MICROFILM ROLL/FRAME NO.: 317/1776 THRU: 317/1779
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161146 DATE: OCT. 24, 1988 PAGE: 1
TITLE: (TRANSMITS AGENDA FOR NOV. 15, 1988 EAST HELENA SIP MEETING; LETTER TO GOVERNOR SCHWINDEN PROVIDING OFFICIAL NOTICE EPA IS REQUIRING MONTANA TO REVISE EAST HELENA SIP; PROTOCOL FOR REVISING EAST HELENA SIP; RULES AND REGULATIONS FROM FEDERAL REGISTER)
AUTHOR: RAISCH, BOB/MDHES
ADDRESSEE: ROGNESS, DOUG/MDHES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1780 THRU: 317/1780
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161147 DATE: OCT. 25, 1988 PAGE: 4
TITLE: (TRANSMITS ATTACHED NEUMAN REVIEW COMMENTS ON ASARCO/WESTON EAST HELENA GARDEN VEGETABLE VALIDATION AND REDUCTION REPORT)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * NEUMAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070400
MICROFILM ROLL/FRAME NO.: 317/1781 THRU: 317/1784
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161151 DATE: OCT. 25, 1988 PAGE: 4
TITLE: (TRANSMITS ATTACHED NEUMAN REVIEW OF DATA VALIDATION AND REDUCTION REPORT: ASARCO EAST HELENA PHASE 2 RI GARDEN VEGETABLE DATA SEP. 1988)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * NEUMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120201 * 4030300 * 4070400
MICROFILM ROLL/FRAME NO.: 317/1785 THRU: 317/1788
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161155 DATE: OCT. 26, 1988 PAGE: 1
TITLE: (TRANSMITS DRAFT OF AOC FOR ASARCO EAST HELENA)
AUTHOR: MORENO, SANDRA R./EPA
ADDRESSEE: CINDY/HOLLAND AND HART
CC: EGGERT
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1789 THRU: 317/1789
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161156 DATE: OCT. 27, 1988 PAGE: 3
TITLE: (TRANSMITS OCT. 1988 COMPARABILITY STUDY OF THE 1983 MDHES/CDC AND THE 1987 ASARCO EAST HELENA SOIL DATA SETS ASARCO EAST HELENA, MONTANA RI/FS)
AUTHOR: HARVEY, KEVIN C./WESTON
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300 * 4070200
MICROFILM ROLL/FRAME NO.: 317/1790 THRU: 317/1792
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161159 DATE: OCT. 27, 1988 PAGE: 2
TITLE: (TRANSMITS OCT. 1988 REVISED COMMUNITY RELATIONS PLAN, EAST HELENA SUPERFUND SITE, EAST HELENA, MONTANA)
AUTHOR: CASEY, SEAN
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SCRIMGEOUR * LATHROP * STILES * MILLER * BUNTE * CHRISTIANSEN * ZODA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 317/1793 THRU: 317/1794
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161162 DATE: OCT. 28, 1988 PAGE: 1
TITLE: EAST HELENA OVERSIGHT (DOCUMENTATION OF PHONE CONVERSATION OF OCT. 26, 1988 CONCERNING LEVEL OF OVERSIGHT TO BE USED IN FUTURE WATER RESOURCES SAMPLING FOR EAST HELENA SITE)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1120201 * 1060200
NOTES: UPDATE 02

FILE: 1170705 DOCNO: 0161163 DATE: OCT. 31, 1988 PAGE: 1
TITLE: (TRANSMITS EAST HELENA PROCESS POND RI/FS SCHEDULES AND NETWORK)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: FORM
CROSS FILE(S):1060100 * 2040000
MICROFILM ROLL/FRAME NO.: 317/1795 THRU: 317/1795
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161164 DATE: NOV. 3, 1988(E) PAGE: 3
TITLE: (TRANSMITS ATTACHED CHAPTER 6 OF COMMUNITY RELATIONS HANDBOOK)
AUTHOR: PORTER, J. WINSTON/EPA
ADDRESSEE: REGIONAL ADMINISTRATORS
CC: DIAMOND * LONGEST * STANLEY * GUERCI * WYER * FRIEDMAN * UNTERBERGER * FIRESTONE * REGIONAL COUNSELS * WASTE MANAGEMENT DIVISION DIRECTORS/EPA * REGIONAL COMMUNITY RELATIONS COORDINATORS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1101000
MICROFILM ROLL/FRAME NO.: 317/1796 THRU: 317/1798
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161167 DATE: NOV. 3, 1988 PAGE: 1
TITLE: (TRANSMITS VALIDATED EAST HELENA CLP SOILS DATA)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MILLER * HARVEY * NEUMAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: FORM
CROSS FILE(S):4030300 * 1070102
MICROFILM ROLL/FRAME NO.: 317/1799 THRU: 317/1799
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161168 DATE: NOV. 3, 1988 PAGE: 2
TITLE: (DISCUSSES RECOMMENDED PROGRAM FOR CONTINUATION OF WATER RESOURCES MONITORING FOR ASARCO EAST HELENA STUDY AREA; TRANSMITS ATTACHED TABLE OF STANDARD ANALYSES FOR INORGANIC PARAMETERS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2030400 * 3030400 * 4030400
MICROFILM ROLL/FRAME NO.: 317/1800 THRU: 317/1801
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161170 DATE: NOV. 7, 1988 PAGE: 2
TITLE: (TRANSMITS REVISED DATA VALIDATION AND REDUCTION REPORT, ASARCO EAST HELENA PHASE 2 RI SOILS DATA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030400 * 4070300 * 4070200 * 1070102
MICROFILM ROLL/FRAME NO.: 317/1802 THRU: 317/1803
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161172 DATE: NOV. 10, 1988 PAGE: 6
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 25
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS * DAVIS * ROGNESS * HART * MORISON
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1804 THRU: 317/1809
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161178 DATE: NOV. 10, 1988 PAGE: 6
TITLE: AOC CERCLA VIII-84-006 PROGRESS REPORT 25
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS * DAVIS * ROBBINS * HART * MORRISON
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1810 THRU: 317/1815
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161184 DATE: NOV. 16, 1988 PAGE: 3
TITLE: (DISCUSSES DRAFT WORK PLAN AND TECHNICAL ASPECTS OF CHEMICAL MASS BALANCE MODELING; TRANSMITS ATTENDANCE LIST, MEETING AGENDA, LETTER FROM SCHERER, FEDERAL REGISTER OUTLINING SIP REQUIREMENTS AND DRAFT SIP WORK PLAN)
AUTHOR: RAISCH, BOB
ADDRESSEE: FILES
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1816 THRU: 317/1818
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161187 DATE: NOV. 16, 1988 PAGE: 1
TITLE: (RESPONSE TO MILLER LETTER REGARDING RECOMMENDED PROGRAM FOR CONTINUATION OF WATER RESOURCES MONITORING FOR ASARCO EAST HELENA STUDY AREA)
AUTHOR: ROGNESS, DOUG/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):2030400 * 3030400 * 4030400
MICROFILM ROLL/FRAME NO.: 317/1819 THRU: 317/1819
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161188 DATE: NOV. 16, 1988 PAGE: 2
TITLE: (RECEIPT OF FINAL COMMUNITY RELATIONS PLAN FOR EAST HELENA SMELTER; DISCUSSES STATEMENTS MADE BY SOME EAST HELENA RESIDENTS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: CASEY, SEAN/ICF
CC: FINKE * LATHROP * MORENO * BUNTE * SCRIMGEOUR * ROGNESS * STILES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 317/1820 THRU: 317/1821
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161190 DATE: NOV. 30, 1988(E) PAGE: 1
TITLE: FEAST RESPONSE TO MILLER REVISED PROGRAM (NOV. 3) CONVEYED BY PHONE
AUTHOR: BROWN, SCOTT/(EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: TELEPHONE CONVERSATION
CROSS FILE(S):2030400
MICROFILM ROLL/FRAME NO.: 317/1822 THRU: 317/1822
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161191 DATE: NOV. 17, 1988 PAGE: 1
TITLE: (TRANSMITS FINAL REVISED COMMUNITY RELATIONS PLAN)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * ROGNESS * BUNTE
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100500
MICROFILM ROLL/FRAME NO.: 317/1823 THRU: 317/1823
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161192 DATE: NOV. 21, 1988 PAGE: 4
TITLE: (TRANSMITS ATTACHED NOV. 22, 1988 COMMENTS BY NEUMAN AND DOLLHOPF/MSU ON REVIEW OF COMPARABILITY OF THE 1983 MDHES/CDC AND THE 1987 ASARCO SOIL DATA SETS; DISCUSSES DATA COMPARISON WITH VARIOUS ELEMENTS)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * NEUMAN * DOLLHOPF
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030400 * 1070103
MICROFILM ROLL/FRAME NO.: 317/1824 THRU: 317/1827
KEYWORD(S): ARSENIC * CADMIUM * COPPER * ZINC * LEAD
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161196 DATE: NOV. 30, 1988 PAGE: 1
TITLE: (RECEIPT OF ASSESSMENT OF POTENTIAL EXPOSURE PATHWAYS OF METAL CONTAMINANTS FROM MIGRATORY WATERFOWL AT UPPER LAKE TO HUMAN RECEPTORS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MILLER, ROBERT J./HYDROMETRICS
CC: FINKE * MORENO * ROGNESS * BUNTE * PALAWSKI * NICKEL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060701 * 2030300
MICROFILM ROLL/FRAME NO.: 317/1828 THRU: 317/1828
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161197 DATE: NOV. 30, 1988 PAGE: 2
TITLE: (RESPONSE TO MILLER NOV. 3 LETTER PROPOSING REVISED PROGRAM FOR MONITORING SURFACE AND GROUNDWATER AT EAST HELENA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MILLER, ROBERT J./HYDROMETRICS
CC: FINKE * MORENO * ROGNESS * BUNTE * NICKEL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2030400 * 3030400 * 4030400
MICROFILM ROLL/FRAME NO.: 317/1829 THRU: 317/1830
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161199 DATE: NOV. 30, 1988 PAGE: 1
TITLE: (TRANSMITS REVISED EAST HELENA GARDEN VEGETABLE DATA VALIDATION REPORT)
AUTHOR: HARVEY, KEVIN C./WESTON
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070400
MICROFILM ROLL/FRAME NO.: 317/1831 THRU: 317/1831
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161200 DATE: DEC. 5, 1988 PAGE: 2
TITLE: (DISCUSSES ADDITIONAL ISSUES RAISED BY ASARCO DURING NOV. 18, 1988 CONFERENCE CALL REGARDING PROPOSED AOC)
AUTHOR: /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: TELEPHONE CONVERSATION
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1832 THRU: 317/1833
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161202 DATE: DEC. 5, 1988 PAGE: 8
TITLE: (TRANSMITS ATTACHED NOV. 29, 1988 COMMENTS BY NEUMAN/MSU ON REVIEW OF DATA VALIDATION SUMMARY FOR THE ASARCO EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS])
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS * NEUMAN
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4030400 * 1070102
MICROFILM ROLL/FRAME NO.: 317/1834 THRU: 317/1841
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161210 DATE: DEC. 6, 1988 PAGE: 6
TITLE: (TRANSMITS AND COMMENTS ON ATTACHED NOV. 22, 1988 COMMENTS BY NEUMAN AND DOLLHOPF/MSU ON COMPARABILITY OF THE 1983 MDHES/CDC AND THE 1987 ASARCO SOIL DATA SETS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * MCGEEHIN * NICHOLS * ROGNESS * BUNTE * BRION * HARVEY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 317/1842 THRU: 317/1847
KEYWORD(S): COPPER * LEAD * ZINC * ARSENIC * CADMIUM
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161216 DATE: DEC. 7, 1988 PAGE: 2
TITLE: MONTHLY UPDATE OF ACCOMPLISHMENTS AND PLANNING DATA IN CERCLIS FOR FOURTH QUARTER OF FISCAL YEAR 1989
AUTHOR: HANSON, S. BARBARA/EPA * TAUNTON, WANDA/EPA
ADDRESSEE: REGIONAL PROJECT MANAGERS
CC: GEISE * SILVERNALE * LEVENE * SCHALLER * FINKE * CHIOTTI * LIMMERMAN * DAVIS * VALLEJOS
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1110200
MICROFILM ROLL/FRAME NO.: 317/1848 THRU: 317/1849
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161218 DATE: DEC. 8, 1988 PAGE: 2
TITLE: (TRANSMITS ATTACHED REVISED PROGRAM FOR MONITORING SURFACE WATER AND GROUNDWATER AT EAST HELENA)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030400 * 4030400
MICROFILM ROLL/FRAME NO.: 317/1850 THRU: 317/1851
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161220 DATE: DEC. 12, 1988 PAGE: 1
TITLE: (REQUEST BY LESSLEY/USDA FOR CATTLE STUDY FINAL DRAFT REPORT)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 317/1852 THRU: 317/1852
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161221 DATE: DEC. 14, 1988 PAGE: 1
TITLE: (RESPONSE TO DEC. 12 NOTE ON PROVIDING COPY OF LIVESTOCK TISSUE STUDY REPORT TO LESSLEY)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: DOLLHOPF, DOUG/(MSU)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 317/1853 THRU: 317/1853
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161222 DATE: DEC. 14, 1988 PAGE: 1
TITLE: (DISCUSSES AND TRANSMITS DATA VALIDATION AND REDUCTION REPORT FOR LOCALLY GROWN WHEAT GRAINHEADS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102
MICROFILM ROLL/FRAME NO.: 317/1854 THRU: 317/1854
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161223 DATE: DEC. 15, 1988 PAGE: 3
TITLE: (TRANSMITS FOR REVIEW ATTACHED APPENDIX C: SCHEDULE FOR REQUIRED REPORTS AND TABULATIONS FOR VALIDATED DATA)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: (NICKEL), JON/(ASARCO)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100 * 1070102 * 2030400
MICROFILM ROLL/FRAME NO.: 317/1855 THRU: 317/1857
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161226 DATE: DEC. 15, 1988 PAGE: 4
TITLE: AIR QUALITY ISSUES FROM DISCUSSION WITH JOHN WARDELL
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN
DOCUMENT TYPE: NOTES
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1858 THRU: 317/1861
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161230 DATE: DEC. 19, 1988 PAGE: 3
TITLE: (TRANSMITS DOCUMENT REGARDING TOXICOSIS OF CADMIUM IN CATTLE AND HUMANS)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BUNTE, DAVE/CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 317/1862 THRU: 317/1864
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161233 DATE: DEC. 20, 1988 PAGE: 2
TITLE: (TRANSMITS ATTACHED TABLE SHOWING TSP AND METALS DATA FROM FIREHALL SITE IN EAST HELENA FROM JUL. 2, 1987 TO JUN. 29, 1988)
AUTHOR: STERNBERG, STAN/MDHES
ADDRESSEE: GILMAN, JAN/MDHES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1865 THRU: 317/1866
KEYWORD(S): ARSENIC * CADMIUM * TIN * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161235 DATE: DEC. 22, 1988 PAGE: 1
TITLE: (TRANSMITS FINAL ADMINISTRATIVE ORDER FOR EAST HELENA)
AUTHOR: HART, WILLIAM O./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: LEAP
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1867 THRU: 317/1867
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161236 DATE: DEC. 23, 1988 PAGE: 1
ATTACHED DOC(S): 0161237 THRU: 0161242
TITLE: EAST HELENA AIR QUALITY SPLIT SAMPLES (LIST OF METALS TO BE ANALYZED)
AUTHOR: ROGNESS, DOUG/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1868 THRU: 317/1868
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161237 DATE: DEC. 27, 1988 PAGE: 1
ATTACHED TO: 0161236
TITLE: APPROVAL FOR USE OF 36 DAYS TO REPRESENT AIR QUALITY FOR RISK ASSESSMENT
AUTHOR: ROGNESS, DOUG/(MDHES)
ADDRESSEE: EAST HELENA AIR QUALITY FILE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1869 THRU: 317/1869
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161238 DATE: DEC. 27, 1988 PAGE: 1
ATTACHED TO: 0161236
TITLE: METHODOLOGY USED TO SELECT DAYS FOR CALCULATING RISK USING LEAD
AUTHOR: ROGNESS, DOUG/(MDHES)
ADDRESSEE: EAST HELENA AIR QUALITY FILE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1870 THRU: 317/1870
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161239 DATE: DEC. 29, 1988 PAGE: 1
ATTACHED TO: 0161236
TITLE: EAST HELENA AIR QUALITY SPLIT SAMPLES TO BE ANALYZED BY MDHES LAB
AUTHOR: ROGNESS, DOUG/MDHES
ADDRESSEE: GILMAN, JAN/MDHES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1871 THRU: 317/1871
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161240 DATE: DEC. 20, 1988 PAGE: 3
ATTACHED TO: 0161236
TITLE: (TRANSMITS ATTACHED TABLES SHOWING TSP AND METALS DATA FROM FIREHALL SITE IN EAST HELENA FROM JUL. 2, 1987 TO JUN. 29, 1988)
AUTHOR: GILMAN, JAN/MDHES * STERNBERG, STAN/MDHES
ADDRESSEE: FILES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1872 THRU: 317/1874
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * TIN
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161243 DATE: DEC. 27, 1988 PAGE: 13
TITLE: (TRANSMITS ATTACHED DIAGNOSTIC CRITERIA FOR CADMIUM IN CATTLE KIDNEY)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: DOLLHOPF * NEUMAN * ROGNESS * BARUTH
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 317/1875 THRU: 317/1887
KEYWORD(S): CADMIUM * ARSENIC * LEAD * ZINC
NOTES: UPDATE 02

FILE: 1170706 DOCNO: 0161256 DATE: DEC. 27, 1988 PAGE: 6
TITLE: (TRANSMITS AND DISCUSSES ATTACHED DEC. 9, 1988 NEUMAN COMMENTS ON COMPARISON OF ASARCO LABORATORY DATA TO CLP RESULTS)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NEUMAN * ROGNESS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):4070400 * 4030400 * 4070100 * 2030400
MICROFILM ROLL/FRAME NO.: 317/1888 THRU: 317/1893
NOTES: UPDATE 02

FILE: 1170800 DOCNO: 0161951 DATE: MAR. 8, 1989 PAGE: 2
TITLE: (EXTENSION GRANTED FOR ADMINISTRATIVE ORDER REQUIREMENT)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: ROBBINS, DONALD A./ASARCO
CC: DUPREY * FINKE * BROWN * MORENO * EGGERT * KIRLEY * RAISCH * BUNTE * NICKEL * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1894 THRU: 317/1895
NOTES: UPDATE 02

FILE: 1170800 DOCNO: 0161953 DATE: MAR. 20, 1989 PAGE: 1
TITLE: (TRANSMITTAL OF AR INDEX)
AUTHOR: BILODEAU, SALLY/JEG
ADDRESSEE: MACY, CAROLE/EPA
CC: BROWN * FINKE * MOOAR * MARQUEZ * MCCOLLOCH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1896 THRU: 317/1896
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161262 DATE: JAN. 4, 1989 PAGE: 2
TITLE: (NOTIFIES AOC FOR EAST HELENA SMELTER SITE WAS SIGNED INTO EFFECT BY SCHERER ON DEC. 30, 1988)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FINKE * MORENO * RUBICH * BUNTE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1897 THRU: 317/1898
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161264 DATE: JAN. 4, 1989 PAGE: 2
TITLE: (TRANSMITS EXECUTED AOC 8-89)
AUTHOR: MORENO, SANDRA R./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: EGGERT * BROWN * VELDE * SMITH
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1899 THRU: 317/1900
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161266 DATE: JAN. 5, 1989 PAGE: 9
TITLE: (TRANSMITS AND DISCUSSES ATTACHED BUNTE DEC. 5, 1988 AND NEUMAN NOV. 29, 1988 REVIEW OF DATA VALIDATION SUMMARY FOR ASARCO EAST HELENA RI/FS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * BUNTE * RUBICH * MILLER
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000 * 1070102
MICROFILM ROLL/FRAME NO.: 317/1901 THRU: 317/1909
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161275 DATE: JAN. 9, 1989 PAGE: 6
TITLE: SPECIAL NOTICE LETTER FOR RI/FS OR RD/RA (GENERIC EXAMPLE)
AUTHOR: /EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1910 THRU: 317/1915
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161281 DATE: JAN. 9, 1989 PAGE: 2
TITLE: (CONFIRMS AND LISTS TOPICS FOR JAN. 18, 1989 TECHNICAL MEETING)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * KIRLEY * BUNTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1916 THRU: 317/1917
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161283 DATE: JAN. 9, 1989 PAGE: 2
TITLE: (TRANSMITS MEMOS OF STATISTICAL COMPARISON)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * BUNTE * RUBICH
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102
MICROFILM ROLL/FRAME NO.: 317/1918 THRU: 317/1919
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161285 DATE: JAN. 9, 1989 PAGE: 5
TITLE: AOC CERCLA VIII-84-0006 PROGRESS REPORT 26
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100
MICROFILM ROLL/FRAME NO.: 317/1920 THRU: 317/1924
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161290 DATE: JAN. 10, 1989 PAGE: 15
ATTACHED DOC(S): 0161305 THRU: 0161308
TITLE: (COMMENTS ON SCHEDULE AND WORK PLAN FOR SUBMITTAL OF MONTANA LEAD STATE IMPLEMENTATION PLAN FOR EAST HELENA)
AUTHOR: SKIE, DOUGLAS M./(EPA)
ADDRESSEE: CHAFFEE, JEFFREY T./MDHES
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000 * 1060100
MICROFILM ROLL/FRAME NO.: 317/1925 THRU: 317/1939
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161305 DATE: DEC. 16, 1988 PAGE: 4
ATTACHED TO: 0161290
TITLE: CHEMICAL MASS BALANCE SOURCE SAMPLING AT AMERICAN CHEMET AND ASARCO
AUTHOR: RAISCH, BOB/MDHES
ADDRESSEE: FILES
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):2030400
MICROFILM ROLL/FRAME NO.: 317/1940 THRU: 317/1943
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161309 DATE: JAN. 13, 1989 PAGE: 4
TITLE: (TRANSMITS DRAFT PROCESS PONDS RI/FS, ASARCO, EAST HELENA, MONTANA AND SEQUENTIAL EXTRACTION AND EP TOXICITY TEST VALIDATION)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: KIRLEY * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * INCOMPLETE * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2040000
MICROFILM ROLL/FRAME NO.: 317/1944 THRU: 317/1947
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161313 DATE: JAN. 13, 1989 PAGE: 14
TITLE: ACTION ITEMS FROM JAN. 12, 1989 LEAD SIP MEETING
AUTHOR: RAISCH, BOB/MDHES
ADDRESSEE: FILES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1948 THRU: 317/1961
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161327 DATE: JAN. 16, 1989 PAGE: 3
TITLE: (TRANSMITS DATA VALIDATION AND REDUCTION REPORT ASARCO EAST HELENA PHASE 2 RI CATTLE AND FISH DATA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: KIRLEY
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070202 * 4070600 * 4070700
MICROFILM ROLL/FRAME NO.: 317/1962 THRU: 317/1964
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161330 DATE: JAN. 18, 1989 PAGE: 1
TITLE: (TRANSMITS ASARCO EAST HELENA QAPP FOR AIR QUALITY MONITORING)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * KIRLEY
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300 * 1140000
MICROFILM ROLL/FRAME NO.: 317/1965 THRU: 317/1965
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161331 DATE: JAN. 19, 1989 PAGE: 1
TITLE: (TRANSMITS ASARCO BEEF/FISH AND GRAINHEAD ANALYTICAL DATA PACKAGES)
AUTHOR: HARVEY, KEVIN C./WESTON
ADDRESSEE: NEUMAN, DENNIS/MSU
CC: NICKEL * BROWN * BUNTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030400 * 1070102 * 4070600 * 4070700
MICROFILM ROLL/FRAME NO.: 317/1966 THRU: 317/1966
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161332 DATE: JAN. 20, 1989 PAGE: 1
TITLE: (NOTICE MEETING TO DISCUSS CULTURAL RESOURCE REQUIREMENTS FOR EAST HELENA SMELTER SITE HAS BEEN SCHEDULED FOR FEB. 7, 1989)
AUTHOR: KIRLEY, KEVIN/MDHES
ADDRESSEE: BROWN, SCOTT/EPA * NICKEL, JON/ASARCO
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 317/1967 THRU: 317/1967
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161333 DATE: JAN. 23, 1989 PAGE: 1
TITLE: (ACKNOWLEDGES RECEIPT OF AOC DELIVERABLES)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * KIRLEY * BUNTE * MILLER
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030300 * 2040000 * 1070102
MICROFILM ROLL/FRAME NO.: 317/1968 THRU: 317/1968
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161334 DATE: JAN. 23, 1989 PAGE: 2
TITLE: COMMENTS ON ASARCO SMELTER AIR QUALITY MONITORING QAPP
AUTHOR: KIRLEY, KEVIN/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000 * 1060300
MICROFILM ROLL/FRAME NO.: 317/1969 THRU: 317/1970
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161336 DATE: JAN. 23, 1989 PAGE: 1
TITLE: (ACKNOWLEDGES RECEIPT OF AOC DELIVERABLES)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * KIRLEY * BUNTE * MILLER
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * CONCURRENCE COPY * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2030400 * 4070700 * 4070600
MICROFILM ROLL/FRAME NO.: 317/1971 THRU: 317/1971
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161337 DATE: JAN. 24, 1989 PAGE: 1
TITLE: (NOTIFIES WILEY ACCEPTS FREEDOM OF INFORMATION ASSISTANT POSITION IN OEA EFFECTIVE FEB. 12, 1989)
AUTHOR: MCGRAW, JACK W./EPA
ADDRESSEE: /ALL EMPLOYEES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1160000
MICROFILM ROLL/FRAME NO.: 317/1972 THRU: 317/1972
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161338 DATE: JAN. 6, 1989 PAGE: 1
TITLE: (FOIA REQUEST FOR ALL COMMUNICATIONS AND CORRESPONDENCE BETWEEN EPA AND ASARCO FROM JAN. 1, 1982 - DEC. 31, 1983)
AUTHOR: FOULKS, LINDA C.
ADDRESSEE: EVANS, ELIZABETH/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1160000
MICROFILM ROLL/FRAME NO.: 317/1973 THRU: 317/1973
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161339 DATE: JAN. 26, 1989 PAGE: 6
ATTACHED DOC(S): 0161345 THRU: 0161353
TITLE: (TRANSMITS ATTACHED EPA AND STATE COMMENTS CONCERNING QAPP FOR AIR QUALITY MONITORING)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MILLER, ROBERT J./HYDROMETRICS
CC: FINKE * MORENO * KIRLEY * BUNTE * NICKEL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102 * 4070400 * 1140000 * 1060300
MICROFILM ROLL/FRAME NO.: 317/1974 THRU: 317/1979
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161345 DATE: JAN. 24, 1989 PAGE: 2
ATTACHED TO: 0161339
TITLE: (TRANSMITS COMMENTS BY NEUMAN; DISCUSSES ADDITIONAL CH2M HILL COMMENTS ON ASARCO QAPP)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NEUMAN * BARUTH
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000 * 1060300
MICROFILM ROLL/FRAME NO.: 317/1980 THRU: 317/1981
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161347 DATE: JAN. 24, 1989 PAGE: 5
ATTACHED TO: 0161339
TITLE: REVIEW OF ASARCO QAPP DOCUMENT FOR AIR QUALITY MONITORING AT ASARCO EAST HELENA SMELTER
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BUNTE, DAVE/CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000 * 1060300
MICROFILM ROLL/FRAME NO.: 317/1982 THRU: 317/1986
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161352 DATE: JAN. 23, 1989 PAGE: 2
ATTACHED TO: 0161339
TITLE: (COMMENTS OF ASARCO QAPP)
AUTHOR: KIRLEY, KEVIN/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000 * 1060300
MICROFILM ROLL/FRAME NO.: 317/1987 THRU: 317/1988
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161354 DATE: JAN. 26, 1989 PAGE: 1
TITLE: (REQUESTS APPROVAL OF NEA AS QUALIFIED ENGINEER)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MORENO * KIRLEY * EGGERT
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/1989 THRU: 317/1989
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161355 DATE: JAN. 27, 1989 PAGE: 1
TITLE: (EXPRESSES APPRECIATION FOR RESPONSE TO REVIEW OF ASARCO QAPP)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: BUNTE, DAVID J./CH2M HILL
CC: FINKE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000 * 1060300 * 1120205
MICROFILM ROLL/FRAME NO.: 317/1990 THRU: 317/1990
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161356 DATE: JAN. 27, 1989 PAGE: 3
TITLE: INTERIM FINAL GUIDANCE FOR SOIL INGESTION RATES (OSWER DIRECTIVE 9850.4)
AUTHOR: PORTER, J. WINSTON/EPA
ADDRESSEE: REGIONAL ADMINISTRATORS
CC: DIAMOND * LONGEST * LOWRANCE * FIELDS * LINGLE * WYER * CARRA * BUSSARD * GUERCI * BROMM * /DIRECTORS, WASTE MANAGEMENT DIVISIONS * /DIRECTORS, EMERGENCY AND REMEDIAL RESPONSE DIVISIONS * /DIRECTORS, HAZARDOUS WASTE MANAGEMENT DIVISIONS * /DIRECTOR, TOXICS AND WASTE MANAGEMENT DIVISION * /DIRECTOR, HAZARDOUS WASTE DIVISION * /CERCLA BRANCH CHIEFS * /RCRA BRANCH CHIEFS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1060100
MICROFILM ROLL/FRAME NO.: 317/1991 THRU: 317/1993
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161359 DATE: JAN. 30, 1989 PAGE: 2
TITLE: (TRANSMITS ATTACHED LIST OF CORRECTIONS TO BEEF AND FISH DATA VALIDATION AND REDUCTION REPORT)
AUTHOR: HARVEY, KEVIN C./WESTON
ADDRESSEE: NICKEL, JON C./ASARCO
CC: BROWN * BUNTE * NEUMAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4030400 * 4070600 * 4070700
MICROFILM ROLL/FRAME NO.: 317/1994 THRU: 317/1995
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161361 DATE: JAN. 30, 1989 PAGE: 2
TITLE: (SUGGESTS NEA BE ENGINEERS DOING RI/FS WORK AT EAST HELENA SITE)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * EGGERT
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1996 THRU: 317/1997
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161363 DATE: FEB. 6, 1989 PAGE: 1
TITLE: (REQUESTS RI FOR SOILS VEGETATION AND LIVESTOCK AT ASARCO)
AUTHOR: BOON, DAVID Y./FRONT RANGE COMMUNITY COLLEGE
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/1998 THRU: 317/1998
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161364 DATE: FEB. 8, 1989 PAGE: 2
TITLE: (SUMMARIZES EAST HELENA SMELTER NPL SITE MEETING OF FEB. 7, 1989)
AUTHOR: HUPPE, KATHERINE M./SHPO
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * KIRLEY * /GCM SERVICES
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):2010000 * 4070800
MICROFILM ROLL/FRAME NO.: 317/1999 THRU: 317/2000
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161366 DATE: FEB. 9, 1989 PAGE: 3
TITLE: (TRANSMITS REVISED QAPP FOR AIR QUALITY MONITORING, ASARCO, INC. EAST HELENA, MONTANA)
AUTHOR: MASON, SCOTT/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: KIRLEY * NICKEL
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000 * 1060300
MICROFILM ROLL/FRAME NO.: 317/2001 THRU: 317/2003
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161369 DATE: FEB. 10, 1989 PAGE: 3
TITLE: (TRANSMITS ATTACHED ANALYTICAL RESULTS FOR METALS ANALYSIS OF EAST HELENA FIREHALL FILTERS FOR QUALITY CONTROL WITH ASARCO LAB)
AUTHOR: HALM, JUDY/MDHES
ADDRESSEE: GILMAN, JAN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
CROSS FILE(S):1170801
MICROFILM ROLL/FRAME NO.: 317/2004 THRU: 317/2006
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * MANGANESE * LEAD * SELENIUM * ZINC
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161372 DATE: FEB. 13, 1989 PAGE: 3
TITLE: (TRANSMITS SECOND DRAFT OF QAPP FOR REVIEW)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPRENGER, LESTER D./EPA
CC: FINKE * MORENO * KIRLEY * BUNTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * CONCURRENCE COPY * CONCURRENCE COPY ATTACHED * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000 * 1060300
MICROFILM ROLL/FRAME NO.: 317/2007 THRU: 317/2009
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161375 DATE: FEB. 13, 1989 PAGE: 2
TITLE: (DISCUSSES ASARCO DESIRE TO UTILIZE 1983 MDHES/CDC EAST HELENA SOILS DATABASE FOR PREPARATION OF RI/FS)
AUTHOR: HARVEY, KEVIN C./WESTON
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NICKEL * KIRLEY
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060200 * 4030400
MICROFILM ROLL/FRAME NO.: 317/2010 THRU: 317/2011
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161377 DATE: FEB. 14, 1989 PAGE: 1
TITLE: (TRANSMITS WATER SAMPLE RESULTS, SEQUENTIAL EXTRACTION RESULTS AND ARSENIC SPECIFICATION RESULTS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: KIRLEY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102
MICROFILM ROLL/FRAME NO.: 317/2012 THRU: 317/2012
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161378 DATE: FEB. 14, 1989 PAGE: 4
TITLE: (TRANSMITS ATTACHED MINUTES OF FEB. 10, 1989 MEETING TO DISCUSS EAST HELENA SITE)
AUTHOR: /J.F. SATO AND ASSOCIATES
ADDRESSEE: PHOEBE, GREG/EPA
CC: MORENO * BROWN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
CROSS FILE(S):1010200
MICROFILM ROLL/FRAME NO.: 317/2013 THRU: 317/2015
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161382 DATE: FEB. 16, 1989 PAGE: 8
TITLE: (DISCUSSES PRP SEARCH WITH AMERICAN CHEMET AND AMC)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: DENT, ROBERT L./AMC * PORTER, WILLIAM/AMERICAN CHEMET
CC: FINKE * KIRLEY * RUSSO * HAILU * NICKEL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020200
MICROFILM ROLL/FRAME NO.: 317/2016 THRU: 317/2023
KEYWORD(S): ASARCO * AMERICAN CHEMET CORPORATION * AMC/ARCO
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161390 DATE: FEB. 17, 1989 PAGE: 3
TITLE: (TRANSMITS BARTH REQUEST FOR ASSESSMENT OF THE TOXICITY OF COPPER, MERCURY, SELENIUM, SILVER, AND THALLIUM IN SOIL AND PLANTS AND ASSESSMENT OF THE TOXICITY OF ARSENIC, CADMIUM, LEAD AND ZINC IN SOILS, PLANTS AND LIVESTOCK)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: BARTH
CC: DOLLHOPF
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070301
MICROFILM ROLL/FRAME NO.: 317/2024 THRU: 317/2026
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161393 DATE: FEB. 17, 1989 PAGE: 13
TITLE: (COMMENTS ON DRAFT ASARCO PROCESS PONDS RI/FS JAN. 13, 1989)
AUTHOR: KIRLEY, KEVIN/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):2040000
MICROFILM ROLL/FRAME NO.: 317/2027 THRU: 317/2039
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161406 DATE: FEB. 21, 1989 PAGE: 6
TITLE: (REVIEWS QAPP FOR AIR QUALITY MONITORING)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BUNTE, DAVE/CH2M HILL
CC: SPENGER * NICKEL * MASON
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1140000 * 1060300
MICROFILM ROLL/FRAME NO.: 317/2040 THRU: 317/2045
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161412 DATE: FEB. 22, 1989 PAGE: 2
TITLE: (TRANSMITS RI/FS AOC DELIVERABLES)
AUTHOR: NOKES, J. H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA * BROWN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102
MICROFILM ROLL/FRAME NO.: 317/2046 THRU: 317/2047
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161414 DATE: FEB. 22, 1989 PAGE: 1
TITLE: (TRANSMITS 104(E) LETTERS)
AUTHOR: RUSSO, ROSEMARIE/J.F. SATO AND ASSOCIATES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1040300
MICROFILM ROLL/FRAME NO.: 317/2048 THRU: 317/2048
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161415 DATE: FEB. 24, 1989 PAGE: 14
TITLE: (COMMENTS ON DRAFT ASARCO SMELTER PROCESS PONDS RI/FS JAN. 13, 1989)
AUTHOR: KIRLEY, KEVIN/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
CC: BUNTE * MORENO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):2040000
MICROFILM ROLL/FRAME NO.: 317/2049 THRU: 317/2062
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161429 DATE: FEB. 25, 1989 PAGE: 21
TITLE: (COMMENTS ON DRAFT PROCESS PONDS RI/FS)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: MORENO * KIRLEY * NICKEL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):2040000
MICROFILM ROLL/FRAME NO.: 317/2063 THRU: 317/2083
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161450 DATE: FEB. 28, 1989 PAGE: 1
TITLE: (RECORD OF TELEPHONE CONFERENCE WITH MACRAE CONCERNING AIR QUALITY QAPP)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
CROSS FILE(S):1140000 * 1060300
MICROFILM ROLL/FRAME NO.: 317/2084 THRU: 317/2084
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161451 DATE: FEB. 28, 1989 PAGE: 6
TITLE: (TRANSMITS ATTACHED MSU AND CH2M HILL REVIEW OF PHASE 2 RI GRAINHEAD DATA VALIDATION AND REDUCTION REPORT)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * BUNTE * KIRLEY * HARVEY * NEUMAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4040000 * 1070102
MICROFILM ROLL/FRAME NO.: 317/2085 THRU: 317/2090
NOTES: UPDATE 02

FILE: 1170801 DOCNO: 0161457 DATE: FEB. 28, 1989 PAGE: 6
TITLE: (TRANSMITS ATTACHED MSU AND CH2M HILL COMMENTS ON PHASE 2 RI CATTLE AND FISH DATA VALIDATION AND REDUCTION REPORT)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * KIRLEY * BUNTE * HARVEY
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):4040000 * 4070600 * 4070700 * 1070102
MICROFILM ROLL/FRAME NO.: 317/2091 THRU: 317/2096
NOTES: UPDATE 02

FILE: 1170802 DOCNO: 0161463 DATE: MAR. 1, 1989 PAGE: 3
TITLE: (REQUESTS 60-DAY EXTENSION TO COMPLETE CHEMICAL MASS BALANCE REPORT; TRANSMITS ATTACHED MAR. 1, 1989 LETTER FROM COOPER/NEA TO MARCUS/ASARCO DISCUSSING UNANTICIPATED PROBLEMS REGARDING CURRENT EAST HELENA LEAD SOURCE APPORTION PROJECT)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: KIRLEY * MORENO * NICKEL * EGGERT
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2097 THRU: 317/2099
NOTES: UPDATE 02

FILE: 1170802 DOCNO: 0161466 DATE: MAR. 3, 1989 PAGE: 3
TITLE: (TRANSMITS REVISED QAPP FOR AIR QUALITY MONITORING AT EAST HELENA SITE)
AUTHOR: MASON, SCOTT/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000 * 1060300
MICROFILM ROLL/FRAME NO.: 317/2100 THRU: 317/2102
NOTES: UPDATE 02

FILE: 1170802 DOCNO: 0161469 DATE: MAR. 8, 1989 PAGE: 4
TITLE: (GRANTS REQUESTED 60-DAY EXTENSION FOR CHEMICAL MASS BALANCE SOURCE APPORTIONMENT REPORT)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: ROBBINS, DONALD A./ASARCO
CC: DUPREY * FINKE * BROWN * MORENO * EGGERT * KIRLEY * RAISCH * BUNTE * NICKEL * MILLER
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/2103 THRU: 317/2106
NOTES: UPDATE 02

FILE: 1170802 DOCNO: 0161473 DATE: MAR. 9, 1989 PAGE: 6
TITLE: AOC CERCLA VIII-84-006 AND CERCLA VIII-89-010 PROGRESS REPORT 27
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/MDHES
CC: MORENO * EGGERT * LEAP
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040100 * 1060100
MICROFILM ROLL/FRAME NO.: 317/2107 THRU: 317/2112
NOTES: UPDATE 02

FILE: 1170802 DOCNO: 0161479 DATE: MAR. 9, 1989 PAGE: 1
TITLE: (REVIEWS REVISED QAPP FOR PROPOSED AIR QUALITY MONITORING AT EAST HELENA SITE)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: BROWN, SCOTT/EPA
CC: BUNTE
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):1060300 * 1140000
MICROFILM ROLL/FRAME NO.: 317/2113 THRU: 317/2113
NOTES: UPDATE 02

FILE: 1170802 DOCNO: 0161480 DATE: MAR. 10, 1989 PAGE: 1
TITLE: (DISCUSSES COMMENTS ON FEDERAL ARARS)
AUTHOR: (BROWN) SCOTT/EPA
ADDRESSEE: JON
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: LETTER
CROSS FILE(S):1050200
MICROFILM ROLL/FRAME NO.: 317/2114 THRU: 317/2114
NOTES: UPDATE 02

FILE: 1170802 DOCNO: 0162074 DATE: MAR. 13, 1989 PAGE: 1
TITLE: (REQUESTS LEGAL OPINION ON RCRA-CERCLA INTERFACE, PROCESS PONDS)
AUTHOR: THORVILSON, ROGER/MDHES
ADDRESSEE: FINKE, ERIC/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/0357 THRU: 320/0357
NOTES: UPDATE 02 * ORIGINALLY FILED INCORRECTLY AS 2170802; FILE NUMBER CORRECTED AND REFILED 8/96

FILE: 1170802 DOCNO: 0162075 DATE: MAR. 15, 1989 PAGE: 1
TITLE: (INTERPRETATION OF RCRA/CERCLA INTERFACE AT ASARCO EAST HELENA AND REQUEST FOR OPINION)
AUTHOR: THORVILSON, ROGER/MDHES
ADDRESSEE: FINKE, ERIC/EPA
CC: HARRIS * BROWN * EGGERT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 320/0358 THRU: 320/0358
NOTES: UPDATE 02 * ORIGINALLY FILED INCORRECTLY AS 2170802; FILE NUMBER CORRECTED AND REFILED 8/96

FILE: 1170802 DOCNO: 0192259 DATE: APR. 21, 1989 PAGE: 1
TITLE: (CONFIRMS PHONE CONVERSATION REGARDING CHANGES ON DRAFT PRINTOUTS FOR EAST HELENA FILES)
AUTHOR: COLEMAN, KATHY/DPRA
ADDRESSEE: BROWN, SCOTT/EPA
CC: /MHK FILE * MCCOLLOCH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2115 THRU: 317/2115
NOTES: UPDATE 02

FILE: 1170803 DOCNO: 0161954 DATE: MAY 1, 1989 PAGE: 1
TITLE: (DELIVERY OF ADMINISTRATIVE RECORDS INDEXES TO MAINTENANCE CONTRACTOR)
AUTHOR: COLEMAN, KATHY/DPRA
ADDRESSEE: BROWN, SCOTT/EPA
CC: MCCOLLOCH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2116 THRU: 317/2116
NOTES: UPDATE 02

FILE: 1170803 DOCNO: 0161955 DATE: MAY 8, 1989 PAGE: 2
TITLE: (DISCUSSES CONSTRUCTION OF ASARCO ORE HANDLING FACILITY)
AUTHOR: MORISON, FRANK H./HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA/EPA
CC: BROWN * EGGERT * KIRLEY * HART * VARNER * DAVIS * ROBBINS * NICKEL * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):6020000
MICROFILM ROLL/FRAME NO.: 317/2117 THRU: 317/2118
NOTES: UPDATE 02

FILE: 1170803 DOCNO: 0161957 DATE: MAY 10, 1989 PAGE: 6
TITLE: AOC CERCLA-VIII-84-006 AND CERCLA-VIII-89-010 PROGRESS REPORT 28
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/MDHES
CC: MORENO * EGGERT * LEAP * BUNTE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2119 THRU: 317/2124
NOTES: UPDATE 02

FILE: 1170803 DOCNO: 0161963 DATE: MAY 19, 1989 PAGE: 2
TITLE: (FOLLOW-UP TO MAY 5, 1989 CONFERENCE CALL DISCUSSING BLOOD-LEAD STUDIES)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA/EPA
CC: BROWN * EGGERT * KIRLEY * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2125 THRU: 317/2126
NOTES: UPDATE 02

FILE: 1170803 DOCNO: 0192260 DATE: MAY 9, 1989 PAGE: 1
TITLE: (EXPRESSES THANKS FOR TIME TAKEN TO DISCUSS COMPACT COMMISSION)
AUTHOR: MCNALLY, MARY/EASTERN MONTANA COLLEGE
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 317/2127 THRU: 317/2127
NOTES: UPDATE 02

FILE: 1170803 DOCNO: 434760 DATE: MAY 19, 1989 PAGE: 2
DUPLICATE DOCUMENT: 1170803/0161963
TITLE: (FOLLOW-UP TO MAY 5, 1989 CONFERENCE CALL DISCUSSING BLOOD-LEAD STUDIES)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA/EPA
CC: BROWN * EGGERT * KIRLEY * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0243 THRU: 749/0244
NOTES: UPDATE 10

FILE: 1170804 DOCNO: 0190604 DATE: JUL. 7, 1989 PAGE: 5
TITLE: AOC CERCLA VII-84-006 AND CERCLA VIII-89-010 PROGRESS REPORT 29
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * ROBERTSON, DUANE/MDHES
CC: MORENO * EGGERT * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2128 THRU: 317/2132
NOTES: UPDATE 02

FILE: 1170805 DOCNO: 0190609 DATE: SEP. 8, 1989 PAGE: 5
TITLE: AOC CERCLA VIII-84-006 AND CERCLA VIII-89-010 PROGRESS REPORT 30
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/MDHES
CC: MORENO * EGGERT * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2133 THRU: 317/2137
NOTES: UPDATE 02

FILE: 1170805 DOCNO: 0200599 DATE: OCT. 27, 1989 PAGE: 3
TITLE: (TRANSMITS ATTACHED MEMO FROM ROBERTS/OEA RESEARCH REGARDING OVERSIGHT OF ASARCO GROUNDWATER SAMPLING)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):3030000
MICROFILM ROLL/FRAME NO.: 317/2138 THRU: 317/2140
NOTES: UPDATE 02

FILE: 1170806 DOCNO: 0200602 DATE: NOV. 6, 1989 PAGE: 5
TITLE: AOC CERCLA VIII-84-006 AND CERCLA VIII-89-010 PROGRESS REPORT 31
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/MDHES
CC: MORENO * EGGERT * LEAP * MULLEN * BUNTE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2141 THRU: 317/2145
NOTES: UPDATE 02

FILE: 1170900 DOCNO: 0192261 DATE: MAR. 5, 1990 PAGE: 6
TITLE: (PROCESS PONDS PROGRESS REPORT 33)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MORENO * EGGERT * LEAP * /CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2146 THRU: 317/2151
NOTES: UPDATE 02

FILE: 1170900 DOCNO: 0221038 DATE: SEP. 7, 1990 PAGE: 5
TITLE: AOC CERCLA VIII-84-006 AND CERCLA VIII-89-010 PROGRESS REPORT 36
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/MDHES
CC: BOHAN * EGGERT * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2190 THRU: 317/2194
NOTES: UPDATE 02

FILE: 1170900 DOCNO: 0221043 DATE: NOV. 5, 1990 PAGE: 3
TITLE: AOC CERCLA VIII-84-006 AND CERCLA VIII-89-010 PROGRESS REPORT 37
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/MDHES
CC: BOHAN * EGGERT * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2195 THRU: 317/2197
NOTES: UPDATE 02

FILE: 1170901 DOCNO: 0192267 DATE: JAN. 11, 1990 PAGE: 2
TITLE: (RESPONSE TO REQUEST FROM HUD AND FHA CONCERNING GUARANTEED MORTGAGES IN EAST HELENA AREA)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: KAFENTZIS, CHRIS/HUD
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2152 THRU: 317/2153
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 1170901 DOCNO: 0200607 DATE: DEC. 20, 1989 PAGE: 1
TITLE: REQUEST BY FEDERAL AGENCY REGARDING PUBLIC HEALTH AND INSURABILITY OF HOMES IN EAST HELENA
AUTHOR: KAFENTZIS, CHRIS/HUD
ADDRESSEE: WARDELL, JOHN/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2154 THRU: 317/2154
NOTES: UPDATE 02

FILE: 1170901 DOCNO: 0211913 DATE: JAN. 5, 1990 PAGE: 5
TITLE: AOC CERCLA VIII-84-006 AND VIII-89-010 PROGRESS REPORT 32
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/MDHES
CC: MULLEN * MORENO * EGGERT * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2155 THRU: 317/2159
KEYWORD(S): LEAD * ASARCO
NOTES: UPDATE 02

FILE: 1170903 DOCNO: 0200608 DATE: MAY 3, 1990 PAGE: 1
TITLE: (NOTIFIES BOHAN NEW SITE ATTORNEY)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: BOHAN * LEAP * ROBBINS * HART
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2160 THRU: 317/2160
KEYWORD(S): ASARCO
NOTES: UPDATE 02

FILE: 1170903 DOCNO: 0200609 DATE: MAY 3, 1990 PAGE: 1
TITLE: (NOTIFIES BOHAN NEW SITE ATTORNEY)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: DENT, ROBERT L./ARCO
CC: BOHAN * LAWRENCE * DESAUTELS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2161 THRU: 317/2161
NOTES: UPDATE 02

FILE: 1170903 DOCNO: 0200610 DATE: MAY 3, 1990 PAGE: 1
TITLE: (NOTIFIES BOHAN NEW SITE ATTORNEY)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: BRIMHALL, DANIEL B./AMERICAN CHEMET
CC: BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2162 THRU: 317/2162
NOTES: UPDATE 02

FILE: 1170903 DOCNO: 0211918 DATE: MAY 8, 1990 PAGE: 5
ATTACHED DOC(S): 0211923 THRU: 0211933
TITLE: AOC CERCLA VIII-84-006 AND VIII-89-0101 PROGRESS REPORT 34
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/MDHES
CC: MULLEN * BLUCK * EGGERT * BOHAN * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 317/2163 THRU: 317/2167
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 02

FILE: 1170903 DOCNO: 0211923 DATE: MAR. 14, 1990 PAGE: 5
ATTACHED TO: 0211918
TITLE: (TRANSMITS ATTACHED ANALYTICAL RESULTS FOR WATER TREATMENT SAMPLES TAKEN FEB. 21-29, 1990 AND SLUDGE SAMPLES OF FEB. 16-28, 1990)
AUTHOR: KELLER, VINCENT P./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 317/2168 THRU: 317/2174
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * IRON
NOTES: UPDATE 02

FILE: 1170903 DOCNO: 0211928 DATE: MAR. 23, 1990 PAGE: 3
ATTACHED TO: 0211918
TITLE: (TRANSMITS ATTACHED ANALYTICAL RESULTS FOR WATER SAMPLES TAKEN MAR. 12-13, 1990)
AUTHOR: KELLER, VINCENT P./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2175 THRU: 317/2177
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * ZINC * IRON
NOTES: UPDATE 02

FILE: 1170903 DOCNO: 0211931 DATE: MAR. 30, 1990 PAGE: 3
ATTACHED TO: 0211918
TITLE: (TRANSMITS ATTACHED ANALYTICAL RESULTS FOR WATER SAMPLES TAKEN MAR. 15, 1990)
AUTHOR: KELLER, VINCENT P./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2178 THRU: 317/2180
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * ZINC * IRON
NOTES: UPDATE 02

FILE: 1170904 DOCNO: 0211934 DATE: JUL. 9, 1990 PAGE: 7
TITLE: AOC CERCLA VIII-84-006 AND VIII-89-010 PROGRESS REPORT 35 (TRANSMITS ATTACHED AMENDMENT TO AOC VIII-89-010)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * ROBERTSON, DUANE/MDHES
CC: BOHAN * EGGERT * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2181 THRU: 317/2187
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 02

FILE: 1170904 DOCNO: 0211941 DATE: JUL. 17, 1990 PAGE: 2
TITLE: (RESPONSE TO PROPOSED AMENDMENT TO AOC OF JUL. 9, 1990)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: WARDELL * BOHAN * GOODSTEIN * ROBERTSON * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2188 THRU: 317/2189
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0190614 DATE: JUL. 31, 1989 PAGE: 22
TITLE: (TRANSMITS DRAFT COMMENTS ON ASARCO JUN. 30, 1987 PROCESS POND RI/FS)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: LUCERO * GLANZMAN * ROBERTS * FEAST * BARUTH * MAVI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):2040000
MICROFILM ROLL/FRAME NO.: 317/2198 THRU: 317/2219
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0190636 DATE: AUG. 1989 PAGE: 12
TITLE: (SUPERFUND PROGRAM PROPOSED PLAN; EAST HELENA SMELTER SITE, PROCESS PONDS)
AUTHOR: /EPA * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1100200
MICROFILM ROLL/FRAME NO.: 317/2220 THRU: 317/2231
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0190648 DATE: AUG. 8, 1989 PAGE: 6
TITLE: (REQUEST FOR AUTHORITY TO BEGIN EXCAVATING FOR AND CONSTRUCTION OF SPEISS TANK; ATTACHED DESIGNS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MORENO * LEAP * KIRLEY * EGGERT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2232 THRU: 317/2237
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0190654 DATE: AUG. 21, 1989 PAGE: 5
TITLE: (DISCUSSES PROCESS PONDS EXCAVATION FOR SPEISS POND AREA FOR NEW TANK)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2238 THRU: 317/2242
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0190659 DATE: SEP. 1, 1989 PAGE: 1
TITLE: (PUBLIC NOTICE OF PROPOSED PLAN FOR PROCESS PONDS FS)
AUTHOR: /INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1100000
MICROFILM ROLL/FRAME NO.: 317/2243 THRU: 317/2243
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0192269 DATE: JUL. 31, 1989 PAGE: 22
TITLE: (TRANSMITS ATTACHED DRAFT COMMENTS ON ASARCO JUN. 30, 1987 PROCESS POND RI/FS)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: LUCERO * GLANZMAN * ROBERTS * FEAST * BARUTH * MAVIS * JON * BOB
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):2040000
MICROFILM ROLL/FRAME NO.: 317/2244 THRU: 317/2265
KEYWORD(S): ARSENIC * COPPER * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0192291 DATE: JAN. 18, 1990 PAGE: 2
TITLE: (TRANSMITS ATTACHED SCHEDULE OF LOWER LAKE TREATABILITY TESTS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * NICKEL * /CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 317/2266 THRU: 317/2267
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0200611 DATE: SEP. 5, 1989 PAGE: 6
TITLE: (COMMENTS ON HYDROMETRICS MODIFICATIONS TO PROCESS PONDS RI/FS; ATTACHED HELENA LOWER LAKE SEDIMENT CALCULATIONS)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070402
MICROFILM ROLL/FRAME NO.: 317/2268 THRU: 317/2273
KEYWORD(S): ARSENIC * MANGANESE * SOIL
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0211944 DATE: MAY 15, 1990 PAGE: 178
TITLE: DRAFT PILOT SCALE TESTING FOR IN SITU TREATMENT LOWER LAKE WATER, INTERIM REPORT
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * DRAFT * MARGINALIA * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/0002 THRU: 318/0179
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0212122 DATE: MAY 16, 1990 PAGE: 6
TITLE: (COMMENTS ON EAST HELENA PILOT SCALE TESTING FOR IN SITU TREATMENT OF LOWER LAKE WATER INTERIM REPORT MAY 16, 1990)
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/0180 THRU: 318/0185
KEYWORD(S): ARSENIC
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0212128 DATE: MAY 17, 1990 PAGE: 1
TITLE: (TRANSMITS ASARCO/EAST HELENA LOWER LAKE PILOT SCALE TEST INTERIM REPORT)
AUTHOR: BRAICO, ROBERT D./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * /CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0186 THRU: 318/0186
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0212129 DATE: JUN. 8, 1990 PAGE: 2
TITLE: (REPORT FROM MDHES ON INSPECTIONS OF RCRA-TYPE TANKS)
AUTHOR: MULLEN, GREGORY/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
CC: BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 318/0187 THRU: 318/0188
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0221046 DATE: AUG. 31, 1990 PAGE: 234
TITLE: (TRANSMITS ATTACHED RAW ANALYTICAL RESULTS, DOCUMENTATION AND DELIVERABLES FOR EAST HELENA LOWER LAKE WATER SAMPLES COLLECTED JUN. 29 AND JUL. 23, 1990)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0217 THRU: 318/0450
KEYWORD(S): COPPER * IRON * MANGANESE * ZINC * LEAD * ARSENIC
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0221280 DATE: OCT. 4, 1990 PAGE: 1
ATTACHED DOC(S): 0221281 THRU: 0221284
TITLE: (TRANSMITS IN SITU WATER TREATMENT TESTS AT LOWER LAKE)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 318/0451 THRU: 318/0451
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0221281 DATE: JUL. 24, 1990 PAGE: 2
ATTACHED TO: 0221280
TITLE: (DISCUSSES LOWER LAKE IN SITU TESTS AT EAST HELENA)
AUTHOR: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 318/0452 THRU: 318/0453
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0221283 DATE: OCT. 2, 1990 PAGE: 2
ATTACHED TO: 0221280
TITLE: (DISCUSSES EAST HELENA SMELTER LOWER LAKE PILOT TESTS)
AUTHOR: FISCHER, DEANNE/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 318/0454 THRU: 318/0455
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0221285 DATE: JAN. 16, 1991 PAGE: 2
TITLE: COMMENTS ON PILOT SCALE TESTING FOR IN SITU TREATMENT OF LOWER LAKE WATER FINAL REPORT
AUTHOR: MULLEN, GREG/MDHES
ADDRESSEE: BROWN, SCOTT/(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):2030000
MICROFILM ROLL/FRAME NO.: 318/0456 THRU: 318/0457
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0221287 DATE: FEB. 19, 1991 PAGE: 1
ATTACHED DOC(S): 0221288 THRU: 0221290
TITLE: (NOTE REGARDING REVIEW OF IN SITU REPORT FOR LOWER LAKE)
AUTHOR: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * HANDWRITTEN
DOCUMENT TYPE: MEMO
CROSS FILE(S):2030000
MICROFILM ROLL/FRAME NO.: 318/0458 THRU: 318/0458
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0221288 DATE: JAN. 18, 1991 PAGE: 3
ATTACHED TO: 0221287
TITLE: (REVIEW COMMENTS OF NOV. 21, 1990 HYDROMETRICS PILOT SCALE TESTING FOR IN-SITU TESTING OF LOWER LAKE WATER, FINAL REPORT PREPARED FOR ASARCO)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: FISCHER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):2030000
MICROFILM ROLL/FRAME NO.: 318/0459 THRU: 318/0461
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0221291 DATE: FEB. 25, 1991 PAGE: 2
ATTACHED DOC(S): 0221293 THRU: 0221360
TITLE: (TRANSMITS LOWER LAKE IN SITU TREATMENT PILOT SCALE TESTING DATA VALIDATION SUMMARY; ATTACHED TRANSMITTAL FROM BROWN TO BILL FOR REVIEW)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * /DOJ * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0462 THRU: 318/0463
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0221293 DATE: FEB. 26, 1991 PAGE: 68
ATTACHED TO: 0221291
TITLE: "LOWER LAKE IN SITU TREATMENT PILOT TESTING DATA VALIDATION SUMMARY"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/0464 THRU: 318/0533
KEYWORD(S): ARSENIC * COPPER * LEAD * MANGANESE * MERCURY * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 2000000 DOCNO: 0221361 DATE: MAR. 14, 1991 PAGE: 1
TITLE: (NOTIFIES LOWER LAKE DATA VALIDATION REPORT HAS BEEN FORWARDED TO CH2M HILL WITH REQUEST FOR COMMENTS)
AUTHOR: (BROWN), SCOTT/EPA
ADDRESSEE: GREG
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 318/0534 THRU: 318/0534
NOTES: UPDATE 02

FILE: 2010000 DOCNO: 0190662 DATE: JUL. 7, 1989 PAGE: 2
TITLE: (CONCERNS CONSTRUCTION OF ASARCO PROCESS FLUIDS STORAGE TANKS NEAR LOWER LAKE)
AUTHOR: MORENO, SANDRA R./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: NICKEL * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0191 THRU: 318/0192
NOTES: UPDATE 02

FILE: 2010000 DOCNO: 0190664 DATE: AUG. 2, 1989 PAGE: 3
ATTACHED DOC(S): 0190667 THRU: 0190680
TITLE: (DISCUSSES ABOVE GROUND FLUID STORAGE TANKS NEAR LOWER LAKE)
AUTHOR: JIM/EPA
ADDRESSEE: SCOTT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0193 THRU: 318/0195
NOTES: UPDATE 02

FILE: 2010000 DOCNO: 0190667 DATE: JUL. 26, 1989 PAGE: 2
ATTACHED TO: 0190664
TITLE: (DISCUSSES ABOVE GROUND FLUID STORAGE TANKS NEAR LOWER LAKE)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: HARRIS, JIM/(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0196 THRU: 318/0197
NOTES: UPDATE 02

FILE: 2010000 DOCNO: 0190669 DATE: JUL. 27, 1989 PAGE: 1
ATTACHED TO: 0190664
TITLE: (TRANSMITS ABOVE GROUND FLUID STORAGE TANK INFORMATION)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: KIRLEY, KEVIN/MDHES * MULLEN, GREG
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 318/0198 THRU: 318/0198
NOTES: UPDATE 02

FILE: 2010000 DOCNO: 0190670 DATE: JUL. 24, 1989 PAGE: 11
ATTACHED TO: 0190664
TITLE: (DISCUSSES CONSTRUCTION OF ABOVE GROUND TANKS; ATTACHED SCHEMATIC DRAWINGS)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA R./EPA
CC: BROWN * NICKEL * DAVIS * MORISON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0199 THRU: 318/0209
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 2010000 DOCNO: 0190681 DATE: AUG. 16, 1989 PAGE: 2
TITLE: (CONCERNS NEW SPEISS TANK AND EXCAVATION OF SOILS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * HARRIS * KIRLEY * MULLEN * BUNTE * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0210 THRU: 318/0211
NOTES: UPDATE 02

FILE: 2010000 DOCNO: 0190683 DATE: SEP. 5, 1989 PAGE: 1
TITLE: (RESPONSE TO ASARCO REQUEST TO CONSTRUCT STORAGE TANKS TO REPLACE LOWER LAKE)
AUTHOR: MORENO, SANDRA R./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0212 THRU: 318/0212
NOTES: UPDATE 02

FILE: 2010000 DOCNO: 0190684 DATE: SEP. 8, 1989 PAGE: 2
TITLE: (TRANSMITS ATTACHED ANALYTICAL RESULTS FROM EAST HELENA PUBLICLY OWNED TREATMENT WORKS INLET AND OUTLET WATER SAMPLES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: MULLEN, GREG/MDHES
CC: BROWN * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0213 THRU: 318/0214
KEYWORD(S): ARSENIC * CADMIUM * COPPER * SILVER * MANGANESE
NOTES: UPDATE 02

FILE: 2010000 DOCNO: 0212131 DATE: JUN. 21, 1990 PAGE: 2
TITLE: (GRANTS EXTENSION OF TREATABILITY TESTS FOR LOWER LAKE UNTIL AUG. 1, 1990)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: WARDELL * BOHAN * GOODSTEIN * MULLEN * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0215 THRU: 318/0216
NOTES: UPDATE 02

FILE: 2010000 DOCNO: 434761 DATE: JUL. 24, 1989 PAGE: 4
TITLE: (RESPONSE TO JUL. 7, 1989 REQUEST FOR INFORMATION REGARDING CONSTRUCTION OF ABOVE GROUND TANKS)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA R./EPA
CC: BROWN * NICKEL * DAVIS * MORISON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0245 THRU: 749/0248
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 10

FILE: 2030000 DOCNO: 0190686 DATE: MAY 1989(E) PAGE: 6
ATTACHED DOC(S): 0190692 THRU: 0190696
TITLE: (PROCESS PONDS AND FLUIDS; PLANS AND DRAWINGS FOR TANKS TO REPLACE LOWER LAKE; ABOVE GROUND STORAGE TANKS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 318/0535 THRU: 318/0540
NOTES: UPDATE 02

FILE: 2030000 DOCNO: 0190692 DATE: MAY 17, 1989 PAGE: 3
ATTACHED TO: 0190686
TITLE: (PROCESS FLUIDS: PLANS FOR TANKS TO REPLACE LOWER POND; ATTACHED DESIGNS)
AUTHOR: LEAP, CYNTHIA/HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA/EPA
CC: BROWN * KIRLEY * EGGERT * HART * VARNER * DAVIS * ROBBINS * NICKEL * MORISON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0541 THRU: 318/0543
NOTES: UPDATE 02

FILE: 2030000 DOCNO: 0190695 DATE: JUL. 7, 1989 PAGE: 2
ATTACHED TO: 0190686
TITLE: (DISCUSSES PROCESS PONDS AND FLUIDS, PLANS FOR TANKS TO REPLACE LOWER LAKE, ABOVE GROUND STORAGE TANKS)
AUTHOR: MORENO, SANDRA R./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: JON * SCOTT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * CONCURRENCE COPY * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0544 THRU: 318/0545
NOTES: UPDATE 02

FILE: 2030000 DOCNO: 0200617 DATE: NOV. 22, 1989 PAGE: 3
ATTACHED TO: 0190686
TITLE: (TRANSMITS ATTACHED COMMENTS CONCERNING ASARCO TREATABILITY TESTS FOR LOWER LAKE WORK PLAN)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: LUCERO * MAVIS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 318/0546 THRU: 318/0548
NOTES: UPDATE 02

FILE: 2030000 DOCNO: 0221362 DATE: NOV. 1990(E) PAGE: 1
ATTACHED DOC(S): 0221363 THRU: 0221660
TITLE: (TRANSMITS VOL. 1 TEXT AND VOL. 2 APPENDICES OF PILOT SCALE TESTING FOR IN SITU TREATMENT OF LOWER LAKE WATER FINAL REPORT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * ATTORNEY/DOJ * PROJECT MANAGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0549 THRU: 318/0549
NOTES: UPDATE 02

FILE: 2030000 DOCNO: 0221363 DATE: NOV. 21, 1990 PAGE: 95
ATTACHED TO: 0221362
TITLE: "PILOT SCALE TESTING FOR IN SITU TREATMENT OF LOWER LAKE WATER FINAL REPORT VOL. 1: TEXT"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/0753 THRU: 318/0847
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 2030000 DOCNO: 0221458 DATE: NOV. 21, 1990 PAGE: 203
ATTACHED TO: 0221362
TITLE: "PILOT SCALE TESTING FOR IN SITU TREATMENT OF LOWER LAKE WATER FINAL REPORT VOL.2 : APPENDICES"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/0550 THRU: 318/0752
KEYWORD(S): ARSENIC * COPPER * SILVER * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 2030000 DOCNO: 402752 DATE: MAY 31, 1991 PAGE: 1
TITLE: (APPROVES PROCESS PONDS SAP)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):2060000
MICROFILM ROLL/FRAME NO.: 415/0386 THRU: 415/0386
NOTES: UPDATE 03

FILE: 2030000 DOCNO: 402969 DATE: OCT. 3, 1991 PAGE: 1
ATTACHED DOC(S): 402970 THRU: 402971
TITLE: (TRANSMITS GROUNDWATER DATA PACKAGE FROM ASARCO SENT TO CH2M HILL FOR REVIEW)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0303 THRU: 436/0303
NOTES: UPDATE 04

FILE: 2030000 DOCNO: 402970 DATE: SEP. 27, 1991 PAGE: 1
ATTACHED TO: 402969
TITLE: (TRANSMITTAL FOR IS-RS SOIL SAMPLES COLLECTED AUG. 8-14, 1991)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0304 THRU: 436/0304
NOTES: UPDATE 04

FILE: 2030000 DOCNO: 402971 DATE: AUG. 1991(E) PAGE: 1
ATTACHED TO: 402969
TITLE: (TABLE OF CONTENTS ASARCO - EAST HELENA RI/FS PHASE 2 RESIDENTIAL SOIL SAMPLES COLLECTED AUG 6-14, 1991)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/0305 THRU: 436/0305
NOTES: UPDATE 04

FILE: 2030000 DOCNO: 434765 DATE: MAY 17, 1989 PAGE: 2
ATTACHED DOC(S): 434766 THRU: 434774
TITLE: (TRANSMITS AND DISCUSSES DESIGN SPECIFICATIONS FOR ABOVE GROUND TANKS FOR CONTAINING PROCESS WATERS CURRENTLY ROUTED TO LOWER LAKE)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA/EPA
CC: BROWN * KIRLEY * EGGERT * HART * VARNER * DAVIS * ROBBINS * NICKEL * MORISON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0249 THRU: 749/0250
NOTES: UPDATE 10

FILE: 2030000 DOCNO: 434766 DATE: APR. 1989 PAGE: 1
ATTACHED TO: 434765
TITLE: "TANK FARM PROJECT LOCATION MAP, NOTES AND LEGEND; DRAWING 80-1-7680 REVISION 0"
AUTHOR: /THOMAS, DEAN AND HOSKINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0251 THRU: 749/0251
NOTES: UPDATE 10

FILE: 2030000 DOCNO: 434767 DATE: APR. 1989 PAGE: 1
ATTACHED TO: 434765
TITLE: "TANK FARM PROJECT LOCATION MAP, NOTES AND LEGEND; DRAWING 80-1-7680 REVISION 1"
AUTHOR: /THOMAS, DEAN AND HOSKINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0252 THRU: 749/0252
NOTES: UPDATE 10

FILE: 2030000 DOCNO: 434768 DATE: APR. 1989 PAGE: 1
ATTACHED TO: 434765
TITLE: "TANK FARM PROJECT FORCE MAINS AND DRAIN LINE PLAN; DRAWING 80-1-7683 REVISION 0"
AUTHOR: /THOMAS, DEAN AND HOSKINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0253 THRU: 749/0253
NOTES: UPDATE 10

FILE: 2030000 DOCNO: 434769 DATE: APR. 1989 PAGE: 1
ATTACHED TO: 434765
TITLE: "TANK FARM PROJECT FORCE MAINS AND DRAIN LINE PLAN; DRAWING 80-1-7683 REVISION 0" (SIGNED)
AUTHOR: /THOMAS, DEAN AND HOSKINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0254 THRU: 749/0254
NOTES: UPDATE 10

FILE: 2030000 DOCNO: 434770 DATE: APR. 1989 PAGE: 1
ATTACHED TO: 434765
TITLE: "TANK FARM PROJECT TANK FARM PLAN AND DETAILS; DRAWING 80-1-7687 REVISION 0"
AUTHOR: /THOMAS, DEAN AND HOSKINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0255 THRU: 749/0255
NOTES: UPDATE 10

FILE: 2030000 DOCNO: 434771 DATE: APR. 1989 PAGE: 1
ATTACHED TO: 434765
TITLE: "TANK FARM PROJECT TANK FARM PLAN AND DETAILS; DRAWING 80-1-7687 REVISION 1"
AUTHOR: /THOMAS, DEAN AND HOSKINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0256 THRU: 749/0256
NOTES: UPDATE 10

FILE: 2030000 DOCNO: 434772 DATE: APR. 1989 PAGE: 1
ATTACHED TO: 434765
TITLE: "TANK FARM PROJECT TANK FARM DETAILS AND SECTIONS; DRAWING 80-1-7688 REVISION 0"
AUTHOR: /THOMAS, DEAN AND HOSKINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0257 THRU: 749/0257
NOTES: UPDATE 10

FILE: 2030000 DOCNO: 434773 DATE: APR. 1989 PAGE: 1
ATTACHED TO: 434765
TITLE: "TANK FARM PROJECT TANK FARM DETAILS AND SECTIONS; DRAWING 80-1-7689 REVISION 1"
AUTHOR: /THOMAS, DEAN AND HOSKINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0258 THRU: 749/0258
NOTES: UPDATE 10

FILE: 2030000 DOCNO: 434774 DATE: APR. 1989 PAGE: 1
ATTACHED TO: 434765
TITLE: "TANK FARM PROJECT ACID PLANT SUMP AND DETAILS; DRAWING 80-1-7690 REVISION 0"
AUTHOR: /THOMAS, DEAN AND HOSKINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0259 THRU: 749/0259
NOTES: UPDATE 10

FILE: 2030100 DOCNO: 0130348 DATE: APR. 1987 (E) PAGE: 2
TITLE: COMMENTS ON ASARCO RI/FS WORK PLAN FOR PROCESS PONDS
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD** * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/0848 THRU: 318/0849
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0130350 DATE: APR. 30, 1987 PAGE: 4
TITLE: DRAFT "COMMENTS ON THE PROCESS PONDS REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS] WORK PLAN"
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/0850 THRU: 318/0853
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0130354 DATE: APR. 30, 1987 PAGE: 22
TITLE: (TRANSMITS ATTACHED DRAFT PROCESS PONDS RI/FS WORK PLAN)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: RUBICH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0854 THRU: 318/0875
KEYWORD(S): ARSENIC * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0130376 DATE: MAY 15, 1987 PAGE: 31
TITLE: (TRANSMITS ATTACHED COMMENTS ON PROCESS PONDS RI/FS WORK PLAN)
AUTHOR: BUNTE, DAVID J./CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: TAYLOR * SCHWING * LUCERO * HOLM * KOHONOSKI * FEAST * GLANZMAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/0876 THRU: 318/0906
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0130407 DATE: JUN. 1987 PAGE: 31
TITLE: "PROCESS PONDS REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLAN"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/0907 THRU: 318/0937
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0130438 DATE: JUN. 12, 1987 PAGE: 2
TITLE: COMMENTS ON PROCESS PONDS RI/FS WORK PLAN SECOND DRAFT
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: NOTES
CROSS FILE(S):1030100
MICROFILM ROLL/FRAME NO.: 318/0938 THRU: 318/0939
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0130440 DATE: JUN. 12, 1987 PAGE: 2
TITLE: "COMMENTS ON THE PROCESS PONDS RI/FS WORK PLAN SECOND DRAFT"
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 318/0940 THRU: 318/0941
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0130442 DATE: JUN. 12, 1987 PAGE: 32
TITLE: "PROCESS PONDS REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORK PLAN" (ATTACHED TRANSMITTAL FROM NICKEL)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/0942 THRU: 318/0973
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0192293 DATE: NOV. 1989 PAGE: 29
TITLE: DRAFT "PILOT SCALE TESTING WORK PLAN FOR IN SITU TREATMENT OF LOWER LAKE" (ATTACHED TRANSMITTAL FROM MILLER)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/0974 THRU: 318/1002
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0192321 DATE: NOV. 22, 1989 PAGE: 6
TITLE: (NOTES AND COMMENTS DISCUSSING ASARCO NOV. 1989 DRAFT WORK PLAN FOR TREATABILITY TESTS FOR IN SITU TREATMENT OF LOWER LAKE)
AUTHOR: BROWN, SCOTT/EPA * BOB M. * BRAICO, BOB * GREG M. * DAVE B.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * HANDWRITTEN * PROCESS PONDS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 318/1003 THRU: 318/1008
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0192327 DATE: DEC. 1989 PAGE: 55
TITLE: "PILOT SCALE TESTING WORK PLAN FOR IN SITU TREATMENT OF LOWER LAKE" (ATTACHED TRANSMITTAL FROM MILLER AND COMMENTS FROM BUNTE "REVIEW OF EAST HELENA LOWER FEASIBILITY STUDY [FS] WORK PLAN DEC. 1989")
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/1009 THRU: 318/1063
KEYWORD(S): COPPER * ARSENIC * CADMIUM * IRON * LEAD * ZINC
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0192382 DATE: JAN. 4, 1990 PAGE: 2
TITLE: (FINAL COMMENTS CONCERNING REVISED WORK PLAN FOR PILOT SCALE TESTS OF IN SITU TREATMENT OF LOWER LAKE WATER)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MILLER, ROBERT J./HYDROMETRICS
CC: MORENO * BUNTE * MULLEN * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/1064 THRU: 318/1065
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0192384 DATE: JAN. 10, 1990 PAGE: 1
ATTACHED DOC(S): 0192385 THRU: 0192393
TITLE: (ADDRESSES RESPONSES TO LOWER LAKE PILOT SCALE TESTING WORK PLAN COMMENTS NOTING FINAL REQUIREMENTS SATISFIED AND WORK PLAN ACCEPTABLE)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * NICKEL * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/1066 THRU: 318/1066
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0192385 DATE: JAN. 4, 1990 PAGE: 9
ATTACHED TO: 0192384
TITLE: (ADDRESSING UNRESOLVED QUESTIONS AND COMMENTS ON REVISED WORK PLAN FOR PILOT SCALE TESTING OF IN SITU TREATMENT OF LOWER LAKE; ATTACHED TABLES AND FIELD OPERATING PROCEDURES)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MILLER, ROBERT J./HYDROMETRICS
CC: MORENO * BUNTE * MULLEN * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/1067 THRU: 318/1075
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * MERCURY * SELENIUM * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 2030100 DOCNO: 0200620 DATE: NOV. 28, 1989 PAGE: 4
TITLE: (COMMENTS TO ASARCO CONCERNING WORK PLAN FOR TREATABILITY TESTS FOR LOWER LAKE; ATTACHED COMMENTS ON ASARCO PILOT SCALE TESTING WORK PLAN)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./(ASARCO)
CC: WARDELL * MORENO * BUNTE * MULLEN * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/1076 THRU: 318/1079
NOTES: UPDATE 02

FILE: 2030300 DOCNO: 0192394 DATE: JUN. 19, 1975 PAGE: 1
TITLE: "GENERAL RECIRCULATION OF B. F. WATER GENERAL ARRANGEMENT" (SHOWS DISCHARGE OF PROCESS FLUIDS FROM ZINC PLANT INTO LOWER LAKE)
AUTHOR: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
CROSS FILE(S):1020400
MICROFILM ROLL/FRAME NO.: 318/1080 THRU: 318/1080
NOTES: UPDATE 02

FILE: 2030300 DOCNO: 0192395 DATE: JUN. 19, 1975 PAGE: 1
TITLE: "GENERAL ISOLATION OF LOWER LAKE ARRANGEMENT" (SHOWS DISCHARGE OF PROCESS FLUIDS FROM ZINC PLANT INTO LOWER LAKE)
AUTHOR: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
CROSS FILE(S):1020400
MICROFILM ROLL/FRAME NO.: 318/1081 THRU: 318/1081
NOTES: UPDATE 02

FILE: 2030400 DOCNO: 0130474 DATE: APR. 2, 1988 PAGE: 29
TITLE: "SUMMARY OF PLANT PROCESS FLUID WATER QUALITY ANALYSES ASARCO EAST HELENA"
AUTHOR: /ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 318/1082 THRU: 318/1110
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * LEAD * MANGANESE * SILVER * ZINC
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0130504 DATE: JUL. 20, 1988 PAGE: 4
TITLE: "ASSEMBLED ALTERNATIVES THAT PASS PHASE 2 SCREENING (LOWER LAKE, SPEISS POND AND PIT)"
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/1112 THRU: 318/1115
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0161965 DATE: 1989 PAGE: 5
TITLE: (COMMENTS ON PROCESS PONDS RI/FS)
AUTHOR: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 318/1116 THRU: 318/1120
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0161970 DATE: FEB. 24, 1989 PAGE: 15
TITLE: COMMENTS ON DRAFT ASARCO SMELTER RI/FS PROCESS PONDS JAN. 13, 1989
AUTHOR: KIRLEY, KEVIN/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 318/1121 THRU: 318/1135
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0161985 DATE: FEB. 25, 1989 PAGE: 21
TITLE: (COMMENTS ON PROCESS PONDS RI/FS)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 318/1136 THRU: 318/1156
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0162006 DATE: MAY 15, 1989 PAGE: 6
TITLE: "FEDERAL APPLICABLE AND/OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) ASARCO EAST HELENA PROCESS PONDS OU"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/1157 THRU: 318/1162
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0162012 DATE: MAY 17, 1989 PAGE: 6
TITLE: "MONTANA APPLICABLE AND/OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) ASARCO EAST HELENA PROCESS PONDS OU"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/1163 THRU: 318/1168
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0162018 DATE: MAY 16, 1989 PAGE: 55
TITLE: (TRANSMITS ATTACHED FORMAL EPA AND STATE COMMENTS CONCERNING PROCESS PONDS RI/FS REPORT)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: FINKE * MORENO * KIRLEY * EGGERT * BUNTE * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/0820 THRU: 319/0874
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0190697 DATE: JUN. 30, 1989 PAGE: 1
TITLE: (TRANSMITS SECOND DRAFT OF PROCESS PONDS RI/FS REPORT)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: KIRLEY * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/1169 THRU: 318/1169
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0190698 DATE: JUL. 6, 1989 PAGE: 2
TITLE: (ACKNOWLEDGES RECEIPT OF RI/FS REPORT)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MILLER, ROBERT J./HYDROMETRICS
CC: FINKE * MORENO * MULLEN * EGGERT * BUNTE * NICKEL * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/1170 THRU: 318/1171
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0190700 DATE: JUL. 12, 1989 PAGE: 2
TITLE: (COMMENTS ON PROCESS PONDS FS)
AUTHOR: KIRLEY, KEVIN/MDHES
ADDRESSEE: NICKEL, JON/ASARCO
CC: BROWN * MILLER * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/1172 THRU: 318/1173
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0190702 DATE: JUL. 14, 1989 PAGE: 4
TITLE: (STATE COMMENTS ON PROCESS PONDS FS)
AUTHOR: MULLEN, GREG/MDHES * KIRLEY, KEVIN/MDHES
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 318/1174 THRU: 318/1177
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0190706 DATE: JUL. 24, 1989 PAGE: 2
TITLE: (ASARCO RESPONSE TO STATES COMMENTS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: KIRLEY, KEVIN/MDHES
CC: BROWN * MORENO * MILLER * MULLEN * EGGERT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/1178 THRU: 318/1179
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0190708 DATE: AUG. 1989 PAGE: 12
TITLE: "PROPOSED PLAN FOR PROCESS PONDS" (ATTACHED ROUTING SLIP)
AUTHOR: /EPA * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 318/1180 THRU: 318/1191
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0190720 DATE: SEP. 8, 1989 PAGE: 1
TITLE: (TRANSMITS FINAL RI/FS FOR PROCESS PONDS BEFORE PUBLIC MEETING)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MORENO * EGGERT * MULLEN * ROBERTS * DAVIS * NICKEL * HART * LEAP * ROBBINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/1192 THRU: 318/1192
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0190721 DATE: SEP. 8, 1989 PAGE: 510
TITLE: REVISED "PROCESS POND REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) VOL. 1" (ORIGINAL DATE JUN. 1989)
AUTHOR: /HYDROMETRICS * /HUNTER/ESE
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 319/0002 THRU: 319/0511
KEYWORD(S): GROUNDWATER * SOIL * SEDIMENTS * ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0191231 DATE: SEP. 8, 1989 PAGE: 308
TITLE: REVISED "PROCESS POND REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) ASARCO, INC., EAST HELENA, MONTANA (APPENDIX) VOL. 2"
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 319/0512 THRU: 319/0819
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC * SEDIMENTS * SOIL * GROUNDWATER
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0191539 DATE: OCT. 2, 1989 PAGE: 2
TITLE: (PARTIAL RESPONSE TO ASARCO CONCERNING PROCESS PONDS PROPOSED PLAN)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: WARDELL * FINKE * MORENO * MULLEN * BUNTE * LEE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 318/1193 THRU: 318/1194
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0200624 DATE: AUG. 8, 1989 PAGE: 30
TITLE: (TRANSMITS ATTACHED REVISIONS AND MODIFICATIONS TO PROCESS PONDS FS REPORT)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: KIRLEY * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070402
MICROFILM ROLL/FRAME NO.: 318/1195 THRU: 318/1224
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0221661 DATE: SEP. 8, 1989 PAGE: 516
TITLE: "VOL. 1: PROCESS POND REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) ASARCO, INC. EAST HELENA, MONTANA" (VOL. 1 OF 2)
AUTHOR: /HYDROMETRICS * /HUNTER/ESE
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/1225 THRU: 318/1741
KEYWORD(S): ARSENIC * CADMIUM * ANTIMONY * COPPER * IRON * LEAD * MANGANESE * MERCURY * ZINC * THALLIUM * TIN * AIR
NOTES: UPDATE 02

FILE: 2040000 DOCNO: 0222177 DATE: SEP. 8, 1989 PAGE: 308
TITLE: "VOL. 2 APPENDICES PROCESS POND REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) ASARCO, INC. EAST HELENA, MONTANA" (VOL. 2 OF 2)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 318/1742 THRU: 318/2049
KEYWORD(S): COPPER * IRON * LEAD * MANGANESE * MERCURY * ZINC * CADMIUM
NOTES: UPDATE 02

FILE: 2050000 DOCNO: 0191541 DATE: SEP. 1, 1989 PAGE: 20
TITLE: (DISCUSSES AND TRANSMITS ATTACHED PHOTOS USED TO BRIEF REGIONAL ADMINISTRATOR ON PROCESS PONDS PROPOSED PLAN)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/0875 THRU: 319/0894
NOTES: UPDATE 02

FILE: 2050000 DOCNO: 0191561 DATE: SEP. 1, 1989 PAGE: 5
TITLE: (ROD BRIEFING FOR REGIONAL ADMINISTRATOR, PROCESS PONDS, WITH PROCESS POND LOCATION MAP)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/0895 THRU: 319/0899
NOTES: UPDATE 02

FILE: 2050000 DOCNO: 0200654 DATE: NOV. 27, 1989 PAGE: 1
TITLE: (TRANSMITS ROD FOR CONCURRENCE)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: PIZZINI, DONALD E./MDHES
CC: BROWN * MORENO * MULLEN * EGGERT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1086 THRU: 319/1086
NOTES: UPDATE 02

FILE: 2050000 DOCNO: 0211943 DATE: NOV. 6, 1990 PAGE: 1
TITLE: (TRANSMITS DISKS CONTAINING PROCESS PONDS ROD)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * INCOMPLETE * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 319/1087 THRU: 319/1087
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0130508 DATE: MAY 6, 1987 PAGE: 8
TITLE: (TRANSMITS ATTACHED DRAFT LETTER FOR APPROVAL; STATES ASARCO AGREES TO ASSUME RESPONSIBILITY FOR CONDUCTING REMAINING RI/FS AND DISCUSSES NTCRA AT PROCESS PONDS)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FINKE * BROWN * ROBBINS
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * HANDWRITTEN * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1088 THRU: 319/1095
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0192582 DATE: FEB. 7, 1990 PAGE: 1
TITLE: (TRANSMITS DRAFT CONSENT DECREE FOR FIRST OU AT EAST HELENA SMELTER SITE)
AUTHOR: MORENO, SANDRA R./EPA
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 319/1096 THRU: 319/1096
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0192583 DATE: FEB. 1990 PAGE: 37
TITLE: "STATEMENT OF WORK (SOW) FOR REMEDIAL DESIGN AND REMEDIAL ACTION (RD/RA) AT THE EAST HELENA SMELTER SITE PROCESS PONDS OU" (ATTACHED TRANSMITTAL FROM ROBERTS)
AUTHOR: /CH2M HILL
ADDRESSEE: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 319/1097 THRU: 319/1133
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0192620 DATE: MAR. 5, 1990(E) PAGE: 3
TITLE: (ANALYTICAL LAB RESULTS FOR TESTS OF IN SITU TREATMENT OF LOWER LAKE WATER)
AUTHOR: HALM, JUDY/MDHES
ADDRESSEE: MULLEN, GREG
CC: DAVE * BOB
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 319/1134 THRU: 319/1136
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0192623 DATE: MAR. 9, 1990 PAGE: 1
TITLE: (ASARCO INITIAL RESPONSE TO EPA SPECIAL NOTICE LETTER CONCERNING PROCESS PONDS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: HART * DAVIS * LEAP * SANDRA * /CH2M HILL * /MDHES * DAVE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1137 THRU: 319/1137
KEYWORD(S): ASARCO
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0192624 DATE: MAR. 12, 1990 PAGE: 1
TITLE: (ARCO RESPONSE TO EPA SPECIAL NOTICE LETTER CONCERNING PROCESS PONDS)
AUTHOR: DENT, ROBERT L./ARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: DESAUTELS * KRABLIN * MORENO * LEAP * /MDHES * /CH2M HILL * DAVE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1138 THRU: 319/1138
KEYWORD(S): AMC/ARCO
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0200655 DATE: APR. 16, 1990 PAGE: 11
TITLE: (ASARCO RESPONSE TO EPA 104(E) REQUEST FOR INFORMATION ON CONNECTION BETWEEN LOWER LAKE AND ZINC PLANT; ATTACHED DESIGN DRAWINGS: HG-4, 5, 17, 20)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART * DOWNING, PETER W./HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA R./EPA
CC: BROWN * GOODSTEIN * HART * DAVIS * NICKEL * MORISON * SATO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040400 * 1020102
MICROFILM ROLL/FRAME NO.: 319/1139 THRU: 319/1149
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * ASARCO * AMC/ARCO
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0200666 DATE: APR. 25, 1990 PAGE: 6
TITLE: (ARCO RESPONSE TO EPA 104(E) REQUEST CONCERNING ZINC PLANT)
AUTHOR: DESAUTELS, JEFFREY H./ARCO
ADDRESSEE: MORENO, SANDRA R./EPA * BOHAN, SUZANNE/EPA * GOODSTEIN, MICHAEL/DOJ
CC: LEAP * HART * KRABLIN * DENT * LAWRENCE * GREG * TOM * SATO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040400 * 1020102
MICROFILM ROLL/FRAME NO.: 319/1150 THRU: 319/1155
KEYWORD(S): LEAD * ZINC * ASARCO * AMC/ARCO * AMERICAN CHEMET CORPORATION
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212133 DATE: 1977(E) PAGE: 1
ATTACHED DOC(S): 0212134 THRU: 0212196
TITLE: (ACID PLANT SULPHUR BALANCE INFORMATION)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 319/1156 THRU: 319/1156
KEYWORD(S): ZINC
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212134 DATE: MAY 19, 1978 PAGE: 1
ATTACHED TO: 0212133
TITLE: (PARTIAL RESPONSE TO EPA 104 AND 106 REQUESTS CONCERNING ZINC PLANT)
AUTHOR: LANE, STANLEY M./ASARCO
ADDRESSEE: KELTZ, HARRY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1157 THRU: 319/1157
KEYWORD(S): LEAD * ZINC * AIR POLLUTION STANDARDS * ASARCO
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212135 DATE: DEC. 23, 1980 PAGE: 2
ATTACHED TO: 0212133
TITLE: (TRANSMITS EMISSION INVENTORY DATA)
AUTHOR: DESANTIS, P. A./ASARCO
ADDRESSEE: ROBBINS, H./MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1158 THRU: 319/1159
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212137 DATE: NOV. 4, 1980 PAGE: 1
ATTACHED TO: 0212133
TITLE: ASARCO VISIT ON OCT. 30, 1980 WITH EPA CONTRACTORS FROM RADIAN, MRI AND PEDCO
AUTHOR: DAVENPORT, MICHAEL/EPA
ADDRESSEE: /FILES
CC: ROBBIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 319/1160 THRU: 319/1160
KEYWORD(S): LEAD * ZINC
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212138 DATE: JUL. 22, 1979 PAGE: 11
ATTACHED TO: 0212133
TITLE: PARTICULATE AND LEAD STACK TEST AT ASARCO LEAD SMELTER, EAST HELENA ON SEP. 20-29, 1979
AUTHOR: DAVENPORT, MICHAEL/EPA
ADDRESSEE: /FILES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 319/1161 THRU: 319/1171
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212149 DATE: JUL. 1979 PAGE: 7
ATTACHED TO: 0212133
TITLE: DRAFT "EMISSION MEASUREMENTS AT THE ASARCO LEAD SMELTERS IN EAST HELENA, MONTANA: 2 RESULTS, CALCULATIONS AND APPENDIXES"
AUTHOR: BUSIK, JOHN/PACIFIC ENVIRONMENTAL SERVICES * HARRIS, THOMAS O./PACIFIC ENVIRONMENTAL SERVICES
ADDRESSEE: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 319/1172 THRU: 319/1178
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212156 DATE: MAY 3, 1972 PAGE: 41
ATTACHED TO: 0212133
TITLE: (TRANSMITS ATTACHED INFORMATION REGARDING EMISSION STANDARDS AT ANACONDA, GREAT FALLS AND EAST HELENA SMELTER OPERATIONS)
AUTHOR: WEED, ROBERT C./ANACONDA COMPANY
ADDRESSEE: GOODWIN, DON R./EPA
CC: RUCKELSHAUS * ANDERSON * GREEN * ANDERSON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1179 THRU: 319/1219
KEYWORD(S): ZINC * AIR POLLUTION STANDARDS
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212197 DATE: APR. 1990 PAGE: 67
TITLE: DRAFT "COMPREHENSIVE WORK PLAN FOR REMEDIAL DESIGN AND REMEDIAL ACTION (RD/RA) ASARCO EAST HELENA SITE PROCESS (PONDS) OU"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * MARGINALIA * INCOMPLETE * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 319/1220 THRU: 319/1287
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212264 DATE: APR. 13, 1990 PAGE: 6
TITLE: (104E REQUEST FROM EPA TO ASARCO FOR MORE INFORMATION REGARDING ZINC PLANT)
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: BOHAN * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1288 THRU: 319/1293
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212270 DATE: MAY 1, 1990 PAGE: 3
ATTACHED DOC(S): 0212273 THRU: 0212405
TITLE: (ASARCO RESPONSE [GOOD FAITH OFFER] TO DRAFT CONSENT DECREE AND SPECIAL NOTICE LETTER FOR PROCESS PONDS RD/RA)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART * DOWNING, PETER W./HOLLAND AND HART
ADDRESSEE: BOHAN, SUZANNE/EPA * BROWN, D. SCOTT/EPA
CC: GOODSTEIN * DESAUTELS * LAWRENCE * HART * DESANTIS * DAVIS * NICKEL * ROBBINS * THORP * MORISON * /CH2M HILL * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: MEMO
CROSS FILE(S):1040400
MICROFILM ROLL/FRAME NO.: 319/1294 THRU: 319/1296
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212273 DATE: APR. 1990 (E) PAGE: 11
ATTACHED TO: 0212270
TITLE: COMMENTS ON PROPOSED CONSENT DECREE FOR EAST HELENA PROCESS PONDS OPERABLE SUBUNIT
AUTHOR: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1040400
MICROFILM ROLL/FRAME NO.: 319/1297 THRU: 319/1307
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212284 DATE: 1990(E) PAGE: 122
ATTACHED TO: 0212270
TITLE: "IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF MONTANA MISSOULA DIVISION UNITED STATES OF AMERICA PLAINTIFF, V. ASARCO INCORPORATED; AND ANACONDA MINERALS COMPANY (AMC) DEFENDANTS. CIVIL ACTION NO. CONSENT DECREE"
AUTHOR: /DOJ * /EPA
ADDRESSEE: /ASARCO * /ARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LEGAL DOCUMENT
CROSS FILE(S):1040400
MICROFILM ROLL/FRAME NO.: 319/1308 THRU: 319/1429
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212406 DATE: MAY 9, 1990 PAGE: 2
TITLE: (TRANSMITS ENGINEERING DRAWINGS FOR TANK REPLACING THORNOCK LAKE; WITH COPY)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: MULLEN, GREG/MDHES
CC: BROWN * LEAP * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * MARGINALIA * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1430 THRU: 319/1431
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212408 DATE: MAY 14, 1990 PAGE: 1
TITLE: (EPA RESPONSE TO ASARCO GOOD FAITH OFFER FOR PROCESS PONDS RD/RA; GRANTS EXTENSION ON NEGOTIATION MORATORIUM)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1432 THRU: 319/1432
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212409 DATE: MAY 14, 1990 PAGE: 2
TITLE: (EPA RESPONSE TO ARCO GOOD FAITH OFFER FOR PROCESS PONDS RD/RA; GRANTS EXTENSION ON NEGOTIATION MORATORIUM)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: DENT, ROBERT L./ARCO
CC: BOHAN * BROWN * GOODSTEIN * MANGONE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1433 THRU: 319/1434
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212410 DATE: MAY 14, 1990 PAGE: 2
TITLE: (RESPONSE TO EPA TO ARCO GOOD FAITH OFFER REGARDING PROCESS PONDS)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: DENT, ROBERT L./ARCO
CC: BOHAN * BROWN * GOODSTEIN * MANGONE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 319/1435 THRU: 319/1436
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212411 DATE: MAY 14, 1990 PAGE: 2
TITLE: (EPA ACCEPTANCE OF GOOD FAITH OFFER BY ASARCO REGARDING PROCESS PONDS OU)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: BOHAN * BROWN * GOODSTEIN * MANGONE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1437 THRU: 319/1438
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212412 DATE: MAY 15, 1990 PAGE: 3
TITLE: (EPA RESPONSE TO ARCO LETTERS CONTENDING NO LIABILITY)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: DESAUTELS, JEFFERY H./ARCO
CC: BROWN * GOODSTEIN * MANGONE * LAWRENCE * RAISCH * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1439 THRU: 319/1441
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212415 DATE: MAY 21, 1990 PAGE: 15
DUPLICATE DOCUMENT: 2030000/434796
TITLE: (ARCO PARTIAL RESPONSE TO EPA SPECIAL NOTICE LETTER REGARDING ZINC FUMING PLANT AND LOWER LAKE)
AUTHOR: DESAUTELS, JEFFREY H./ARCO
ADDRESSEE: WARDELL, JOHN F./EPA * BOHAN, SUZANNE J./EPA
CC: GOODSTEIN * EGGERT * CRANE * TETER * KRABLIN * DENT * LAWRENCE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1442 THRU: 319/1456
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * IRON
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212430 DATE: MAY 29, 1990 PAGE: 2
TITLE: (ASARCO REQUEST FOR SECOND EXTENSION OF NEGOTIATION PERIOD FOR PROCESS PONDS CONSENT DECREE)
AUTHOR: DOWNING, PETER W./HOLLAND AND HART * LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: BOHAN, SUZANNE J./EPA
CC: HART * DAVIS * NICKEL * ROBBINS * THORP * MORISON * WARDELL * FOX
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1457 THRU: 319/1458
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212432 DATE: JUN. 1990 PAGE: 83
TITLE: FINAL "COMPREHENSIVE WORK PLAN FOR REMEDIAL DESIGN AND REMEDIAL ACTION (RD/RA) ASARCO EAST HELENA SITE PROCESS PONDS OU" (ATTACHED TRANSMITTAL FROM MILLER)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 319/1459 THRU: 319/1542
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212515 DATE: JUN. 5, 1990 PAGE: 1
TITLE: (RESPONSE TO ASARCO REQUEST FOR EXTENSION TO NEGOTIATE CONSENT DECREE)
AUTHOR: BOHAN, SUZANNE/EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART * DOWNING, PETER W./HOLLAND AND HART
CC: WARDELL * BROWN * GOODSTEIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1543 THRU: 319/1543
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0212516 DATE: JUN. 20, 1990 PAGE: 2
TITLE: (REQUESTS EXTENSION TO CONDUCT CONSENT DECREE NEGOTIATIONS)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART * DOWNING, PETER W./HOLLAND AND HART
ADDRESSEE: CRANE, JODY/EPA * BOHAN, SUZANNE J./EPA
CC: GOODSTEIN * DESANTIS * HART * NICKEL * THORP * MORISON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/1544 THRU: 319/1545
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0220004A DATE: MAY 18, 1990 PAGE: 8
TITLE: COST SUMMARY REPORT EAST HELENA SITE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: ACCOUNTING DOCUMENT
MICROFILM ROLL/FRAME NO.: 319/1546 THRU: 319/1553
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0220272A DATE: JUN. 1990 PAGE: 73
TITLE: "COMPREHENSIVE WORK PLAN FOR REMEDIAL DESIGN AND REMEDIAL ACTION (RD/RA) ASARCO EAST HELENA SITE PROCESS PONDS OU"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 319/1813 THRU: 319/1885
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL * SEDIMENTS
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0220350 DATE: JUL. 1990 PAGE: 60
TITLE: DRAFT "COMPREHENSIVE WORK PLAN FOR REMEDIAL DESIGN AND REMEDIAL ACTION (RD/RA) ASARCO EAST HELENA SITE PROCESS PONDS OU, APPENDIX 7-1: SITE HEALTH AND SAFETY PLAN" (ATTACHED TRANSMITTAL FROM MILLER)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
CC: /FILES * /CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * MARGINALIA * SAMPLING/ANALYSES/DATA * REPRODUCTION * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 319/1886 THRU: 319/1945
KEYWORD(S): ARSENIC * LEAD * MANGANESE
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0220410 DATE: JUL. 1990 PAGE: 126
TITLE: DRAFT "COMPREHENSIVE WORK PLAN FOR REMEDIAL DESIGN AND REMEDIAL ACTION (RD/RA) ASARCO EAST HELENA SITE PROCESS PONDS OU, APPENDIX 7-2: SAMPLING AND ANALYSIS PLAN (SAP); PART 1: FIELD SAMPLING PLAN; PART 2: QUALITY ASSURANCE PROJECT PLAN (QAPP)"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * SAMPLING/ANALYSES/DATA * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 319/1946 THRU: 319/2071
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * MERCURY * ZINC * IRON * GROUNDWATER * SEDIMENTS
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0222485 DATE: JUL. 12, 1990 PAGE: 1
TITLE: (NOTIFIES THAT NICKEL HAS BEEN DESIGNATED ASARCO PROJECT COORDINATOR FOR PROCESS PONDS CONSENT DECREE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * BOHAN, SUZANNE/EPA
CC: MULLEN * EGGERT * HART * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2072 THRU: 319/2072
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0222486 DATE: AUG. 13, 1990 PAGE: 1
TITLE: (NOTIFIES THAT BROWN HAS BEEN DESIGNATED PROJECT COORDINATOR FOR PROCESS PONDS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: WARDELL * BOHAN * MCCORMICK * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2073 THRU: 319/2073
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0222487 DATE: JUL. 27, 1990 PAGE: 1
TITLE: (STATES GOODSTEIN ASSIGNED ATTORNEY TO U.S. V. ASARCO EAST HELENA SUPERFUND SITE CERCLA DIRECT CIVIL REFERRAL CASE)
AUTHOR: BUENTE, DAVID T./DOJ
ADDRESSEE: SCHERER, JAMES J./EPA
CC: STROCK * DUNBAR * SPEICHER * VANSLYKE * GELBER * GOODSTEIN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2074 THRU: 319/2074
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0222488 DATE: AUG. 13, 1990 PAGE: 1
TITLE: (ACKNOWLEDGES RECEIPT OF SAP FOR PROCESS PONDS RD/RA AND RAW DATA FOR GROUNDWATER SAMPLES)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: MCCORMICK * BOHAN * MULLEN * BLUCK * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2075 THRU: 319/2075
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0222489 DATE: AUG. 21, 1990 PAGE: 1
TITLE: (COMMENTS ON SAP AND HEALTH AND SAFETY PLAN FOR PROCESS PONDS RD/RA)
AUTHOR: BOHAN, SUZANNE/EPA
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 319/2076 THRU: 319/2076
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0222490 DATE: AUG. 30, 1990 PAGE: 1
ATTACHED DOC(S): 0222491 THRU: 0222522
TITLE: (TRANSMITS COMMENTS ON EAST HELENA PROCESS PONDS FIELD SAMPLING PLAN, SAP FOR RD/RA AND QAPP BY ENVIRONMENTAL SERVICE DIVISION)
AUTHOR: LUEY, JAMES/EPA
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 319/2077 THRU: 319/2077
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0222491 DATE: AUG. 20, 1990 PAGE: 4
ATTACHED TO: 0222490
TITLE: (REVIEWS PART 1, FIELD SAMPLING PLAN (FSP) AND PART 2, QUALITY ASSURANCE PROJECT PLAN (QAPP) OF APPENDIX 72, SAMPLING AND ANALYSIS PLANS (SAP) FOR THE COMPREHENSIVE WORK PLAN FOR REMEDIAL DESIGN AND REMEDIAL ACTION (RD/RA), ASARCO EAST HELENA SITE PROCESS PONDS OU)
AUTHOR: REED, JOE/ICF
ADDRESSEE: WARNER, BILL/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 319/2078 THRU: 319/2081
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0222495 DATE: DEC. 29, 1980 PAGE: 28
ATTACHED TO: 0222490
TITLE: "INTERIM GUIDELINES AND SPECIFICATIONS FOR PREPARING QUALITY ASSURANCE PROJECT PLANS (QAPP)"
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 319/2082 THRU: 319/2109
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0222523 DATE: SEP. 3, 1990 PAGE: 12
TITLE: (TRANSMITS ATTACHED DRAFT SMELTER TREATMENT AND DESIGN DEMONSTRATION PLAN)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BOHAN * MULLEN * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2110 THRU: 319/2121
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230001 DATE: SEP. 13, 1990 PAGE: 340
TITLE: (TRANSMITS ATTACHED LODGING OF COMPLAINT AND CONSENT DECREE FOR PROCESS PONDS RD/RA CIVIL ACTION CV-90-46-H-CCL; EFFECTIVE DATE OCT. 25, 1990)
AUTHOR: GOODSTEIN, MICHAEL/DOJ
ADDRESSEE: BOHAN, SUZANNE/EPA
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040400
MICROFILM ROLL/FRAME NO.: 320/0002 THRU: 320/0345
DOCKET NO.: CV-90-46-H-CCL
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230341 DATE: SEP. 14, 1990 PAGE: 1
TITLE: (DISCUSSES LODGING OF PROCESS PONDS CONSENT DECREE)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: PIZZINI, DON/EPA
CC: WARDELL * BOHAN * MULLEN * EGGERT * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
CROSS FILE(S):1040400
MICROFILM ROLL/FRAME NO.: 320/0346 THRU: 320/0346
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230342 DATE: OCT. 10, 1990 PAGE: 1
ATTACHED DOC(S): 0230343 THRU: 0230348
TITLE: (TRANSMITS REVIEW COMMENTS ON APPENDIX 7-2: SAP; PART 1: FIELD SAMPLING PLAN AND PART 2: QAPP)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 320/0347 THRU: 320/0347
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230343 DATE: AUG. 20, 1990 PAGE: 6
ATTACHED TO: 0230342
TITLE: (REVIEW COMMENTS OF APPENDIX 7-2: SAP; PART 1: FIELD SAMPLING PLAN AND PART 2: QAPP)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 320/0348 THRU: 320/0353
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230349 DATE: OCT. 15, 1990 PAGE: 77
TITLE: (NOTIFICATION LSE HAS BEEN SELECTED CONTRACTOR FOR ACID PLANT WASTE WATER TREATMENT FACILITY PURSUANT TO CONSENT DECREE; ATTACHED STATEMENT OF QUALIFICATIONS, ARCHITECT-ENGINEER QUESTIONNAIRE AND RELATED SERVICES FOR SPECIFIC PROJECT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BOHAN * HART * LEAP * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2122 THRU: 319/2198
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230426 DATE: OCT. 19, 1990 PAGE: 6
TITLE: (PROGRESS REPORT REQUIRED UNDER CONSENT DECREE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * PROJECT MANAGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2199 THRU: 319/2204
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230432 DATE: OCT. 19, 1990 PAGE: 6
TITLE: (SEP. 1990 PROGRESS REPORT ON RD/RA FOR PROCESS PONDS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
CC: BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2205 THRU: 319/2210
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230438 DATE: OCT. 22, 1990 PAGE: 35
TITLE: (NOTIFICATION OF QUALIFICATIONS OF LACY AND EBLING ENGINEERING AS RD/RA CONTRACTOR FOR PROCESS PONDS; ATTACHED SOQ AND ARCHITECT-ENGINEER RELATED SERVICES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BOHAN * HART * LEAP * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2211 THRU: 319/2245
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230473 DATE: OCT. 23, 1990 PAGE: 58
TITLE: (TRANSMITS ATTACHED NOTIFICATION HYDROMETRICS SELECTED AS RD/RA CONTRACTOR FOR PROCESS PONDS; ATTACHED SOQ, ARCHITECT-ENGINEER QUESTIONNAIRE AND RELATED SERVICES FOR SPECIFIC PROJECT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BOHAN * HART * LEAP * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2246 THRU: 319/2303
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230531 DATE: OCT. 26, 1990 PAGE: 3
TITLE: (TRANSMITS ATTACHED CRITERIA ASARCO USED TO SELECT RD/RA CONTRACTORS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2304 THRU: 319/2306
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230534 DATE: OCT. 29, 1990 PAGE: 1
TITLE: (ACCEPTANCE OF STATEMENT OF QUALIFICATIONS FOR RD/RA CONTRACTORS)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 319/2307 THRU: 319/2307
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230535 DATE: OCT. 29, 1990 PAGE: 2
TITLE: (REVIEW COMMENTS ON DRAFT COMPREHENSIVE WORK PLAN FOR RD/RA, SMELTER TREATMENT AND DESIGN DEMONSTRATION PLAN SEP. 3, 1990)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: FISCHER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 319/2308 THRU: 319/2309
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230537 DATE: AUG. 30, 1990 PAGE: 1
ATTACHED DOC(S): 0230538 THRU: 0230542
TITLE: (TRANSMITS COMMENTS FROM QUALITY ASSURANCE REGARDING SAP FOR PROCESS PONDS RD/RA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MILLER, ROBERT/HYDROMETRICS
CC: BOHAN * MCCORMICK * MULLEN * LUEY * BLUCK * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2310 THRU: 319/2310
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230538 DATE: AUG. 30, 1990 PAGE: 5
ATTACHED TO: 0230537
TITLE: (TRANSMITS ATTACHED REVIEW COMMENTS ON EAST HELENA PROCESS PONDS FIELD SAMPLING PLAN AND QAPP)
AUTHOR: LUEY, JAMES/EPA
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 319/2311 THRU: 319/2315
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230543 DATE: NOV. 2, 1990 PAGE: 5
TITLE: (TRANSMITS ATTACHED MEMO FROM BLUCK REVIEWING COMMENTS ON SMELTER DEMONSTRATION PLAN AND CONTRACTORS STATEMENTS OF QUALIFICATIONS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * MULLEN * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2316 THRU: 319/2320
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230548 DATE: NOV. 7, 1990 PAGE: 1
TITLE: (COMMENTS ON SAP FOR PROCESS PONDS RD/RA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * MULLEN * BLUCK * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2321 THRU: 319/2321
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230549 DATE: DEC. 21, 1990 PAGE: 1
ATTACHED DOC(S): 0230550 THRU: 0230605
TITLE: (TRANSMITS ASARCO RESPONSES TO COMMENTS ON HEALTH AND SAFETY PLAN AND SAP)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2322 THRU: 319/2322
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230550 DATE: AUG. 20, 1990 PAGE: 56
ATTACHED TO: 0230549
TITLE: (ASARCO RESPONSES TO EPA COMMENTS ON RD/RA SAP)
AUTHOR: /ASARCO
CC: LUEY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 319/2323 THRU: 319/2378
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 0230606 DATE: MAR. 8, 1991 PAGE: 2
TITLE: (APPROVES RD/RA HEALTH AND SAFETY PLAN)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * MULLEN * BLUCK * LUEY * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * CONCURRENCE COPY ATTACHED * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 319/2379 THRU: 319/2380
NOTES: UPDATE 02

FILE: 2060000 DOCNO: 402753 DATE: MAY 28, 1991 PAGE: 3
TITLE: (STATE PROJECT OFFICERS COMMENTS ON PRELIMINARY DESIGN OF PROCESS PONDS)
AUTHOR: MULLEN, GREGORY/MDHES
ADDRESSEE: BROWN, SCOTT/(EPA)
CC: ZACKHEIM
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/0387 THRU: 415/0389
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402757 DATE: JAN. 30, 1991 PAGE: 1
TITLE: (NOTIFICATION OF PROCESS PONDS CONSENT DECREE FILED WITH COUNTY CLERK AND RECORDER)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0465 THRU: 415/0465
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402758 DATE: FEB. 19, 1991 PAGE: 5
TITLE: (PROGRESS REPORT 5 REQUIRED BY PROCESS PONDS OU EAST HELENA SITE CONSENT DECREE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * ATTORNEY/DOJ * PROJECT MANAGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/0466 THRU: 415/0470
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402759 DATE: MAR. 25, 1991 PAGE: 2
TITLE: (REQUEST BY ASARCO TO DELAY PORTIONS OF PROCESS PONDS DELIVERABLES IN FAVOR OF COMPLETING EE/CA REQUIREMENTS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070200
MICROFILM ROLL/FRAME NO.: 415/0471 THRU: 415/0472
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402760 DATE: MAR. 29, 1991 PAGE: 3
ATTACHED DOC(S): 402761
TITLE: (RESPONSE TO ASARCO REQUEST FOR EXTENSION TO COMPLETE 30 PERCENT RD REPORT; CD MODIFICATION)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * GOODSTEIN * MULLEN * EGGERT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0473 THRU: 415/0475
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402761 DATE: MAR. 25, 1991 PAGE: 3
ATTACHED TO: 402760
TITLE: (REQUESTS EXTENSION TO COMPLETE RD/RA REPORTS NO LATER THAN APR. 24, 1991; ATTACHED FAX TO BOHAN FROM BROWN)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0476 THRU: 415/0478
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402762 DATE: APR. 1, 1991 PAGE: 79
TITLE: "NEW CONSTRUCTION PRELIMINARY DESIGN REPORT ASARCO EAST HELENA SITE PROCESS PONDS OU"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/0479 THRU: 415/0565
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402763 DATE: APR. 1, 1991 PAGE: 1
TITLE: (TRANSMITS DRAFT PROCESS PONDS PRELIMINARY DESIGN REPORTS FOR DEMOLITION, SEDIMENT AND SOIL EXCAVATION, SCREENING AND WASHING, NEW CONSTRUCTION AND LOWER LAKE)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * DOJ ATTORNEY * NICKEL * DAVIS * HART * ROBBINS * THORP * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0566 THRU: 415/0566
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402764 DATE: APR. 1, 1991 PAGE: 48
ATTACHED TO: 402763
TITLE: "DEMOLITION PRELIMINARY DESIGN REPORT ASARCO EAST HELENA SITE PROCESS PONDS OU"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/0567 THRU: 415/0617
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402765 DATE: APR. 1, 1991 PAGE: 58
TITLE: "PRELIMINARY DESIGN REPORT REMEDIAL DESIGN (RD) FOR SEDIMENTS AND SOIL EXCAVATION, SCREENING AND WASHING ASARCO EAST HELENA SITE PROCESS PONDS OU"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/0618 THRU: 415/0681
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402766 DATE: APR. 1, 1991 PAGE: 84
TITLE: "REMEDIAL DESIGN (RD) FOR LOWER LAKE ASARCO EAST HELENA SITE PROCESS PONDS OU"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/0682 THRU: 415/0766
KEYWORD(S): ARSENIC * MANGANESE * GROUNDWATER * AIR * COPPER * IRON * MERCURY * ZINC * LEAD * CADMIUM
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402767 DATE: APR. 24, 1991 PAGE: 36
TITLE: "BENCH SCALE AND PILOT SCALE TESTING WORK PLAN FOR SCREENING AND WASHING OF EXCAVATED SOILS ASARCO EAST HELENA SITE"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/0767 THRU: 415/0803
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * MERCURY * SELENIUM * THALLIUM * ZINC
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402768 DATE: APR. 24, 1991 PAGE: 29
TITLE: "PRELIMINARY DESIGN REPORT REDUCTION OF PROCESS CIRCUIT GAINS ASARCO EAST HELENA SITE"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/0804 THRU: 415/0832
KEYWORD(S): GROUNDWATER
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402769 DATE: APR. 24, 1991 PAGE: 45
TITLE: "BENCH SCALE AND PILOT SCALE TESTING WORK PLAN FOR DREDGING, HANDLING AND TREATMENT OF LOWER LAKE SLUDGES AND SEDIMENTS ASARCO EAST HELENA SITE"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/0833 THRU: 415/0877
KEYWORD(S): GROUNDWATER
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402770 DATE: APR. 24, 1991 PAGE: 1
TITLE: (TRANSMITS DRAFT PROCESS PONDS PRELIMINARY DESIGN REPORTS FOR REDUCTION OF PROCESS CIRCUIT GAIN, LOWER LAKE, SEDIMENT AND SOIL SCREENING AND WASHING)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * DOJ ATTORNEY * NICKEL * DAVIS * HART * ROBBINS * THORP * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0878 THRU: 415/0878
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402771 DATE: APR. 24, 1999 (1991) PAGE: 1
ATTACHED DOC(S): 402772 THRU: 402773
TITLE: (TRANSMITS MODIFICATION TO CONSENT DECREE CV-90-46-H-CCL)
AUTHOR: BOHAN, SUZANNE/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: GOODSTEIN * BROWN * LEAP * BASSEIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0879 THRU: 415/0879
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402772 DATE: APR. 26, 1999 (1991) PAGE: 1
ATTACHED TO: 402771
TITLE: (TRANSMITS MODIFICATION OF CONSENT DECREE CIVIL ACTION CV-90-46-H-CCL EXTENDING RD/RA PRELIMINARY DESIGN REPORTS SUBMITTAL DATES)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: GOODSTEIN, MICHAEL D./DOJ
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0880 THRU: 415/0880
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402773 DATE: APR. 24, 1991 PAGE: 4
ATTACHED TO: 402771
TITLE: "IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF MONTANA MISSOULA DIVISION UNITED STATES OF AMERICA PLAINTIFF, VS. ASARCO, INCORPORATED, DEFENDANT. CIVIL ACTION NO. CV-90-46-H-CCL" (SIGNED; ATTACHED COPY)
AUTHOR: DUPREY, ROBERT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 415/0881 THRU: 415/0884
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402774 DATE: MAY 16, 1991 PAGE: 5
TITLE: (PROCESS PONDS PROGRESS REPORT 8)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * ATTORNEY/DOJ * PROJECT MANAGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0885 THRU: 415/0889
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402775 DATE: MAY 17, 1991 PAGE: 1
ATTACHED DOC(S): 402776
TITLE: (TRANSMITS RESPONSE TO CH2M HILL REVIEW OF PILOT SCALE TESTING FOR IN SITU TESTING OF LOWER LAKE WATER)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN * BLUCK * BROWN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0890 THRU: 415/0890
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402776 DATE: MAY 10, 1991 PAGE: 5
ATTACHED TO: 402775
TITLE: (RESPONSE TO CH2M HILL REVIEW OF HYDROMETRICS REPORT PILOT SCALE TESTING FOR IN SITU TESTING OF LOWER LAKE WATER; ATTACHED TABLE DEPICTING BENCH SCALE AND PILOT SCALE TESTING RESULTS)
AUTHOR: BRAICO, ROBERT D./HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
CC: BLUCK * BROWN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0891 THRU: 415/0895
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402777 DATE: MAY 23, 1991 PAGE: 14
TITLE: (CH2M HILL TECHNICAL COMMENTS ON 30% COMPLETION DESIGN REPORTS FOR RD/RA ACTIVITIES ON PROCESS PONDS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: BUNTE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/0896 THRU: 415/0909
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402778 DATE: MAY 24, 1991 PAGE: 15
TITLE: (FINAL COMMENTS FROM CH2M HILL ON 30% COMPLETION DESIGN REPORTS FOR PROCESS PONDS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: BUNTE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/0910 THRU: 415/0924
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402779 DATE: MAY 28, 1991 PAGE: 2
TITLE: (PROCESS PONDS UPDATE AND STATUS OF REPLACING EXISTING POND AND SETTLING SYSTEM WITH MECHANICAL DEWATERING/TREATMENT SYSTEM)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0925 THRU: 415/0926
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402780 DATE: MAY 31, 1991 PAGE: 6
TITLE: (ASARCO RESPONSE CONCERNING LIMIT ON NEGOTIATIONS FOR RESPONSE COST RECOVERY; ATTACHED STATUS OF REQUESTED COST DOCUMENTATION)
AUTHOR: DAVIS, J. B./ASARCO
ADDRESSEE: SCHERER, JAMES J./EPA
CC: BOHAN * GOODSTEIN * STURN * BROWN * JENSEN * HART * NICKEL * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1020400
MICROFILM ROLL/FRAME NO.: 415/0927 THRU: 415/0932
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402781 DATE: JUN. 17, 1991 PAGE: 2
ATTACHED DOC(S): 402782
TITLE: (REQUEST FROM ASARCO TO PRODUCE SPEISS AND MATTE PRODUCT BY AIR GRANULATION ELIMINATING NEED FOR LINER)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: DAVIS * ROBBINS * HART * LEAP * THORP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0933 THRU: 415/0934
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402782 DATE: JUN. 1991(E) PAGE: 2
ATTACHED TO: 402781
TITLE: (COMMENTS REGARDING SPEISS AND MATTE PRODUCT BY AIR GRANULATION AND PROBLEMS WITH OLD METHODS)
AUTHOR: BARTSCH, PAUL
ADDRESSEE: NICKEL, JON/(ASARCO)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/0935 THRU: 415/0936
KEYWORD(S): COPPER * GROUNDWATER
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402783 DATE: JUN. 19, 1991 PAGE: 5
TITLE: (PROCESS PONDS PROGRESS REPORT 9)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * ATTORNEY/DOJ * PROJECT MANAGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0937 THRU: 415/0941
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402784 DATE: JUL. 2, 1991 PAGE: 2
TITLE: (APPROVES ASARCO REQUEST TO ELIMINATE SPEISS PIT LINER DUE TO AIR GRANULATION TECHNIQUE DEVELOPED)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * MULLEN * BLUCK * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0942 THRU: 415/0943
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402785 DATE: JUL. 12, 1991 PAGE: 30
TITLE: (TRANSMITS ATTACHED QUALIFICATIONS FOR TETRA TECHNOLOGIES CHOSEN AS PROCESS PONDS CONTRACTOR)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BOHAN * HART * LEAP * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0944 THRU: 415/0973
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402786 DATE: JUL. 19, 1991 PAGE: 5
TITLE: (PROCESS PONDS PROGRESS REPORT 10)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * ATTORNEY/DOJ * PROJECT MANAGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0974 THRU: 415/0978
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402787 DATE: JUL. 19, 1991 PAGE: 1
TITLE: (APPROVES TETRA TECHNOLOGIES FOR RD/RA WORK FOR PROCESS PONDS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: BOHAN * BLUCK * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0979 THRU: 415/0979
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402788 DATE: JUL. 22, 1991 PAGE: 1
TITLE: (STATUS REPORT ASARCO RD OF PROCESS PONDS OU)
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/0980 THRU: 415/0980
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402789 DATE: DEC. 13, 1990 PAGE: 5
TITLE: PROGRESS REPORT 3 FOR PROCESS PONDS RD/RA
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0981 THRU: 415/0985
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402790 DATE: JAN. 17, 1991 PAGE: 5
TITLE: PROGRESS REPORT 4 FOR PROCESS PONDS RD/RA
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * ATTORNEY/DOJ * PROJECT MANAGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0986 THRU: 415/0990
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402791 DATE: JAN. 18, 1991 PAGE: 2
TITLE: (CONFIRMATION OF OCT. 16 DISCUSSION REGARDING PHASE 2 IN SITU PILOT SCALE TESTING)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0991 THRU: 415/0992
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402792 DATE: MAR. 19, 1991 PAGE: 5
TITLE: PROGRESS REPORT 6 FOR PROCESS PONDS RD/RA
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * ATTORNEY/DOJ * PROJECT MANAGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0993 THRU: 415/0997
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402793 DATE: APR. 3, 1991 PAGE: 1
ATTACHED DOC(S): 402794
TITLE: (TRANSMITS MODIFICATION TO CONSENT DECREE FOR PROCESS PONDS)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BOHAN, SUZANNE/EPA
CC: GOODSTEIN * EGGERT * BROWN * HART * DAVIS * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/0998 THRU: 415/0998
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402794 DATE: 1991 PAGE: 2
ATTACHED TO: 402793
TITLE: "IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF MONTANA MISSOULA DIVISION UNITED STATES OF AMERICA, PLAINTIFF, VS. ASARCO INCORPORATED, DEFENDANT. CIVIL ACTION NO. CV-90-46-H-CCL MODIFICATION OF THE CONSENT DECREE"
AUTHOR: /UNITED STATES
ADDRESSEE: NICKEL, JON C./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 415/0999 THRU: 415/1000
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402795 DATE: APR. 18, 1991 PAGE: 5
TITLE: PROGRESS REPORT 7 ON PROCESS PONDS RD/RA
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * ATTORNEY/DOJ * PROJECT MANAGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1001 THRU: 415/1005
NOTES: UPDATE 03

FILE: 2060000 DOCNO: 402972 DATE: JUL. 29, 1991 PAGE: 82
TITLE: "PRE-FINAL DESIGN REPORT REMEDIAL DESIGN (RD) FOR SEDIMENT AND SOIL EXCAVATION AND SMELTING ASARCO EAST HELENA SITE PROCESS PONDS OU"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/0306 THRU: 436/0386
KEYWORD(S): SILVER * ARSENIC * CADMIUM * COPPER * MERCURY * BARIUM * LEAD * SELENIUM * ZINC * IRON
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402973 DATE: JUL. 29, 1991 PAGE: 50
TITLE: "PRE-FINAL DEMOLITION DESIGN REPORT ASARCO EAST HELENA SITE PROCESS PONDS OU" (ATTACHED TRANSMITTAL FROM BRAICO)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/0387 THRU: 436/0436
KEYWORD(S): ARSENIC
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402974 DATE: JUL. 29, 1991 PAGE: 4
ATTACHED DOC(S): 402975
TITLE: (ASARCO REQUEST FOR EXTENSION TO COMPLETE RD REPORTS ON PROCESS PONDS)
AUTHOR: BRAICO, ROBERT D./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN * /DOJ
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0437 THRU: 436/0440
KEYWORD(S): ARSENIC * SEDIMENTS
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402975 DATE: JUL. 1991 (E) PAGE: 4
ATTACHED TO: 402974
TITLE: "ESTIMATED GROUNDWATER IMPACTS ASSOCIATED WITH BOTTOM SEDIMENT REMOVAL FROM LOWER LAKE PRIOR TO IN-SITU TREATMENT OF LOWER LAKE FLUIDS"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/0441 THRU: 436/0444
KEYWORD(S): ARSENIC * LEAD * GROUNDWATER * SURFACE WATER * SEDIMENTS
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402976 DATE: JUL. 29, 1991 PAGE: 2
TITLE: (ARARS REPORT FOR PROCESS PONDS OU)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BOHAN * GOODSTEIN * MULLEN * HART * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0445 THRU: 436/0446
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402977 DATE: AUG. 18, 1991 PAGE: 2
TITLE: (COMMENTS ON LOWER LAKE DREDGING PROPOSAL)
AUTHOR: SONDEREGGER, JOHN/MONTANA TECH
ADDRESSEE: MULLEN, GREG/MDHES
CC: DUAIME
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 436/0447 THRU: 436/0448
KEYWORD(S): ARSENIC
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402978 DATE: AUG. 20, 1991 PAGE: 6
TITLE: (PROGRESS REPORT 11 FOR PROCESS PONDS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0449 THRU: 436/0454
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402979 DATE: SEP. 11, 1991 PAGE: 1
ATTACHED DOC(S): 402980
TITLE: (TRANSMITS COMMENTS ON PRE-FINAL RD REPORTS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * BLUCK * MULLEN * BRAICO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0455 THRU: 436/0455
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402980 DATE: SEP. 3, 1991 PAGE: 3
ATTACHED TO: 402979
TITLE: (REVIEW COMMENTS ON JUL. 29, 1991 PRE-FINAL DESIGN REPORTS FOR DEMOLITION AND RD FOR SEDIMENT AND SOIL EXCAVATION AND SMELTING, EAST HELENA PROCESS PONDS OU)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 436/0456 THRU: 436/0458
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402981 DATE: SEP. 19, 1991 PAGE: 6
TITLE: (PROGRESS REPORT 12 FOR PROCESS PONDS RD/RA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
CC: DAVIS * ROBBINS * HART * LEAP * THORP * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0459 THRU: 436/0464
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402982 DATE: OCT. 1, 1991 PAGE: 2
ATTACHED DOC(S): 402983 THRU: 402984
TITLE: (OUTLINE FOR DISCUSSION AT MEETING CONCERNING PROGRESS OF RD/RA FOR PROCESS PONDS)
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 436/0465 THRU: 436/0466
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402983 DATE: OCT. 1, 1991 PAGE: 4
ATTACHED TO: 402982
TITLE: (OUTLINES) "SEDIMENT AND SLUDGE REMOVAL PROGRAM FOR LOWER LAKE SUMMARY STATEMENT"
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 436/0467 THRU: 436/0470
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402984 DATE: SEP. 27, 1991 PAGE: 2
ATTACHED TO: 402982
TITLE: AEH STORMDRAIN SYSTEM PROGRESS REPORT
AUTHOR: YOST, SANNA M./(HYDROMETRICS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/0471 THRU: 436/0472
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402985 DATE: OCT. 2, 1991 PAGE: 21
TITLE: (TRANSMITS DATA PACKAGE AND ATTACHED RESULT SUMMARIES FOR THORNOCK LAKE)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0473 THRU: 436/0493
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * MERCURY * SELENIUM * SILVER * ZINC * BARIUM * GROUNDWATER
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402986 DATE: OCT. 4, 1991 PAGE: 2
TITLE: (APPROVES REQUEST FOR EXTENSION OF DUE DATE FOR PRE-FINAL DESIGN REPORTS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: BRAICO, ROBERT D./HYDROMETRICS
CC: PIZZINI * BOHAN * BLUCK * /STATE PROJECT OFFICER * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0494 THRU: 436/0495
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402987 DATE: OCT. 7, 1991 PAGE: 1
TITLE: (RESPONSE TO OCT. 2, 1991 LETTER AND DATA PACKAGE)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MILLER, ROBERT J./HYDROMETRICS
CC: PIZZINI * BOHAN * BLUCK * ZACKHEIM * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0496 THRU: 436/0496
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402988 DATE: OCT. 15, 1991 PAGE: 4
TITLE: THORNOCK LAKE SEDIMENTS EP TOXICITY TESTS
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 436/0497 THRU: 436/0500
KEYWORD(S): ARSENIC * CADMIUM * BARIUM * COPPER * LEAD * MANGANESE *
MERCURY * SELENIUM * SILVER * ZINC
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402989 DATE: OCT. 21, 1991 PAGE: 6
TITLE: (PROCESS PONDS PROGRESS REPORT 13)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0501 THRU: 436/0506
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402990 DATE: NOV. 1, 1991 PAGE: 62
TITLE: "WORK PLAN FOR BENCH SCALE AND FIELD STUDIES OF DREDGING, HANDLING AND
TREATMENT OF LOWER LAKE SLUDGES AND SEDIMENTS, ASARCO EAST HELENA SITE"
(ATTACHED TRANSMITTAL FROM BRAICO)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION *
SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/0507 THRU: 436/0568
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402991 DATE: NOV. 4, 1991 PAGE: 1
ATTACHED DOC(S): 402992 THRU: 402993
TITLE: (TRANSMITS REVIEWS OF EAST HELENA DATA PACKAGES)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 436/0569 THRU: 436/0569
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402992 DATE: OCT. 29, 1991 PAGE: 3
ATTACHED TO: 402991
TITLE: REVIEW OF ASARCO DATA PACKAGE FOR ANALYSIS OF THORNOCK LAKE SEDIMENTS
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 436/0570 THRU: 436/0572
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402993 DATE: OCT. 29, 1991 PAGE: 2
ATTACHED TO: 402991
TITLE: DATA REVIEW OF ASARCO WATER SAMPLING/ANALYSIS (MAY 1991)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 436/0573 THRU: 436/0574
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402994 DATE: NOV. 7, 1991 PAGE: 1
TITLE: MEETING AGENDA ASARCO EAST HELENA SITE PROCESS PONDS OU DESIGN REPORTS
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 436/0575 THRU: 436/0575
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402995 DATE: NOV. 20, 1991 PAGE: 6
TITLE: (PROGRESS REPORT 14 FOR PROCESS PONDS RD/RA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/0576 THRU: 436/0581
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402996 DATE: NOV. 22, 1991 PAGE: 63
TITLE: "FINAL DESIGN REPORT REMEDIAL DESIGN (RD) FOR DEMOLITION ASARCO EAST HELENA SITE PROCESS PONDS OU" (ATTACHED TRANSMITTAL FROM BRAICO)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/0582 THRU: 436/0645
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 402997 DATE: NOV. 26, 1991 PAGE: 104
TITLE: "FINAL DESIGN REPORT REMEDIAL DESIGN (RD) FOR SEDIMENT AND SOIL EXCAVATION AND SMELTING ASARCO EAST HELENA SITE PROCESS PONDS OU" (ATTACHED TRANSMITTAL FROM BRAICO)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON C./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/0646 THRU: 436/0753
KEYWORD(S): ARSENIC * SOIL * SEDIMENTS
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416331 DATE: DEC. 1, 1991 PAGE: 98
ATTACHED DOC(S): 416332 THRU: 416333
TITLE: "PRE-FINAL DESIGN REPORT NEW CONSTRUCTION ASARCO EAST HELENA SITE PROCESS PONDS" (ATTACHED TRANSMITTAL FROM BRAICO)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/0754 THRU: 436/0848
KEYWORD(S): ARSENIC
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416332 DATE: NOV. 25, 1991 PAGE: 441
ATTACHED TO: 416331
TITLE: "PRE-FINAL DESIGN REPORT NEW CONSTRUCTION APPENDIX D: ACID WATER RECLAIM PROCESS ASARCO EAST HELENA SITE PROCESS PONDS" (90% DESIGN SUBMITTAL)
AUTHOR: /HYDROMETRICS * /LSE
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/0849 THRU: 436/1306
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416333 DATE: DEC. 1, 1991 PAGE: 43
ATTACHED TO: 416331
TITLE: "PRE-FINAL DESIGN REPORT REDUCTION OF PROCESS CIRCUIT GAINS ASARCO EAST HELENA SITE"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/1307 THRU: 436/1348
KEYWORD(S): GROUNDWATER * ARSENIC
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416335 DATE: DEC. 2, 1991 PAGE: 3
TITLE: (ASARCO REQUEST FOR MODIFICATION TO SCHEDULE FOR LOWER LAKE WORK PLAN; ATTACHED PROPOSED SCHEDULE)
AUTHOR: BRAICO, ROBERT D./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN * /DOJ
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1349 THRU: 436/1352
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416336 DATE: DEC. 20, 1991 PAGE: 6
TITLE: (PROGRESS REPORT 15 FOR PROCESS PONDS RD/RA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1353 THRU: 436/1358
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * SELENIUM * ZINC * SOIL REMOVAL
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416337 DATE: DEC. 27, 1990 PAGE: 2
TITLE: (PROCESS PONDS CONSENT DECREE CV-90-46-H-CCL SIGNATURE PAGE AND COVER PAGE DOCUMENTING LODGING AND ENTERING OF DECREE)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 436/1359 THRU: 436/1360
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416339 DATE: FEB. 19, 1992 PAGE: 5
TITLE: (PROCESS PONDS PROGRESS REPORT 17)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1361 THRU: 436/1365
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416340 DATE: MAR. 12, 1992 PAGE: 3
TITLE: (TRANSMITS ATTACHED WEEKLY REPORT FOR ACID WATER RECLAIM FACILITY)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * NICKEL * BRACK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1366 THRU: 436/1368
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416341 DATE: MAR. 13, 1992 PAGE: 1
ATTACHED DOC(S): 416342 THRU: 416343
TITLE: (TRANSMITS REVIEW COMMENTS FOR PROCESS PONDS DESIGN DOCUMENTS)
AUTHOR: MADDEN, JAMES M./MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1369 THRU: 436/1369
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416342 DATE: MAR. 9, 1992 PAGE: 1
ATTACHED TO: 416341
TITLE: (REVIEW COMMENTS ON ASARCO DIKE DESIGN)
AUTHOR: CHRISTIANS, KARL/DNRC
ADDRESSEE: MADDEN, JIM/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1370 THRU: 436/1370
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416343 DATE: JAN. 27, 1992 PAGE: 2
ATTACHED TO: 416341
TITLE: (REVIEW COMMENTS ON PRE-FINAL DESIGN REPORT)
AUTHOR: OELRICH, MICHAEL J./DNRC
ADDRESSEE: MADDEN, JIM/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1371 THRU: 436/1372
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416344 DATE: MAR. 13, 1992 PAGE: 6
TITLE: (RESPONSE TO EPA COMMENTS ON PRE-FINAL AND FINAL DESIGN REPORTS FOR PROCESS PONDS)
AUTHOR: BRAICO, ROBERT D./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * /DOJ
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1373 THRU: 436/1378
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416345 DATE: MAR. 20, 1992 PAGE: 3
TITLE: (TRANSMITS ATTACHED WEEKLY REPORT FOR ACID WATER RECLAIM FACILITY)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * NICKEL * BRACK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1379 THRU: 436/1381
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416346 DATE: MAR. 25, 1992 PAGE: 2
TITLE: (REQUEST TO PROCEED TO PRE-FINAL DESIGN (90 PERCENT COMPLETION REPORT) FOR TETRA TECH HIGH DENSITY SLUDGE PROCESS REPORT - RESPONSE IN LETTER TO JON APPROVING RD AND IROQUOIS MAR. 31)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /STATE OF MONTANA * VARNER * LITLE * STALLINGS * SHEW * ROBBINS * HART * LEAP * THORP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1382 THRU: 436/1383
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416347 DATE: MAR. 27, 1992 PAGE: 3
TITLE: (TRANSMITS ATTACHED WEEKLY REPORT FOR ACID WATER RECLAIM FACILITY)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * NICKEL * BRACK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1384 THRU: 436/1386
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 416348 DATE: MAR. 31, 1992 PAGE: 6
TITLE: (APPROVES FINAL RD REPORTS FOR DEMOLITION, EXCAVATION AND SMELTING)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * CHIOTTI * BLUCK * QUINONES * BRAICO * MILLER * (KLEMPEL) * FISCHER * MADDEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1387 THRU: 436/1392
NOTES: UPDATE 04

FILE: 2060000 DOCNO: 418596 DATE: OCT. 22, 1991 PAGE: 2
ATTACHED DOC(S): 418597
TITLE: (DISCUSSES THORNOCK LAKE SEDIMENT REMOVAL PLAN)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BOHAN * NICKEL * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0108 THRU: 544/0109
KEYWORD(S): ARSENIC * SEDIMENTS
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418597 DATE: OCT. 7, 1991 PAGE: 1
ATTACHED TO: 418596
TITLE: (DISCUSSES RESULTS OF THORNOCK LAKE SEDIMENT DATA COLLECTED JUN. 1991)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: MILLER, ROBERT J./HYDROMETRICS
CC: PIZZINI * BOHAN * BLUCK * ZACKHEIM * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0110 THRU: 544/0110
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418603 DATE: FEB. 11, 1992 PAGE: 1
ATTACHED DOC(S): 418604
TITLE: (TRANSMITS REVIEW BY MSU OF EP TOXICITY DATA)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/0111 THRU: 544/0111
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418604 DATE: FEB. 4, 1992 PAGE: 4
ATTACHED TO: 418603
TITLE: REVIEW OF EP TOXICITY DATA QUALITY
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/0112 THRU: 544/0115
KEYWORD(S): CADMIUM * LEAD
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418607 DATE: MAR. 3, 1992 PAGE: 191
TITLE: (ANALYTICAL RESULTS FOR PRODUCTION PONDS/THORNOCK LAKE SOIL SAMPLES; ATTACHED TRANSMITTAL FROM NICKEL TO BROWN; RAW DATA PACKAGE LOWER LAKE NOT VALIDATED)
AUTHOR: BILAK, K. P./ASARCO
ADDRESSEE: MARCH, DANIEL E./HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0116 THRU: 544/0306
KEYWORD(S): ARSENIC * CADMIUM * COPPER * MERCURY * IRON * LEAD * SELENIUM * ZINC
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418658 DATE: AUG. 24, 1992 PAGE: 4
TITLE: (DISCUSSES SPEISS POND DEMOLITION AND EXCAVATION; REQUESTS SCHEDULE DELAYS FOR SPEISS PIT AND ACID WATER TREATMENT FACILITY DEMOLITION; ATTACHED MAP SHOWING LOCATIONS FOR NEW CONSTRUCTION AND EXCAVATION AREAS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0307 THRU: 544/0311
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418867 DATE: AUG. 3, 1992 PAGE: 1
TITLE: (TRANSMITS RESULTS OF WATER SAMPLES COLLECTED APR. 14 - MAY 4, 1992)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0312 THRU: 544/0312
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418868 DATE: AUG. 18, 1992 PAGE: 1
ATTACHED DOC(S): 418869 THRU: 418870
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR PHASE 2 WATER SAMPLES ANALYZED FOR ARSENIC +3 AND ARSENIC +5 SPECIATION)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0313 THRU: 544/0313
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418869 DATE: 1992 (E) PAGE: 1
ATTACHED TO: 418868
TITLE: "TABLE OF CONTENTS ASARCO - EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS] WATER SAMPLES COLLECTED APR. 14, THROUGH MAY 4, 1992"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 544/0314 THRU: 544/0314
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418870 DATE: AUG. 8, 1992 PAGE: 1
ATTACHED TO: 418868
TITLE: "COVER PAGE INORGANIC ANALYSES DATA PACKAGE"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 544/0315 THRU: 544/0315
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418872 DATE: AUG. 27, 1992 PAGE: 9
TITLE: (RATIONALE [ASARCO] FOR MODIFYING TERMS OF 1989 ROD; DISCUSSES LOWER LAKE PROCESS SLUDGES AND MARSH SEDIMENT)
AUTHOR: BRAICO, ROBERT D./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * QUINONES * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0316 THRU: 544/0325
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * LEACHATE
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418873 DATE: SEP. 2, 1992 PAGE: 1
TITLE: (COVER LETTER FOR RAW DATA PACKAGES OF WATER SAMPLES COLLECTED AS PART OF APR. - MAY 1992 SEMI-ANNUAL POST RI MONITORING PROGRAM)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0326 THRU: 544/0326
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418874 DATE: SEP. 2, 1992 PAGE: 1
ATTACHED DOC(S): 418875 THRU: 418876
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR SAMPLES COLLECTED AS PART OF LOWER LAKE IN-SITU TREATMENT TECHNIQUES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0327 THRU: 544/0327
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418875 DATE: AUG. 20, 1992 PAGE: 1
ATTACHED TO: 418874
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR SAMPLES COLLECTED AS PART OF LOWER LAKE IN-SITU TREATMENT TECHNIQUES)
AUTHOR: MRAZ, MILAN/ASARCO
ADDRESSEE: BRAICO, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0328 THRU: 544/0328
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 418876 DATE: AUG. 20, 1992 (E) PAGE: 1
ATTACHED TO: 418874
TITLE: "TABLE OF CONTENTS HEDDLESTON REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS]"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 544/0329 THRU: 544/0329
NOTES: UPDATE 05

FILE: 2060000 DOCNO: 424056 DATE: AUG. 26, 1992 PAGE: 4
TITLE: (STATE PROJECT OFFICER COMMENTS CONCERNING LOWER LAKE SEDIMENT HANDLING)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0649 THRU: 581/0652
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424057 DATE: SEP. 10, 1992 PAGE: 1
TITLE: (CONCERNS SPEISS GRANULATING PIT AND WATER TREATMENT FACILITY DEMOLITION AND EXCAVATION DELAYS)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0653 THRU: 581/0653
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424058 DATE: SEP. 22, 1992 PAGE: 1
ATTACHED DOC(S): 424059 THRU: 424060
TITLE: (TRANSMITS RAW DATA PACKAGE FOR WATER SAMPLES AND REAGENT SAMPLE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0654 THRU: 581/0654
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424059 DATE: AUG. 28, 1992 PAGE: 1
ATTACHED TO: 424058
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR WATER SAMPLES AND REAGENT SAMPLE)
AUTHOR: MRAZ, MILAN/ASARCO
ADDRESSEE: LEMIEUX, DAVID/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0655 THRU: 581/0655
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424060 DATE: AUG. 28, 1992 (E) PAGE: 1
ATTACHED TO: 424058
TITLE: "TABLE OF CONTENTS EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS]"
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/0656 THRU: 581/0656
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424062 DATE: SEP. 29, 1992 PAGE: 1
ATTACHED DOC(S): 424063 THRU: 424067
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR LOWER LAKE SAMPLES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0657 THRU: 581/0657
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424063 DATE: SEP. 19, 1992 PAGE: 1
ATTACHED TO: 424062
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR SOIL SAMPLES TAKEN FROM ASARCO)
AUTHOR: BILAK, KEN/ASARCO
ADDRESSEE: LEMIEUX, DAVID/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0658 THRU: 581/0658
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424064 DATE: SEP. 19, 1992 (E) PAGE: 1
ATTACHED TO: 424062
TITLE: TABLE OF CONTENTS ASARCO EAST HELENA RI/FS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/0659 THRU: 581/0659
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424065 DATE: SEP. 25, 1992 PAGE: 1
ATTACHED TO: 424062
TITLE: (TRANSMITS RESULTS OF ANALYSES FOR PLANT SAMPLES COLLECTED FROM EAST FIELD WESTON PLOTS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0660 THRU: 581/0660
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424066 DATE: AUG. 24, 1992 PAGE: 1
ATTACHED TO: 424062
TITLE: (TRANSMITS RESULTS OF ANALYSES FOR PLANT SAMPLES COLLECTED FROM EAST FIELD WESTON PLOTS)
AUTHOR: FABBI, MICHAEL J./ASARCO
ADDRESSEE: LANGE, KENT/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0661 THRU: 581/0661
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424067 DATE: AUG. 24, 1992 (E) PAGE: 1
ATTACHED TO: 424062
TITLE: TABLE OF CONTENTS ASARCO EAST HELENA RI/FS VEGETATION
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/0662 THRU: 581/0662
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424070 DATE: OCT. 1, 1992 PAGE: 1
TITLE: (DISCUSSES PROGRESS OF WORK AT ACID PLANT WATER TREATMENT FACILITY)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0663 THRU: 581/0663
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424076 DATE: OCT. 13, 1992 PAGE: 1
ATTACHED DOC(S): 424077
TITLE: (TRANSMITS COMMENTS CONCERNING USABILITY OF DATA SUBMITTED BY ASARCO)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0664 THRU: 581/0664
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424077 DATE: SEP. 28, 1992 PAGE: 5
ATTACHED TO: 424076
TITLE: (COMMENTS ON USABILITY OF DATA SUBMITTED BY ASARCO)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0665 THRU: 581/0669
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * COPPER * LEAD * ZINC * SOIL
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424078 DATE: OCT. 16, 1992 PAGE: 6
TITLE: (PROGRESS REPORT 25 FOR PROCESS PONDS OU)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0670 THRU: 581/0675
KEYWORD(S): ARSENIC
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424079 DATE: OCT. 20, 1992 PAGE: 4
TITLE: (DAILY REPORT SUMMARY AND WEEKLY CONSTRUCTION REPORT FOR ACID WATER RECLAIM FACILITY OCT. 5-18, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * NICKEL * BRACK * BLUCK * HOLT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0676 THRU: 581/0679
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424081 DATE: OCT. 29, 1992 PAGE: 1
ATTACHED DOC(S): 424082 THRU: 424083
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR LOWER LAKE MARSH DEPOSIT SAMPLES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0680 THRU: 581/0680
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424082 DATE: OCT. 19, 1992 PAGE: 1
ATTACHED TO: 424081
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR LOWER LAKE MARSH DEPOSIT SAMPLES)
AUTHOR: KELLER, VINCENT P./ASARCO
ADDRESSEE: LEMIEUX, DAVID/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0681 THRU: 581/0681
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424083 DATE: OCT. 19, 1992 (E) PAGE: 1
ATTACHED TO: 424081
TITLE: TABLE OF CONTENTS ASARCO - EAST HELENA RI/FS PROCESS PONDS/LOWER LAKE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/0682 THRU: 581/0682
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424084 DATE: NOV. 12, 1992 PAGE: 6
TITLE: (FINAL DAILY REPORT SUMMARY AND WEEKLY CONSTRUCTION REPORT FOR ACID WATER RECLAIM FACILITY OCT. 19 - NOV. 12, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * NICKEL * BRACK * BLUCK * HOLT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0683 THRU: 581/0688
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424085 DATE: NOV. 13, 1992 PAGE: 8
TITLE: (CONSTRUCTION REPORT FOR SPEISS POND REMEDIATION OCT. 21 - NOV. 12, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * NICKEL * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0689 THRU: 581/0696
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424086 DATE: NOV. 17, 1992 PAGE: 6
TITLE: (PROGRESS REPORT 26 PROCESS PONDS OU)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0697 THRU: 581/0702
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424087 DATE: NOV. 19, 1992 PAGE: 1
ATTACHED DOC(S): 424088 THRU: 424089
TITLE: (TRANSMITS REVIEW COMMENTS ON HIGH DENSITY SLUDGE TREATMENT FACILITY 90 PERCENT DESIGN REPORT)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: NICKEL, JON/ASARCO
CC: BROWN * MILLER * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0703 THRU: 581/0703
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424088 DATE: NOV. 5, 1992 PAGE: 4
ATTACHED TO: 424087
TITLE: (REVIEW COMMENTS ON HIGH DENSITY SLUDGE TREATMENT FACILITY 90% DESIGN REPORT)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0704 THRU: 581/0707
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424089 DATE: OCT. 22, 1992 PAGE: 2
ATTACHED TO: 424087
TITLE: (REVIEW COMMENTS ON HIGH DENSITY SLUDGE TREATMENT FACILITY 90 PERCENT DESIGN REPORT)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0708 THRU: 581/0709
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424090 DATE: NOV. 30, 1992 PAGE: 1
TITLE: (OVERSIGHT REPORT FOR ACID WATER RECLAIM FACILITY AND SPEISS POND RA FOR NOV. 1-30, 1992; MENTIONS PETROLEUM ODOR)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0710 THRU: 581/0710
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424091 DATE: DEC. 15, 1992 PAGE: 5
TITLE: (PROGRESS REPORT 27 PROCESS PONDS OU)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/(EPA) * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0711 THRU: 581/0715
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424093 DATE: DEC. 17, 1992 PAGE: 2
ATTACHED DOC(S): 424094
TITLE: (RESPONSE TO EPA AND STATE COMMENTS CONCERNING 90 PERCENT RD REPORT, HIGH DENSITY SLUDGE FACILITY)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0716 THRU: 581/0717
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424094 DATE: DEC. 15, 1992 PAGE: 6
ATTACHED TO: 424093
TITLE: (RESPONSE TO EPA COMMENTS CONCERNING 90 PERCENT RD REPORT, HIGH DENSITY SLUDGE FACILITY)
AUTHOR: WERNER, DAVID D./TETRA TECH
ADDRESSEE: NICKEL, JON/ASARCO
CC: THORNOCK * HOLT * SHEW * LITLE * CHANG * MOODY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0718 THRU: 581/0723
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424102 DATE: JAN. 15, 1993 PAGE: 5
TITLE: (PROGRESS REPORT 28 PROCESS PONDS OU)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0724 THRU: 581/0728
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424103 DATE: FEB. 22, 1993 PAGE: 5
TITLE: (PROGRESS REPORT 29 PROCESS PONDS OU)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0729 THRU: 581/0733
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424104 DATE: FEB. 25, 1993 PAGE: 1
ATTACHED DOC(S): 424105
TITLE: (REVIEW COMMENTS ON LOWER LAKE LEACHATE CALCULATIONS BY HYDROMETRICS; TRANSMITS LETTER OF FEB. 24, 1993 FROM GLANZMAN)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: GLANZMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0734 THRU: 581/0734
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424105 DATE: FEB. 24, 1993 PAGE: 2
ATTACHED TO: 424104
TITLE: (TECHNICAL MEMORANDUM REVIEW COMMENTS ON LOWER LAKE SEDIMENT LEACHATE IMPACT CALCULATIONS IN LETTER OF FEB. 11, 1993 FROM HYDROMETRICS)
AUTHOR: GLANZMAN, DICK/CH2M HILL
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0735 THRU: 581/0736
KEYWORD(S): ARSENIC * GROUNDWATER
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424106 DATE: MAR. 2, 1993 PAGE: 2
TITLE: (DISCUSSES WATER QUALITY STANDARDS FOR LOWER LAKE MONITORING WELLS)
AUTHOR: MADDEN, JAMES M./MDHES
ADDRESSEE: BOHAN, SUZANNE/EPA * BROWN, SCOTT/EPA
CC: PIZZINI * ZACKHEIM * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0737 THRU: 581/0738
KEYWORD(S): GROUNDWATER * SURFACE WATER * SEDIMENTS * SURFACE WATER STANDARDS * RCRA
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424360 DATE: FEB. 11, 1993 PAGE: 14
TITLE: (CALCULATIONS OF LEACHATE CONCENTRATIONS FOR LOWER LAKE MARSH SEDIMENTS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: QUINONES * MADDEN * BLUCK * GLANZMAN * SPICKELMIER * NICKEL * LEAP
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0739 THRU: 581/0752
KEYWORD(S): SILVER * ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * MERCURY * MANGANESE * LEAD * SELENIUM * ZINC * GROUNDWATER * SOIL * SEDIMENTS
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424361 DATE: MAR. 16, 1993 PAGE: 5
TITLE: (PROCESS PONDS OU PROGRESS REPORT 30)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0753 THRU: 581/0757
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424362 DATE: MAR. 22, 1993 PAGE: 1
TITLE: (1993 WATER TREATMENT FACILITY REMEDIATION CONSTRUCTION SCHEDULE)
AUTHOR: KLEMPEL, TOM/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: SPICKELMIER * NICKEL * SHEW * BRAICO * WING * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0758 THRU: 581/0758
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424363 DATE: APR. 1, 1993 PAGE: 1
TITLE: (NOTICE OF PLANS TO CONDUCT WATER SAMPLING)
AUTHOR: CRANE, WALTER/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0759 THRU: 581/0759
NOTES: UPDATE 06

FILE: 2060000 DOCNO: 424515 DATE: MAR. 8, 1993 PAGE: 36
TITLE: "ASARCO EAST HELENA SITE PROCESS PONDS OU - APR. 1992 DATA VALIDATION SUMMARY FOR LOWER LAKE COMPOSITE SLUDGE DECANT WATER AND FREE WATER SAMPLES" (VALIDATED)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J.A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/0303 THRU: 627/0338
KEYWORD(S): SILVER * ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * MERCURY * MANGANESE * LEAD * SELENIUM * THALLIUM * ZINC * SLUDGE
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424516 DATE: APR. 12, 1993 PAGE: 1
ATTACHED DOC(S): 424517
TITLE: (TRANSMITS AND COMMENTS ON REVIEW OF LOWER LAKE LEACHATE CALCULATIONS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: GLANZMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/0339 THRU: 627/0339
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424517 DATE: MAR. 29, 1993 PAGE: 1
ATTACHED TO: 424516
TITLE: (TECHNICAL MEMORANDUM EVALUATION OF LOWER LAKE LEACHATE IMPACT CALCULATIONS)
AUTHOR: GLANZMAN, DICK/(CH2M HILL)
ADDRESSEE: BLUCK, BILL/(CH2M HILL)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/0340 THRU: 627/0340
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424518 DATE: APR. 14, 1993 PAGE: 2
TITLE: (PROCESS POND OU OVERSIGHT STATUS REPORT FEB. 25 - APR. 9, 1993)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: MITCHELL * FISCHER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/0341 THRU: 627/0342
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424519 DATE: APR. 20, 1993 PAGE: 8
TITLE: (PROCESS PONDS OU PROGRESS REPORT 31)
AUTHOR: SPICKELMIER, JAY/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0343 THRU: 627/0350
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424520 DATE: APR. 20, 1993 PAGE: 3
TITLE: (PROCESS PONDS RD/RA PROGRESS REPORT FOR APR. 9-16, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0351 THRU: 627/0353
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424521 DATE: APR. 27, 1993 PAGE: 2
TITLE: (CRANE WELL SAMPLING SCHEDULE)
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: NOTES
CROSS FILE(S):3000000
MICROFILM ROLL/FRAME NO.: 627/0354 THRU: 627/0355
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424522 DATE: APR. 28, 1993 PAGE: 4
TITLE: (PROCESS PONDS RD/RA PROGRESS REPORT FOR APR. 17-23, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0356 THRU: 627/0359
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424523 DATE: MAY 1993 PAGE: 13
ATTACHED DOC(S): 424524
TITLE: "COMPREHENSIVE WORK PLAN FOR REMEDIAL DESIGN AND REMEDIAL ACTION (RD/RA) ASARCO EAST HELENA SITE PROCESS PONDS OU HIGH DENSITY SLUDGE WATER TREATMENT FACILITY CONSTRUCTION QUALITY ASSURANCE PLAN" (ATTACHED TRANSMITTAL FROM KLEMPEL)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 627/0360 THRU: 627/0372
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424524 DATE: JUN. 1, 1993 PAGE: 1
ATTACHED TO: 424523
TITLE: (REVIEWS AND APPROVES OF HYDROMETRICS MAY 1993 CONSTRUCTION QUALITY ASSURANCE PLAN)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/0373 THRU: 627/0373
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424525 DATE: MAY 4, 1993 PAGE: 3
TITLE: (PROCESS PONDS RD/RA PROGRESS REPORT FOR APR. 24-30, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0374 THRU: 627/0376
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424526 DATE: MAY 11, 1993 PAGE: 3
TITLE: (PROCESS PONDS RD/RA PROGRESS REPORT FOR MAY 1-7, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0377 THRU: 627/0379
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424527 DATE: MAY 18, 1993 PAGE: 6
TITLE: (PROCESS PONDS RD/RA PROGRESS REPORT FOR MAY 10-14, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0380 THRU: 627/0385
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424528 DATE: MAY 20, 1993 PAGE: 10
TITLE: (PROCESS PONDS OU PROGRESS REPORT 32)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0386 THRU: 627/0395
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424529 DATE: MAY 25, 1993 PAGE: 6
TITLE: (PROCESS PONDS RD/RA PROGRESS REPORT FOR MAY 17-21, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * QUINONES * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0396 THRU: 627/0402
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424530 DATE: JUL. 12, 1993 PAGE: 1
TITLE: (CORRECTION TO SCHEDULE FOR INSTALLING MONITORING WELLS/PIEZOMETERS NEAR LOWER LAKE)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: LEAP, CYNTHIA S./GIBSON, DUNN AND CRUTCHER
CC: BROWN * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0403 THRU: 627/0403
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424531 DATE: JUL. 20, 1993 PAGE: 9
TITLE: (PROCESS PONDS OU PROGRESS REPORT 34)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0404 THRU: 627/0412
KEYWORD(S): ARSENIC * CADMIUM * LEAD * AIR
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424532 DATE: JUL. 22, 1993 PAGE: 5
TITLE: (PROCESS PONDS RD/RA PROGRESS REPORT FOR JUL. 12-16, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * QUINONES * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0413 THRU: 627/0417
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424533 DATE: JUL. 29, 1993 PAGE: 5
TITLE: (PROCESS PONDS RD/RA PROGRESS REPORT FOR JUL. 19-23, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * HEATH * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0418 THRU: 627/0422
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424534 DATE: AUG. 6, 1993 PAGE: 5
TITLE: (PROCESS PONDS RD/RA PROGRESS REPORT FOR JUL. 26 - AUG. 1, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * ZACKHEIM * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0423 THRU: 627/0427
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424535 DATE: AUG. 10, 1993 PAGE: 3
TITLE: (TRANSMITS ATTACHED ADDENDUM TO PROCESS PONDS RD/RA WORK PLAN)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0428 THRU: 627/0430
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424536 DATE: AUG. 12, 1993 PAGE: 5
TITLE: (PROCESS PONDS RD/RA PROGRESS REPORT FOR AUG. 2-6, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * ZACKHEIM * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0431 THRU: 627/0435
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424537 DATE: AUG. 20, 1993 PAGE: 8
TITLE: (PROCESS PONDS OU PROGRESS REPORT 35)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0436 THRU: 627/0443
KEYWORD(S): ARSENIC * CADMIUM * LEAD * AIR
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424539 DATE: AUG. 30, 1993 PAGE: 1
TITLE: (INFORMS OF PILOT SCALE TEST BEING CONDUCTED WEEK OF SEP. 27, 1993)
AUTHOR: BRAICO, ROBERT/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * SHEW * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0444 THRU: 627/0444
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424540 DATE: AUG. 31, 1993 PAGE: 5
TITLE: (HIGH DENSITY SLUDGE WATER TREATMENT FACILITY PROGRESS REPORT FOR AUG. 9-13, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * ZACKHEIM * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0445 THRU: 627/0449
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424541 DATE: AUG. 31, 1993 PAGE: 5
TITLE: (HIGH DENSITY SLUDGE WATER TREATMENT FACILITY PROGRESS REPORT FOR AUG. 16-20, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * ZACKHEIM * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0450 THRU: 627/0454
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424543 DATE: SEP. 2, 1993 PAGE: 4
TITLE: (HIGH DENSITY SLUDGE WATER TREATMENT FACILITY PROGRESS REPORT FOR AUG. 23-27, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * ZACKHEIM * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0455 THRU: 627/0458
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424544 DATE: SEP. 8, 1993 PAGE: 4
TITLE: (TRANSMITS ATTACHED PROGRESS REPORT 22 FOR NEW CONSTRUCTION OF HIGH DENSITY SLUDGE WATER TREATMENT FACILITY AUG. 30 - SEP. 3, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * ZACKHEIM * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0459 THRU: 627/0462
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424545 DATE: SEP. 16, 1993 PAGE: 4
TITLE: (TRANSMITS ATTACHED PROGRESS REPORT 23 FOR NEW CONSTRUCTION OF HIGH DENSITY SLUDGE WATER TREATMENT FACILITY SEP. 7-10, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * ZACKHEIM * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0463 THRU: 627/0466
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424546 DATE: SEP. 17, 1993 PAGE: 1
TITLE: (ACCEPTS PROPOSAL OUTLINED IN AUG. 10, 1993 ADDENDUM TO PROCESS PONDS WORKPLAN)
AUTHOR: HOHN, BRIAN/MDHES
ADDRESSEE: NICKEL, JON C./ASARCO
CC: LASKOWSKI * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140000
MICROFILM ROLL/FRAME NO.: 627/0467 THRU: 627/0467
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424547 DATE: SEP. 20, 1993 PAGE: 8
TITLE: (PROCESS PONDS OU PROGRESS REPORT 36 AUG. 1993)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0468 THRU: 627/0475
KEYWORD(S): ARSENIC * CADMIUM * LEAD * AIR
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424548 DATE: SEP. 24, 1993 PAGE: 4
TITLE: (TRANSMITS ATTACHED PROGRESS REPORT 24 FOR NEW CONSTRUCTION OF HIGH DENSITY SLUDGE WATER TREATMENT FACILITY SEP. 13-17, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * LASKOWSKI * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0476 THRU: 627/0479
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424549 DATE: SEP. 30, 1993 PAGE: 4
TITLE: (TRANSMITS ATTACHED PROGRESS REPORT 25 FOR NEW CONSTRUCTION OF HIGH DENSITY SLUDGE WATER TREATMENT FACILITY SEP. 20-24, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * LASKOWSKI * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0480 THRU: 627/0483
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424550 DATE: OCT. 6, 1993 PAGE: 4
TITLE: (TRANSMITS ATTACHED PROGRESS REPORT 26 FOR NEW CONSTRUCTION OF HIGH DENSITY SLUDGE WATER TREATMENT FACILITY SEP. 27 - OCT. 2, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * SPICKELMIER * LASKOWSKI * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0484 THRU: 627/0487
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424551 DATE: OCT. 20, 1993 PAGE: 7
TITLE: (PROCESS PONDS OU PROGRESS REPORT 37 SEP. 1993)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0488 THRU: 627/0494
NOTES: UPDATE 07

FILE: 2060000 DOCNO: 424786 DATE: SEP. 14, 1993 PAGE: 1
ATTACHED DOC(S): 424787 THRU: 424789
TITLE: COMMENTS REGARDING PROCEDURE FOR SCREENING SUBSOILS FROM PROCESS PONDS
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 669/0448 THRU: 669/0448
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424787 DATE: AUG. 10, 1993 PAGE: 2
ATTACHED TO: 424786
TITLE: (TRANSMITS ADDENDUM TO PROCESS PONDS WORKPLAN DISCUSSING PROCEDURE FOR SCREENING EXCAVATED SUBSOILS FROM PROCESS PONDS; ATTACHED WORK COPY)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0449 THRU: 669/0450
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424788 DATE: AUG. 20, 1993 PAGE: 2
ATTACHED TO: 424786
TITLE: "PROCESS PONDS WORKPLAN PROCEDURE FOR SCREENING EXCAVATED SUBSOILS FROM PROCESS PONDS"
AUTHOR: /(ASARCO)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 669/0451 THRU: 669/0452
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424789 DATE: AUG. 20, 1993 PAGE: 8
ATTACHED TO: 424786
TITLE: (PROCESS PONDS OU PROGRESS REPORT 35 JUL. 1993; ATTACHED PERSONAL AIR MONITORING RESULTS FOR HIGH DENSITY SLUDGE WATER TREATMENT PLANT; WORK COPY)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0453 THRU: 669/0460
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424790 DATE: NOV. 15, 1993 PAGE: 1
TITLE: (DISCUSSES OVERSIGHT FOR HIGH DENSITY SLUDGE FACILITY CONSTRUCTION; ARRANGES PLANT VISIT)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BRAICO, BOB
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 669/0461 THRU: 669/0461
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424791 DATE: NOV. 19, 1993 PAGE: 6
TITLE: (PROCESS PONDS OU PROGRESS REPORT 38, OCT. 1993)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * LASKOWSKI, RANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0462 THRU: 669/0467
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424792 DATE: DEC. 16, 1993 PAGE: 5
TITLE: (PROCESS PONDS PROGRESS REPORT 39 NOV. 1993)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * LASKOWSKI, RANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0468 THRU: 669/0472
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424793 DATE: JAN. 3, 1994 PAGE: 2
ATTACHED DOC(S): 424794 THRU: 424795
TITLE: (REVIEW COMMENTS ON REVISED WORK PLAN FOR HYDRAULIC DREDGING AND DEWATERING PILOT TEST, LOWER LAKE REMEDIATION PROJECT, AMENDED NOV. 1993 BY HYDROMETRICS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 669/0473 THRU: 669/0474
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424794 DATE: SEP. 17, 1993 PAGE: 1
TITLE: (COMMENTS ON WORK PLAN FOR HYDRAULIC DREDGING AND DEWATERING PILOT TEST LOWER LAKE REMEDIATION PROJECT DISCUSSED AT SEP. 16, 1993 MEETING)
AUTHOR: ASKIN, RON
ADDRESSEE: BLUCK, BILL/(CH2M HILL) * BRAICO, BOB * YOST, SANNA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 669/0475 THRU: 669/0475
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424795 DATE: JAN. 12, 1994 PAGE: 1
TITLE: (DISCUSSES BLUCK COMMENTS ON REVISED WORK PLAN FOR DREDGING AND DEWATERING AT LOWER LAKE)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: BRAICO, BOB/HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * REPRODUCTION
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 669/0476 THRU: 669/0476
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424796 DATE: JAN. 11, 1994 PAGE: 1
TITLE: (LISTS INVESTIGATION AND CLEANUP REQUIREMENTS FOR PETROLEUM RELEASE AT ASARCO)
AUTHOR: SMITH, MONTE P./MDHES
ADDRESSEE: NICKEL, JON/ASARCO
CC: BROWN * REID
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0477 THRU: 669/0477
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424797 DATE: JAN. 19, 1994 PAGE: 5
TITLE: (CONSENT DECREE PROCESS PONDS OU EAST HELENA SUPERFUND SITE PROGRESS REPORT 40 DEC. 1993)
AUTHOR: SPICKELMIER, JAY/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * LASKOWSKI, RANDY/MDHES * /DOJ * THORVILSON, ROGER/MDHES * LASKOWSKI, RANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0478 THRU: 669/0482
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424798 DATE: FEB. 18, 1994 PAGE: 5
TITLE: (CONSENT DECREE PROCESS PONDS OU PROGRESS REPORT 41 JAN. 1994)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * LASKOWSKI, RANDY/MDHES * /DOJ * THORVILSON, ROGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0483 THRU: 669/0487
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 424983 DATE: MAR. 18, 1994 PAGE: 6
TITLE: (PROCESS PONDS OU PROGRESS REPORT 42 FEB. 1994)
AUTHOR: SPICKELMIER, JAY A./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA * LASKOWSKI, RANDY/MDHES * /DOJ * THORVILSON, ROGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0488 THRU: 669/0493
KEYWORD(S): ARSENIC * CADMIUM * LEAD * AIR
NOTES: UPDATE 08

FILE: 2060000 DOCNO: 425856 DATE: NOV. 23, 1993 PAGE: 4
TITLE: (TRANSMITS ATTACHED HYDROMETRICS NOTES FROM NOV. 10, 1993 MEETING WITH EPA CONCERNING 30 PERCENT DESIGN FOR REMEDIATION OF LOWER LAKE)
AUTHOR: BRAICO, ROBERT D./HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
CC: BROWN * BLUCK * YOST * KLEMPEL * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0381 THRU: 737/0384
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425857 DATE: NOV. 29, 1993 PAGE: 77
TITLE: "VALIDATION SUMMARY OF SLUDGE, SLUDGE LEACHATE, MARSH DEPOSIT AND DECANT WATER DATA ASARCO EAST HELENA LOWER LAKE FORMER PROCESS WATER POND JUN. 1992 TO OCT. 1992 SAMPLING ASARCO INCORPORATED EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM PETERSON)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/0385 THRU: 737/0461
KEYWORD(S): SILVER * ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * MERCURY * MANGANESE * SELENIUM * ZINC
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425862 DATE: MAR. 16, 1994 PAGE: 3
TITLE: (TRANSMITS AND COMMENTS ON FINAL PRE-FINAL (90 PERCENT) DESIGN REPORT FOR LOWER LAKE REMEDIATION PROJECT)
AUTHOR: BRAICO, ROBERT D./HYDROMETRICS * YOST, SANNA M./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * LASKOWSKI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0462 THRU: 737/0464
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425863 DATE: MAR. 24, 1994 PAGE: 3
TITLE: (TRANSMITS ATTACHED SUMMARY OF PROS AND CONS REGARDING USE OF HIGH DENSITY SLUDGE WATER TREATMENT PLANT FOR LOWER LAKE WATER)
AUTHOR: BRAICO, ROBERT D./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * SPICKELMIER * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0465 THRU: 737/0467
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425864 DATE: MAR. 24, 1994 PAGE: 3
TITLE: (TRANSMITS ATTACHED SUMMARY OF PROS AND CONS REGARDING USE OF HIGH DENSITY SLUDGE WATER TREATMENT PLANT)
AUTHOR: BRAICO, ROBERT D./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * SPICKELMIER * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0468 THRU: 737/0470
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425865 DATE: MAR. 28, 1994 PAGE: 1
TITLE: (CONCERNS REVISIONS TO DREDGING AND DEWATERING PILOT TEST WORK PLAN)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/0471 THRU: 737/0471
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425868 DATE: MAY 9, 1994 PAGE: 3
TITLE: (FOLLOW-UP TO MAY 4, 1994 TECHNICAL MEETING DISCUSSING DISCHARGING HIGH DENSITY SLUDGE PLANT GAINS TO LOWER LAKE)
AUTHOR: SPICKELMIER, JAY/ASARCO
ADDRESSEE: WARDELL, JOHN/EPA
CC: BROWN * BOHAN * SHEWMAN * BATES * LITLE * ROBBINS * MARCUS * NICKEL * SHEW * BRAICO * HART * JENSEN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0472 THRU: 737/0474
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425869 DATE: MAY 20, 1994 PAGE: 6
TITLE: (CONSENT DECREE PROCESS PONDS OU PROGRESS REPORT 44 APR. 1994)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * LASKOWSKI, RANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0475 THRU: 737/0480
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425870 DATE: JUN. 1994 PAGE: 29
TITLE: "FINAL COMPLIANCE EVALUATION INSPECTION REPORT ASARCO INCORPORATED EAST HELENA PRIMARY LEAD SMELTER EAST HELENA, MONTANA"
AUTHOR: /SAIC
ADDRESSEE: /EPA * POLVI, GARY/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/0481 THRU: 737/0511
KEYWORD(S): SILVER * ARSENIC * CADMIUM * CHROMIUM * COPPER * MERCURY * LEAD * SELENIUM * ZINC
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425871 DATE: JUN. 20, 1994 PAGE: 5
TITLE: (CONSENT DECREE PROCESS PONDS OU PROGRESS REPORT 45 MAY 1994)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * LASKOWSKI, RANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0512 THRU: 737/0516
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425872 DATE: JUN. 21, 1994 PAGE: 26
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORTS FOR LOWER LAKE REMEDIATION MAY 16 - JUN. 10, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0517 THRU: 737/0542
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425873 DATE: JUN. 28, 1994 PAGE: 7
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT FOR LOWER LAKE REMEDIATION JUN. 13-17, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0543 THRU: 737/0549
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425874 DATE: JUL. 1, 1994 PAGE: 7
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT FOR LOWER LAKE REMEDIATION JUN. 20-24, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0550 THRU: 737/0556
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425875 DATE: JUL. 8, 1994 PAGE: 4
TITLE: (DISCUSSES EPA POSITION REGARDING ASARCO USE OF HIGH DENSITY SLUDGE TREATMENT FACILITY TO CLEAN UP LOWER LAKE)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: ROBBINS, DONALD A./ASARCO
CC: DODSON * FOX * BROWN * MONTGOMERY * KENT * BOHAN * SHEWMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0557 THRU: 737/0560
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425876 DATE: JUL. 8, 1994 PAGE: 7
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT FOR LOWER LAKE REMEDIATION JUN. 27 - JUL. 1, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0561 THRU: 737/0567
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425877 DATE: JUL. 12, 1994 PAGE: 2
TITLE: (TRANSMITS AND DISCUSSES NPDES COMPLIANCE INSPECTION REPORT)
AUTHOR: DODSON, MAX H./EPA
ADDRESSEE: LITLE, ROBERT A./ASARCO
CC: MONTGOMERY * PILCHER * BROWN * SPICKELMIER * SHEW
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0568 THRU: 737/0569
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425878 DATE: JUL. 15, 1994 PAGE: 6
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT FOR LOWER LAKE REMEDIATION JUL. 4-8, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0570 THRU: 737/0575
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425879 DATE: JUL. 22, 1994 PAGE: 8
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 9 FOR LOWER LAKE REMEDIATION JUL. 11-15, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0576 THRU: 737/0583
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425953 DATE: JUN. 1994 PAGE: 29
TITLE: "FINAL COMPLIANCE EVALUATION INSPECTION REPORT ASARCO INCORPORATED EAST HELENA PRIMARY LEAD SMELTER EAST HELENA, MONTANA"
AUTHOR: /SAIC
ADDRESSEE: WATER MANAGEMENT DIVISION/EPA * POLVI, GARY/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/0584 THRU: 737/0612
KEYWORD(S): SILVER * ARSENIC * CADMIUM * CHROMIUM * COPPER * MERCURY * LEAD * ZINC
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425954 DATE: JUL. 29, 1994 PAGE: 1
ATTACHED DOC(S): 425955 THRU: 425957
TITLE: "ASARCO EAST HELENA PLANT STORM WATER (STORMWATER) SYSTEM IMPROVEMENT PROJECT MEETING AGENDA"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 737/0613 THRU: 737/0613
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425955 DATE: JUL. 28, 1994 PAGE: 1
ATTACHED TO: 425954
TITLE: DRAFT "STORM WATER (STORMWATER) CONTAINMENT FACILITY AND COLLECTION SYSTEM TO BE CONSTRUCTED IN 1995"
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * DRAFT
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 737/0614 THRU: 737/0615
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425956 DATE: JUL. 28, 1994 PAGE: 1
ATTACHED TO: 425954
TITLE: DRAFT "ASARCO EAST HELENA PLANT DRAINAGE AREA BOUNDARIES"
AUTHOR: /HYDROMETRICS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * DRAFT
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 737/0616 THRU: 737/0617
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425957 DATE: JUL. 28, 1994 PAGE: 1
ATTACHED TO: 425954
TITLE: DRAFT "FLOOD CONTROL DIKE TO BE CONSTRUCTED IN 1995"
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 737/0618 THRU: 737/0619
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425958 DATE: JUL. 29, 1994 PAGE: 8
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 10 FOR LOWER LAKE REMEDIATION JUL. 18-22, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0620 THRU: 737/0627
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425959 DATE: AUG. 2, 1994 PAGE: 3
TITLE: "LOWER LAKE SLUDGE DEPTHS" (ATTACHED DEPTH PROBE/LOCATIONS DATA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/0628 THRU: 737/0632
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425960 DATE: AUG. 2, 1994 PAGE: 31
TITLE: "ASARCO LOWER LAKE SUMMARY OF WATER QUALITY ANALYSES MAR. 28 - JUL. 14, 1994"
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 737/0633 THRU: 737/0664
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * GROUNDWATER
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425962 DATE: AUG. 5, 1994 PAGE: 8
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 11 FOR LOWER LAKE REMEDIATION JUL. 25-29, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0665 THRU: 737/0672
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425963 DATE: AUG. 12, 1994 PAGE: 8
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 12 FOR LOWER LAKE REMEDIATION AUG. 1-5, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0673 THRU: 737/0680
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425964 DATE: AUG. 19, 1994 PAGE: 18
TITLE: (PROCESS PONDS OU PROGRESS REPORT 47 JUL. 1994)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * LASKOWSKI, RANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0681 THRU: 737/0698
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425965 DATE: AUG. 22, 1994 PAGE: 7
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 13 FOR LOWER LAKE REMEDIATION AUG. 8-12, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0699 THRU: 737/0705
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425966 DATE: AUG. 24, 1994 PAGE: 3
TITLE: (RESPONSE TO AUG. 11, 1994 LETTER CONCERNING EPA JUL. 26, 1994 ISSUANCE OF NOTICE OF VIOLATION (NOV) TO ASARCO FOR VIOLATIONS OF CLEAN WATER ACT; DENIES ASARCO REQUEST TO WITHDRAW NOV)
AUTHOR: YELLOWTAIL, WILLIAM P./EPA
ADDRESSEE: NOVOTNY, ROBERT M./ASARCO
CC: DODSON * WARDELL * SPEICHER * SUTIN * BOHAN * BROWN * MONTGOMERY * KENT * JENSEN * PILCHER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0706 THRU: 737/0708
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 425967 DATE: AUG. 26, 1994 PAGE: 8
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 14 FOR LOWER LAKE REMEDIATION AUG. 15-19, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0709 THRU: 737/0716
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434618 DATE: MAR. 24, 1992 PAGE: 1
TITLE: "HEALTH AND SAFETY PLAN FOR THE ACID WATER RECLAIM FACILITY CONSTRUCTION WORK AREAS AND EMERGENCY SERVICES"
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 737/0717 THRU: 737/0717
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434619 DATE: JUL. 20, 1994 PAGE: 9
TITLE: (PROCESS PONDS PROGRESS REPORT 46 JUN. 1994)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * LASKOWSKI, RANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0718 THRU: 737/0726
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434621 DATE: AUG. 24, 1994 PAGE: 3
TITLE: (RESPONSE TO AUG. 11, 1994 LETTER CONCERNING EPA ISSUANCE OF NOTICE OF VIOLATION [NOV] ISSUED TO ASARCO FOR VIOLATIONS OF CLEAN WATER ACT)
AUTHOR: YELLOWTAIL, WILLIAM P./EPA
ADDRESSEE: NOVOTNY, ROBERT M./ASARCO
CC: DODSON * WARDELL * SPEICHER * SUTIN * BOHAN * BROWN * MONTGOMERY * KENT * JENSEN * PILCHER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/0727 THRU: 737/0729
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434622 DATE: SEP. 1994 PAGE: 320
TITLE: "PRELIMINARY (30%) DESIGN REPORT STORM WATER (STORMWATER) SYSTEM IMPROVEMENTS FOR ASARCO EAST HELENA PLANT"
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/0730 THRU: 737/1068
KEYWORD(S): ARSENIC * SILVER * CADMIUM * CHROMIUM * COPPER * LEAD * SELENIUM * ZINC * SEDIMENT
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434623 DATE: SEP. 2, 1994 PAGE: 8
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 15 FOR LOWER LAKE REMEDIATION AUG. 22-26, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1069 THRU: 737/1076
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434624 DATE: SEP. 13, 1994 PAGE: 8
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 16 FOR LOWER LAKE REMEDIATION AUG. 29 - SEP. 2, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * LUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1077 THRU: 737/1084
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434625 DATE: SEP. 16, 1994 PAGE: 7
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 17 FOR LOWER LAKE REMEDIATION SEP. 6-9, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1085 THRU: 737/1091
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434626 DATE: SEP. 20, 1994 PAGE: 5
TITLE: (PROCESS PONDS PROGRESS REPORT 48 AUG. 1994)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * LASKOWSKI, RANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1092 THRU: 737/1096
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434627 DATE: OCT. 6, 1994 (E) PAGE: 5
TITLE: "ASARCO EAST HELENA PLANT LOWER LAKE REMEDIATION PROJECT LOWER LAKE MARSH DEPOSIT REMOVAL PILOT TEST SUMMARY REPORT"
AUTHOR: /(HYDROMETRICS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/1097 THRU: 737/1101
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434628 DATE: OCT. 20, 1994 PAGE: 5
TITLE: (PROCESS PONDS PROGRESS REPORT 49 SEP. 1994)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * LASKOWSKI, RANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1102 THRU: 737/1106
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434629 DATE: OCT. 21, 1994 PAGE: 6
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 22 FOR LOWER LAKE REMEDIATION OCT. 11-14, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1107 THRU: 737/1112
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434630 DATE: OCT. 28, 1994 PAGE: 6
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 23 FOR LOWER LAKE REMEDIATION OCT. 17-21, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1113 THRU: 737/1118
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434631 DATE: NOV. 2, 1994 PAGE: 2
TITLE: (COMMENTS ON PRELIMINARY (30 PERCENT) DESIGN REPORT STORMWATER SYSTEM IMPROVEMENTS FOR ASARCO EAST HELENA PLANT)
AUTHOR: YOUNG, ANDREW/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /FILE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1119 THRU: 737/1120
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434632 DATE: NOV. 4, 1994 PAGE: 4
ATTACHED DOC(S): 434633
TITLE: (COMMENTS ON ISSUES DISCUSSED AT SEP. 16, 1994 MEETING TO REVIEW PRELIMINARY DESIGN REPORT FOR EAST HELENA SMELTER STORMWATER COLLECTION SYSTEM)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
CC: FOX * BOHAN * YOUNG * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * CONCURRENCE COPY ATTACHED * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1121 THRU: 737/1124
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434633 DATE: NOV. 2, 1994 PAGE: 2
ATTACHED TO: 434632
TITLE: (REVIEW COMMENTS ON PRELIMINARY (30 PERCENT) DESIGN REPORT STORMWATER SYSTEM IMPROVEMENTS FOR ASARCO EAST HELENA PLANT)
AUTHOR: YOUNG, ANDREW/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /FILE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1125 THRU: 737/1126
NOTES: UPDATE 09

FILE: 2060000 DOCNO: 434664 DATE: NOV. 1993 PAGE: 286
TITLE: "STORM WATER (STORMWATER) MANAGEMENT PLAN ASARCO INCORPORATED EAST HELENA PLANT SITE"
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 749/0260 THRU: 749/0545
KEYWORD(S): CADMIUM * LEAD * CHROMIUM * COPPER * ARSENIC
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434666 DATE: SEP. 23, 1994 PAGE: 13
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 18 FOR LOWER LAKE REMEDIATION SEP. 12-17, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0546 THRU: 749/0558
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434667 DATE: SEP. 30, 1994 PAGE: 12
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 19 FOR LOWER LAKE REMEDIATION SEP. 19-23, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0559 THRU: 749/0570
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434668 DATE: OCT. 7, 1994 PAGE: 12
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 20 FOR LOWER LAKE REMEDIATION SEP. 26-30, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0571 THRU: 749/0582
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434669 DATE: OCT. 14, 1994 PAGE: 6
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 21 FOR LOWER LAKE REMEDIATION OCT. 3-7, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0583 THRU: 749/0588
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434670 DATE: NOV. 4, 1994 PAGE: 8
TITLE: (TRANSMITS ATTACHED DAILY LOGS AND WEEKLY CONSTRUCTION REPORT 24 FOR LOWER LAKE REMEDIATION OCT. 24-28, 1994)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0589 THRU: 749/0596
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434671 DATE: NOV. 11, 1994 PAGE: 1
TITLE: (WEEKLY CONSTRUCTION REPORT 25 FOR LOWER LAKE REMEDIATION OCT. 31-NOV. 4, 1994; SHUTDOWN OF DREDGING OPERATIONS)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0597 THRU: 749/0597
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434672 DATE: NOV. 18, 1994 PAGE: 6
TITLE: (PROCESS PONDS OU PROGRESS REPORT 50 OCT. 1994)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * YOUNG, ANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0598 THRU: 749/0603
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434675 DATE: DEC. 20, 1994 PAGE: 5
TITLE: (PROCESS PONDS OU PROGRESS REPORT 51 NOV. 1994)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * YOUNG, ANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0604 THRU: 749/0608
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434776 DATE: APR. 16, 1990 PAGE: 4
ATTACHED DOC(S): 434777 THRU: 434783
TITLE: (RESPONSE TO APR. 1990 REQUEST FOR INFORMATION PURSUANT TO SECTION 104 OF CERCLA; ATTACHED COPY OF EXECUTED NOTARIZED CERTIFICATE)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA R./EPA
CC: BROWN * GOODSTEIN * HART * DAVIS * NICKEL * MORISON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0609 THRU: 749/0612
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434777 DATE: AUG. 2, 1927 PAGE: 1
ATTACHED TO: 434776
TITLE: (EXHIBIT 1 ENGINEERING DRAWING HG-5: EAST HELENA SLAG PLANT WATER SYSTEM GENERAL LAYOUT)
AUTHOR: WARNER, J.H./ACMC
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0613 THRU: 749/0613
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434778 DATE: AUG. 17, 1927 PAGE: 1
ATTACHED TO: 434776
TITLE: (EXHIBIT 2 ENGINEERING DRAWING HG-4: "EAST HELENA SLAG PLANT WATER SUPPLY TO FURNACE BUILDING LAYOUT AND DETAILS")
AUTHOR: WARNER/ACMC * DAVENPORT/ACMC
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0614 THRU: 749/0614
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434779 DATE: NOV. 25, 1939 PAGE: 1
ATTACHED TO: 434776
TITLE: (EXHIBIT 3: BLACK AND WHITE PHOTOGRAPH TAKEN OF ZINC FACILITY DEPICTING WATER DISCHARGES FROM ZINC FUMING PLANT TO LOWER LAKE)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PHOTO/SLIDE
MICROFILM ROLL/FRAME NO.: 749/0615 THRU: 749/0615
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434780 DATE: AUG. 13, 1954 PAGE: 1
ATTACHED TO: 434776
TITLE: (EXHIBIT 4: BLACK AND WHITE PHOTOGRAPH TAKEN OF ZINC FACILITY DEPICTING WATER DISCHARGES FROM ZINC FUMING PLANT TO LOWER LAKE)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PHOTO/SLIDE
MICROFILM ROLL/FRAME NO.: 749/0616 THRU: 749/0616
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434781 DATE: MAR. 17. 1961 PAGE: 1
ATTACHED TO: 434776
TITLE: (EXHIBIT 5 ENGINEERING DRAWING HG-17: EAST HELENA SLAG PLANT WATER SUPPLY DIVISION PIPING ALTERATIONS TO FACILITATE USE OF NUMBER 1 AND 2 PUMPS SIMULTANEOUSLY)
AUTHOR: DIETZ/ANACONDA COMPANY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0617 THRU: 749/0617
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434782 DATE: OCT. 1963 PAGE: 1
ATTACHED TO: 434776
TITLE: (EXHIBIT 6 ENGINEERING DRAWING HG-20: EAST HELENA SLAG PLANT WATER SUPPLY FOR FURNACE BUILDING GENERAL PLAN OF PUMP HOUSE FOR VERTICAL PUMPS)
AUTHOR: SCHLOSSER/ANACONDA COMPANY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0618 THRU: 749/0618
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434783 DATE: APR. 7, 1975 PAGE: 1
ATTACHED TO: 434776
TITLE: (CHEMICAL ANALYSES OF CONSTITUENTS OF BOTH INTAKE AND DISCHARGE WATER OF ZINC FUMING PLANT)
AUTHOR: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 749/0619 THRU: 749/0619
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * LEAD * ZINC
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434784 DATE: APR. 17, 1990 PAGE: 13
TITLE: (PROVIDES ARCO INITIAL RESPONSE TO EPA PROPOSED CONSENT DECREE INCLUDED IN EPA FEB. 23, 1990 SPECIAL NOTICE LETTER TO ARCO)
AUTHOR: LAWRENCE, ROBERT W./PMHS
ADDRESSEE: MORENO, SANDRA R./EPA
CC: GOODSTEIN * KRABLIN * DESAUTELS * DENT * LEAP * HART
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0620 THRU: 749/0632
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434785 DATE: APR. 18, 1990 PAGE: 2
TITLE: (TRANSMITS ATTACHED ORIGINAL NOTARIZED CERTIFICATE FOR 104(E) RESPONSE SUBMITTED BY ASARCO APR. 17, 1990)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA R./EPA
CC: HART * NICKEL * MORISON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0633 THRU: 749/0634
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434786 DATE: APR. 25, 1990 PAGE: 6
ATTACHED DOC(S): 434787 THRU: 434793
TITLE: (PROVIDES EPA WITH ANALYSIS OF WHY ARCO SHOULD NOT BE CONSIDERED PRP FOR PROCESS PONDS OU; TRANSMITS SUPPORTING DOCUMENTATION)
AUTHOR: DESAUTELS, JEFFREY H./ARCO
ADDRESSEE: MORENO, SANDRA R./EPA * BOHAN, SUZANNE/EPA * GOODSTEIN, MICHAEL/DOJ
CC: LEAP * HART * KRABLIN * DENT * LAWRENCE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0635 THRU: 749/0640
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434787 DATE: MAR. 12, 1970 PAGE: 1
ATTACHED TO: 434786
TITLE: (EXHIBIT A: SITE PLAN SKETCH DEPICTING APPROXIMATE LOCATION OF ANACONDA COMPANY OPERATIONS, COOLING WATER PUMPHOUSE, AND COOLING WATER DISCHARGE TO LOWER LAKE)
AUTHOR: /ANACONDA COMPANY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0641 THRU: 749/0641
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434788 DATE: AUG. 2, 1927 PAGE: 1
ATTACHED TO: 434786
TITLE: (EXHIBIT B ENGINEERING DRAWING HG-5: EAST HELENA SLAG PLANT WATER SYSTEM GENERAL LAYOUT)
AUTHOR: WARNER, J.H./ACMC
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0642 THRU: 749/0642
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434789 DATE: AUG. 17, 1927 PAGE: 1
ATTACHED TO: 434786
TITLE: (EXHIBIT B ENGINEERING DRAWING HG-4: EAST HELENA SLAG PLANT WATER SUPPLY TO FURNACE BUILDING LAYOUT AND DETAILS)
AUTHOR: WARNER/ACMC * DAVENPORT/ACMC
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0643 THRU: 749/0643
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434790 DATE: MAR. 17, 1961 PAGE: 1
ATTACHED TO: 434786
TITLE: (EXHIBIT B ENGINEERING DRAWING HG-17: EAST HELENA SLAG PLANT WATER SUPPLY DIVISION PIPING ALTERATIONS TO FACILITATE USE OF NUMBER 1 AND 2 PUMPS SIMULTANEOUSLY)
AUTHOR: DIETZ/ANACONDA COMPANY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0644 THRU: 749/0644
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434791 DATE: OCT. 1963 PAGE: 1
ATTACHED TO: 434786
TITLE: (EXHIBIT B ENGINEERING DRAWING HG-20: EAST HELENA SLAG PLANT WATER SUPPLY FOR FURNACE BUILDING GENERAL PLAN OF PUMP HOUSE)
AUTHOR: SCHLOSSER/ANACONDA COMPANY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0645 THRU: 749/0645
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434792 DATE: SEP. 9, 1936 PAGE: 1
ATTACHED TO: 434786
TITLE: "EAST HELENA PLANT OF THE AMERICAN SMELTING AND REFINING COMPANY EAST HELENA MONTANA"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0646 THRU: 749/0646
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434793 DATE: JUN. 5, 1975 PAGE: 1
ATTACHED TO: 434786
TITLE: "GENERAL RECIRCULATION OF B.F. WATER GENERAL ARRANGEMENT"
AUTHOR: THORNOCK/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 749/0647 THRU: 749/0647
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434796 DATE: MAY 21, 1990 PAGE: 15
DUPLICATE DOCUMENT: 2060000/0212415
TITLE: (ARCO PARTIAL RESPONSE TO EPA SPECIAL NOTICE LETTER REGARDING ZINC FUMING PLANT AND LOWER LAKE; PROPOSES DE MINIMIS SETTLEMENT)
AUTHOR: DESAUTELS, JEFFREY H./ARCO
ADDRESSEE: WARDELL, JOHN F./EPA * BOHAN, SUZANNE J./EPA
CC: GOODSTEIN * EGGERT * CRANCE * TETER * KRABLIN * DENT * LAWRENCE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0648 THRU: 749/0662
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * IRON
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434799 DATE: MAY 14, 1992 PAGE: 95
ATTACHED DOC(S): 434800
TITLE: (TRANSMITS ATTACHED HYDROMETRICS LABORATORY AND FIELD DATA FOR LOWER LAKE PROCESS SLUDGE/MARSH DEPOSITS/TREATMENT SLUDGE TESTING PROGRAM)
AUTHOR: BRAICO, ROBERT D./HYDROMETRICS
ADDRESSEE: BLUCK, BILL/CH2M HILL
CC: NICKEL * KLEMPEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0663 THRU: 749/0764
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * SLUDGE * LEACHATE * SOIL * SEDIMENT
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434800 DATE: FEB. 11, 1993 PAGE: 14
DUPLICATE DOCUMENT: 2060000/424360
ATTACHED TO: 434799
TITLE: (TRANSMITS ATTACHED LOWER LAKE SEDIMENT LEACHATE IMPACT CALCULATIONS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: QUINONES * MADDEN * BLUCK * GLANZMAN * SPICKELMIER * NICKEL * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0765 THRU: 749/0778
KEYWORD(S): LEACHATE * GROUNDWATER * SURFACE WATER * SLUDGE * ARSENIC * CADMIUM * CHROMIUM * COPPER * LEAD * MERCURY * SELENIUM * SILVER * ZINC
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434802 DATE: DEC. 23, 1994 PAGE: 2
TITLE: (DISCUSSES PROCESS PONDS PROGRESS REPORTS THAT IMPLY LOWER LAKE WATER IS BEING TREATED BY HIGH DENSITY SLUDGE WATER TREATMENT PLANT)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
CC: WARDELL * FOX * BOHAN * MONTGOMERY * KENT * YOUNG
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0779 THRU: 749/0780
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434803 DATE: JAN. 20, 1995 PAGE: 5
TITLE: (PROCESS PONDS OU PROGRESS REPORT 52 DEC. 1994)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * YOUNG, ANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0781 THRU: 749/0785
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434804 DATE: FEB. 1, 1995 PAGE: 6
TITLE: (REPORT OF REVIEW CONDUCTED REGARDING DISCHARGES OF PLANT PROCESS WATER TO LOWER LAKE)
AUTHOR: FISCHER, DEANNE/CH2M HILL * BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/0786 THRU: 749/0791
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434805 DATE: FEB. 21, 1995 PAGE: 5
TITLE: (PROCESS PONDS OU PROGRESS REPORT 53 JAN. 1995)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * YOUNG, ANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0792 THRU: 749/0796
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434806 DATE: FEB. 7, 1995 PAGE: 1
TITLE: (SCHEDULES LOWER LAKE STATUS MEETING FOR MAR. 1, 1995; LISTS TOPICS OF DISCUSSION)
AUTHOR: ASKIN, RONALD C./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * SPICKELMIER * BRAICO * YOST * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0797 THRU: 749/0797
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434807 DATE: FEB. 1995 PAGE: 27
TITLE: "ASARCO EAST HELENA PLANT LOWER LAKE REMEDIATION PROJECT VOLUME OF SEDIMENT REMOVED FROM LOWER LAKE DURING 1994 SUMMARY REPORT" (ATTACHED TRANSMITTAL FROM ASKIN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 749/0798 THRU: 749/0824
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434808 DATE: MAR. 1, 1995 PAGE: 11
TITLE: "OUTLINE FOR THE MAR. 1, 1995 LOWER LAKE REMEDIATION STATUS MEETING" (ATTACHED HANDOUTS)
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 749/0825 THRU: 749/0836
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434809 DATE: MAR. 2, 1995 PAGE: 27
TITLE: "ASARCO EAST HELENA PLANT LOWER LAKE REMEDIATION PROJECT VOLUME OF SEDIMENT REMOVED FROM LOWER LAKE DURING 1994 SUMMARY REPORT" (ATTACHED TRANSMITTAL FROM ASKIN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 749/0837 THRU: 749/0863
KEYWORD(S): SLUDGE
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434838 DATE: OCT. 28, 1992 PAGE: 9
TITLE: (PROVIDES INFORMATION REQUESTED AT OCT. 14, 1992 MEETING REGARDING REMEDIATION OF LOWER LAKE PROCESS SLUDGES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BOHAN * QUINONES * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0864 THRU: 749/0874
KEYWORD(S): ARSENIC * COPPER * IRON * MANGANESE * LEAD * ZINC
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434839 DATE: FEB. 8, 1995 PAGE: 7
TITLE: (RESPONSE TO DEC. 23, 1994 LETTER CONCERNING PROCESS POND ISSUES; ATTACHED NOTE TO FILE FROM RPM)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: WARDELL * FOX * BOHAN * MONTGOMERY * KENT * YOUNG * DODSON * SPEICHER * BATES * LITLE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0875 THRU: 749/0881
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434840 DATE: FEB. 7, 1995 PAGE: 4
TITLE: (TRANSMITS ATTACHED SUMMARY OF EAST HELENA PLANT ARSENIC AND METALS LOADS TO AND REMOVAL FROM LOWER LAKE AND DISCHARGE ALTERNATIVES FOR PLANT HIGH DENSITY SLUDGE WATER TREATMENT FACILITY)
AUTHOR: BRAICO, BOB/HYDROMETRICS * KIMBALL, BOB/HYDROMETRICS
ADDRESSEE: MARCUS, RICHARD C./ASARCO
CC: SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/0882 THRU: 749/0885
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434841 DATE: MAR. 20, 1995 PAGE: 5
TITLE: (PROCESS PONDS OU PROGRESS REPORT 54 FEB. 1995)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * MILLER, BOB/(HYDROMETRICS) * /DOJ * THORVILSON, ROGER/MDHES * YOUNG, ANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/0886 THRU: 749/0890
NOTES: UPDATE 10

FILE: 2060000 DOCNO: 434870 DATE: AUG. 1993 PAGE: 350
TITLE: "VOL. 1 - TEXT AND APPENDICES A TO C SAMPLING AND LABORATORY EXAMINATION OF THE TREATABILITY OF LOWER LAKE PROCESS SLUDGE, MARSH DEPOSITS AND IN SITU TREATMENT PRECIPITATES COMPLETION REPORT ASARCO EAST HELENA SITE PROCESS PONDS OU" (ATTACHED TRANSMITTAL FROM BRAICO)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 800/0015 THRU: 800/0372
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * LEACHATE * SEDIMENT * SLUDGE
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434871 DATE: AUG. 1993(E) PAGE: 606
TITLE: "VOL. 2 - APPENDICES D TO H SAMPLING AND LABORATORY EXAMINATION OF THE TREATABILITY OF LOWER LAKE PROCESS SLUDGE, MARSH DEPOSITS AND IN SITU TREATMENT PRECIPITATES COMPLETION REPORT ASARCO EAST HELENA SITE PROCESS PONDS OU"
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 800/0373 THRU: 800/0980
KEYWORD(S): SEDIMENT * SLUDGE
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434872 DATE: OCT. 1993 PAGE: 512
TITLE: "PRELIMINARY (30%) DESIGN REPORT LOWER LAKE REMEDIATION PROJECT FOR ASARCO EAST HELENA PLANT" (ATTACHED TRANSMITTAL FROM BRAICO)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 800/0981 THRU: 800/1525
KEYWORD(S): ARSENIC * CADMIUM * IRON * CHROMIUM * MANGANESE * MERCURY * LEAD * SELENIUM * LEACHATE * SILVER
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434873 DATE: MAR. 1994 PAGE: 393
TITLE: "PRE-FINAL (90%) DESIGN REPORT LOWER LAKE REMEDIATION PROJECT FOR ASARCO EAST HELENA PLANT VOL. 1"
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 800/1526 THRU: 800/1952
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * SURFACE WATER * GROUNDWATER * SEDIMENT * SOIL
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434874 DATE: MAR. 1994 PAGE: 475
TITLE: "PRE-FINAL (90%) DESIGN REPORT LOWER LAKE REMEDIATION PROJECT FOR ASARCO EAST HELENA PLANT VOL.2"
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA * INCOMPLETE
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 800/1953 THRU: 800/2433
KEYWORD(S): SLUDGE
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434875 DATE: MAR. 1994 PAGE: 251
TITLE: "PRE-FINAL (90%) DESIGN REPORT LOWER LAKE REMEDIATION PROJECT FOR ASARCO EAST HELENA PLANT VOL. 3"
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA * INCOMPLETE
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 800/2434 THRU: 800/2691
KEYWORD(S): SURFACE WATER * GROUNDWATER * ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC * SOIL
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434876 DATE: AUG. 5, 1994 PAGE: 1
TITLE: (RESPONSE TO JUL. 14, 1994 LETTER CONCERNING MODIFYING REMEDIATION SCHEDULE)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: WARDELL, JOHN F./EPA
CC: SPICKELMIER * JENSEN * HART
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0015 THRU: 801/0015
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434877 DATE: APR. 20, 1995 PAGE: 6
TITLE: (PROCESS PONDS OU PROGRESS REPORT 55 MAR. 1995)
AUTHOR: SPICKELMIER, JAY/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * YOUNG, ANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0016 THRU: 801/0021
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434878 DATE: MAY 1, 1995 PAGE: 3
TITLE: (FOLLOW UP TO FEB. 24, 1994 MEETING TO DISCUSS STORMWATER IMPROVEMENTS PROJECT)
AUTHOR: ASKIN, RONALD C./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: YOUNG * BLUCK * SPICKELMIER * BRAICO * YOST
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0022 THRU: 801/0024
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434879 DATE: MAY 2, 1995 PAGE: 3
TITLE: (SCHEDULES SEMI-ANNUAL SAMPLING EVENT TO BEGIN MAY 3, 1995 AND CONCLUDE MAY 31, 1995)
AUTHOR: CRANE, WALTER/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0025 THRU: 801/0027
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434880 DATE: MAY 11, 1995 PAGE: 11
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 1 AND 2 FOR LOWER LAKE REMEDIATION PROJECT APR. 26 - MAY 5, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0028 THRU: 801/0038
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434881 DATE: MAY 18, 1995 PAGE: 8
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 3 FOR LOWER LAKE REMEDIATION PROJECT MAY 8-12, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0039 THRU: 801/0046
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434882 DATE: MAY 19, 1995 PAGE: 5
TITLE: (PROCESS PONDS OU PROGRESS REPORT 56 APR. 1995)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * YOUNG, ANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0047 THRU: 801/0051
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434883 DATE: MAY 26, 1995 PAGE: 8
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 4 FOR LOWER LAKE REMEDIATION PROJECT MAY 15-19, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0052 THRU: 801/0059
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434884 DATE: MAY 31, 1995 PAGE: 8
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 5 FOR LOWER LAKE REMEDIATION PROJECT MAY 22-26, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0060 THRU: 801/0067
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434885 DATE: JUN. 5, 1995 PAGE: 7
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 6 FOR LOWER LAKE REMEDIATION PROJECT MAY 30 - JUN. 2, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0068 THRU: 801/0074
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434926 DATE: JUN. 12, 1995 PAGE: 8
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 7 FOR LOWER LAKE REMEDIATION PROJECT JUN. 5 - 9, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0075 THRU: 801/0082
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434927 DATE: JUN. 13, 1995 PAGE: 6
TITLE: (PROCESS PONDS OU PROGRESS REPORT 57 MAY 1995)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * YOUNG, ANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0083 THRU: 801/0088
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434928 DATE: JUN. 28, 1995 PAGE: 9
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 9 FOR LOWER LAKE REMEDIATION PROJECT JUN. 18 - 23, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0089 THRU: 801/0097
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434929 DATE: JUL. 6, 1995 PAGE: 9
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 10 FOR LOWER LAKE REMEDIATION PROJECT JUN. 25 - 30, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0098 THRU: 801/0106
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434930 DATE: JUL. 11, 1995 PAGE: 7
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 11 FOR LOWER LAKE REMEDIATION PROJECT JUL. 5 - 8, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0107 THRU: 801/0113
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434931 DATE: JUL. 20, 1995 PAGE: 6
TITLE: (PROCESS PONDS OU PROGRESS REPORT 58 JUN. 1995)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * YOUNG, ANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0114 THRU: 801/0119
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434932 DATE: JUL. 27, 1995 PAGE: 10
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 13 FOR LOWER LAKE REMEDIATION PROJECT JUL. 16 - 22, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0120 THRU: 801/0129
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434933 DATE: AUG. 1, 1995 PAGE: 10
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 14 FOR LOWER LAKE REMEDIATION PROJECT JUL. 23 - 29, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0130 THRU: 801/0139
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434934 DATE: AUG. 10, 1995 PAGE: 9
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 15 FOR LOWER LAKE REMEDIATION PROJECT JUL. 30 - AUG. 5, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0140 THRU: 801/0148
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434935 DATE: AUG. 16, 1995 PAGE: 10
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 16 FOR LOWER LAKE REMEDIATION PROJECT AUG. 6 - 12, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0149 THRU: 801/0158
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434936 DATE: AUG. 18, 1995 PAGE: 6
TITLE: (PROCESS PONDS OU PROGRESS REPORT 59 JUL. 1995)
AUTHOR: SPICKELMIER, JAY A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * /DOJ * THORVILSON, ROGER/MDHES * YOUNG, ANDY/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0159 THRU: 801/0164
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434937 DATE: AUG. 25, 1995 PAGE: 3
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 17 FOR LOWER LAKE REMEDIATION PROJECT AUG. 13 - 19, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0165 THRU: 801/0167
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434938 DATE: AUG. 31, 1995 PAGE: 10
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 18 FOR LOWER LAKE REMEDIATION PROJECT AUG. 20 - 26, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0168 THRU: 801/0177
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434939 DATE: SEP. 7, 1995 PAGE: 9
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 19 FOR LOWER LAKE REMEDIATION PROJECT AUG. 27 - SEP. 1, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0178 THRU: 801/0186
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434940 DATE: SEP. 13, 1995 PAGE: 9
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 20 FOR LOWER LAKE REMEDIATION PROJECT SEP. 5 - 9, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0187 THRU: 801/0195
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434943 DATE: SEP. 19, 1995 PAGE: 10
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 21 FOR LOWER LAKE REMEDIATION PROJECT SEP. 10 - 16, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0196 THRU: 801/0205
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 434944 DATE: SEP. 25, 1995 PAGE: 10
TITLE: (TRANSMITS ATTACHED WEEKLY CONSTRUCTION REPORT 22 FOR LOWER LAKE REMEDIATION PROJECT SEP. 17 - 23, 1995)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: THORVILSON * NICKEL * SPICKELMIER * BLUCK * MARTY * ASKIN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/0206 THRU: 801/0215
KEYWORD(S): SEDIMENT
NOTES: UPDATE 11

FILE: 2060000 DOCNO: 450142 DATE: DEC. 1995 PAGE: 27
TITLE: "EXAMINATION OF THE FATE OF STORM WATER (STORMWATER) DISCHARGED FROM THE ASARCO EAST HELENA PLANT UNDER MPDES STORM WATER DISCHARGE PERMIT NO. MTR000072" (ATTACHED TRANSMITTAL FROM YOST TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 912/0060 THRU: 912/0089
NOTES: UPDATE 13

FILE: 2060000 DOCNO: 450149 DATE: MAY 14, 1996 PAGE: 1
TITLE: (COMMENTS ON EXAMINATION OF THE FATE OF STORM WATER DISCHARGED FROM THE ASARCO EAST HELENA PLANT UNDER MPDES STORM WATER DISCHARGE PERMIT MTR000072; STATES STORMWATER CAN BE ADEQUATELY CONTROLLED UNDER STORM WATER PERMIT AND FACILITY CAN BE CONSIDERED NON DISCHARGING AFTER IMPROVEMENTS ARE INSTALLED)
AUTHOR: SHEWMAN, FREDERICK C./MDEQ
ADDRESSEE: BROWN, SCOTT/EPA
CC: BRAICO * SCOTT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 912/0090 THRU: 912/0090
NOTES: UPDATE 13

FILE: 2060000 DOCNO: 465831 DATE: APR. 12, 2005 PAGE: 7
TITLE: (CONSENT DECREE PROCESS PONDS MAR. 2005 PROGRESS REPORT 174)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * OLSEN, SANDI/MDEQ * /DOJ
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1748/0025 THRU: 1748/0031
NOTES: UPDATE 31

FILE: 3000000 DOCNO: 0200001 DATE: AUG. 1989 PAGE: 49
TITLE: "TREATABILITY TESTING WORK PLAN FOR THE ASARCO EAST HELENA COMPREHENSIVE FEASIBILITY STUDY [FS]" (ATTACHED TRANSMITTAL FROM MILLER)
AUTHOR: /HYDROMETRICS * /WESTON
ADDRESSEE: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: CONTRACT
CROSS FILE(S):4000000
MICROFILM ROLL/FRAME NO.: 320/0361 THRU: 320/0409
KEYWORD(S): ARSENIC * CADMIUM * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 3000000 DOCNO: 0230611 DATE: JAN. 2, 1991 PAGE: 2
TITLE: (COMMENTS REGARDING GROUNDWATER WELL SAMPLING RESULTS AND ORGANIC COMPOUNDS FOUND)
AUTHOR: MULLEN, GREG/MDHES
ADDRESSEE: BROWN, SCOTT/(EPA)
CC: NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 320/0359 THRU: 320/0360
NOTES: UPDATE 02

FILE: 3000000 DOCNO: 402796 DATE: APR. 19, 1990 PAGE: 1
TITLE: (NOTIFICATION OF SURFACE AND GROUNDWATER SAMPLING APR. 29-MAY 6, 1991)
AUTHOR: MILLER, ROBERT/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1006 THRU: 415/1006
NOTES: UPDATE 03

FILE: 3000000 DOCNO: 402797 DATE: MAY 3, 1991 PAGE: 1
ATTACHED DOC(S): 402798 THRU: 402799
TITLE: (TRANSMITS ANALYTICAL RESULTS, RAW DATA PACKAGE, FOR GROUNDWATER SAMPLES FROM NOV. 20-DEC. 7, 1990)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA * ATTORNEY/DOJ * PROJECT MANAGER/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1007 THRU: 415/1007
NOTES: UPDATE 03

FILE: 3000000 DOCNO: 402798 DATE: APR. 15, 1991 PAGE: 1
ATTACHED TO: 402797
TITLE: (TRANSMITS ANALYTICAL RESULTS AND DOCUMENTATION, RAW DATA PACKAGE, FOR GROUNDWATER SAMPLES FROM NOV. 20-DEC. 7, 1990)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1008 THRU: 415/1008
NOTES: UPDATE 03

FILE: 3000000 DOCNO: 402799 DATE: DEC. 7, 1990 PAGE: 499
ATTACHED TO: 402797
TITLE: "TABLE OF CONTENTS ASARCO - EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS] PHASE 2 WATER SAMPLES COLLECTED NOV. 20 THROUGH DEC. 7, 1990" (DATA ATTACHED)
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 415/1009 THRU: 415/1507
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * GROUNDWATER
NOTES: UPDATE 03

FILE: 3000000 DOCNO: 402800 DATE: MAY 6, 1991 PAGE: 1
TITLE: (DISCUSSES PLANS TO CONDUCT PILOT SCALE TESTS ON TREATMENTS FOR REDUCING PROCESS CIRCUITRY GAINS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):2000000
MICROFILM ROLL/FRAME NO.: 415/1508 THRU: 415/1508
NOTES: UPDATE 03

FILE: 3000000 DOCNO: 402801 DATE: JUN. 4, 1991 PAGE: 1
ATTACHED DOC(S): 402802
TITLE: (CH2M HILL TECHNICAL REVIEW OF GROUNDWATER RAW DATA PACKAGE FROM MSU ANALYSIS OF CLP DATA FOR SPLIT SAMPLES AND COMPARISON WATER SAMPLE DATA RESULTS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/1509 THRU: 415/1509
NOTES: UPDATE 03

FILE: 3000000 DOCNO: 402802 DATE: MAY 29, 1991 PAGE: 13
ATTACHED TO: 402801
TITLE: (CH2M HILL TECHNICAL REVIEW OF GROUNDWATER RAW DATA PACKAGE BY MSU REVIEW OF CLP DATA FOR SPLIT SAMPLES AND COMPARISON OF CLP AND ASARCO WATER SAMPLE DATA RESULTS; ATTACHED APPENDIX)
AUTHOR: NEUMAN, DENNIS/MSU * BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/1510 THRU: 415/1522
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD
NOTES: UPDATE 03

FILE: 3000000 DOCNO: 402803 DATE: JUN. 7, 1991 PAGE: 1
ATTACHED DOC(S): 402804
TITLE: (CH2M HILL COMMENTS ON WATER QUALITY RAW DATA PACKAGE FROM MSU TECHNICAL REVIEW)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/1523 THRU: 415/1523
NOTES: UPDATE 03

FILE: 3000000 DOCNO: 402804 DATE: JUN. 5, 1991 PAGE: 4
ATTACHED TO: 402803
TITLE: (CH2M HILL COMMENTS ON WATER QUALITY RAW DATA PACKAGE BY MSU REVIEW)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/1524 THRU: 415/1527
NOTES: UPDATE 03

FILE: 3000000 DOCNO: 402805 DATE: JUN. 11, 1991 PAGE: 1
ATTACHED DOC(S): 402806 THRU: 402807
TITLE: (TRANSMITS RAW DATA PACKAGE FOR GROUNDWATER SAMPLES TAKEN DEC. 20, 1990)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1528 THRU: 415/1528
NOTES: UPDATE 03

FILE: 3000000 DOCNO: 402806 DATE: MAY 31, 1991 PAGE: 1
ATTACHED TO: 402805
TITLE: (TRANSMITS ANALYTICAL RESULTS, RAW DATA PACKAGE, FOR PHASE 2 GROUNDWATER DEC. 20, 1990 SAMPLES)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1529 THRU: 415/1529
KEYWORD(S): ARSENIC
NOTES: UPDATE 03

FILE: 3000000 DOCNO: 402807 DATE: 1991(E) PAGE: 1
ATTACHED TO: 402805
TITLE: "TABLE OF CONTENTS ASARCO - EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS] PHASE 2 ARSENIC +3 AND ARSENIC +5 SPECIATION WATER SAMPLES COLLECTED DEC. 20, 1990"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/1530 THRU: 415/1530
NOTES: UPDATE 03

FILE: 3000000 DOCNO: 416349 DATE: JAN. 8, 1992(E) PAGE: 11
TITLE: (COMPARATIVE SPLITS DATA ANALYZED BY CLP LAB [KEYSTONE]; CHAIN OF CUSTODY FORMS AND AUDIT CHECKLIST)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/1393 THRU: 436/1403
NOTES: UPDATE 04

FILE: 3000000 DOCNO: 416350 DATE: FEB. 25, 1992 PAGE: 1
ATTACHED DOC(S): 416351 THRU: 416352
TITLE: (TRANSMITS WATER SAMPLING DATA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1404 THRU: 436/1404
NOTES: UPDATE 04

FILE: 3000000 DOCNO: 416351 DATE: FEB. 11, 1992 PAGE: 1
ATTACHED TO: 416350
TITLE: (TRANSMITS WATER SAMPLING DATA)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1405 THRU: 436/1405
NOTES: UPDATE 04

FILE: 3000000 DOCNO: 416352 DATE: MAY 14, 1991 (E) PAGE: 1
ATTACHED TO: 416350
TITLE: (TABLE OF CONTENTS FOR EAST HELENA RI/FS PHASE 2 ARSENIC +3 AND ARSENIC +5 SPECIATION WATER SAMPLES COLLECTED MAY 3-14, 1991)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/1406 THRU: 436/1406
NOTES: UPDATE 04

FILE: 3000000 DOCNO: 424555 DATE: MAR. 1993 PAGE: 129
TITLE: "VALIDATION SUMMARY OF INORGANICS DATA, ASARCO EAST HELENA SPRING 1992 POST RI MONITORING ASARCO INC. EAST HELENA, MONTANA" (VALIDATED DATA SUMMARY FOR GROUNDWATER)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J.A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/0495 THRU: 627/0623
KEYWORD(S): SILVER * ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * MERCURY * MANGANESE * LEAD * SELENIUM * THALLIUM * ZINC * GROUNDWATER
NOTES: UPDATE 07

FILE: 3000000 DOCNO: 424799 DATE: OCT. 25, 1993 PAGE: 1
TITLE: (GIVES DATES OF NOV. 1-22, 1993 FOR FALL QUARTER RI/FS SAMPLING EVENT)
AUTHOR: CRANE, WALTER/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0494 THRU: 669/0494
NOTES: UPDATE 08

FILE: 3000000 DOCNO: 434635 DATE: NOV. 1, 1994 PAGE: 1
ATTACHED DOC(S): 434636 THRU: 434637
TITLE: (TRANSMITS LABORATORY DATA FROM POST-RI MONITORING AT ASARCO EAST HELENA SITE)
AUTHOR: PETERSON, LISA M./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1127 THRU: 737/1127
NOTES: UPDATE 09

FILE: 3000000 DOCNO: 434636 DATE: SEP. 14, 1994 PAGE: 3
ATTACHED TO: 434635
TITLE: (TRANSMITS RESULTS, DOCUMENTATION AND DELIVERABLES FOR EAST HELENA PHASE 2 WATER SAMPLES COLLECTED MAY 4-16, 1994; ATTACHED TABLE OF CONTENTS FOR ASARCO-EAST HELENA RI/FS PHASE 2 WATER SAMPLES COLLECTED MAY 4-16, 1993 [1994])
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: VANEK, JENNY/HYDROMETRICS
CC: NICKEL * RICHARDSON * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1128 THRU: 737/1130
NOTES: UPDATE 09

FILE: 3000000 DOCNO: 434637 DATE: NOV. 3, 1994 PAGE: 1
ATTACHED TO: 434635
TITLE: (REQUESTS REVIEW OF DATA PACKAGE AND CH2M HILL TO PROVIDE OVERSIGHT AT NEXT ASARCO GROUNDWATER WELL MONITORING EXERCISE)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1131 THRU: 737/1131
NOTES: UPDATE 09

FILE: 3000000 DOCNO: 434639 DATE: SEP. 1994 PAGE: 170
TITLE: "VALIDATION SUMMARY OF INORGANICS DATA, ASARCO EAST HELENA SPRING 1993 POST RI MONITORING ASARCO INCORPORATED EAST HELENA, MONTANA"
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J.A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/1132 THRU: 737/1301
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 09

FILE: 3000000 DOCNO: 434676 DATE: SEP. 1994 PAGE: 177
TITLE: "VALIDATION SUMMARY OF INORGANICS DATA, ASARCO EAST HELENA FALL 1992 POST RI MONITORING ASARCO, INC. EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM DOWNS)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 749/0891 THRU: 749/1069
KEYWORD(S): GROUNDWATER/HYDROGEOLOGY * ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 10

FILE: 3000000 DOCNO: 434677 DATE: NOV. 1994 PAGE: 172
TITLE: "VALIDATION SUMMARY OF INORGANICS DATA, ASARCO EAST HELENA FALL 1993 POST RI MONITORING ASARCO INCORPORATED EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM PETERSON)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 749/1070 THRU: 749/1241
KEYWORD(S): GROUNDWATER/HYDROGEOLOGY * SURFACE WATER * ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 10

FILE: 3000000 DOCNO: 434842 DATE: FEB. 27, 1995 PAGE: 3
TITLE: (TRANSMITS ATTACHED CONTENTS PAGES FOR RI/FS PHASE 2 WATER SAMPLES COLLECTED NOV. 8-12, 1994)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: VANEK, JENNY/HYDROMETRICS
CC: NICKEL * RICHARDSON * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1242 THRU: 749/1244
NOTES: UPDATE 10

FILE: 3000000 DOCNO: 434843 DATE: MAR. 29, 1995 PAGE: 2
ATTACHED DOC(S): 434844
TITLE: (TRANSMITS MSU COMMENTS ON NOV. 1994 HYDROMETRICS VALIDATION SUMMARY OF INORGANICS DATA)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPICKELMIER, JAY S. (A)/HYDROMETRICS
CC: BOHAN * YOUNG
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1245 THRU: 749/1246
NOTES: UPDATE 10

FILE: 3000000 DOCNO: 434844 DATE: JAN. 9, 1995 PAGE: 3
ATTACHED TO: 434843
TITLE: (REVIEW COMMENTS ON NOV. 1994 HYDROMETRICS VALIDATION SUMMARY OF INORGANICS DATA)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1247 THRU: 749/1249
NOTES: UPDATE 10

FILE: 3010000 DOCNO: 450542 DATE: SEP. 19, 1997 PAGE: 6
TITLE: (COMMENTS ON ASARCO (EAST HELENA) EH SMELTER SITE GROUNDWATER ISSUES)
AUTHOR: ANTONIOLI, BRIAN/(EMI)
ADDRESSEE: ZAZZALI, SUSAN/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
CROSS FILE(S):7000000/450547
MICROFILM ROLL/FRAME NO.: 1020/0016 THRU: 1020/0021
NOTES: UPDATE 15

FILE: 3020000 DOCNO: 0130516 DATE: SEP. 1973 PAGE: 37
TITLE: "APPRAISAL OF THE QUALITY OF GROUNDWATER IN THE HELENA VALLEY, MONTANA" (USGS WATER-RESOURCES INVESTIGATIONS 32-73)
AUTHOR: WILKE, K. R./USGS * COFFIN, D. L./USGS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 320/0410 THRU: 320/0449
KEYWORD(S): GROUNDWATER * MANGANESE
NOTES: UPDATE 02

FILE: 3020000 DOCNO: 0130556 DATE: NOV. 1979 PAGE: 57
TITLE: "HYDROLOGIC DATA FROM SELECTED WELLS IN THE HELENA VALLEY, LEWIS AND CLARK COUNTY, MONTANA" (USGS OPEN-FILE REPORT 79-1676)
AUTHOR: MORELAND, JOE A./USGS * LEONARD, ROBERT B./USGS * REED, T. E./USGS * CLAUSEN, RICHARD O./USGS * WOOD, WAYNE A./USGS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 320/0450 THRU: 320/0506
NOTES: UPDATE 02

FILE: 3020000 DOCNO: 0200672 DATE: JUN. 23, 1989 PAGE: 3
TITLE: (TRANSMITS ATTACHED MEMO FROM NEUMAN/MSU REVIEWING ASARCO DATA FOR WATER SAMPLES COLLECTED DEC. 6-28, 1988)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NEUMAN * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 320/0507 THRU: 320/0509
NOTES: UPDATE 02

FILE: 3030000 DOCNO: 0220535 DATE: DEC. 1988 PAGE: 121
TITLE: "GUIDANCE ON REMEDIAL ACTIONS FOR CONTAMINATED GROUNDWATER AT SUPERFUND SITES" (INTERIM FINAL-OSWER DIRECTIVE 9283.1-2)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060706
MICROFILM ROLL/FRAME NO.: 320/0510 THRU: 320/0630
KEYWORD(S): DRINKING WATER STANDARDS * SURFACE WATER STANDARDS * RCRA
NOTES: UPDATE 02

FILE: 3030000 DOCNO: 402808 DATE: NOV. 6, 1990 PAGE: 2
TITLE: (TRANSMITS ARSENIC SPECIATION DATA FOR WATER SAMPLES COLLECTED APR. 27 TO JUN. 14, 1990; ATTACHED RI/FS TABLE OF CONTENTS PHASE 2)
AUTHOR: NOKES, J. H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1531 THRU: 415/1532
NOTES: UPDATE 03

FILE: 3030000 DOCNO: 402809 DATE: APR. 15, 1991 PAGE: 2
TITLE: (TRANSMITS WATER SAMPLE RESULTS COLLECTED NOV. 20 TO DEC. 7, 1990; ATTACHED RI/FS TABLE OF CONTENTS PAGE FOR PHASE 2)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1533 THRU: 415/1534
NOTES: UPDATE 03

FILE: 3030000 DOCNO: 402810 DATE: MAY 16, 1991 PAGE: 8
TITLE: (TRANSMITS ATTACHED MSU REVIEW OF ASARCO WATER SAMPLE DATA PACKAGES COLLECTED FROM APR. TO SEP. 1990)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: BOHAN * FISCHER * NEUMAN * MULLEN * STANGA * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1535 THRU: 415/1542
NOTES: UPDATE 03

FILE: 3030000 DOCNO: 416470 DATE: OCT. 17, 1991 PAGE: 1
TITLE: (TRANSMITTAL LETTER AND TABLE OF CONTENTS FOR RAW ANALYTICAL RESULTS DATA PACKAGE; THIS CROSS FILED DOCUMENT IS LOCATED IN 4070100/416353)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1407 THRU: 436/1407
NOTES: UPDATE 04

FILE: 3030000 DOCNO: 424107 DATE: DEC. 3, 1992 PAGE: 1
ATTACHED DOC(S): 424108
TITLE: (TRANSMITS OVERSIGHT REPORT FOR GROUNDWATER SAMPLING CONDUCTED NOV. 1992)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0760 THRU: 581/0760
NOTES: UPDATE 06

FILE: 3030000 DOCNO: 424108 DATE: NOV. 30, 1992 PAGE: 5
ATTACHED TO: 424107
TITLE: (OVERSIGHT OF WATER SAMPLING CONDUCTED BY HYDROMETRICS AND SAMPLE SPLITS COLLECTED BY CH2M HILL; ATTACHED INORGANIC TRAFFIC REPORT AND CHAIN OF CUSTODY RECORD)
AUTHOR: MITCHELL, J. STEPHEN/CH2M HILL
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0761 THRU: 581/0765
NOTES: UPDATE 06

FILE: 3030000 DOCNO: 434837 DATE: JUL. 1992 PAGE: 135
TITLE: "VALIDATION SUMMARY OF INORGANICS DATA, ASARCO EAST HELENA 1991 POST RI MONITORING ASARCO, INC. EAST HELENA, MONTANA"
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 749/1250 THRU: 749/1381
NOTES: UPDATE 10

FILE: 3030300 DOCNO: 0162076 DATE: APR. 12, 1989 PAGE: 2
TITLE: (TRANSMITS GROUNDWATER DATA)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA * BROWN * KIRLEY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/0631 THRU: 320/0632
NOTES: UPDATE 02

FILE: 3030300 DOCNO: 0200050 DATE: AUG. 28, 1989 PAGE: 176
TITLE: (TRANSMITS ATTACHED BOUND PRINTOUT OF ASARCO DATABASE)
AUTHOR: /CH2M HILL
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: BROWN * BUNTE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
CROSS FILE(S):1070102
MICROFILM ROLL/FRAME NO.: 320/0633 THRU: 320/0810
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * ZINC * GROUNDWATER * SOIL * VEGETATION
NOTES: UPDATE 02

FILE: 3030300 DOCNO: 0200226 DATE: FEB. 2, 1990 PAGE: 2
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR EAST HELENA GROUNDWATER SAMPLING FROM OCT. 11-27, 1989)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/0811 THRU: 320/0812
NOTES: UPDATE 02

FILE: 3030301 DOCNO: 424109 DATE: AUG. 1992 PAGE: 53
TITLE: "VALIDATION SUMMARY OF ORGANICS DATA, POST RI MONITORING SPRING 1991 - SPRING 1992 ASARCO INCORPORATED EAST HELENA, MONTANA"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/0766 THRU: 581/0818
KEYWORD(S): GROUNDWATER * ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 06

FILE: 3030301 DOCNO: 424110 DATE: SEP. 8, 1992 PAGE: 1
ATTACHED DOC(S): 424111
TITLE: (TRANSMITS REPORT ON ORGANIC COMPOUNDS; REQUESTS REVIEW COMMENTS)
AUTHOR: (BROWN), SCOTT/EPA
ADDRESSEE: BLUCK, BILL/(CH2M HILL)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * INCOMPLETE * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0819 THRU: 581/0819
NOTES: UPDATE 06

FILE: 3030301 DOCNO: 424111 DATE: AUG. 1992 PAGE: 52
ATTACHED TO: 424110
TITLE: "VALIDATION SUMMARY OF ORGANICS DATA POST RI MONITORING SPRING 1991 - SPRING 1992 ASARCO INCORPORATED EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM DOWNS TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/0820 THRU: 581/0871
KEYWORD(S): PCP
NOTES: UPDATE 06

FILE: 3030301 DOCNO: 424112 DATE: OCT. 19, 1992 PAGE: 1
ATTACHED DOC(S): 424113 THRU: 424114
TITLE: (TRANSMITS REVIEW COMMENTS ON DATA VALIDATION REPORT POST MONITORING DATA)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: (NICKEL), JON/(ASARCO)
CC: BLUCK * MILLER * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0872 THRU: 581/0872
NOTES: UPDATE 06

FILE: 3030301 DOCNO: 424113 DATE: OCT. 15, 1992 PAGE: 1
ATTACHED TO: 424112
TITLE: (TRANSMITS REVIEW COMMENTS OF DATA VALIDATION REPORT POST RI MONITORING DATA)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: GALA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0873 THRU: 581/0873
NOTES: UPDATE 06

FILE: 3030301 DOCNO: 424114 DATE: OCT. 13, 1992 PAGE: 2
ATTACHED TO: 424112
TITLE: (REVIEW COMMENTS ON DATA VALIDATION REPORT POST RI MONITORING DATA)
AUTHOR: GALA, KISHOR/CH2M HILL
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0874 THRU: 581/0875
NOTES: UPDATE 06

FILE: 3030301 DOCNO: 424115 DATE: NOV. 24, 1992 PAGE: 6
TITLE: (RESPONSE TO KISHOR GALA COMMENTS TO DATA VALIDATION SUMMARY OF ORGANICS DATA, POST RI MONITORING, SPRING 1991 - SPRING 1992)
AUTHOR: DOWNS, KRIS/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * BLUCK * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0876 THRU: 581/0881
KEYWORD(S): GROUNDWATER * ORGANICS
NOTES: UPDATE 06

FILE: 3030301 DOCNO: 424116 DATE: JAN. 20, 1993 PAGE: 1
ATTACHED DOC(S): 424117 THRU: 424120
TITLE: (STATES CH2M HILL HAS ACCEPTED HYDROMETRICS CORRECTIONS AND EXPLANATIONS FOR DATA VALIDATION REPORT FOR ORGANIC COMPOUNDS IN GROUNDWATER)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: (NICKEL) JON/ASARCO * (SPICKELMIER) JAY/ASARCO * (DOWNS) KRIS/HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0882 THRU: 581/0882
NOTES: UPDATE 06

FILE: 3030301 DOCNO: 424117 DATE: JAN. 14, 1993 PAGE: 1
ATTACHED TO: 424116
TITLE: RESPONSE TO CH2M HILL COMMENTS REGARDING POST RI GROUNDWATER MONITORING AT EAST HELENA SMELTER SITE
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0883 THRU: 581/0883
NOTES: UPDATE 06

FILE: 3030301 DOCNO: 424118 DATE: OCT. 19, 1992 PAGE: 1
ATTACHED TO: 424116
TITLE: (TRANSMITS REVIEW COMMENTS ON DATA VALIDATION REPORT POST RI MONITORING DATA)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: (NICKEL), JON/(ASARCO)
CC: BLUCK * MILLER * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0884 THRU: 581/0884
NOTES: UPDATE 06

FILE: 3030301 DOCNO: 424119 DATE: OCT. 15, 1992 PAGE: 1
ATTACHED TO: 424116
TITLE: (TRANSMITS REVIEW COMMENTS OF DATA VALIDATION REPORT POST RI MONITORING DATA)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: GALA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0885 THRU: 581/0885
NOTES: UPDATE 06

FILE: 3030301 DOCNO: 424120 DATE: OCT. 13, 1992 PAGE: 2
ATTACHED TO: 424116
TITLE: (REVIEW COMMENTS ON DATA VALIDATION REPORT POST RI MONITORING DATA)
AUTHOR: GALA, KISHOR/CH2M HILL
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0886 THRU: 581/0887
NOTES: UPDATE 06

FILE: 3030301 DOCNO: 434638 DATE: SEP. 1994 PAGE: 53
TITLE: "VALIDATION SUMMARY OF ORGANICS DATA, POST RI MONITORING FALL 1992 - FALL 1993 ASARCO INCORPORATED EAST HELENA, MONTANA"
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J.A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/1302 THRU: 737/1354
KEYWORD(S): GROUNDWATER
NOTES: UPDATE 09

FILE: 3030301 DOCNO: 450690 DATE: JUL. 1998 PAGE: 24
TITLE: "VALIDATION SUMMARY ASARCO EAST HELENA COMPREHENSIVE POST RI MONITORING FALL 1995 ORGANICS"; (ATTACHED TRANSMITTAL FROM DOWNS AND BRIDGE TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1102/0081 THRU: 1102/0104
NOTES: UPDATE 17

FILE: 3030301 DOCNO: 450691 DATE: JUL. 1998 PAGE: 36
TITLE: "VALIDATION SUMMARY ASARCO EAST HELENA COMPREHENSIVE POST RI MONITORING SPRING 1996 ORGANICS"; (ATTACHED TRANSMITTAL FROM DOWNS AND BRIDGE TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1102/0105 THRU: 1102/0140
NOTES: UPDATE 17

FILE: 3030301 DOCNO: 450692 DATE: JUL. 1998 PAGE: 24
TITLE: "VALIDATION SUMMARY ASARCO EAST HELENA COMPREHENSIVE POST RI MONITORING NOV. 1996 ORGANICS"; (ATTACHED TRANSMITTAL FROM DOWNS AND BRIDGE TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1102/0141 THRU: 1102/0164
NOTES: UPDATE 17

FILE: 3030301 DOCNO: 450693 DATE: JUL. 1998 PAGE: 184
TITLE: "VALIDATION SUMMARY OF INORGANICS DATA ASARCO EAST HELENA SPRING 1997 POST RI MONITORING"; (ATTACHED TRANSMITTAL FROM DOWNS AND BRIDGE TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1102/0165 THRU: 1102/0348
NOTES: UPDATE 17

FILE: 3030301 DOCNO: 465049 DATE: OCT. 1998 PAGE: 44
TITLE: "VALIDATION SUMMARY ASARCO EAST HELENA COMPREHENSIVE POST RI MONITORING SPRING 1997 ORGANICS" (ATTACHED TRANSMITTAL FROM DOWNS TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J.A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1102/0349 THRU: 1102/0392
NOTES: UPDATE 17

FILE: 3030301 DOCNO: 465070 DATE: NOV. 1998 PAGE: 22
TITLE: "VALIDATION SUMMARY ASARCO EAST HELENA COMPREHENSIVE POST RI MONITORING FALL 1997 ORGANICS" (ATTACHED TRANSMITTAL FROM DOWNS TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J.A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1139/0022 THRU: 1139/0043
NOTES: UPDATE 18

FILE: 3030301 DOCNO: 465244 DATE: APR. 2000 PAGE: 24
TITLE: "VALIDATION SUMMARY ASARCO EAST HELENA COMPREHENSIVE POST RI MONITORING FALL 1999 ORGANICS" (ATTACHED MAY 4, 2000 TRANSMITTAL FROM DOWNS TO BROWN AND ZAZZALI)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1259/0021 THRU: 1259/0044
NOTES: UPDATE 21

FILE: 3030400 DOCNO: 0130613 DATE: MAR. 14, 1988 PAGE: 9
TITLE: (TRANSMITS ATTACHED WELL SITE INFORMATION, ANALYTICAL RESULTS AND QA/QC CODE LISTINGS)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 320/0813 THRU: 320/0821
KEYWORD(S): ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 3030400 DOCNO: 0130622 DATE: JUL. 27, 1988 PAGE: 91
TITLE: (EAST HELENA PRIVATE WELL DATA INCLUDING SAMPLE ANALYSES REPORTS, LIST OF DOMESTIC WELLS SAMPLED, LETTERS TO PRIVATE WELL OWNERS AND WELL ANALYSES RESULTS)
AUTHOR: /ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 320/0822 THRU: 320/0912
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * IRON * COPPER * MANGANESE
NOTES: UPDATE 02

FILE: 3030400 DOCNO: 0162078 DATE: MAY 19, 1989 PAGE: 2
TITLE: (TRANSMITS EAST HELENA WATER SAMPLES DEC. 6-29, 1988)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/0913 THRU: 320/0914
NOTES: UPDATE 02

FILE: 3030400 DOCNO: 0191566 DATE: JUL. 12, 1989 PAGE: 2
TITLE: (TRANSMITS RAW DATA PACKAGE PHASE 2 WATER SAMPLING)
AUTHOR: FABBI, M. J./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/0915 THRU: 320/0916
NOTES: UPDATE 02

FILE: 3030400 DOCNO: 450505 DATE: AUG. 14, 1997 PAGE: 19
TITLE: (PLANT SITE GROUNDWATER SUMMARY INCLUDING RI/FS INVESTIGATION RESULTS, REMEDIATION ALTERNATIVES, POST RI/FS INVESTIGATION AND MONITORING RESULTS, AND EPA COMMENTS)
AUTHOR: /(HYDROMETRICS) * /(EPA) * /(ASARCO)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 1020/0022 THRU: 1020/0040
KEYWORD(S): ARSENIC
NOTES: UPDATE 15

FILE: 3040000 DOCNO: 0130713 DATE: MAY 22, 1986 PAGE: 30
TITLE: (TRANSMITS ATTACHED RESPONSES TO COMMENTS ON DRAFT WATER RESOURCES MONITORING REPORT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/0917 THRU: 320/0946
NOTES: UPDATE 02

FILE: 3050000 DOCNO: 434811 DATE: JUN. 30, 1993 PAGE: 2
TITLE: (DISCUSSES REQUIREMENT IN ESD TO INSTALL MONITORING WELLS PRIOR TO REMEDIATION OF LOWER LAKE)
AUTHOR: LEAP, CYNTHIA S./GIBSON, DUNN AND CRUTCHER
ADDRESSEE: BOHAN, SUZANNE J./EPA
CC: BROWN * SPICKELMIER * BRAICO * HART
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1382 THRU: 749/1383
NOTES: UPDATE 10

FILE: 4000000 DOCNO: 0220656 DATE: DEC. 30, 1975 (E) PAGE: 42
TITLE: (WATER QUALITY DATA FOR PRICKLY PEAR CREEK FROM 1970'S-HISTORICAL DATA)
AUTHOR: /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 320/0947 THRU: 320/0988
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 4010000 DOCNO: 450543 DATE: SEP. 29, 1997 PAGE: 7
TITLE: (TRANSMITS ATTACHED STATE COMMENTS ON SEP. 18, 1997 DRAFT EAST HELENA METALS-CONTAMINATED SOILS PROPOSED PLAN)
AUTHOR: SIMONICH, MARK/MDEQ
ADDRESSEE: WARDELL, JOHN/EPA
CC: SENSIBAUGH * HALL * MILLS * ANDERSON * SCOTT * CAPDEVILLE * BOHAN * BROWN * (HILLERY)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1020/0041 THRU: 1020/0047
NOTES: UPDATE 15

FILE: 4030300 DOCNO: 0141901 DATE: AUG. 12, 1988 PAGE: 5
TITLE: (REVIEW OF ESE RISK ASSESSMENT FOR WILSON DITCH [JUN. 1988])
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * HANDWRITTEN * ORIGINAL
DOCUMENT TYPE: NOTES
CROSS FILE(S):4070800
MICROFILM ROLL/FRAME NO.: 320/0989 THRU: 320/0993
NOTES: UPDATE 02

FILE: 4030300 DOCNO: 0141906 DATE: SEP. 10, 1988 PAGE: 2
TITLE: (DISCUSSES ESE AUG. 26, 1988 DOCUMENT)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: NOTES
CROSS FILE(S):4070800
MICROFILM ROLL/FRAME NO.: 320/0994 THRU: 320/0995
NOTES: UPDATE 02

FILE: 4030300 DOCNO: 0141908 DATE: SEP. 1988 PAGE: 16
TITLE: (TRANSMITS ATTACHED COMPARABILITY OF THE 1983 MDHES AND THE 1987 ASARCO SOIL DATA SETS ASARCO EAST HELENA, MONTANA RI/FS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1170705 * 1030100 * 4070200 * 1060200
MICROFILM ROLL/FRAME NO.: 320/0996 THRU: 320/1011
NOTES: UPDATE 02

FILE: 4030300 DOCNO: 0141924 DATE: DEC. 1988 PAGE: 63
TITLE: "DATA VALIDATION AND REDUCTION REPORT ASARCO EAST HELENA PHASE 2 RI GRAINHEAD DATA" (WORK ORDER 5152-01-01-0010)
AUTHOR: /WESTON
ADDRESSEE: /ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070500
MICROFILM ROLL/FRAME NO.: 320/1012 THRU: 320/1074
KEYWORD(S): ARSENIC * CADMIUM * COPPER * MERCURY * LEAD * ZINC
NOTES: UPDATE 02

FILE: 4030300 DOCNO: 0141987 DATE: NOV. 4, 1988 PAGE: 17
TITLE: (TRANSMITS ATTACHED COMPARABILITY OF THE 1983 MDHES/CDC AND THE 1987 ASARCO SOIL DATA SETS ASARCO EAST HELENA, MONTANA RI/FS)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: MILLER * HARVEY * NEUMAN
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 320/1075 THRU: 320/1091
NOTES: UPDATE 02

FILE: 4030300 DOCNO: 0142004 DATE: OCT. 4, 1988 PAGE: 15
TITLE: "COMPARABILITY OF THE 1983 MDHES/CDC AND 1987 ASARCO SOIL DATA SETS ASARCO EAST HELENA, MONTANA RI/FS"
AUTHOR: /WESTON
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 320/1092 THRU: 320/1106
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SELENIUM * MANGANESE * COPPER * ANTIMONY * MERCURY * CHROMIUM
NOTES: UPDATE 02

FILE: 4030300 DOCNO: 0142019 DATE: SEP. 1988 PAGE: 50
TITLE: "PRELIMINARY RISK ASSESSMENT REPORT, WILSON DITCH, EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM NICKEL TO BROWN)
AUTHOR: /ESE
ADDRESSEE: /ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070800
MICROFILM ROLL/FRAME NO.: 320/1107 THRU: 320/1156
KEYWORD(S): SEDIMENTS * ARSENIC * CADMIUM * COPPER * IRON * LEAD * MANGANESE * ZINC
NOTES: UPDATE 02

FILE: 4030300 DOCNO: 0142069 DATE: SEP. 1988 PAGE: 51
TITLE: "DRAFT PRELIMINARY RISK ASSESSMENT REPORT VEGETABLE CONSUMPTION EAST HELENA SUPERFUND SITE" (ATTACHED TRANSMITTAL FROM NICKEL)
AUTHOR: /ESE
ADDRESSEE: /ASARCO
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070400
MICROFILM ROLL/FRAME NO.: 320/1157 THRU: 320/1207
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 4030300 DOCNO: 0142120 DATE: JUN. 1988 PAGE: 55
TITLE: "RISK ASSESSMENT REPORT, WILSON DITCH, EAST HELENA, MONTANA"
AUTHOR: /ESE
ADDRESSEE: /ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070800
MICROFILM ROLL/FRAME NO.: 320/1208 THRU: 320/1262
KEYWORD(S): SEDIMENTS * ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 4030300 DOCNO: 465050 DATE: DEC. 24, 1997 PAGE: 2
TITLE: (REVIEW COMMENTS ON RISK ASSESSMENT ECOLOGICAL ASSESSMENT [CATTLE AND GRAIN STUDIES] AND GARDEN VEGETABLE STUDY)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: HUDSON, BETH/ CH2M HILL
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1102/0393 THRU: 1102/0394
NOTES: UPDATE 17

FILE: 4030400 DOCNO: 0142175 DATE: SEP. 14, 1988 PAGE: 78
TITLE: (TRANSMITS ATTACHED DATA VALIDATION AND REDUCTION REPORT ASARCO EAST HELENA PHASE 2 RI SOILS DATA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS * /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1263 THRU: 320/1340
KEYWORD(S): SOIL * ARSENIC * CADMIUM * CHROMIUM * COPPER * MERCURY * MANGANESE * LEAD * SELENIUM * ANTIMONY * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 4030400 DOCNO: 0142253 DATE: SEP. 12, 1988 PAGE: 49
TITLE: (TRANSMITS ATTACHED NEUMAN AND BUNTE REVIEW OF ASARCO LABORATORY SOIL AND WATER ANALYSIS DATA PACKAGES)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON/ASARCO
CC: FINKE * MORENO * ROGNESS * BUNTE
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1341 THRU: 320/1389
KEYWORD(S): ARSENIC * LEAD * ZINC * CADMIUM
NOTES: UPDATE 02

FILE: 4030400 DOCNO: 0142302 DATE: OCT. 22, 1986 PAGE: 27
TITLE: (TRANSMITS ATTACHED COMMENTS ON FINAL DRAFT RI OF SOILS, VEGETATION AND LIVESTOCK)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: TAYLOR, GENE/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600
MICROFILM ROLL/FRAME NO.: 320/1390 THRU: 320/1416
NOTES: UPDATE 02

FILE: 4030400 DOCNO: 450506 DATE: AUG. 14, 1997 PAGE: 21
TITLE: (PLANT SITE SURFACE WATER SUMMARY FOR PRICKLY PEAR CREEK AND UPPER LAKE, WILSON DITCH, AND STORMWATER RUNOFF INCLUDING RESULTS OF INVESTIGATIONS, REMEDIAL ALTERNATIVES, RI/FS AND POST RI/FS DATA)
AUTHOR: /(HYDROMETRICS) * /(EPA) * /(ASARCO)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 1020/0048 THRU: 1020/0068
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 15

FILE: 4040000 DOCNO: 0142329 DATE: MAY 1987 PAGE: 7
TITLE: "REMEDIAL INVESTIGATION [RI] OF SOIL, VEGETATION AND LIVESTOCK FOR EAST HELENA SITE (ASARCO) EAST HELENA, MONTANA" (EXECUTIVE SUMMARY)
AUTHOR: /CH2M HILL
QUALIFIER(S): INCOMPLETE * **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 320/1417 THRU: 320/1423
NOTES: UPDATE 02

FILE: 4040000 DOCNO: 0220697 DATE: MAR. 13, 1990 PAGE: 35
TITLE: "DRAFT DATA VALIDATION AND REDUCTION REPORT ASARCO EAST HELENA PHASE 2 RI DEEP TILLAGE TREATABILITY STUDY SOILS DATA" (ATTACHED TRANSMITTAL FROM HARVEY)
AUTHOR: /WESTON
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 320/1424 THRU: 320/1458
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SOIL
NOTES: UPDATE 02

FILE: 4070000 DOCNO: 450567 DATE: DEC. 8, 1997 PAGE: 9
TITLE: (SUMMARIES OF LIVESTOCK, VEGETATION AND GARDEN VEGETABLE DATA FROM EPA 1987 EAST HELENA RI AND ASARCO 1990 RI/FS; ATTACHED COPY AND FAX TRANSMITTAL FROM NEUMAN TO BROWN)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1061/0080 THRU: 1061/0088
NOTES: UPDATE 16

FILE: 4070100 DOCNO: 416353 DATE: OCT. 17, 1991 PAGE: 2
TITLE: (TRANSMITTAL LETTER AND TABLE OF CONTENTS FOR RAW ANALYTICAL RESULTS DATA PACKAGE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):3030000/416470
MICROFILM ROLL/FRAME NO.: 436/1408 THRU: 436/1409
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 0142336 DATE: SEP. 1988(E) PAGE: 6
ATTACHED DOC(S): 0142342 THRU: 0142358
TITLE: (LIST AND PHOTOS DEPICTING RESIDENCES AND AREAS IN EAST HELENA AS POSSIBLY SOIL SAMPLE SITES)
QUALIFIER(S): ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: PHOTO/SLIDE
MICROFILM ROLL/FRAME NO.: 320/1459 THRU: 320/1464
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0142342 DATE: SEP. 22, 1988 PAGE: 1
ATTACHED TO: 0142336
TITLE: (RANKING OF SOIL-LEAD CONCENTRATIONS FROM THE 1987 EAST HELENA SOIL SAMPLING SITES)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * HANDWRITTEN * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 320/1465 THRU: 320/1465
KEYWORD(S): SOIL * LEAD
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0142343 DATE: OCT. 3, 1988(E) PAGE: 5
ATTACHED TO: 0142336
TITLE: (NOTES FROM SITE VISIT TO ASARCO AND BUNTE RESIDENTIAL SOILS FIELD TRIP)
AUTHOR: BUNTE, DAVE/CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 320/1466 THRU: 320/1470
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0142348 DATE: 1983 PAGE: 11
ATTACHED TO: 0142336
TITLE: CDC/MDHES LEAD CONCENTRATIONS (SUMMER 1983)
AUTHOR: /EPA
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 320/1471 THRU: 320/1481
KEYWORD(S): LEAD * SOIL * ARSENIC * CADMIUM
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0142359 DATE: JUL. 13, 1987 PAGE: 2
TITLE: QUESTIONS AND POINTS FOR DISCUSSION WITH JIM BAKER CONCERNING SAMPLING
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 320/1482 THRU: 320/1483
KEYWORD(S): SOIL * ARSENIC * LEAD * CADMIUM * COPPER * MERCURY * ZINC
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0142363 DATE: OCT. 11, 1988 PAGE: 3
TITLE: "EAST HELENA RESIDENTIAL SOILS DATA 1983 CDC AND MDHES STUDY" (ATTACHED ROUTING SLIP FROM ROGNESS)
AUTHOR: /CDC * /MDHES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 320/1484 THRU: 320/1486
KEYWORD(S): ARSENIC * CADMIUM * LEAD * COPPER * SOIL
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0162080 DATE: MAR. 20, 1989 PAGE: 3
TITLE: (TRANSMITS ATTACHED MSU COMMENTS ON PROPOSED USE OF 1983 MDHES CDC SOIL DATA)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NEUMAN * DOLLHOPF * LUCERO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 320/1487 THRU: 320/1489
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0162083 DATE: MAY 10, 1989 PAGE: 2
TITLE: (DISCUSSES SOIL REPLACEMENT OF RESIDENTIAL SOILS BY ASARCO)
AUTHOR: MORENO, SANDRA R./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: WARDELL * METCALF * FINKE * BROWN * EGGERT * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1490 THRU: 320/1491
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0162085 DATE: MAY 11, 1989 PAGE: 3
TITLE: (DISCUSSES SOD REPLACEMENT OF RESIDENTIAL SOILS)
AUTHOR: MORISON, FRANK H./HOLLAND AND HART * LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA/EPA
CC: BROWN * EGGERT * KIRLEY * HART * VARNER * DAVIS * ROBBINS * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1492 THRU: 320/1494
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230613 DATE: OCT. 3, 1990(E) PAGE: 22
TITLE: (SUMMARY OF ATTACHED OCT. 1990 EAST HELENA PUBLIC MEETING COMMENTS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: MEETING NOTES
CROSS FILE(S):1100700
MICROFILM ROLL/FRAME NO.: 320/1495 THRU: 320/1516
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230635 DATE: OCT. 22, 1990 PAGE: 1
TITLE: (COMMENTS REGARDING RADLEY SCHOOL MEETING AND SOIL LEAD LEVELS)
AUTHOR: LEE, DAVID W.
ADDRESSEE: BROWN, SCOTT/EPA
CC: BOHAN * HILLERY * MULLEN * WEIS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100700
MICROFILM ROLL/FRAME NO.: 320/1517 THRU: 320/1517
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230641 DATE: NOV. 1990(E) PAGE: 41
TITLE: (RESPONSES TO ASARCO NEWSLETTER FROM EAST HELENA RESIDENTS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100700
MICROFILM ROLL/FRAME NO.: 320/1518 THRU: 320/1558
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230682 DATE: NOV. 2, 1990 PAGE: 4
TITLE: (CERTIFICATE OF SERVICE FOR NOTICE OF EPA AVAILABILITY; ATTACHED MAILING RECEIPT AND LETTER TO EAST HELENA RESIDENTS)
AUTHOR: HILLERY, PAMELA A./EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: FORM
CROSS FILE(S):1100200
MICROFILM ROLL/FRAME NO.: 320/1559 THRU: 320/1562
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230686 DATE: NOV. 8, 1990 PAGE: 2
TITLE: (COMMENTS OPPOSING SOIL/YARD REMOVAL)
AUTHOR: PLETTENBERG, MADGE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100700
MICROFILM ROLL/FRAME NO.: 320/1563 THRU: 320/1564
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230688 DATE: NOV. 19, 1990 PAGE: 3
TITLE: (COMMENTS REGARDING BLOOD-LEAD LEVELS AND OPPOSING SOIL CLEANUP)
AUTHOR: JONES, BONNIE * JONES, PETER
ADDRESSEE: /EPA
CC: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100700
MICROFILM ROLL/FRAME NO.: 320/1565 THRU: 320/1567
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230691 DATE: NOV. 19, 1990 PAGE: 4
TITLE: (TRANSMITS ATTACHED EAST HELENA, MONTANA THE PUBLICS HEALTH IN 1990 A REPORT AND RECOMMENDATIONS FOR ACTION)
AUTHOR: SELSER, WILL I./LCCCHD
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * JOHNSON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1568 THRU: 320/1571
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230695 DATE: NOV. 19, 1990 PAGE: 1
ATTACHED DOC(S): 0230696 THRU: 0230698
TITLE: (TRANSMITS RECOMMENDATIONS CONCERNING SOIL REMOVAL FROM COUNTY HEALTH DEPARTMENT)
AUTHOR: SELSER, WILL I./LCCCHD
ADDRESSEE: BROWN, SCOTT/EPA
CC: MULLEN * JOHNSON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1572 THRU: 320/1572
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230696 DATE: AUG. 1990 PAGE: 3
ATTACHED TO: 0230695
TITLE: "EAST HELENA, MONTANA THE PUBLIC'S HEALTH IN 1990 A REPORT AND RECOMMENDATIONS FOR ACTION"
AUTHOR: SELSER, WILL I./LCCCHD
ADDRESSEE: /LEWIS AND CLARK CITY-COUNTY BOARD OF HEALTH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 320/1573 THRU: 320/1575
KEYWORD(S): DRINKING WATER STANDARDS * ASARCO * LEAD
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230699 DATE: NOV. 26, 1990 PAGE: 4
TITLE: (RESPONSE TO MAYOR STATEMENTS AT NOV. 19, 1990 CITY COUNCIL MEETING)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: STIPICH, EDWARD J./MAYOR CITY OF EAST HELENA
CC: PIZZINI * BOHAN * MULLEN * WEIS * GIEDT * SHANNON * NICKEL * BLUCK * SELSER * BAUCUS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1576 THRU: 320/1579
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230703 DATE: DEC. 10, 1990 PAGE: 1
TITLE: (COMMENTS CONCERNING UNPAVED, DUSTY ROADS CAUSING DUST POLLUTION AND POOR AIR QUALITY)
AUTHOR: HEINITZ, VICTOR W.
ADDRESSEE: /EPA * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1580 THRU: 320/1580
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230704 DATE: DEC. 12, 1990 PAGE: 1
TITLE: (REQUEST TO BE DEMONSTRATION YARD FOR SOIL REMOVAL)
AUTHOR: STANLEY, LARRY * STANLEY, ELINORE
ADDRESSEE: BROWN, SCOTT/EPA * PIZZINI, DONALD/EPA
CC: STIPICH * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100700
MICROFILM ROLL/FRAME NO.: 320/1581 THRU: 320/1581
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230705 DATE: DEC. 27, 1990 PAGE: 8
TITLE: (TRANSMITS ATTACHED INFORMATION TO BE DISTRIBUTED AT LEAD WORKSHOP IN BOULDER, CO. JAN. 8-9, 1991; ATTACHED PUBLIC COMMENT FROM MAYOR STIPICH)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: CHENEY, CRAIG/ICF
CC: WEIS * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1582 THRU: 320/1589
KEYWORD(S): ARSENIC * CADMIUM * LEAD * MERCURY * ZINC
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230713 DATE: FEB. 1, 1991 PAGE: 2
TITLE: (TRANSMITS COMMENTS REGARDING COMPREHENSIVE RI/FS)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: BOHAN, SUZANNE/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: MEMO
CROSS FILE(S):1070402
MICROFILM ROLL/FRAME NO.: 320/1590 THRU: 320/1591
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230715 DATE: FEB. 28, 1991 PAGE: 12
TITLE: (TRANSMITS ATTACHED REVIEW COMMENTS ON RESIDENTIAL SOILS PORTION OF DRAFT RI/FS; PREPS FOR REMOVAL)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * MULLEN * EGGERT * BLUCK * LEAP * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1592 THRU: 320/1603
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 0230837 DATE: MAR. 19, 1991 PAGE: 2
TITLE: (AIR PROGRAMS BRANCH COMMENTS ON DRAFT SOW FROM CH2M HILL AND MSU)
AUTHOR: HUEY, NORM/EPA
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: PAYNE * SKIE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 320/1714 THRU: 320/1715
NOTES: UPDATE 02

FILE: 4070200 DOCNO: 402811 DATE: APR. 10, 1991 PAGE: 1
ATTACHED DOC(S): 402812
TITLE: (REGARDING CULTURAL OR HISTORIC RESOURCES POSSIBLY AFFECTED BY RESIDENTIAL SOILS REMOVAL)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: HUPPE, KATHY/SHPO
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1543 THRU: 415/1543
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402812 DATE: APR. 17, 1991 PAGE: 1
ATTACHED TO: 402811
TITLE: (REGARDING HISTORICAL AND CULTURAL RESOURCE IDENTIFICATION AND EVALUATION PRIOR TO RESIDENTIAL SOILS REMOVAL)
AUTHOR: HUPPE, KATHERINE M./SHPO
ADDRESSEE: BOHAN, SUZANNE J./EPA
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1544 THRU: 415/1544
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402813 DATE: APR. 1991 (E) PAGE: 8
TITLE: "ASARCO EAST HELENA SOIL STUDY DEPTH VS. LEAD AT RADLEY FIELD" (ATTACHED COPIES)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 415/1545 THRU: 415/1552
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402814 DATE: APR. 1991 (E) PAGE: 8
TITLE: (EAST HELENA CITIZENS ADVISORY COUNCIL RECOMMENDATIONS; ATTACHED LIST OF CONCERNS AND DESIRES)
AUTHOR: STIFFLER, JAMES G./EHCAC/C * BENIGER, BETTY/EHCAC/C
ADDRESSEE: BROWN, SCOTT/EPA
CC: PIZZINI * WARDELL * HILLERY * IVERSON * PILCHER * EAST HELENA CITY COUNCIL * CULBERTSON * LCCCHD * JOHNSON * LUCK * ROTHENSTEIN * BLAIR * FOLEY * DAVIS * NICKEL * INDEPENDENT RECORD * ANEZ * KTVH * RAPKOCH * GREAT FALLS TRIBUNE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1553 THRU: 415/1560
KEYWORD(S): GROUNDWATER * DUST * SOIL REMOVAL
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402815 DATE: MAR. 29, 1991 PAGE: 328
TITLE: "REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) FOR RESIDENTIAL SOILS, WILSON DITCH SEDIMENTS AND VEGETATION" (ATTACHED TRANSMITTAL FROM MILLER TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/1561 THRU: 415/1892
KEYWORD(S): ARSENIC * SOIL * SEDIMENTS * CADMIUM * CHROMIUM * COPPER * MERCURY * LEAD * ZINC
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402816 DATE: APR. 8, 1991 PAGE: 1
TITLE: (LA CASA GRANDE SUBDIVISION RESIDENT SOIL SAMPLING COMPARING TOWNSEND SOIL FOR LEAD)
AUTHOR: /MDHES
ADDRESSEE: VOGELE, JOHN J.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/1893 THRU: 415/1893
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402817 DATE: APR. 10, 1991 PAGE: 1
TITLE: (CONCERNING RESIDENTIAL SOILS REMOVAL IN EAST HELENA)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: HUPPE, KATHY/SHPO
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030400
MICROFILM ROLL/FRAME NO.: 415/1894 THRU: 415/1894
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402818 DATE: APR. 30, 1991 PAGE: 6
TITLE: (REGARDING AIR ARARS FOR SOILS REMOVAL ACTION, LEAD SIP PROCESS AND REDUCING FUGITIVE EMISSIONS)
AUTHOR: HUEY, NORM/EPA * MOHR, MINDY/EPA
ADDRESSEE: BOHAN, SUZANNE/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/1895 THRU: 415/1900
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402820 DATE: MAY 7, 1991 PAGE: 13
TITLE: (BULK MAILING TO EAST HELENA RESIDENTS CONCERNING UPCOMING PUBLIC MEETING AND RECOMMENDATIONS OF CITIZENS ADVISORY COMMITTEE; ATTACHED CERTIFICATE OF SERVICE, STATEMENT OF MAILING AND SAMPLE ENVELOPE)
AUTHOR: HILLERY, PAMELA A./EPA
ADDRESSEE: /EAST HELENA RESIDENTS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: FORM
CROSS FILE(S):1100000
MICROFILM ROLL/FRAME NO.: 415/1943 THRU: 415/1955
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402821 DATE: MAY 7, 1991 PAGE: 2
ATTACHED DOC(S): 402822
TITLE: (PUBLIC ANNOUNCEMENT REGARDING NEED FOR RESIDENTS TO BECOME INVOLVED IN RESIDENTIAL SOILS LEAD CLEANUP BY JOINING CITIZENS ADVISORY COMMITTEE)
AUTHOR: /EPA
ADDRESSEE: EAST HELENA RESIDENTS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100000
MICROFILM ROLL/FRAME NO.: 415/1956 THRU: 415/1957
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402822 DATE: 1991(E) PAGE: 8
ATTACHED TO: 402821
TITLE: (TRANSMITS ATTACHED LIST OF CONCERNS AND DESIRES THAT NEED TO BE ADDRESSED IN ASARCO WORK PLAN FOR SOIL CLEANUP OF RESIDENTIAL SOILS)
AUTHOR: STIFFLER, JIM/EHCAC/C * BENIGER, BETTY/EHCAC/C
ADDRESSEE: BROWN, SCOTT/EPA
CC: PIZZINI * WARDELL * HILLERY * IVERSON * PILCHER * EAST HELENA CITY COUNCIL * CULBERTSON * LCCCHD * JOHNSON * LUCK * ROTHENSTEIN * BLAIR * FOLEY * DAVIS * NICKEL * INDEPENDENT RECORD * ANEZ * KTVH * RAPKOCH * GREAT FALLS TRIBUNE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100000
MICROFILM ROLL/FRAME NO.: 415/1958 THRU: 415/1965
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402823 DATE: MAY 8, 1991 PAGE: 2
TITLE: (COMMENTS REGARDING CONCERNS AND RECOMMENDATIONS MADE BY CITIZEN ADVISORY COMMITTEE)
AUTHOR: RICKER, PAM
ADDRESSEE: STIFFLER, JIM/EHCAC/C * BENIGER, BETTY/EHCAC/C
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/1966 THRU: 415/1967
KEYWORD(S): LEAD * VEGETATION * AIR * DUST * ASARCO
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402824 DATE: MAY 9, 1991 PAGE: 7
TITLE: (TRANSMITS ATTACHED ANALYTICAL DATA OF SOIL REFERENCE MATERIAL FOR RESIDENTIAL SOILS REMOVAL PROGRAM)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
CC: BROWN * GLANZMAN * GALA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/1968 THRU: 415/1974
KEYWORD(S): CADMIUM * IRON * MANGANESE * ARSENIC * CHROMIUM * COPPER * LEAD * ZINC * SELENIUM * MERCURY * THALLIUM
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402825 DATE: MAY 9, 1991 PAGE: 6
ATTACHED DOC(S): 402826 THRU: 402827
TITLE: SPECIAL NOTICE OF LIABILITY AND TRANSMITTAL OF PROPOSED AOC PURSUANT TO CERCLA SECTIONS 106 AND 107
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: BOHAN * BROWN * LEAP * PIZZINI * BLUCK * SELSER * HILLERY * MULLEN * CHIOTTI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
CROSS FILE(S):1040400
MICROFILM ROLL/FRAME NO.: 415/1975 THRU: 415/1980
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402826 DATE: MAY 9, 1991 PAGE: 29
ATTACHED TO: 402825
TITLE: "UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) REGION 8 IN THE MATTER OF: EAST HELENA SITE SITE NO. 8T30 ASARCO, INC. RESPONDENT PROCEEDING UNDER SECTION 106(A) OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA), AS AMENDED (42 U.S.C. SS 9606 (A). (PROPOSED) ADMINISTRATIVE ORDER ON CONSENT (AOC) FOR REMOVAL ACTION"
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
CROSS FILE(S):1040400
MICROFILM ROLL/FRAME NO.: 415/1981 THRU: 415/2009
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402828 DATE: MAY 9, 1991 PAGE: 3
TITLE: "INTERLABORATORY COMPARISON STUDY OF CHEMICAL ANALYSIS OF LEAD IN URBAN SOILS: XRF (W-RAY FLUORESCENCE) VS. WET DIGESTION"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 415/2123 THRU: 415/2125
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402829 DATE: MAY 10, 1991 PAGE: 1
TITLE: (TRANSMITS DRAFT AOC FOR REMOVAL ACTION (SPECIAL NOTICE COPY) AND COVER LETTER TO NICKEL)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/2126 THRU: 415/2126
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402830 DATE: MAY 14, 1991 PAGE: 1
TITLE: (ASARCO RESPONSE TO SPECIAL NOTICE AND DRAFT CONSENT ORDER FOR RESIDENTIAL SOILS REMOVAL ACTION; INTENT TO PARTICIPATE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BOHAN * DAVIS * HART * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/2127 THRU: 415/2127
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402831 DATE: MAY 15, 1991 PAGE: 3
TITLE: (RESPONSE TO LETTER AND RECOMMENDATIONS CONCERNING RESIDENTIAL SOILS REMOVAL)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: STIFFLER, JAMES/EHCAC/C * BENIGER, BETTY/EHCAC/C
CC: PIZZINI * BOHAN * WEIS * HILLERY * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/2128 THRU: 415/2130
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402832 DATE: MAY 20, 1991 PAGE: 1
TITLE: PUBLIC NOTICE OF AVAILABILITY OF ENGINEERING STUDY (EE/CA) AND ADMINISTRATIVE RECORD FOR RESIDENTIAL SOILS REMOVAL ACTION
AUTHOR: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 415/2131 THRU: 415/2131
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402833 DATE: JUN. 20, 1991 PAGE: 4
TITLE: (TRANSMITS ATTACHED COMMENTS CONCERNING EE/CA EQUIVALENT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/2132 THRU: 415/2135
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402834 DATE: JUN. 24, 1991 PAGE: 1
ATTACHED DOC(S): 402835
TITLE: (TRANSMITS LEAD ANALYSES FROM RADLEY SCHOOL SOIL SAMPLES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/2136 THRU: 415/2136
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402835 DATE: JUN. 18, 1991 PAGE: 11
ATTACHED TO: 402834
TITLE: (TRANSMITS ATTACHED LEAD ANALYSES SOIL SAMPLES FROM RADLEY SCHOOL; ATTACHED CHAIN OF CUSTODY)
AUTHOR: FABBI, MICHAEL J./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: DAVIS * NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/2137 THRU: 415/2147
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402836 DATE: JUL. 15, 1991 PAGE: 4
TITLE: (RADLEY SCHOOL ANALYTICAL DATA FOR SOILS COMPARED TO EAST FIELDS; ATTACHED JUN. 20, 1991 TRANSMITTAL FROM DON TO SCOTT)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 415/2148 THRU: 415/2151
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402837 DATE: JUL. 15, 1990 PAGE: 1
TITLE: (TRANSMITS SAMPLE AND ANALYSIS PLAN FOR RESIDENTIAL SOILS REMOVAL)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BOHAN * MULLEN * NICKEL * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/2152 THRU: 415/2152
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402838 DATE: JUL. 16, 1991 PAGE: 1
TITLE: (TRANSMITS AOC FOR REMOVAL ACTION; EPA FINAL OFFER ON RESIDENTIAL SOILS REMOVAL ORDER)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/2153 THRU: 415/2153
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402839 DATE: JUL. 17, 1991 PAGE: 2
TITLE: (STATE PROJECT OFFICER COMMENTS ON REMOVAL WORK PLAN FOR EXCAVATION AND REMOVAL OF RESIDENTIAL SOILS)
AUTHOR: MULLEN, GREGORY/MDHES
ADDRESSEE: BROWN, SCOTT/(EPA)
CC: ZACKHEIM * ANDERSEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 415/2154 THRU: 415/2155
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402840 DATE: JUL. 17, 1991 PAGE: 2
ATTACHED DOC(S): 402841 THRU: 402842
TITLE: (TRANSMITS AOC FOR RESIDENTIAL SOILS REMOVAL ACTION)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: BOHAN, SUZANNE J./EPA
CC: KINSOLVING * HART * DAVIS * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/2156 THRU: 415/2157
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402841 DATE: MAY 30, 1991 PAGE: 1
ATTACHED TO: 402840
TITLE: (TRANSMITS DRAFT ADMINISTRATIVE ORDER FOR RESIDENTIAL SOILS REMOVAL ACTION INCORPORATING ASARCO INITIAL COMMENTS)
AUTHOR: LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: BOHAN, SUZANNE J./EPA
CC: HART * DAVIS * NICKEL * ALTHOFF
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 415/2158 THRU: 415/2158
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402842 DATE: MAY 30, 1991 PAGE: 32
ATTACHED TO: 402840
TITLE: DRAFT "UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) REGION 8 IN THE MATTER OF: EAST HELENA SITE, SITE NO. 8T30 ASARCO INCORPORATED, RESPONDENT. PROCEEDING UNDER SECTION 106(A) OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA), AS AMENDED 42 U.S.C. SS9606(A) ADMINISTRATIVE ORDER ON (AOC) CONSENT FOR REMOVAL RESPONSE ACTION EPA DOCKET NO."
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: KINSOLVING, AUGUSTUS B./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 415/2159 THRU: 415/2190
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402846 DATE: JUL. 22, 1991 PAGE: 1
ATTACHED TO: 402845
TITLE: (TRANSMITS SIGNED AOC FOR RESIDENTIAL SOILS REMOVAL ACTION)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: LEAP, CYNTHIA S./HOLLAND AND HART
CC: BROWN * STURN * GUNDERSON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 416/0047 THRU: 416/0047
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402847 DATE: JUL. 1991 (E) PAGE: 68
ATTACHED TO: 402845
TITLE: "UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) REGION 8 IN THE MATTER OF: EAST HELENA SITE SITE NO. 8T30 ASARCO INCORPORATED, RESPONDENT, PROCEEDING UNDER SECTION 106(A) OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA), AS AMENDED 42 U.S.C. SS9606(A). EPA DOCKET NO. CERCLA-VIII-91-17 ADMINISTRATIVE ORDER ON CONSENT (AOC) FOR REMOVAL ACTION" (SIGNED)
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: KINSOLVING, AUGUSTUS B./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 416/0048 THRU: 416/0115
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * GROUNDWATER * VEGETATION * AIR * DUST * SURFACE WATER STANDARDS
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402848 DATE: JUL. 16, 1991 PAGE: 109
ATTACHED TO: 402845
TITLE: "WORK PLAN FOR EXCAVATION AND REMOVAL OF RESIDENTIAL SOILS EAST HELENA, MONTANA"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 416/0116 THRU: 416/0229
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MANGANESE * MERCURY * SELENIUM * SILVER * THALLIUM * ZINC * TIN * GROUNDWATER * VEGETATION * AIR * DUST * SOIL REMOVAL * SURFACE WATER STANDARDS
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402850 DATE: JUL. 1991 PAGE: 60
ATTACHED TO: 402845
TITLE: "APPENDIX 2: SITE SAFETY PLAN WORK PLAN FOR EXCAVATION AND REMOVAL OF RESIDENTIAL SOILS EAST HELENA, MONTANA"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0465 THRU: 416/0525
KEYWORD(S): ARSENIC * LEAD * AIR * DUST * AIR POLLUTION STANDARDS
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402851 DATE: JUL. 24, 1991 PAGE: 2
TITLE: (APPROVES WORK PLAN, SAP AND HEALTH AND SAFETY PLAN; COMMENTS REGARDING PROTECTION OF HISTORIC AND CULTURAL RESOURCES DURING REMOVAL)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * MULLEN * HUPPE * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
CROSS FILE(S):1030400
MICROFILM ROLL/FRAME NO.: 416/0526 THRU: 416/0527
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402852 DATE: AUG. 1, 1991 PAGE: 9
ATTACHED DOC(S): 402853 THRU: 402867
TITLE: (TRANSMITS ATTACHED DAILY AND FIRST WEEKLY CONSTRUCTION REPORTS FOR JUL. 22-27 RESIDENTIAL SOIL REMOVAL; ATTACHED ACCESS AGREEMENT LIST)
AUTHOR: WING, THOMAS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 416/0528 THRU: 416/0536
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402853 DATE: JUL. 24, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: FUHRMAN, TONY * FUHRMAN, DEBBIE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0537 THRU: 416/0538
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402854 DATE: JUL. 24, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: JOHNSON, KIT D. * JOHNSON, VIOLA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0539 THRU: 416/0540
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402855 DATE: JUL. 23, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL; ATTACHED COPY)
AUTHOR: /ASARCO
ADDRESSEE: SUPER, JEFF
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * CBI
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0541 THRU: 416/0542
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402856 DATE: JUL. 23, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: MCDUFFIE, RUSSELL B.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0543 THRU: 416/0544
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402857 DATE: JUL. 23, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: KINNAMAN, OLGA T.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0545 THRU: 416/0546
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402858 DATE: JUL. 23, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL AT GINGERBREAD HOUSE DAYCARE CENTER)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: KINNAMAN, OLGA T.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0547 THRU: 416/0548
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402859 DATE: JUL. 23, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: MURGEL, RANDY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0549 THRU: 416/0550
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402860 DATE: JUL. 23, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BOZDECH, VLASTA V. * LITTELL, ELIZABETH F.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0551 THRU: 416/0552
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402861 DATE: JUL. 23, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BUCHMAN, JULIE E. * BUCHMAN, JEFFREY L.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0553 THRU: 416/0554
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402862 DATE: JUL. 23, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: GORDON, PHIL * GORDON, CONNIE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0555 THRU: 416/0556
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402863 DATE: JUL. 23, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL)
AUTHOR: NICKEL, JON C./ASARCO * FETHERSTON, TOM * FETHERSTON, KAROL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0557 THRU: 416/0558
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402864 DATE: JUL. 23, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: CASEY, WILLIAM E. * CASEY, DEBORAH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0559 THRU: 416/0560
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402865 DATE: JUL. 23, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROADWATER, KENDALL * BROADWATER, SUSAN M.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0561 THRU: 416/0562
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402866 DATE: JUL. 23, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL; ATTACHED COPY)
AUTHOR: /ASARCO
ADDRESSEE: BURNSIDE, JOHN G.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0563 THRU: 416/0564
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402867 DATE: JUL. 19, 1991 PAGE: 2
ATTACHED TO: 402852
TITLE: (ACCESS AGREEMENT FOR RESIDENTIAL SOIL REMOVAL FOR EAST HELENA SCHOOL DISTRICT 9)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: SCHOOL DISTRICT 9
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 416/0565 THRU: 416/0566
NOTES: UPDATE 03

FILE: 4070200 DOCNO: 402999 DATE: JAN. 21, 1992 PAGE: 1
TITLE: (REQUEST FROM CITIZENS GROUP FOR INFORMATION CONCERNING COSTS; THIS CROSS FILED DOCUMENT IS LOCATED IN 1100000/402962)
AUTHOR: BENIGER, BETTY/EHCAC/C
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: STIPICH * NICKEL * (HILLERY) * WING * QUINONES * /EAST HELENA CITY COUNCIL * /CITIZENS ADVISORY COUNCIL COMMITTEE MEMBERS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1410 THRU: 436/1410
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416354 DATE: SEP. 11, 1991 PAGE: 1
TITLE: ANALYTICAL RESULTS FOR TOTAL METALS EAST HELENA RADLEY SCHOOL
AUTHOR: HALM, JUDY/MDHES
ADDRESSEE: MULLEN, GREG/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 436/1411 THRU: 436/1411
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416355 DATE: 1991 PAGE: 5
TITLE: (RESPONSIVENESS SUMMARY FOR ATTACHED JUN. 20, 1991 COMMENTS FROM ASARCO ON EE/CA EQUIVALENT; PREVIOUS DOCUMENT NO. 0250567-0250570)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: /ADMINISTRATIVE RECORD FILE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 436/1412 THRU: 436/1416
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416356 DATE: MAY 1991 PAGE: 42
TITLE: "ENGINEERING EVALUATION AND COST ANALYSIS EQUIVALENT (EE/CA EQUIVALENT) FOR THE EAST HELENA SMELTER SITE RESIDENTIAL SOILS REMOVAL ACTION"
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/1417 THRU: 436/1458
KEYWORD(S): SILVER * ARSENIC * CADMIUM * COPPER * MERCURY * MANGANESE * LEAD * SELENIUM * ZINC * GROUNDWATER * VEGETATION * AIR * DUST
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416357 DATE: JUN. 24, 1991 PAGE: 1
ATTACHED DOC(S): 416358 THRU: 416359
TITLE: (STATEMENT OF QUALIFICATION FOR REMOVAL ACTION CONTRACTOR)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1459 THRU: 436/1461
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416358 DATE: JUN. 24, 1991 (E) PAGE: 38
ATTACHED TO: 416357
TITLE: "QUALITY ASSURANCE PROGRAM"
AUTHOR: /ENERGY LABORATORIES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/1462 THRU: 436/1499
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416359 DATE: JUN. 24, 1991 (E) PAGE: 23
ATTACHED TO: 416357
TITLE: "QUALIFICATIONS MANUAL"
AUTHOR: /ENERGY LABORATORIES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 436/1500 THRU: 436/1522
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416361 DATE: JUL. 19, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR SCHOOL DISTRICT 9)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: /SCHOOL DISTRICT 9
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1559 THRU: 436/1560
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416362 DATE: JUL. 23, 1991(E) PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR SUPER)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: SUPER, JEFF
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1561 THRU: 436/1562
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416363 DATE: JUL. 23, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR VLASTA V. BOZDECH)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BOZDECH, VLASTA V.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1563 THRU: 436/1564
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416364 DATE: JUL. 23, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR BUCHMANS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BUCHMAN, JEFFREY L. * BUCHMAN, JULIE E.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1565 THRU: 436/1566
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416365 DATE: JUL. 23, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR GORDONS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: GORDON, PHILIP * GORDON, CONNIE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1567 THRU: 436/1568
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416366 DATE: JUL. 23, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR FETHERSTONS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: FETHERSTON, TOM * FETHERSTON, KAROL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1569 THRU: 436/1570
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416367 DATE: JUL. 23, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR CASEYS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: CASEY, WILLIAM * CASEY, DEBORAH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1571 THRU: 436/1572
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416368 DATE: JUL. 23, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR BROADWATERS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROADWATER, KENDALL * BROADWATER, SUSAN M.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1573 THRU: 436/1574
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416369 DATE: JUL. 23, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR MCDUFFIE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: MCDUFFIE, RUSSELL B.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1575 THRU: 436/1576
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416370 DATE: JUL. 23, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR KINNAMAN)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: KINNAMAN, OLGA T.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1577 THRU: 436/1578
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416371 DATE: JUL. 23, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR GINGERBREAD HOUSE DAYCARE CENTER)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: KINNAMAN, OLGA T./GINGERBREAD HOUSE DAYCARE CENTER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1579 THRU: 436/1580
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416372 DATE: JUL. 23, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR MURGEL)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: MURGEL, RANDY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1581 THRU: 436/1582
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416373 DATE: JUL. 23, 1991 PAGE: 1
ATTACHED DOC(S): 416374 THRU: 416375
TITLE: (CONCERNS REMOVAL OF TOPSOIL AT CHURCH PROPERTY)
AUTHOR: MORGAN, OYER C./UNITED METHODIST CHURCH
ADDRESSEE: NICKEL, JON C./ASARCO
CC: WING
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1583 THRU: 436/1583
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416374 DATE: JUL. 12, 1991 PAGE: 1
ATTACHED TO: 416373
TITLE: (CONCERNS WHERE CHURCH PROPERTY FITS IN REMOVAL PROGRAM ACTIVITIES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: MORGAN, OYER C.
CC: JED * DAR * WOH * CSL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1584 THRU: 436/1584
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416375 DATE: JUN. 27, 1991 PAGE: 1
ATTACHED TO: 416373
TITLE: (REQUESTS NICKEL VISIT AND DECIDE WHERE CHURCH PROPERTY FITS INTO REMOVAL PROGRAM ACTIVITIES)
AUTHOR: MORGAN, OYER C./UNITED METHODIST CHURCH
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 436/1585 THRU: 436/1585
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416376 DATE: JUL. 24, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR FUHRMANS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: FUHRMAN, DEBBIE * FUHRMAN, TONY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1586 THRU: 436/1587
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416377 DATE: JUL. 24, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR JOHNSONS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: JOHNSON, KIT * JOHNSON, VIOLA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1588 THRU: 436/1589
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416378 DATE: AUG. 1991(E) PAGE: 1
TITLE: (SIGNED ACCESS AGREEMENT FOR 110 EAST PACIFIC)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BURNSIDE, JOHN G.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1590 THRU: 436/1590
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416379 DATE: AUG. 2, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR GRABERS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: GRABER, DONALD * GRABER, MARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1591 THRU: 436/1592
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416380 DATE: AUG. 2, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR PYFER)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: PYFER, MARY S.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1593 THRU: 436/1594
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416381 DATE: AUG. 4, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT FOR GLUECKERT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: GLUECKERT, BERT J. * GLUECKERT, PATTI J.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 436/1595 THRU: 436/1596
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416382 DATE: AUG. 5, 1991 PAGE: 83
TITLE: (TRANSMITS ATTACHED DOCUMENTS DEMONSTRATING FINANCIAL ASSURANCE FOR PERFORMANCE OF WORK REQUIRED BY AOC INCLUDING ASARCO 1990 ANNUAL REPORT; ATTACHED NOTE FROM BOHAN TO BROWN)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0013 THRU: 437/0095
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416383 DATE: AUG. 5, 1991 PAGE: 1
TITLE: (TRANSMITS STANDARD REFERENCE SOILS FOR XRF)
AUTHOR: NEUMAN, DENNIS R./MSU
ADDRESSEE: MILLER, ROBERT/HYDROMETRICS
CC: BLUCK * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0096 THRU: 437/0096
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416384 DATE: AUG. 5, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT)
AUTHOR: LITLE, R./ASARCO
ADDRESSEE: KOTNICK, STAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 437/0097 THRU: 437/0098
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416385 DATE: AUG. 5, 1991 PAGE: 2
TITLE: (COMMENTS AND SUGGESTIONS FOR CONTENTS OF WEEKLY REPORTS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: WING, THOMAS J./HYDROMETRICS
CC: PIZZINI * BOHAN * MULLEN * MITCHELL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0099 THRU: 437/0100
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416386 DATE: AUG. 5, 1991 PAGE: 4
TITLE: (TRANSMITS ATTACHED DOCUMENTATION OF INSURANCE COVERAGE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0101 THRU: 437/0104
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416387 DATE: AUG. 6, 1991 PAGE: 2
TITLE: (CONCERNS EAST HELENA DUST ABATEMENT PRACTICES)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: STIPICH, EDWARD J./(MAYOR) CITY OF EAST HELENA
CC: PIZZINI * BOHAN * HILLERY * MOHR * WEIS * MULLEN * SELSER * NICKEL * BENIGER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0105 THRU: 437/0106
KEYWORD(S): LEAD * AIR * DUST * SOIL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416388 DATE: AUG. 6, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT)
AUTHOR: LITLE, R./ASARCO
ADDRESSEE: COSTA, HILDA PATRICIA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 437/0107 THRU: 437/0108
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416389 DATE: AUG. 8, 1991 PAGE: 9
TITLE: (TRANSMITS ATTACHED ASARCO WEEKLY REPORT CONCERNING RESIDENTIAL SOILS REMOVAL FOR JUL. 29 - AUG. 3, 1991)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * MULLEN * BOHAN * /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0109 THRU: 437/0117
KEYWORD(S): LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416390 DATE: AUG. 8, 1991 PAGE: 1
TITLE: (ACKNOWLEDGES ASARCO SELECTION OF CONTRACTORS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0118 THRU: 437/0118
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416391 DATE: AUG. 8, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: AABY, LARRY * AABY, DARYL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 437/0119 THRU: 437/0120
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416392 DATE: AUG. 12, 1991 PAGE: 8
TITLE: (MONTHLY PROGRESS REPORT 1 [JUL. 1991] FOR SOIL REMOVAL ACTION)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0121 THRU: 437/0128
KEYWORD(S): LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416393 DATE: AUG. 13, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: CHRISKE, HEINZ * CHRISKE, GENEVIVE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 437/0129 THRU: 437/0130
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416394 DATE: AUG. 15, 1991 PAGE: 13
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR AUG. 5-10, 1991)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * MULLEN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0131 THRU: 437/0143
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416395 DATE: AUG. 15, 1991 PAGE: 10
TITLE: (TRANSMITS ATTACHED PARTIAL WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR AUG. 5-10, 1991)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * MULLEN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0144 THRU: 437/0153
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416396 DATE: AUG. 22, 1991 PAGE: 39
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR AUG. 12-17, 1991)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * MULLEN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0154 THRU: 437/0192
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416397 DATE: AUG. 23, 1991 PAGE: 3
TITLE: (SIGNED ACCESS AGREEMENT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BARTSCH, RONALD D.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 437/0193 THRU: 437/0195
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416398 DATE: AUG. 28, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: MILLER, WAYNE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 437/0196 THRU: 437/0197
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416399 DATE: AUG. 29, 1991 PAGE: 56
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR AUG. 19-24, 1991)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * MULLEN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0198 THRU: 437/0253
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416400 DATE: AUG. 29, 1991 PAGE: 4
TITLE: (UPDATE OF OSWER DIRECTIVE 9355.4-02 CONCERNING SOIL LEAD CLEANUP LEVELS WITH EMPHASIS ON IU/BK MODEL)
AUTHOR: CLAY, DON R./EPA
ADDRESSEE: DIRECTORS/WASTE MANAGEMENT DIVISION, REGION 1, 4, 5, 7, 8 * DIRECTOR/EMERGENCY AND REMEDIAL RESPONSE DIVISION, REGION 2 * DIRECTORS, HAZARDOUS WASTE MANAGEMENT DIVISION, REGION 3, 6, 9 * DIRECTOR, HAZARDOUS WASTE DIVISION, REGION 10 * SUPERFUND BRANCH CHIEFS, REGION 1-10 * REGIONAL COUNSELS, REGION 1-10
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/0254 THRU: 437/0257
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416401 DATE: AUG. 29, 1991 PAGE: 2
TITLE: (SIGNED ACCESS AGREEMENT)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: SCHILLER, GEORGE * SCHILLER, DONNA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 437/0258 THRU: 437/0259
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416402 DATE: SEP. 6, 1991 PAGE: 75
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR AUG. 26-31, 1991)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * MULLEN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0260 THRU: 437/0349
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416403 DATE: SEP. 9, 1991 PAGE: 45
TITLE: (PROGRESS REPORT 2 [AUG. 1991] FOR EAST HELENA SOIL REMOVAL ACTION)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0350 THRU: 437/0394
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416404 DATE: SEP. 11, 1991 PAGE: 57
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR SEP. 3-7, 1991 EAST HELENA SOIL REMOVAL ACTION)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * MULLEN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0395 THRU: 437/0454
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416405 DATE: SEP. 19, 1991 PAGE: 34
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND CONSTRUCTION REPORT FOR SEP. 9-14, 1991)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * MULLEN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0455 THRU: 437/0491
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416406 DATE: SEP. 24, 1991 PAGE: 1
ATTACHED DOC(S): 416407 THRU: 416408
TITLE: (TRANSMITS MEMO CONCERNING BACKFILL SOILS)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: NICKEL, JON/(ASARCO)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0492 THRU: 437/0492
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416407 DATE: SEP. 18, 1991 PAGE: 2
ATTACHED TO: 416406
TITLE: (CONCERNS QUALITY OF BACKFILL SOIL)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: DOLLHOPF
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/0493 THRU: 437/0494
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416408 DATE: SEP. 13, 1991 PAGE: 1
ATTACHED TO: 416406
TITLE: SOIL BACKFILL QUALITY REPORT FOR EAST HELENA RESIDENTIAL SOILS REMOVAL PROGRAM
AUTHOR: DOLLHOPF, DOUG/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/0495 THRU: 437/0495
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416409 DATE: SEP. 26, 1991 PAGE: 71
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR SEP. 16-21, 1991)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * MULLEN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0496 THRU: 437/0569
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416410 DATE: SEP. 26, 1991 PAGE: 54
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR SEP. 23-28, 1991)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * MULLEN * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0570 THRU: 437/0627
KEYWORD(S): LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416411 DATE: SEP. 26, 1991 PAGE: 24
TITLE: (TRANSMITS ATTACHED WEEKLY REPORT FOR RESIDENTIAL REMOVAL ACTION, SEP. 29 - OCT. 5, 1991)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0628 THRU: 437/0651
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416412 DATE: OCT. 3, 1991 PAGE: 8
TITLE: (STATISTICS OF WET CHEMISTRY AND XRF FROM INITIAL SAMPLING AT EAST HELENA)
CC: SUZANNE * CHRIS * KAREN * MIKE * JIM * MIKE * RUSS * DON * CHARLIE * SELSER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 437/0652 THRU: 437/0659
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416413 DATE: OCT. 7, 1991 PAGE: 1
ATTACHED DOC(S): 416414
TITLE: (COMMENTS ON BACKFILL SOIL QUALITY)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/0660 THRU: 437/0660
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416414 DATE: SEP. 26, 1991 PAGE: 4
ATTACHED TO: 416413
TITLE: (RESPONSE TO BILL BLUCK MEMO OF SEP. 18, 1991 CONCERNING BACKFILL SOIL QUALITY)
AUTHOR: LUTCHER, LARRY/HYDROMETRICS * HUFFSMITH, RANDY/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/0661 THRU: 437/0664
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416415 DATE: OCT. 15, 1991 PAGE: 30
TITLE: (RESULTS OF INITIAL SAMPLING; RESIDENTIAL SOILS REMOVAL ACTION - 60 SAMPLE PITS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * GLANZMAN * NEUMAN * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0665 THRU: 437/0695
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416416 DATE: OCT. 17, 1991 PAGE: 2
TITLE: (COVER LETTER AND TABLE OF CONTENTS FOR RAW ANALYTICAL RESULTS DATA PACKAGE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0696 THRU: 437/0697
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416417 DATE: OCT. 17, 1991 PAGE: 59
TITLE: (TRANSMITS ATTACHED ASARCO WEEKLY REPORT CONCERNING RESIDENTIAL SOILS REMOVAL ACTION FOR OCT. 7-12, 1991)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0698 THRU: 437/0758
KEYWORD(S): LEAD * ARSENIC * CADMIUM
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416418 DATE: OCT. 25, 1991 PAGE: 11
TITLE: (TRANSMITS ATTACHED ASARCO WEEKLY REPORT CONCERNING RESIDENTIAL SOILS REMOVAL ACTION FOR OCT. 14-19, 1991)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * VARNER * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0759 THRU: 437/0772
KEYWORD(S): LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416419 DATE: NOV. 7, 1991 PAGE: 52
TITLE: (MONTHLY PROGRESS REPORT 4 [OCT. 1991] FOR SOIL REMOVAL ACTION; ATTACHED ROUTING SLIP)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0773 THRU: 437/0824
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416420 DATE: NOV. 19, 1991 PAGE: 93
TITLE: (TRANSMITS ATTACHED FINAL CONSTRUCTION REPORT FOR 1991 FIELD SEASON EAST HELENA RESIDENTIAL SOILS REMOVAL ACTION; ATTACHED ROUTING SLIP)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * VARNER * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0825 THRU: 437/0917
KEYWORD(S): ARSENIC * CADMIUM * LEAD * DUST * SOIL REMOVAL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416421 DATE: NOV. 22, 1991 PAGE: 4
ATTACHED DOC(S): 416422 THRU: 416423
TITLE: (XRF DATA REVIEW SUMMARY)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: GLANZMAN * NEUMAN * DOLLHOPF
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/0918 THRU: 437/0921
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416422 DATE: OCT. 25, 1991 PAGE: 4
ATTACHED TO: 416421
TITLE: (XRF CALIBRATION DATA)
AUTHOR: DOLLHOPF, DOUG/MSU * NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/0922 THRU: 437/0925
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416423 DATE: NOV. 6, 1991 PAGE: 4
ATTACHED TO: 416421
TITLE: (ARSENIC AND CADMIUM XRF DATA REVIEW TECHNICAL COMMENTS)
AUTHOR: GLANZMAN, DICK/CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/0926 THRU: 437/0929
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416424 DATE: NOV. 26, 1991 PAGE: 1
TITLE: (TECHNICAL ADVICE CONCERNING SUBSOIL/BACKFILL SOIL BELOW 6 TO 8 INCHES)
AUTHOR: BLUCK, (BILL)/CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 437/0930 THRU: 437/0930
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416425 DATE: NOV. 27, 1991 PAGE: 2
ATTACHED DOC(S): 416426 THRU: 416428
TITLE: (TRANSMITS REVIEW COMMENTS CONCERNING XRF CALIBRATION)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * BLUCK * /STATE PROJECT OFFICER FOR EAST HELENA * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0931 THRU: 437/0932
KEYWORD(S): REMOVAL ACTION PLANS * XRF DATA REVIEW
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416426 DATE: NOV. 22, 1991 PAGE: 4
ATTACHED TO: 416425
TITLE: (XRF DATA REVIEW SUMMARY)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: GLANZMAN * NEUMAN * DOLLHOPF
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/0933 THRU: 437/0936
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416427 DATE: OCT. 25, 1991 PAGE: 4
ATTACHED TO: 416425
TITLE: (XRF CALIBRATION DATA)
AUTHOR: DOLLHOPF, DOUG/MSU * NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/0937 THRU: 437/0940
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416428 DATE: NOV. 6, 1991 PAGE: 4
ATTACHED TO: 416425
TITLE: (ARSENIC AND CADMIUM XRF DATA REVIEW TECHNICAL COMMENTS)
AUTHOR: GLANZMAN, DICK/CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/0941 THRU: 437/0944
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416429 DATE: DEC. 9, 1991 PAGE: 19
TITLE: (MONTHLY PROGRESS REPORT 5 [NOV. 1991] FOR SOIL REMOVAL ACTION AND AIR QUALITY MONITORING RESULTS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0945 THRU: 437/0963
KEYWORD(S): LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416430 DATE: DEC. 11, 1991(E) PAGE: 1
ATTACHED DOC(S): 416431 THRU: 416433
TITLE: (TRANSMITS RAW ANALYTICAL DATA PACKAGE FROM ASARCO BORE HOLE DRILLINGS OF PROPOSED STORMWATER RUNOFF POND AREA AND ACID PLANT DEWATERING AREA)
AUTHOR: SCOTT/EPA
ADDRESSEE: BILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 437/0964 THRU: 437/0964
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416431 DATE: NOV. 20, 1991 PAGE: 1
ATTACHED TO: 416430
TITLE: (TRANSMITS RAW ANALYTICAL RESULTS COLLECTED FROM BORE HOLE DRILLINGS IN PROPOSED STORMWATER RUNOFF POND LOCATION AND FORMER PLANT SEDIMENT DEWATERING AREA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0965 THRU: 437/0965
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416432 DATE: NOV. 13, 1991 PAGE: 1
ATTACHED TO: 416430
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR EAST HELENA RD/RA SAMPLES COLLECTED AUG. 15-19, 1991)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: MILLER, BOB/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0966 THRU: 437/0966
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416433 DATE: AUG. 1991(E) PAGE: 1
ATTACHED TO: 416430
TITLE: TABLE OF CONTENTS ASARCO EAST HELENA RI/FS PHASE 2 RD/RA SOIL SAMPLES COLLECTED AUG. 15 THROUGH AUG. 19, 1991 E. P. TOXICITY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 437/0967 THRU: 437/0967
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416434 DATE: DEC. 16, 1991 PAGE: 5
TITLE: (ADDENDUM TO PROGRESS REPORT 5)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1140100/416471
MICROFILM ROLL/FRAME NO.: 437/0968 THRU: 437/0972
KEYWORD(S): LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416435 DATE: DEC. 30, 1991 PAGE: 2
TITLE: (REQUESTS ACCESS TO PROPERTY FOR PURPOSE OF ADDITIONAL SOIL SAMPLING)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: KLINE, GEORGE/HIDDEN HOLLOW MOBILE HOME PARK
CC: PIZZINI * BOHAN * HILLERY * QUINONES * WEIS * SELSER * STIFFLER * BENIGER * NICKEL * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0973 THRU: 437/0974
KEYWORD(S): ARSENIC * LEAD * CADMIUM
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416436 DATE: JAN. 8, 1992 PAGE: 3
TITLE: (PROGRESS REPORT 6 [DEC. 1991] FOR SOIL REMOVAL ACTION)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0975 THRU: 437/0977
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416437 DATE: JAN. 13, 1992 PAGE: 1
ATTACHED DOC(S): 416438 THRU: 416439
TITLE: (TRANSMITS LETTER TO ASARCO CONCERNING SOIL REMOVAL)
AUTHOR: SMOOT, ELAYNE M.
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0978 THRU: 437/0978
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416438 DATE: JAN. 13, 1992 PAGE: 1
ATTACHED TO: 416437
TITLE: (REQUESTS REMOVAL OF TOPSOIL FROM PROPERTY)
AUTHOR: SMOOT, ELAYNE M.
ADDRESSEE: NICKEL, JON C./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0979 THRU: 437/0979
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416439 DATE: DEC. 30, 1991 PAGE: 1
ATTACHED TO: 416437
TITLE: (RESULTS OF SAMPLING TAKEN FROM SMOOT PROPERTY)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: SMOOT, DAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0980 THRU: 437/0980
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416440 DATE: JAN. 15, 1992 PAGE: 13
TITLE: "RADLEY SCHOOL WORK SUMMARY FOR REMOVAL AND REPLACEMENT OF SOILS IN THE 1991 CONSTRUCTION SEASON EAST HELENA, MONTANA"
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 437/0981 THRU: 437/0993
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416441 DATE: FEB. 7, 1992 PAGE: 3
TITLE: (MONTHLY PROGRESS REPORT 7 [JAN. 1992] FOR RESIDENTIAL SOIL REMOVAL ACTION)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0994 THRU: 437/0996
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416442 DATE: FEB. 14, 1992 PAGE: 2
ATTACHED DOC(S): 416443 THRU: 416449
TITLE: (TRANSMITS SOIL DATA PACKAGES FOR REVIEW AND DISCUSSION AT FEB. 24, 1992 MEETING)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * NEUMAN * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/0997 THRU: 437/0998
KEYWORD(S): LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416443 DATE: NOV. 27, 1991 PAGE: 30
ATTACHED TO: 416442
TITLE: (ATTACHMENT 1: INFORMATION ON THE 1992 BACKFILL SOURCE)
AUTHOR: /ENERGY LABORATORIES
ADDRESSEE: HUFFSMITH, RANDY/HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 437/0999 THRU: 437/1030
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416444 DATE: DEC. 20, 1991 PAGE: 34
ATTACHED TO: 416442
TITLE: (ATTACHMENT 2 (2A): INDIVIDUAL RESIDENCE SUMMARY REPORT 1000 PPM PB CONTOUR LINE PROJECT)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 437/1031 THRU: 437/1064
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416445 DATE: DEC. 20, 1991 PAGE: 4
ATTACHED TO: 416442
TITLE: (ATTACHMENT 2B: INITIAL SAMPLE SUMMARY REPORT 1000 PPM PB CONTOUR LINE PROJECT)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 437/1065 THRU: 437/1068
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416446 DATE: DEC. 20, 1991 PAGE: 3
ATTACHED TO: 416442
TITLE: (ATTACHMENT 2C: AGRI-FIELDS SAMPLE SUMMARY REPORT 1000 PPM PB CONTOUR LINE PROJECT)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 437/1069 THRU: 437/1071
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416447 DATE: 1991 PAGE: 1
ATTACHED TO: 416442
TITLE: (ATTACHMENT 3: 1991 MONITORING SAMPLES)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 437/1072 THRU: 437/1072
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416448 DATE: OCT. 22, 1991 PAGE: 8
ATTACHED TO: 416442
TITLE: (ATTACHMENT 4: TEST LEACHATE RESULTS FROM COMPOSITE SOIL SAMPLE COLLECTED FROM EAST FIELD SOIL STOCK PILE)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 437/1073 THRU: 437/1080
KEYWORD(S): SILVER * ARSENIC * CADMIUM * MERCURY * LEAD * SELENIUM * SOIL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416449 DATE: 1991 PAGE: 13
ATTACHED TO: 416442
TITLE: (ATTACHMENT 5: ASARCO EAST HELENA XRF CALIBRATION 1991 DATA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 437/1081 THRU: 437/1093
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416450 DATE: FEB. 19, 1992 PAGE: 12
TITLE: (TRANSMITS ATTACHED STATISTICS TO DETERMINE EXTENT OF SOIL SAMPLING)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/1094 THRU: 437/1106
KEYWORD(S): LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416451 DATE: FEB. 21, 1992 PAGE: 1
ATTACHED DOC(S): 416452
TITLE: (COMMENTS CONCERNING SEED MIX, FERTILIZATION AND COMMENTS FOR EAST HELENA SUPERFUND SITE)
AUTHOR: MUNSHOWER, FRANK/MSU
ADDRESSEE: /CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/1107 THRU: 437/1107
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416452 DATE: FEB. 21, 1992 PAGE: 8
ATTACHED TO: 416451
TITLE: (COMMENTS ON XRF CALIBRATION STATISTICS FOR LEAD LEVELS)
AUTHOR: NEUMAN, D. (DENNIS) R./MSU
ADDRESSEE: DOLLHOPF, D. (DOUG) J./MSU * /CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/1108 THRU: 437/1115
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416453 DATE: FEB. 25, 1992 PAGE: 4
TITLE: (AGENDA AND SUMMARY OF MEETING BETWEEN ASARCO AND EPA CONCERNING PLANS FOR EAST HELENA SOIL REMOVAL ACTION)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: WARDELL, JOHN/EPA * PIZZINI, DON/EPA * WEIS, CHRIS/EPA * QUINONES, BEN/MDHES * BOHAN, SUZANNE/EPA * HILLERY, PAM/EPA * KNOY, JIM/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/1116 THRU: 437/1119
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416454 DATE: FEB. 28, 1992 PAGE: 3
TITLE: (RESPONSIVENESS SUMMARY, PUBLIC NOTICE OF AVAILABILITY AND TRACKING SHEET FOR PUBLIC COMMENTS FOR NPL REMOVAL ACTION IN EAST HELENA)
AUTHOR: GRISWOLD, H. HAYS/EPA * NICHOLS, FLOYD D./EPA * GIEDT, JOHN R./EPA
ADDRESSEE: /RECORD
CC: BOHAN * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 437/1120 THRU: 437/1122
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416455 DATE: MAR. 2, 1992(E) PAGE: 1
TITLE: (SUMMARY OF VOLUMES OF CONTAMINATED SOIL REMOVED IN 1991 AND OTHER WORK COMPLETED)
AUTHOR: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 437/1123 THRU: 437/1123
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416456 DATE: MAR. 2, 1992 PAGE: 1
ATTACHED DOC(S): 416457 THRU: 416459
TITLE: (TRANSMITS ASARCO PROPOSED WORK PLAN FOR 1992 RESIDENTIAL SOIL REMOVAL WORK)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/1124 THRU: 437/1124
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416457 DATE: MAR. 1992 (E) PAGE: 3
ATTACHED TO: 416456
TITLE: (NOTES CONCERNING ASARCO WORK PLAN FOR 1992 RESIDENTIAL SOIL REMOVAL ACTION)
AUTHOR: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * ORIGINAL
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 437/1125 THRU: 437/1127
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416458 DATE: 1992(E) PAGE: 7
ATTACHED TO: 416456
TITLE: "EAST HELENA RESIDENTIAL SOIL REMOVAL ACTION WORK PLAN FOR THE 1992 CONSTRUCTION SEASON"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 437/1128 THRU: 437/1134
KEYWORD(S): LEAD * SOIL REMOVAL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416459 DATE: FEB. 27, 1992 PAGE: 1
ATTACHED TO: 416456
TITLE: "AREAS TARGETED FOR REMOVAL ACTIVITIES"
AUTHOR: /ASARCO * /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 437/1135 THRU: 437/1136
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416460 DATE: MAR. 3, 1992 PAGE: 6
TITLE: (STATISTICAL DATA REQUESTED AT TECHNICAL MEETING ON FEB. 24, 1992)
AUTHOR: BLOCK, GARTH/HYDROMETRICS * LUTCHER, LARRY/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/1137 THRU: 437/1142
KEYWORD(S): LEAD
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416461 DATE: MAR. 9, 1992 PAGE: 3
TITLE: (MONTHLY PROGRESS REPORT 8 [FEB. 1992] FOR RESIDENTIAL SOIL REMOVAL ACTION)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D.SCOTT/EPA * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/1143 THRU: 437/1145
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416462 DATE: MAR. 27, 1992 PAGE: 4
TITLE: (TRANSMITS ATTACHED WEEKLY REPORT FOR RESIDENTIAL SOIL REMOVAL ACTION MAR. 15-21, 1992)
AUTHOR: DAVIS, DON/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUIONES (QUINONES) * VARNER * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * BOHAN * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/1146 THRU: 437/1149
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416463 DATE: MAR. 27, 1992 PAGE: 4
TITLE: (COMMENTS ON 1992 SOIL REMEDIATION PLAN FOR EAST HELENA)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/1150 THRU: 437/1153
KEYWORD(S): LEAD * GROUNDWATER * DUST * SOIL REMOVAL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416464 DATE: APR. 2, 1992 PAGE: 2
TITLE: (ADDENDUM TO SITE HEALTH AND SAFETY PLAN DISCUSSED AND APPROVED AT WEEKLY MEETING)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * NICKEL * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/1154 THRU: 437/1155
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416465 DATE: APR. 10, 1992 PAGE: 5
TITLE: (MONTHLY PROGRESS REPORT 9 [MAR. 1992] FOR RESIDENTIAL SOIL REMOVAL ACTION)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/1156 THRU: 437/1160
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416466 DATE: APR. 10, 1992 PAGE: 63
TITLE: (TRANSMITS ATTACHED WEEKLY REPORT AND SUPPORTING DATA FOR RESIDENTIAL SOIL REMOVAL ACTION, MAR. 30 - APR. 4, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /CHIEF OF SOLID AND HAZARDOUS WASTE MANAGEMENT BUREAU * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/1161 THRU: 437/1223
KEYWORD(S): LEAD * ARSENIC * CADMIUM * SOIL
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416468 DATE: FEB. 21, 1992 PAGE: 1
TITLE: (CITY COUNCIL ENDORSES THE NEW CITIZENS ADVISORY COMMITTEE; THIS CROSS FILED DOCUMENT IS LOCATED IN 1100000/402963)
AUTHOR: STIPICH, EDWARD J./CITY OF EAST HELENA
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/1224 THRU: 437/1224
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 416469 DATE: FEB. 25, 1992 PAGE: 1
TITLE: (RESPONDING TO QUESTIONS ASKED AT LAST EHCAC/C MEETING; THIS CROSS FILED DOCUMENT IS LOCATED IN 1100000/402964)
AUTHOR: HILLERY, PAM/EPA
ADDRESSEE: BENIGER, BETTY/EHCAC/C
CC: STURN * BROWN * STILES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 437/1225 THRU: 437/1225
NOTES: UPDATE 04

FILE: 4070200 DOCNO: 418661 DATE: JUL. 1991 PAGE: 71
TITLE: "SITE HEALTH AND SAFETY PLAN WORK PLAN FOR EXCAVATION AND REMOVAL OF RESIDENTIAL SOILS EAST HELENA, MONTANA" (REVISED MAY 1992; ATTACHED TRANSMITTAL FROM BLOCK)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 544/0330 THRU: 544/0401
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418662 DATE: NOV. 1991 PAGE: 53
TITLE: "DATA VALIDATION SUMMARY FOR THE ASARCO EAST HELENA SOIL XRF (X-RAY FLUORESCENCE) CALIBRATION ASARCO, INC. EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM MILLER TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 544/0402 THRU: 544/0454
KEYWORD(S): SILVER * ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418664 DATE: FEB. 11, 1992 PAGE: 1
ATTACHED DOC(S): 418665
TITLE: (REVIEW COMMENTS OF "DATA VALIDATION SUMMARY FOR ASARCO EAST HELENA SOIL XRF CALIBRATION" BY HYDROMETRICS NOV. 1991; TRANSMITS MSU COMMENTS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/0455 THRU: 544/0455
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418665 DATE: JAN. 21, 1992 PAGE: 4
ATTACHED TO: 418664
TITLE: (REVIEW OF "DATA VALIDATION SUMMARY FOR ASARCO EAST HELENA SOIL XRF CALIBRATION" BY HYDROMETRICS NOV. 1991)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/0456 THRU: 544/0459
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418666 DATE: MAR. 16, 1992 PAGE: 1
TITLE: (COMMENTS ON 1992 SOIL REMEDIATION PLAN)
AUTHOR: SELSER, WILL I./LCCCHD
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0460 THRU: 544/0460
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418667 DATE: MAR. 30, 1992 PAGE: 2
TITLE: (CONCERNS BACKFILL SOIL QUALITY)
AUTHOR: LUTCHER, LARRY/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0461 THRU: 544/0462
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418668 DATE: APR. 17, 1992 PAGE: 3
TITLE: (PROPOSAL TO BLEND REPLACEMENT SOILS IN ORDER TO MEET EC REQUIREMENTS)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0463 THRU: 544/0465
KEYWORD(S): LEAD
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418669 DATE: APR. 17, 1992 PAGE: 39
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL APR. 6-11, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0466 THRU: 544/0504
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418670 DATE: APR. 20, 1992 PAGE: 3
TITLE: (REVIEW BY STATISTICIANS OF ASARCO NEW CALIBRATION FIGURES FOR SPECTRACE 500 X-RAY FLUORESCENCE SPECTROMETER)
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/0505 THRU: 544/0507
KEYWORD(S): LEAD
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418671 DATE: APR. 23, 1992 PAGE: 91
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL APR. 13-18, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0508 THRU: 544/0598
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418676 DATE: APR. 30, 1992 PAGE: 77
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL APR. 20-25, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * DAVIS * ROBBINS * HART * LEAP * THORP * NICKEL * BLUCK * BOHAN * LITLE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0599 THRU: 544/0675
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418680 DATE: MAY 5, 1992 PAGE: 161
TITLE: (TRANSMITS ATTACHED RAW DATA REPORT FOR SOIL SAMPLES COLLECTED BETWEEN FEB. AND MAR. 1992 TO DETERMINE ACCEPTABILITY OF BACKFILL SOIL QUALITY)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /STATE PROJECT OFFICER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0676 THRU: 544/0836
KEYWORD(S): SILVER * ARSENIC * CADMIUM * COPPER * LEAD * ZINC * SOIL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418681 DATE: MAY 7, 1992 PAGE: 13
TITLE: (MONTHLY PROGRESS REPORT 10 [APR. 1992] FOR RESIDENTIAL SOIL REMOVAL ACTION)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * /MDHES
CC: MARCUS * LITLE * HART * ROBBINS * LEAP * THORP * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0837 THRU: 544/0849
KEYWORD(S): LEAD
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418682 DATE: MAY 8, 1992 PAGE: 94
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL APR. 26 - MAY 2, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0850 THRU: 544/0943
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418683 DATE: MAY 11, 1992 PAGE: 8
TITLE: (TRANSMITS ATTACHED STATISTICS OF DEFINING 1000 PPM LEAD)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: NEUMAN, DENNIS/MSU
CC: BLUCK * BROWN * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0944 THRU: 544/0951
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418684 DATE: MAY 15, 1992 PAGE: 79
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL MAY 3-9, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/0952 THRU: 544/1030
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418688 DATE: MAY 22, 1992 PAGE: 17
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL MAY 10-16, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1031 THRU: 544/1047
KEYWORD(S): ARSENIC * CADMIUM * LEAD * AIR * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418689 DATE: MAY 28, 1992 PAGE: 22
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL MAY 17-23, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1048 THRU: 544/1069
KEYWORD(S): ARSENIC * CADMIUM * LEAD * AIR * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418691 DATE: JUN. 5, 1992 PAGE: 18
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL MAY 24-30, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * BOHAN * VARNER * HART * LEAP * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1070 THRU: 544/1087
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418692 DATE: JUN. 8, 1992 PAGE: 3
TITLE: (CONCERNS APPLICATION FOR TAG)
AUTHOR: STIFFLER, JAMES G./EAST HELENA CITIZENS ADVISORY COMMITTEE
ADDRESSEE: WILLIAMS, PAT
CC: BURNS * BAUCUS * MARLENEE * STEVENS * IVERSON * (SCHERER) * NICODEMUS * SASEK * /ASSOCIATED PRESS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1088 THRU: 544/1090
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418693 DATE: JUN. 8, 1992 PAGE: 4
TITLE: ASARCO/EPA WORK FINISHED REPORT (FINISHED FEB. 1 - MAY 29, 1992)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 544/1091 THRU: 544/1094
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418694 DATE: JUN. 10, 1992 PAGE: 17
TITLE: (MONTHLY PROGRESS REPORT 11 [MAY 1992] FOR RESIDENTIAL SOIL REMOVAL ACTION)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1095 THRU: 544/1111
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418695 DATE: JUN. 12, 1992 PAGE: 19
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL MAY 31 - JUN. 6, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1112 THRU: 544/1130
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418696 DATE: JUN. 17, 1992 PAGE: 24
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL JUN. 7-13, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1131 THRU: 544/1154
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418699 DATE: JUN. 25, 1992 PAGE: 24
TITLE: (X-RAY FLUORESCENCE SPECTROMETER (XRF) CALIBRATION DATA, ADJUSTMENTS, PRECISION)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: BLUCK, BILL/CH2M HILL
CC: BROWN * MILLER * WING * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/1155 THRU: 544/1178
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418700 DATE: JUN. 25, 1992 PAGE: 21
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL JUN. 14-20, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1179 THRU: 544/1199
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418705 DATE: JUL. 1, 1992 PAGE: 25
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL JUN. 21-27, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1200 THRU: 544/1224
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418708 DATE: JUL. 8, 1992 PAGE: 12
TITLE: (MONTHLY PROGRESS REPORT 12 [JUN. 1992] FOR RESIDENTIAL SOIL REMOVAL ACTION)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1225 THRU: 544/1236
KEYWORD(S): LEAD
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418709 DATE: JUL. 9, 1992 PAGE: 1
ATTACHED DOC(S): 418710 THRU: 418715
TITLE: (TRANSMITS LABORATORY AUDIT REPORTS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /DOJ * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1237 THRU: 544/1237
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418710 DATE: MAY 14, 1992 PAGE: 1
ATTACHED TO: 418709
TITLE: (TRANSMITS REPORT OF VISIT TO LAB; LISTS RECOMMENDATIONS FOR IMPROVEMENTS)
AUTHOR: TSCHANTZ, DIANA/AMERICAN INDUSTRIAL HYGIENE ASSOCIATION
ADDRESSEE: ROBBINS, D. A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1238 THRU: 544/1238
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418711 DATE: MAY 14, 1992 PAGE: 2
ATTACHED TO: 418709
TITLE: SITE VISITORS RECOMMENDED IMPROVEMENTS
AUTHOR: COVERT, ROY J./COVERT AND ASSOCIATES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 544/1239 THRU: 544/1240
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418712 DATE: JUN. 9, 1992 PAGE: 3
ATTACHED TO: 418709
TITLE: (TRANSMITS ATTACHED RESPONSE TO RECOMMENDED IMPROVEMENTS FOR LABORATORY ACCREDITATION)
AUTHOR: STANGA, GARY R./ASARCO
ADDRESSEE: TSCHANTZ, DIANA/AMERICAN INDUSTRIAL HYGIENE ASSOCIATION
CC: VARNER * PETERSON * ROBBINS * KELLER * HASSARD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1241 THRU: 544/1243
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418713 DATE: APR. 7, 1992 PAGE: 3
ATTACHED TO: 418709
TITLE: (LISTS REQUIREMENTS AND RECOMMENDATIONS FOR MAINTAINING LABORATORY CERTIFICATION)
AUTHOR: BARBAS, JAN/UTAH STATE DEPARTMENT OF HEALTH
ADDRESSEE: STANGA, GARY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1244 THRU: 544/1246
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418714 DATE: JUN. 15, 1992 PAGE: 3
ATTACHED TO: 418709
TITLE: (RESPONSE TO APR. 7, 1992 LETTER LISTING REQUIREMENTS AND RECOMMENDATIONS FOR LABORATORY RECERTIFICATION)
AUTHOR: STANGA, GARY R./ASARCO
ADDRESSEE: BARBAS, JAN/(UTAH STATE DEPT. HEALTH)
CC: PETERSON * ROBBINS * KELLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1247 THRU: 544/1249
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418715 DATE: FEB. 20, 1992 PAGE: 2
ATTACHED TO: 418709
TITLE: (CERTIFICATE TO PERFORM ENVIRONMENTAL MONITORING)
AUTHOR: MELTON, A. RICHARD/UTAH STATE DEPARTMENT OF HEALTH
ADDRESSEE: ROBBINS, DONALD A./ASARCO
CC: DENTON * DOWNS * /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1250 THRU: 544/1251
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418716 DATE: JUL. 9, 1992 PAGE: 36
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL JUN. 28 - JUL. 4, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1252 THRU: 544/1287
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418717 DATE: JUL. 14, 1992 PAGE: 136
TITLE: (TRANSMITS ATTACHED RESIDENTIAL SOILS RAW ANALYTICAL DATA)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /STATE PROJECT OFFICER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1288 THRU: 544/1423
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * IRON
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418718 DATE: JUL. 14, 1992 PAGE: 26
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL JUL. 5-11, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1424 THRU: 544/1449
KEYWORD(S): ARSENIC * CADMIUM * LEAD * AIR * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418720 DATE: JUL. 23, 1992 PAGE: 34
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL JUL. 12-18, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1450 THRU: 544/1483
KEYWORD(S): ARSENIC * CADMIUM * LEAD * AIR * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418721 DATE: JUL. 29, 1992 PAGE: 1
ATTACHED DOC(S): 418722
TITLE: (TRANSMITS MSU REVIEW OF XRF PERFORMANCE AT EAST HELENA SUPERFUND SITE)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: TANGEN, LINDA/HYDROMETRICS
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/1484 THRU: 544/1484
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418722 DATE: JUL. 10, 1992 PAGE: 14
ATTACHED TO: 418721
TITLE: (REVIEW COMMENTS ON XRF PERFORMANCE AT EAST HELENA SUPERFUND SITE)
AUTHOR: NEUMAN, DENNIS/MSU * GLANZMAN, DICK/CH2M HILL
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/1485 THRU: 544/1498
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * SOIL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418723 DATE: JUL. 30, 1992 PAGE: 27
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL JUL. 19-25, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1499 THRU: 544/1525
KEYWORD(S): ARSENIC * CADMIUM * LEAD * AIR * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418724 DATE: AUG. 6, 1992 PAGE: 32
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL JUL. 26 - AUG. 1, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1526 THRU: 544/1557
KEYWORD(S): ARSENIC * CADMIUM * LEAD * AIR
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418725 DATE: AUG. 6, 1992 PAGE: 16
TITLE: (MONTHLY PROGRESS REPORT 13 [JUL. 1992] FOR RESIDENTIAL SOIL REMOVAL ACTION)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1558 THRU: 544/1573
KEYWORD(S): LEAD
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418726 DATE: AUG. 11, 1992 PAGE: 9
TITLE: (SMOOT RESIDENCE SOIL SAMPLING RESULTS; ATTACHED ROUTING SLIP)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1574 THRU: 544/1582
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418727 DATE: AUG. 17, 1992 PAGE: 59
TITLE: "WORK PLAN FOR THE FOCUSED FEASIBILITY STUDY [FS] ON THE LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM LANG TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
CC: QUINONES * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 544/1583 THRU: 544/1642
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * GROUNDWATER * VEGETATION * AIR * DUST * SOIL * SURFACE WATER
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418728 DATE: AUG. 18, 1992 PAGE: 2
TITLE: (DISCUSSES RESULTS OF SOIL SAMPLING DONE AT SMOOT RESIDENCE)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: QUINONES, BEN/MDHES
CC: PIZZINI * BOHAN * BLUCK
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1643 THRU: 544/1644
KEYWORD(S): LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418729 DATE: AUG. 20, 1992 PAGE: 29
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOIL REMOVAL ACTION AUG. 9-15, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1645 THRU: 544/1673
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418730 DATE: AUG. 27, 1992 PAGE: 32
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL AUG. 16-21, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1674 THRU: 544/1705
KEYWORD(S): LEAD * SOIL * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418731 DATE: SEP. 2, 1992 PAGE: 29
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL AUG. 23-29, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1706 THRU: 544/1734
KEYWORD(S): ARSENIC * CADMIUM
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418732 DATE: SEP. 8, 1992 PAGE: 1
DUPLICATE DOCUMENT: 1100000/418594
TITLE: (ADVISES EPA WILL NO LONGER ATTEND EHCAC/C MEETINGS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: BENIGER, BETTY/EHCAC/C
CC: PIZZINI * BOHAN * QUINONES * HILLERY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1735 THRU: 544/1735
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418883 DATE: AUG. 27, 1992 PAGE: 2
TITLE: (DISCUSSES DEPTH OF EXCAVATION FOR YARD SOIL REMOVAL)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: FISCHER * WING
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/1736 THRU: 544/1737
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418884 DATE: SEP. 4, 1992 PAGE: 15
TITLE: (EAST HELENA REMOVAL ACTION [AUG. 1992] MONTHLY PROGRESS REPORT 14)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1738 THRU: 544/1752
KEYWORD(S): ARSENIC * LEAD * GROUNDWATER
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418885 DATE: SEP. 10, 1992 PAGE: 29
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL AUG. 30 - SEP. 4, 1992; DISCUSSES RUPTURED GAS LINE)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1753 THRU: 544/1781
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418886 DATE: SEP. 14, 1992 PAGE: 7
TITLE: (RESPONSE TO JUL. 10, 1992 MEMO CONCERNING XRF CALIBRATION AND PERFORMANCE AT EAST HELENA SUPERFUND SITE)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: BLUCK, BILL/CH2M HILL
CC: BROWN * NICKEL * MILLER * WING * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/1782 THRU: 544/1788
KEYWORD(S): ARSENIC * CADMIUM * LEAD * DUST
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418893 DATE: MAY 1, 1992 PAGE: 1
ATTACHED DOC(S): 418894 THRU: 418896
TITLE: (TRANSMITS CORRESPONDENCE CONCERNING USE OF SOILS AND INTERMEDIATE FILL AT REMOVAL SITES)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/1789 THRU: 544/1789
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418894 DATE: APR. 27, 1992 PAGE: 1
ATTACHED TO: 418893
TITLE: (REQUESTS REVIEW COMMENTS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: NEUMAN, DENNIS/MSU * DOLLHOPF, DOUG/MSU
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/1790 THRU: 544/1790
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418895 DATE: APR. 17, 1992 PAGE: 3
ATTACHED TO: 418893
TITLE: (DISCUSSES PROPOSAL TO BLEND REPLACEMENT SOILS TO MEET EC REQUIREMENTS; ATTACHED RESIDENTIAL SOILS SUBSOIL CRITERIA)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1791 THRU: 544/1793
KEYWORD(S): LEAD
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418896 DATE: APR. 28, 1992 PAGE: 1
ATTACHED TO: 418893
TITLE: (CONCERNS BLENDING OF REPLACEMENT SOILS)
AUTHOR: DOLLHOPF, DOUG/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 544/1794 THRU: 544/1794
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 418897 DATE: SEP. 17, 1992 PAGE: 34
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL SEP. 6-12, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 544/1795 THRU: 544/1828
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 05

FILE: 4070200 DOCNO: 424121 DATE: 1992 (E) PAGE: 17
TITLE: (MEMORIAL PARK EXCAVATION DEPTH LOGS; INCLUDES VACANT LOT EAST OF MEMORIAL PARK, SOME ALLEYS AND STREET APRONS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 581/0888 THRU: 581/0904
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424122 DATE: 1992 PAGE: 14
TITLE: (PHOTOS OF SUMMER [1992] ACTIVITY; RESIDENTIAL SOIL REMOVAL)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: PHOTO/SLIDE
MICROFILM ROLL/FRAME NO.: 581/0905 THRU: 581/0918
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424123 DATE: SEP. 1992 (E) PAGE: 2
TITLE: (RESULTS OF SOIL SAMPLING FOR LEAD: POST-EXCAVATION SAMPLES FOR MAIN STREET PARK AND PRE-EXCAVATION SAMPLES FOR FIELD WEST OF RADLEY SCHOOL PLAYGROUND AND STRIP EAST OF IT)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 581/0919 THRU: 581/0920
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424124 DATE: SEP. 3, 1992 PAGE: 2
TITLE: (OPPOSES USE OF QUADRANT BY QUADRANT APPROACH)
AUTHOR: STIFFLER, JAMES G./EAST HELENA CITIZENS ADVISORY COMMITTEE
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BURNS * BAUCUS * MARLENEE * WILLIAMS * QUINONES * IVERSON * SASEK * /ASSOCIATED PRESS * SELZER * RICE * HARPER * MAZUREK * WATERMAN * FOSTER * MADISON * O'KEEFE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1100000
MICROFILM ROLL/FRAME NO.: 581/0921 THRU: 581/0922
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424125 DATE: SEP. 9, 1992 PAGE: 4
ATTACHED DOC(S): 424126
TITLE: (REVIEW COMMENTS ON "WORK PLAN FOR THE FOCUSED FEASIBILITY STUDY [FS] ON THE LOCATION AND DISPOSAL OF EAST HELENA SOILS, EAST HELENA, MONTANA")
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: FISCHER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0923 THRU: 581/0926
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424126 DATE: SEP. 11, 1992 PAGE: 3
ATTACHED TO: 424125
TITLE: (REVIEW COMMENTS ON "WORK PLAN FOR THE FOCUSED FEASIBILITY STUDY [FS] ON THE LOCATION AND METHOD OF DISPOSAL OF THE EAST HELENA SOILS, EAST HELENA, MONTANA")
AUTHOR: NEUMAN, D. (DENNIS) R./MSU * DOLLHOPF, D. (DOUG) J./MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0927 THRU: 581/0929
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424127 DATE: SEP. 10, 1992 PAGE: 2
TITLE: (REVIEW COMMENTS ON WORK PLAN FOR FOCUSED FS)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0930 THRU: 581/0931
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424134 DATE: SEP. 24, 1992 PAGE: 28
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL FOR SEP. 13-19, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0944 THRU: 581/0971
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424135 DATE: OCT. 1, 1992 PAGE: 2
TITLE: (SOIL REMOVAL ACTIVITIES STATUS REPORT FOR JUL. - SEP. 1992; SEE PHOTOS AT 4070200/424122)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/0972 THRU: 581/0973
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424136 DATE: OCT. 1, 1992 PAGE: 32
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL FOR SEP. 20-26, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROBBINS * NICKEL * LITLE * VARNER * HART * BLUCK * BOHAN * /MDHES * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/0974 THRU: 581/1005
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424138 DATE: OCT. 8, 1992 PAGE: 4
ATTACHED DOC(S): 424139
TITLE: (PROGRESS REPORT 15 FOR EAST HELENA REMOVAL ACTION)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1011 THRU: 581/1014
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424139 DATE: 1992 PAGE: 2
ATTACHED TO: 424138
TITLE: RESIDENTS AND PROPERTY LOCATIONS WITH SIGNED SOIL REMOVAL ACCESS AGREEMENTS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 581/1015 THRU: 581/1016
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424140 DATE: OCT. 8, 1992 PAGE: 33
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL FOR SEP. 27 - OCT. 3, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1017 THRU: 581/1049
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424141 DATE: OCT. 13, 1992 PAGE: 1
ATTACHED DOC(S): 424142 THRU: 424143
TITLE: (TRANSMITS RESPONSES TO COMMENTS OF JUL. 29, 1992 CONCERNING XRF CALIBRATION/PERFORMANCE)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: TANGEN, LINDA/HYDROMETRICS
CC: BROWN * NICKEL * WING * GLANZMAN * NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1050 THRU: 581/1050
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424142 DATE: OCT. 1, 1992 PAGE: 2
ATTACHED TO: 424141
TITLE: (RESPONSE TO JUL. 10 MEMO CONCERNING USE OF XRF CALIBRATION/PERFORMANCE)
AUTHOR: GLANZMAN, DICK/CH2M HILL * NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1051 THRU: 581/1052
KEYWORD(S): ARSENIC
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424143 DATE: OCT. 20, 1992 PAGE: 1
ATTACHED TO: 424141
TITLE: (DISCUSSES CALIBRATION REPORT)
AUTHOR: (BROWN, SCOTT/EPA)
ADDRESSEE: TANGEN, LINDA/(HYDROMETRICS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 581/1053 THRU: 581/1053
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424144 DATE: OCT. 14, 1992 PAGE: 2
TITLE: (OBJECTIONS TO QUADRANT SOIL REMOVAL AND ACTION LEVELS)
AUTHOR: SELSER, WILL I./LCCCHD
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NICKEL * QUIONES (QUINONES) * JOHNSON * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1054 THRU: 581/1055
KEYWORD(S): LEAD
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424146 DATE: OCT. 15, 1992 PAGE: 31
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL FOR OCT. 4-10, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1056 THRU: 581/1086
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424147 DATE: OCT. 20, 1992 PAGE: 31
TITLE: (RESPONSE TO MEMO OF OCT. 13 FROM BILL BLUCK CONCERNING GAPS NOTED BY MSU AND CH2M HILL ON XRF CALIBRATION RESULTS AND QAPP)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * NICKEL * MILLER * WING * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1087 THRU: 581/1117
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424148 DATE: OCT. 20, 1992 PAGE: 2
TITLE: (WEEKLY CONSTRUCTION REPORT FOR SPEISS POND REMEDIATION OCT. 3-20, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * NICKEL * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1118 THRU: 581/1119
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424149 DATE: OCT. 22, 1992 PAGE: 22
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL FOR OCT. 11-17, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1120 THRU: 581/1141
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424150 DATE: OCT. 26, 1992 PAGE: 5
TITLE: (CONFIRMATION SAMPLING FOR WALSH YARD AND SEAVER PARK LOT)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * NICKEL * MILLER * WING * TEST
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1142 THRU: 581/1146
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424151 DATE: OCT. 26, 1992 PAGE: 4
ATTACHED DOC(S): 424152
TITLE: (RESPONSE TO OCT. 14, 1992 LETTER CONCERNING QUADRANT APPROACH TO REMOVING CONTAMINATED YARDS; TRANSMITS LETTER TO STIFFLER CONCERNING QUADRANT APPROACH)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SELSER, WILL I./LCCCHD
CC: PIZZINI * BOHAN * HILLERY * QUINONES * NICKEL * BENIGER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1147 THRU: 581/1150
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424152 DATE: OCT. 13, 1992 PAGE: 2
ATTACHED TO: 424151
TITLE: (RESPONSE TO SEP. 3, 1992 LETTER CONCERNING QUADRANT REMOVAL PROPOSAL)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: STIFFLER, JAMES G./EHCAC/C
CC: WARDELL * PIZZINI * HILLERY * BOHAN * /EAST HELENA CITY COUNCIL * /EHCAC/C
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1151 THRU: 581/1152
KEYWORD(S): LEAD * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424153 DATE: OCT. 27, 1992 PAGE: 4
ATTACHED DOC(S): 424154 THRU: 424156
TITLE: (DISCUSSES AND TRANSMITS REVIEW COMMENTS ON "WORK PLAN FOR FOCUSED FEASIBILITY STUDY [FS] ON LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS")
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * QUINONES * BLUCK * MILLER * LANG * BLOCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * CONCURRENCE COPY ATTACHED * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1153 THRU: 581/1156
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424154 DATE: SEP. 9, 1992 PAGE: 4
ATTACHED TO: 424153
TITLE: (REVIEW COMMENTS ON "WORK PLAN FOR FOCUSED FEASIBILITY STUDY [FS] ON LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS")
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1157 THRU: 581/1160
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424155 DATE: SEP. 11, 1992 PAGE: 3
ATTACHED TO: 424153
TITLE: (REVIEW COMMENTS ON "WORK PLAN FOR FOCUSED FEASIBILITY STUDY [FS] ON LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS")
AUTHOR: NEUMAN, D. (DENNIS) R./MSU * DOLLHOPF, D. (DOUG) J./MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1161 THRU: 581/1163
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424156 DATE: SEP. 10, 1992 PAGE: 2
ATTACHED TO: 424153
TITLE: (REVIEW COMMENTS ON "WORK PLAN FOR FOCUSED FEASIBILITY STUDY [FS] ON LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS")
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1164 THRU: 581/1165
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424157 DATE: OCT. 27, 1992 PAGE: 1
TITLE: (COMMITMENT TO COMPLETE BROERE, BETCHER AND PLUMMER YARDS FIRST NEXT SPRING)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * HILLERY * QUINONES * WING * DAVIS * BROERE * BETCHER * PLUMMER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1166 THRU: 581/1166
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424158 DATE: OCT. 29, 1992 PAGE: 2
TITLE: (PENDING SITE REMEDIATION REVISED LIST OF RESIDENCES WITH CHILDREN UNDER SIX YEARS OF AGE)
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 581/1167 THRU: 581/1168
KEYWORD(S): LEAD
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424159 DATE: OCT. 29, 1992 PAGE: 2
TITLE: (SAMPLING RESULTS FOR SECTION OF SEAVER PARK)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: ERICKSON, DON/LANDMARK REALTY COMPANY
CC: PIZZINI * BOHAN * HILLERY * QUINONES * BLUCK * SELSER * NICKEL * WING * BENIGER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1169 THRU: 581/1170
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424160 DATE: OCT. 30, 1992 PAGE: 2
TITLE: (COMMITMENT TO WORK ON BROERE, BETCHER AND PLUMMER YARDS FIRST IN 1993)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BROERE * BETCHER * PLUMMER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1171 THRU: 581/1172
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424161 DATE: OCT. 30, 1992 PAGE: 1
ATTACHED DOC(S): 424162 THRU: 424163
TITLE: (TRANSMITS OCT. 1992 MONTHLY PROGRESS REPORTS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):2060000
MICROFILM ROLL/FRAME NO.: 581/1173 THRU: 581/1173
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424162 DATE: OCT. 29, 1992 PAGE: 1
ATTACHED TO: 424161
TITLE: (OCT. 1992 ACTIVITIES FOR RESIDENTIAL SOIL REMOVAL ACTION)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):2060000
MICROFILM ROLL/FRAME NO.: 581/1174 THRU: 581/1174
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424163 DATE: OCT. 29, 1992 PAGE: 1
ATTACHED TO: 424161
TITLE: EAST HELENA ACID WATER RECLAIM FACILITY AND SPEISS POND RA OCT. 1-31, 1992
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
CROSS FILE(S):2060000
MICROFILM ROLL/FRAME NO.: 581/1175 THRU: 581/1175
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424164 DATE: NOV. 2, 1992 PAGE: 2
ATTACHED DOC(S): 424165
TITLE: (TRANSMITS LAST WEEKLY REPORT FOR 1992 AND SUMMARIZES LAST BIWEEKLY MEETING OF OCT. 30, 1992 FOR RESIDENTIAL SOIL REMOVAL ACTION)
AUTHOR: (BROWN), SCOTT/EPA
ADDRESSEE: (PIZZINI), DON/EPA
CC: JOHN * PAM
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1176 THRU: 581/1177
KEYWORD(S): LEAD * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424165 DATE: OCT. 29, 1992 PAGE: 36
ATTACHED TO: 424164
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION OCT. 18-24, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1178 THRU: 581/1213
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424166 DATE: NOV. 5, 1992 PAGE: 1
ATTACHED DOC(S): 424167
TITLE: (REVIEWS AND TRANSMITS DRAFT PRE-REMOVAL SAMPLING SUMMARY EAST HELENA SOIL REMOVAL PROJECT)
AUTHOR: DICK
ADDRESSEE: BEN * KAREN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * HANDWRITTEN * INCOMPLETE * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1214 THRU: 581/1214
KEYWORD(S): LEAD * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424167 DATE: OCT. 30, 1992 PAGE: 70
ATTACHED TO: 424166
TITLE: DRAFT "PRE-REMOVAL SAMPLING SUMMARY EAST HELENA SOIL REMOVAL PROJECT"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 581/1215 THRU: 581/1284
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424168 DATE: NOV. 5, 1992 PAGE: 22
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL FOR OCT. 26-31, 1992)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * ROBBINS * NICKEL * LITLE * VARNER * HART * LEAP * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1285 THRU: 581/1306
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424169 DATE: NOV. 11, 1992 PAGE: 4
TITLE: (RESULTS OF FIELD SAMPLES TAKEN FROM MAHONEY YARD)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * QUIONES (QUINONES) * NICKEL * MILLER * WING * TEST
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1307 THRU: 581/1310
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424170 DATE: NOV. 20, 1992 PAGE: 4
TITLE: STATE INTERPRETATION OF EAST HELENA NPL SITE SOILS REMOVAL BY QUADRANT APPROACH
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: PIZZINI * SELSER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1311 THRU: 581/1314
KEYWORD(S): ARSENIC * LEAD * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424171 DATE: NOV. 23, 1992 PAGE: 1
ATTACHED DOC(S): 424172 THRU: 424173
TITLE: (TRANSMITS DATA PACKAGE OF RAW ANALYTICAL RESULTS FOR EAST FIELDS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1315 THRU: 581/1315
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424172 DATE: NOV. 3, 1992 PAGE: 1
ATTACHED TO: 424171
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR EAST FIELDS VEGETATION STUDY)
AUTHOR: NOKES, JOHN H./ASARCO
ADDRESSEE: TEST, PETE/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1316 THRU: 581/1316
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424173 DATE: SEP. 8, 1992 (E) PAGE: 1
ATTACHED TO: 424171
TITLE: "TABLE OF CONTENTS ASARCO - EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS] SAMPLES COLLECTED AUG. 18, 1992 THROUGH SEP. 8, 1992"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/1317 THRU: 581/1317
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424174 DATE: NOV. 23, 1992 PAGE: 1
ATTACHED DOC(S): 424175
TITLE: (TRANSMITS TWO RAW ANALYTICAL DATA PACKAGES FOR EAST HELENA SOIL SAMPLE RESULTS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1318 THRU: 581/1318
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424175 DATE: NOV. 1992 (E) PAGE: 2
ATTACHED TO: 424174
TITLE: "TABLE OF CONTENTS ASARCO - EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS] SOILS"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/1319 THRU: 581/1320
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424176 DATE: NOV. 23, 1992 PAGE: 1
ATTACHED DOC(S): 424177
TITLE: (TRANSMITS RAW ANALYTICAL DATA PACKAGE FOR EAST HELENA SOIL SAMPLES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1321 THRU: 581/1321
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424177 DATE: NOV. 1992 (E) PAGE: 1
ATTACHED TO: 424176
TITLE: "TABLE OF CONTENTS ASARCO - EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS] SOILS"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/1322 THRU: 581/1322
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424178 DATE: NOV. 30, 1992 PAGE: 2
TITLE: (NOV. 1992 ACTIVITIES FOR EAST HELENA RESIDENTIAL SOIL REMOVAL ACTION; INCLUDES ALLEY AND APRON CONCERNS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1323 THRU: 581/1324
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424179 DATE: DEC. 7, 1992 PAGE: 7
TITLE: (LISTS ISSUES TO BE DISCUSSED AT UPCOMING MEETING WITH ASARCO, EPA AND MDHES DEC. 10, 1992; ATTACHED ATTENDANCE LIST)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: LITLE, ROBERT A./ASARCO
CC: PIZZINI * BROWN * BOHAN * PETERSON * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1325 THRU: 581/1331
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424180 DATE: DEC. 8, 1992 PAGE: 6
TITLE: (RESPONSE TO NOV. 20, 1992 LETTER CONCERNING SOIL REMOVAL BY QUADRANT APPROACH)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: QUINONES, BEN/MDHES
CC: PIZZINI * BOHAN * HILLERY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1332 THRU: 581/1337
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424181 DATE: DEC. 15, 1992 PAGE: 2
TITLE: (REVISED LIST OF PRIORITY RESIDENTS WITH CHILDREN YOUNGER THAN 6 YEARS OLD FOR PENDING SITE REMEDIATION)
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LIST
MICROFILM ROLL/FRAME NO.: 581/1338 THRU: 581/1339
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424182 DATE: JAN. 5, 1993 PAGE: 3
ATTACHED DOC(S): 424183
TITLE: (SUMMARY OF DEC. 10, 1992 MEETING CONCERNING PLANS FOR 1993 REMOVAL ACTION)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: WARDELL, JOHN/EPA * PIZZINI, DON/EPA * LITLE, ROBERT/ASARCO * WEIS, CHRISTOPHER/EPA * BOHAN, SUZANNE/EPA * HILLERY, PAM/EPA * PETERSON, DICK/MDHES * QUINONES, BEN/MDHES * SELSER, WILL/LCCCHD * NICKEL, JON/ASARCO * SPICKELMIER, JAY/ASARCO * BLUCK, BILL/CH2M HILL * WING, TOM/HYDROMETRICS * BENIGER, BETTY/EHCAC/C * STIFFLER, JAMES/EHCAC/C * STIPICH, ED/EAST HELENA CITY COUNCIL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1340 THRU: 581/1342
KEYWORD(S): LEAD * DUST * SOIL * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424183 DATE: DEC. 7, 1992 PAGE: 3
ATTACHED TO: 424182
TITLE: (ADDRESSES ISSUES TO BE DISCUSSED AT MEETING DEC. 10, 1992 BETWEEN ASARCO, MDHES AND EPA)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: LITLE, ROBERT A./ASARCO
CC: PIZZINI * BROWN * BOHAN * PETERSON * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1343 THRU: 581/1345
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424184 DATE: JAN. 27, 1993 PAGE: 1
TITLE: (LIST OF ATTENDEES FROM ASARCO UPDATE MEETING)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 581/1346 THRU: 581/1346
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424186 DATE: FEB. 3, 1993 PAGE: 1
ATTACHED DOC(S): 424187
TITLE: (TRANSMITS DATA PACKAGE FOR XRF LAB CONTROL SAMPLE)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1779 THRU: 581/1779
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424187 DATE: DEC. 17, 1992 PAGE: 1
ATTACHED TO: 424186
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR EAST HELENA NOV. 30, 1992 SOIL SAMPLE)
AUTHOR: MRAZ, MILAN/ASARCO
ADDRESSEE: TANGEN, LINDA/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1780 THRU: 581/1780
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424188 DATE: NOV. 30, 1992 (E) PAGE: 1
ATTACHED TO: 424186
TITLE: "TABLE OF CONTENTS HEDDLESTON REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS]"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/1781 THRU: 581/1781
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424189 DATE: FEB. 3, 1993 PAGE: 2
TITLE: (TRANSMITS ATTACHED 100 YEAR FLOODPLAIN DELINEATION MAP)
AUTHOR: LEAP, CYNTHIA S./GIBSON, DUNN AND CRUTCHER
ADDRESSEE: BOHAN, SUZANNE J./EPA
CC: BROWN * SPICKELMIER * NICKEL * HART
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1782 THRU: 581/1784
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424190 DATE: FEB. 5, 1993 PAGE: 2
TITLE: (COMMENTS CONCERNING ASARCO PROPOSALS FOR 1993)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: PIZZINI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1785 THRU: 581/1786
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424191 DATE: FEB. 10, 1993 PAGE: 12
TITLE: "RESIDENTIAL SOILS REMOVAL ACTION WILSON DITCH WORK PLAN FOR REMOVAL AND REPLACEMENT OF SOILS EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM TEST TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 581/1787 THRU: 581/1799
KEYWORD(S): ARSENIC * LEAD * SOIL * SEDIMENTS
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424192 DATE: FEB. 17, 1993 PAGE: 2
TITLE: (ADDITIONAL COMMENTS CONCERNING ASARCO WORK PLAN FOR WILSON DITCH; REVISED FEB. 25, 1993)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1800 THRU: 581/1801
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424193 DATE: FEB. 18, 1993 PAGE: 1
TITLE: (STATES TOTAL AMOUNT OF SOIL REMOVED FOR 1992 WORKING SEASON WAS 31,823 CUBIC YARDS)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1802 THRU: 581/1802
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424194 DATE: FEB. 24, 1993 PAGE: 3
TITLE: (DISCUSSES CONTROL LIMITS FOR VALIDATION OF SOIL XRF DATA AND CONTROL LIMITS FOR LABORATORY QUALITY CONTROL)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS * MASON, SCOTT/HYDROMETRICS
ADDRESSEE: NEUMAN, DENNIS/MSU
CC: BROWN * QUINONES * BLUCK * SPICKELMIER * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1803 THRU: 581/1805
KEYWORD(S): ARSENIC * SOIL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424199 DATE: MAR. 1, 1993 PAGE: 2
TITLE: (REVIEW COMMENTS ON WORK PLAN FOR WILSON DITCH REMEDIATION)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * HILLERY * QUINONES * BLUCK * SELSER * SPICKELMIER * WING * TEST
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1806 THRU: 581/1807
KEYWORD(S): ARSENIC * LEAD * SOIL * SEDIMENTS
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424200 DATE: MAR. 1, 1993 PAGE: 16
TITLE: DRAFT PROPOSED "RESIDENTIAL SOILS REMOVAL ACTION 1993 WORK PLAN FOR EXCAVATION AND REMOVAL OF RESIDENTIAL SOILS EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM TEST TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 581/1808 THRU: 581/1825
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424201 DATE: MAR. 4, 1993 PAGE: 1
TITLE: (EXPRESSES DESIRE TO WITHHOLD COMMENTS ON WORK PLAN FOR WILSON DITCH REMEDIATION UNTIL MORE COMPREHENSIVE ONE IS RECEIVED)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1826 THRU: 581/1826
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424202 DATE: MAR. 10, 1993 PAGE: 48
TITLE: "RESIDENTIAL SOILS REMOVAL ACTION WILSON DITCH WORK PLAN FOR REMOVAL AND REPLACEMENT OF SOILS EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM TEST TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 581/1827 THRU: 581/1875
KEYWORD(S): SILVER * ARSENIC * CADMIUM * CHROMIUM * COPPER * IRON * MERCURY * MANGANESE * LEAD * SELENIUM * TIN * THALLIUM * ZINC * SOIL * SEDIMENTS * SURFACE WATER * SOIL REMOVAL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424203 DATE: MAR. 16, 1993 PAGE: 2
TITLE: REVIEW OF HYDROMETRICS MAR. 10, 1993 REVISED WILSON DITCH WORK PLAN FOR REMOVAL AND REPLACEMENT OF SOILS, EAST HELENA MT)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/1876 THRU: 581/1877
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424204 DATE: MAR. 17, 1993 PAGE: 2
TITLE: (RESPONSE TO REVISED WORK PLAN FOR WILSON DITCH; APPROVED WITH CONDITIONS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * BLUCK * HILLERY * QUINONES * SELSER * WING * TEST
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/1878 THRU: 581/1879
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424366 DATE: MAR. 1, 1993 PAGE: 205
TITLE: "ASARCO EAST HELENA RESIDENTIAL SOILS DATA VALIDATION SUMMARY FOR XRF (X-RAY FLUORESCENCE) SOIL DATA 1992"
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY A./(ASARCO)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/1880 THRU: 581/2084
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424367 DATE: MAR. 17, 1993 PAGE: 2
TITLE: (FINAL COMMENTS AND CONDITIONS FOR APPROVING WORK ON WILSON DITCH)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: PIZZINI * BOHAN * BLUCK * HILLERY * QUINONES * SELSER * WING * TEST
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/2085 THRU: 581/2086
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424368 DATE: MAR. 19, 1993 PAGE: 4
TITLE: (RESPONSE CONCERNING ASARCO PROPOSAL FOR 1993 CONSTRUCTION ACTIVITIES; RESIDENTIAL SOILS REMOVAL ACTION)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
CC: PIZZINI * BOHAN * HILLERY * BLUCK * QUINONES * MADDEN * SELSER * NICKEL * WING * MILLER * STIPICH * STIFFLER * BENIGER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/2087 THRU: 581/2090
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424369 DATE: MAR. 23, 1993 PAGE: 1
TITLE: (REQUEST BY ASARCO CONTRACTOR TO MODIFY ARCHIVES PROCEDURES)
AUTHOR: TEST, PETE/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: NICKEL * SPICKELMIER * QUINONES * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/2091 THRU: 581/2091
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424370 DATE: MAR. 24, 1993 PAGE: 1
TITLE: (NOTICE OF FIRST BIWEEKLY MEETING FOR 1993)
AUTHOR: DAVIS, DON/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BOTZ * WING * MILLER * BLOCK * BROX * LANG * SPICKELMIER * NICKEL * LITLE * BLUCK * QUINOES (QUINONES) * BENIGER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/2092 THRU: 581/2092
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424371 DATE: MAR. 24, 1993 PAGE: 12
TITLE: (STATISTICAL REPORT FOR 1 IN 50 CONFIRMATION SAMPLES FOR 1992 WORK SEASON)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: SPICKELMIER * NICKEL * MILLER * WING * QUIONES (QUINONES) * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/2093 THRU: 581/2104
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424372 DATE: APR. 2, 1993 PAGE: 29
TITLE: DRAFT "EAST HELENA RESIDENTIAL SOILS DETERMINATION OF MEAN LEAD CONCENTRATIONS IN EXCAVATED SOILS FOCUSED FEASIBILITY STUDY [FS] ON THE LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS" (ATTACHED TRANSMITTAL FROM BLOCK TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/2105 THRU: 581/2134
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 06

FILE: 4070200 DOCNO: 424556 DATE: 1992(E) PAGE: 11
TITLE: (INCOMPLETE PRELIMINARY RESULTS OF SOIL SAMPLING IN LA CASA GRANDE SUBDIVISION)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 627/0624 THRU: 627/0645
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424557 DATE: 1991 (E) PAGE: 2
TITLE: (ASARCO SOIL SAMPLING ACCESS AGREEMENT FOR EAST HELENA RESIDENTS)
AUTHOR: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 627/0646 THRU: 627/0647
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424558 DATE: MAY 13, 1993(E) PAGE: 1
TITLE: (SECTOR STATISTICS EXERCISE)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 627/0648 THRU: 627/0649
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424559 DATE: 1992 (E) PAGE: 2
TITLE: (NEWSLETTER TO RESIDENTS OF AREA 2 MILES NORTH OF EAST HELENA NEAR CANYON FERRY ROAD CONCERNING ARSENIC AND METALS IN ABANDONED DITCHES)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1100000
MICROFILM ROLL/FRAME NO.: 627/0650 THRU: 627/0651
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424560 DATE: OCT. 28, 1992 PAGE: 12
TITLE: (RESPONSE CONCERNING XRF CALIBRATION AND QAPP ISSUES)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * NICKEL * QUIONES (QUINONES) * MILLER * WING
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/0652 THRU: 627/0663
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424561 DATE: JAN. 12, 1993 PAGE: 7
TITLE: (RESPONSE TO DEC. 8, 1992 LETTER AND DEC. 10 , 1992 MEETING CONCERNING PLANS FOR 1993; ATTACHED SAMPLING RESULTS FROM NOV. 2, 1992)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: PIZZINI * SELSER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/0664 THRU: 627/0670
KEYWORD(S): LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424562 DATE: MAR. 1993 PAGE: 224
TITLE: "ASARCO EAST HELENA RESIDENTIAL SOILS DATA VALIDATION SUMMARY FOR XRF (X-RAY FLUORESCENCE) SOIL DATA 1992" (FINAL REVISION JUL. 7, 1993; ATTACHED TRANSMITTAL FROM MILLER AND MASON)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/0671 THRU: 627/0894
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424563 DATE: MAR. 1, 1993 PAGE: 206
TITLE: "ASARCO EAST HELENA RESIDENTIAL SOILS DATA VALIDATION SUMMARY FOR XRF (X-RAY FLUORESCENCE) SOIL DATA 1992" (ATTACHED TRANSMITTAL FROM MILLER)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/0895 THRU: 627/1100
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424564 DATE: MAR. 4, 1993 PAGE: 1
ATTACHED DOC(S): 424565 THRU: 424567
TITLE: (TRANSMITS DATA PACKAGE TO REPLACE FABBI REPORT OF NOV. 13, 1992)
AUTHOR: KELLER, VINCENT P./ASARCO
ADDRESSEE: TANGEN, LINDA/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA * FABBI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1101 THRU: 627/1101
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424565 DATE: MAR. 1993 (E) PAGE: 1
ATTACHED TO: 424564
TITLE: "TABLE OF CONTENTS ASARCO EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS] SOILS"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/1102 THRU: 627/1102
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424566 DATE: FEB. 9, 1993 PAGE: 1
ATTACHED TO: 424564
TITLE: (TRANSMITS DATA PACKAGE FOR 233 SOIL SAMPLES)
AUTHOR: MRAZ, MILAN/ASARCO
ADDRESSEE: TEST, PETE/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1103 THRU: 627/1103
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424567 DATE: FEB. 1993 (E) PAGE: 1
ATTACHED TO: 424564
TITLE: "TABLE OF CONTENTS ASARCO EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS]"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/1104 THRU: 627/1104
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424568 DATE: MAR. 19, 1992 PAGE: 9
TITLE: "SECTOR STATISTICS FOR DETERMINING EXTENT OF SOIL SAMPLING"
AUTHOR: LUTCHER, LARRY
ADDRESSEE: MILLER, BOB
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 627/1105 THRU: 627/1113
KEYWORD(S): LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424569 DATE: APR. 7, 1993 PAGE: 13
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR MAR. 28 - APR. 3, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BOTZ * BLUCK * HART * LEAP * LITLE * MILLER * NICKEL * QUINONES * SPICKELMIER * ROBBINS * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES//DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1114 THRU: 627/1126
KEYWORD(S): LEAD * ARSENIC * CADMIUM
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424570 DATE: APR. 12, 1993 PAGE: 1
ATTACHED DOC(S): 424571 THRU: 424577
TITLE: (DISCUSSES REVIEW COMMENTS BY MSU COPIED AND GIVEN TO HYDROMETRICS APR. 8, 1993)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1127 THRU: 627/1127
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424571 DATE: APR. 5, 1993 PAGE: 4
ATTACHED TO: 424570
TITLE: (REVIEW OF "ASARCO EAST HELENA RESIDENTIAL SOILS DATA VALIDATION SUMMARY FOR XRF SOIL DATA 1992")
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1128 THRU: 627/1131
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424572 DATE: MAR. 31, 1993 PAGE: 5
ATTACHED TO: 424570
TITLE: REVIEW OF 1/50 HF/XRF CONFIRMATIONAL DATA
AUTHOR: NEUMAN, D. (DENNIS) R./MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1132 THRU: 627/1136
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424573 DATE: MAR. 29, 1993 PAGE: 4
ATTACHED TO: 424570
TITLE: (TECHNICAL MEMORANDUM DISCUSSING WORK PLAN FOR FOCUSED FS ON LOCATION AND METHOD OF DISPOSAL)
AUTHOR: DOLLHOPF, D. J./MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1137 THRU: 627/1140
KEYWORD(S): LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424574 DATE: APR. 5, 1993 PAGE: 2
ATTACHED TO: 424570
TITLE: (TECHNICAL REVIEW COMMENTS ON GEOSTATISTICS AND TILLAGE CONCENTRATIONS REPORTS)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1141 THRU: 627/1142
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424575 DATE: APR. 16, 1993 PAGE: 2
ATTACHED TO: 424570
TITLE: (ADDITIONAL REVIEW COMMENTS ON DOCUMENTS REGARDING FOCUSED FS AND EAST FIELDS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1143 THRU: 627/1144
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424576 DATE: APR. 15, 1993 PAGE: 1
ATTACHED TO: 424570
TITLE: (TECHNICAL REVIEW FFS EVALUATION OF AS, CD, PB AND ZN MOBILITY IN EAST FIELDS SOIL)
AUTHOR: DOLLHOPF, DOUG/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1145 THRU: 627/1145
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424577 DATE: APR. 15, 1993 PAGE: 2
ATTACHED TO: 424570
TITLE: TECHNICAL REVIEW FFS EAST HELENA RESIDENTIAL SOILS, DETERMINATION OF MEAN PB CONCENTRATIONS IN EXCAVATED SOILS
AUTHOR: DOLLHOPF, DOUG/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1146 THRU: 627/1147
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424578 DATE: APR. 14, 1993 PAGE: 17
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR APR. 4-10, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BOTZ * BLUCK * HART * LEAP * LITLE * MILLER * NICKEL * QUINOES (QUINONES) * ROBBINS * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1148 THRU: 627/1164
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424579 DATE: APR. 15, 1993 PAGE: 4
TITLE: (SUMMARY AND WEEKLY CONSTRUCTION REPORT FOR PROCESS PONDS DEMOLITION AND NEW CONSTRUCTION UNITS)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * PITTINGER * SHEW * (SPICKELMIER) * QUINONES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1165 THRU: 627/1168
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424580 DATE: APR. 22, 1993 PAGE: 23
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR APR. 11-17, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BOTZ * BLUCK * HART * LEAP * LITLE * MILLER * NICKEL * QUINOES (QUINONES) * ROBBINS * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1169 THRU: 627/1191
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424581 DATE: APR. 28, 1993 PAGE: 17
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR APR. 18-24, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BOTZ * BLUCK * HART * LEAP * LITLE * MILLER * NICKEL * QUINOES (QUINONES) * ROBBINS * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1192 THRU: 627/1208
KEYWORD(S): LEAD * SOIL * ARSENIC * CADMIUM
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424582 DATE: MAY 5, 1993 PAGE: 24
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR APR. 25 - MAY 1, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BOTZ * BLUCK * HART * LEAP * LITLE * MILLER * NICKEL * QUINOES (QUINONES) * ROBBINS * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1209 THRU: 627/1232
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424583 DATE: MAY 5, 1993 PAGE: 24
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR MAY 2-8, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BOTZ * BLUCK * HART * LEAP * LITLE * MILLER * NICKEL * QUINOES (QUINONES) * ROBBINS * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1233 THRU: 627/1256
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424584 DATE: MAY 20, 1993 PAGE: 37
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR MAY 9-15, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BOTZ * BLUCK * HART * LEAP * LITLE * MILLER * NICKEL * QUINOES (QUINONES) * ROBBINS * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1257 THRU: 627/1293
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424585 DATE: MAY 7, 1993 PAGE: 12
TITLE: (TRANSMITS ATTACHED LIST OF 1993 PRIORITY YARDS)
AUTHOR: DAVIS, DON/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: WING * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1294 THRU: 627/1305
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424590 DATE: MAY 13, 1993 PAGE: 2
ATTACHED DOC(S): 424591
TITLE: (OVERSIGHT STATUS REPORT FOR APR. 26 - MAY 7, 1993)
AUTHOR: BLUCK, BILL/CH2M HILL * FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1325 THRU: 627/1326
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424591 DATE: APR. 30, 1993 PAGE: 1
ATTACHED TO: 424590
TITLE: (OVERSIGHT STATUS REPORT FOR MAR. 31 - APR. 23, 1993)
AUTHOR: BLUCK, BILL/CH2M HILL * FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1327 THRU: 627/1327
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424592 DATE: MAY 18, 1993 PAGE: 1
TITLE: (RESULTS OF XRF ANALYZED BLIND FIELD SAMPLES FROM CH2M HILL AND REQUEST FOR COMMENTS)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: BLUCK, BILL/CH2M HILL
CC: SPICKELMIER * MILLER * WING
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1328 THRU: 627/1328
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424593 DATE: MAY 21, 1993 PAGE: 2
TITLE: (LISTS CHANGES BEING MADE IN XRF DATA VALIDATION SUMMARY REPORT)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS * MASON, SCOTT/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * NEUMAN * NICKEL * QUINONES * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1329 THRU: 627/1330
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424594 DATE: MAY 24, 1993 PAGE: 3
TITLE: (DISCUSSES USE OF ASPHALT IN ZANE GRAY EXCAVATED DRIVEWAY; ATTACHED SITE PLANS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: GRAY, ZANE
CC: PIZZINI * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1331 THRU: 627/1333
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424595 DATE: MAY 26, 1993 PAGE: 26
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR MAY 16-22, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BOTZ * BLUCK * HART * LEAP * LITLE * MILLER * NICKEL * QUINOES (QUINONES) * ROBBINS * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1334 THRU: 627/1359
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424596 DATE: JUN. 1993 PAGE: 39
TITLE: DRAFT "RESIDENTIAL SOILS REMOVAL ACTION EAST HELENA RESIDENTIAL REPLACEMENT TOPSOIL REPORT EAST HELENA, MONTANA ASARCO/EPA" (ATTACHED TRANSMITTAL FROM TEST)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * DRAFT * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/1360 THRU: 627/1399
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424597 DATE: JUN. 7, 1993 PAGE: 2
TITLE: (DISCUSSES PROPOSED REVIEW AND COMPILATION OF STATISTICS CONCERNING BLOOD LEAD, HOUSE DUST AND SOIL LEAD DATA)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: QUINONES * SPICKELMIER * NICKEL * TSUJI * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1400 THRU: 627/1401
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424598 DATE: JUN. 9, 1993(E) PAGE: 23
TITLE: (CONFIRMATION SOIL SAMPLING PRELIMINARY DATA)
AUTHOR: /CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 627/1402 THRU: 627/1424
KEYWORD(S): LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424599 DATE: JUN. 9, 1993 PAGE: 51
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR MAY 31, - JUN. 5, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BOTZ * BLUCK * HART * LEAP * LITLE * MILLER * NICKEL * QUINOES (QUINONES) * ROBBINS * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1425 THRU: 627/1475
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424600 DATE: JUN. 19, 1993 PAGE: 5
TITLE: (EAST HELENA SOILS REMOVAL STATUS REPORT JUL. 17 - AUG. 13, 1993; DISCUSSES GARDEN SAMPLING BY HYDROMETRICS)
AUTHOR: BLUCK, BILL/CH2M HILL * FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1476 THRU: 627/1480
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424601 DATE: JUL. 15, 1993 PAGE: 13
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR JUL. 4-10, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * HEATH * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1481 THRU: 627/1493
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424602 DATE: JUL. 20, 1993 PAGE: 2
ATTACHED DOC(S): 424603
TITLE: (NOTICE OF VIOLATION OF MONTANA UNDERGROUND STORAGE TANK RULES)
AUTHOR: BLAZICEVICH, THERESA J./MDHES
ADDRESSEE: UTICK, ANDREW J. * UTICK, ROBERT S.
CC: DRAKE * REID * RILEY * NOBLE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1494 THRU: 627/1495
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424603 DATE: AUG. 24, 1993 PAGE: 3
ATTACHED TO: 424602
TITLE: (TRANSMITS DOCUMENTS FOR CLOSURE OF UNDERGROUND STORAGE TANKS; ATTACHED PERMIT)
AUTHOR: MCANALLY, SUSAN/MDHES
ADDRESSEE: UTICK, ROBERT S.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1496 THRU: 627/1498
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424605 DATE: JUL. 22, 1993 PAGE: 2
TITLE: (OVERSIGHT REPORT EAST HELENA SOILS REMOVAL JUL. 3-16, 1993)
AUTHOR: BLUCK, BILL/CH2M HILL * FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1499 THRU: 627/1500
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424606 DATE: JUL. 22, 1993 PAGE: 27
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR JUL. 11-17, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * HEATH * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1501 THRU: 627/1527
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424607 DATE: JUL. 29, 1993 PAGE: 48
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR JUL. 18-24, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * HEATH * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1528 THRU: 627/1575
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424608 DATE: AUG. 5, 1993 PAGE: 38
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR AUG. 25-31, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * HEATH * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1576 THRU: 627/1613
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424609 DATE: AUG. 5, 1993 PAGE: 15
TITLE: (PRELIMINARY FINAL REPORT ON SECTOR STATISTICS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 627/1614 THRU: 627/1628
KEYWORD(S): LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424610 DATE: AUG. 12, 1993 PAGE: 22
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR AUG. 1-7, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * HEATH * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1629 THRU: 627/1650
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424611 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED DOC(S): 424612 THRU: 424624
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BERNINGER, RALPH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1651 THRU: 627/1652
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424612 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: LUGO, JOE * LUGO, DOLA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1653 THRU: 627/1654
KEYWORD(S): ARSENIC * SOIL * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424613 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: STRATTON, HOWARD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1655 THRU: 627/1656
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424614 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: LAMPING, DON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1657 THRU: 627/1658
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424615 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: ROOPER, G.
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1659 THRU: 627/1660
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424616 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: LIPES, JASON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1661 THRU: 627/1662
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424617 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: LEWIS, DEBBIE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1663 THRU: 627/1664
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424618 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: PENTECOST, KERRI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1665 THRU: 627/1666
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424619 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: ANDERSON, ROGER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1667 THRU: 627/1668
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424620 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: NYMAN, MESIA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1669 THRU: 627/1670
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424621 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: AGTARAP, DARVA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1671 THRU: 627/1672
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424622 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: ALDRIDGE, DONNA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1673 THRU: 627/1674
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424623 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: WADDINGTON, VERNA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1675 THRU: 627/1676
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424624 DATE: AUG. 17, 1993 PAGE: 2
ATTACHED TO: 424611
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BAKER, EARL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1677 THRU: 627/1678
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424625 DATE: AUG. 18, 1993 PAGE: 1
ATTACHED DOC(S): 424626
TITLE: (TRANSMITS REVIEW OF REVISED "ASARCO EAST HELENA RESIDENTIAL SOILS DATA VALIDATION SUMMARY FOR XRF SOIL DATA 1992")
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1679 THRU: 627/1679
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424626 DATE: AUG. 13, 1993 PAGE: 2
ATTACHED TO: 424625
TITLE: (REVIEW OF REVISED "ASARCO EAST HELENA RESIDENTIAL SOILS DATA VALIDATION SUMMARY FOR XRF SOIL DATA 1992")
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1680 THRU: 627/1681
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424627 DATE: AUG. 19, 1993 PAGE: 29
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR AUG. 8-14, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * HEATH * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1682 THRU: 627/1710
KEYWORD(S): LEAD * ARSENIC * CADMIUM * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424628 DATE: AUG. 19, 1993 PAGE: 29
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR AUG. 8-14, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * HEATH * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1711 THRU: 627/1739
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424629 DATE: AUG. 19, 1993 PAGE: 2
TITLE: (DISCUSSES AND TRANSMITS ADDITIONAL SURFACE SOIL SAMPLE RESULTS COLLECTED IN AND ABOUT HIDDEN HOLLOW TRAILER COURT JUL. 13, 1993)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1740 THRU: 627/1741
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424630 DATE: AUG. 20, 1993 PAGE: 5
TITLE: (SAMPLE RESULTS FOR TRERISE ROAD, GRANDVIEW ROAD AND AREAS 2 MILES NORTH OF EAST HELENA)
AUTHOR: TANGEN, (LINDA)/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 627/1742 THRU: 627/1746
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424632 DATE: AUG. 26, 1993 PAGE: 2
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: LUGO, JOE * LUGO, DOLA
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1747 THRU: 627/1748
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424633 DATE: AUG. 26, 1993 PAGE: 2
TITLE: (SUMMARY OF SAMPLE RESULTS OF SURFACE SOIL COLLECTED FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: SMITH, HELEN M.
CC: MOTL * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1749 THRU: 627/1750
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424634 DATE: AUG. 26, 1993 PAGE: 46
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR AUG. 15-21, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1751 THRU: 627/1796
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424636 DATE: SEP. 2, 1993 PAGE: 2
TITLE: (RESPONSE TO PHONE CALL CONCERNING SAMPLES COLLECTED FROM YARD; ATTACHED SKETCH SHOWING SAMPLE LOCATIONS)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BERNINGER, RALPH
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1797 THRU: 627/1798
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424637 DATE: SEP. 2, 1993 PAGE: 2
TITLE: (EAST HELENA SOILS REMOVAL STATUS REPORT AUG. 14-27, 1993)
AUTHOR: BLUCK, BILL/CH2M HILL * FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1799 THRU: 627/1800
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424638 DATE: SEP. 9, 1993 PAGE: 10
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR AUG. 29-SEP. 4, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1801 THRU: 627/1810
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424639 DATE: SEP. 16, 1993 PAGE: 18
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT RESIDENTIAL SOILS REMOVAL FOR AUG. 5 - SEP. 11, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1811 THRU: 627/1828
KEYWORD(S): ARSENIC * LEAD * CADMIUM * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424640 DATE: SEP. 16, 1993 PAGE: 2
TITLE: (OVERSIGHT REPORT ON REMOVAL ACTIVITIES AUG. 28 - SEP. 10, 1993)
AUTHOR: BLUCK, BILL/CH2M HILL * FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1829 THRU: 627/1830
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424641 DATE: SEP. 23, 1993 PAGE: 12
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION SEP. 12-18, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BLUCK * HART * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1831 THRU: 627/1842
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424642 DATE: SEP. 25, 1993(E) PAGE: 34
TITLE: (ASARCO EAST HELENA RESIDENTIAL SOILS REMOVAL WEEKLY CONSTRUCTION SUMMARY WEEK ENDING SEP. 25, 1993)
AUTHOR: TIMM, ADOLPH/HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/1843 THRU: 627/1876
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424643 DATE: SEP. 30, 1993 PAGE: 2
TITLE: (STATUS REPORT FOR EAST HELENA SOILS REMOVAL SEP. 11-24, 1993)
AUTHOR: BLUCK, BILL/CH2M HILL * FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1877 THRU: 627/1878
KEYWORD(S): LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424644 DATE: SEP. 30, 1993 PAGE: 14
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION SEP. 19-25, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1879 THRU: 627/1892
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424645 DATE: OCT. 1993 PAGE: 38
TITLE: "RESIDENTIAL SOILS REMOVAL ACTION EAST HELENA RESIDENTIAL REPLACEMENT TOPSOIL REPORT EAST HELENA, MONTANA ASARCO/EPA" (ATTACHED TRANSMITTAL FROM TEST)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/1893 THRU: 627/1931
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424646 DATE: OCT. 14, 1993 PAGE: 2
TITLE: (STATUS REPORT FOR EAST HELENA SOILS REMOVAL SEP. 25 - OCT. 8, 1993)
AUTHOR: BLUCK, BILL/CH2M HILL * FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 627/1932 THRU: 627/1933
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424647 DATE: OCT. 14, 1993 PAGE: 1
TITLE: (STATES APPRECIATION FOR USE OF DOCUMENTS IN INFORMATION SEARCH REGARDING COFFEYVILLE, KS SOIL REMOVAL PROGRAM)
AUTHOR: CAPICHIONI, MARY LOU/SHERWIN-WILLIAMS
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1934 THRU: 627/1934
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424648 DATE: OCT. 14, 1993 PAGE: 17
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION OCT. 3-9, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1935 THRU: 627/1951
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424649 DATE: OCT. 21, 1993 PAGE: 15
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION OCT. 10-16, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/1952 THRU: 627/1966
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070200 DOCNO: 424800 DATE: SEP. 1, 1993 PAGE: 26
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT AUG. 22-28, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * LEAP * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0495 THRU: 669/0520
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424801 DATE: OCT. 28, 1993 PAGE: 16
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION OCT. 17-23, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0521 THRU: 669/0536
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424802 DATE: NOV. 4, 1993 PAGE: 34
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION OCT. 24-30, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER * STIFFLER * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0537 THRU: 669/0570
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424803 DATE: NOV. 9, 1993 PAGE: 2
TITLE: EAST HELENA SOIL REMOVAL ACTION INTERIM STATUS REPORT
AUTHOR: FISCHER, DEANNE/CH2M HILL * BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 669/0571 THRU: 669/0572
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424804 DATE: NOV. 18, 1993 PAGE: 6
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION NOV. 7-13, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER * STIFFLER * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0573 THRU: 669/0578
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424805 DATE: NOV. 22, 1993 PAGE: 41
TITLE: (CONFIRMATION SOIL SAMPLING RESULTS INTERIM REPORT)
AUTHOR: FISCHER, DEANNE/CH2M HILL * BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 669/0579 THRU: 669/0619
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424806 DATE: NOV. 23, 1993 PAGE: 6
TITLE: EAST HELENA RESIDENTIAL SOIL REMOVAL END OF YEAR REPORT
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 669/0620 THRU: 669/0625
KEYWORD(S): ARSENIC * CADMIUM * LEAD * AIR
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424807 DATE: NOV. 23, 1993 PAGE: 3
TITLE: (TRANSMITS ATTACHED XRF ANALYTICAL RESULTS FOR SOIL SAMPLES TAKEN OCT. 28 AND NOV. 8, 1993)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * LASKOWSKI * SPICKELMIER * MILLER * WING * TEST
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0626 THRU: 669/0628
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424808 DATE: NOV. 24, 1993 PAGE: 11
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT NOV. 14-20, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * NICKEL * SPICKELMIER * STIFFLER * LITLE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0629 THRU: 669/0639
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424809 DATE: NOV. 30, 1993 PAGE: 32
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT NOV. 21-27, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0640 THRU: 669/0671
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424810 DATE: DEC. 9, 1993 PAGE: 6
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL NOV. 28 - DEC. 4, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0672 THRU: 669/0677
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424811 DATE: DEC. 20, 1993 PAGE: 1
TITLE: (LISTS RESIDENCES WHERE CONFIRMATION SAMPLING WAS COMPLETED IN 1991 BY HYDROMETRICS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 669/0678 THRU: 669/0678
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424812 DATE: DEC. 16, 1993 PAGE: 2
TITLE: (RESPONSE TO OCT. 6, 1993 LETTER CONCERNING AOC MODIFICATIONS PROPOSED FOR 1994 CONSTRUCTION SEASON)
AUTHOR: BOHAN, SUZANNE J./EPA
ADDRESSEE: PHILLIPS, PAUL/HOLLAND AND HART
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0679 THRU: 669/0680
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424813 DATE: DEC. 17, 1993 PAGE: 2
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL DEC. 5-11, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0681 THRU: 669/0682
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424814 DATE: DEC. 20, 1993 PAGE: 1
TITLE: (DISCUSSES DISPOSING OF "INITIAL RESIDENTIAL SOIL" SAMPLES TAKEN IN 1991)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: WING * TEST * MILLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0683 THRU: 669/0683
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424815 DATE: JAN. 7, 1994 PAGE: 2
TITLE: (REQUESTS CANCELLATION OF TAG GRANT; DISCUSSES RELATIONSHIP WITH EPA)
AUTHOR: STIFFLER, JAMES G./EHCAC/C
ADDRESSEE: GOODSELL, (BEVERLY)/EPA
CC: /MONTANA CONGRESSIONAL DELEGATION * /EPA REGIONAL ADMINISTRATOR * /MDHES * RACICOT * BROWN * (HILLERY) * (WARDELL)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0684 THRU: 669/0685
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424816 DATE: DEC. 23, 1993 PAGE: 33
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR DEC. 12-18, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/0686 THRU: 669/0718
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424821 DATE: FEB. 28, 1994 PAGE: 19
TITLE: (RESIDENTIAL PRESOIL SAMPLING SUMMARY; LISTS YARDS WITH SOILS BETWEEN 500 AND 1000 PPM)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 669/1594 THRU: 669/1612
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424822 DATE: FEB. 28, 1994 PAGE: 1
ATTACHED DOC(S): 424823
TITLE: (TRANSMITS EAST HELENA RESIDENTIAL SOIL SUMMARY OF RESIDENTIAL AND BUSINESS SITES WITH LEAD LEVELS GREATER THAN 500 PPM)
AUTHOR: WING, THOMAS/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/1613 THRU: 669/1613
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 424823 DATE: FEB. 24, 1994 PAGE: 1
ATTACHED TO: 424822
TITLE: SAMPLING SUMMARY OF EAST HELENA RESIDENTIAL AND BUSINESS SITES
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: WING, TOM/HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 669/1614 THRU: 669/1614
KEYWORD(S): LEAD
NOTES: UPDATE 08

FILE: 4070200 DOCNO: 425880 DATE: 1993 PAGE: 445
TITLE: "EAST HELENA RESIDENTIAL SOILS REMOVAL ACTION 1993 YEAR END REPORT EAST HELENA, MONTANA VOL. 2" (ATTACHED TRANSMITTAL FROM TEST)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/1355 THRU: 737/1799
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425881 DATE: SEP. 7, 1993 PAGE: 1
TITLE: (REVIEW COMMENTS ON EAST HELENA RESIDENTIAL REPLACEMENT TOPSOIL REPORT)
AUTHOR: NEUMAN, DENNIS/MSU * DOLLHOPF, DOUG/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/1800 THRU: 737/1800
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425882 DATE: SEP. 13, 1993 PAGE: 2
ATTACHED DOC(S): 425883 THRU: 425885
TITLE: (FOLLOW-UP OF SEP. 9, 1993 MEETING REGARDING SECTOR STATISTICS AND TOPSOIL REPLACEMENT)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/1801 THRU: 737/1802
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425883 DATE: SEP. 7, 1993 PAGE: 5
ATTACHED TO: 425882
TITLE: (REVIEW COMMENTS ON DRAFT EAST HELENA RESIDENTIAL SOILS SECTOR SUMMARY)
AUTHOR: NEUMAN, DENNIS/MSU * DOLLHOPF, DOUG/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/1803 THRU: 737/1807
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425884 DATE: SEP. 7, 1993 PAGE: 1
ATTACHED TO: 425882
TITLE: (REVIEW COMMENTS ON EAST HELENA RESIDENTIAL REPLACEMENT TOPSOIL REPORT)
AUTHOR: NEUMAN, DENNIS/MSU * DOLLHOPF, DOUG/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/1808 THRU: 737/1808
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425885 DATE: SEP. 10, 1993 PAGE: 1
ATTACHED TO: 425882
TITLE: (DISCUSSES TREATMENT REQUIREMENTS OF AMENDING SODIC SOILS)
AUTHOR: DOLLHOPF, DOUGLAS J./MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1809 THRU: 737/1809
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425886 DATE: SEP. 28, 1993 PAGE: 8
TITLE: ("SPECIAL SITES IDENTIFIED"; GIVES LEAD LEVEL SAMPLE RESULTS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 737/1810 THRU: 737/1817
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425887 DATE: OCT. 6, 1993 PAGE: 4
TITLE: (TRANSMITS FOR REVIEW ATTACHED UNSIGNED AOC CERCLA VIII-91-17 ASARCO PROPOSED MODIFICATIONS FOR 1994)
AUTHOR: SPICKELMIER, JAY/ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BOHAN * PHILLIPS * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1818 THRU: 737/1821
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425888 DATE: NOV. 11, 1993 PAGE: 14
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION OCT. 31 - NOV. 6, 1993)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/1822 THRU: 737/1835
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425889 DATE: NOV. 22, 1993 PAGE: 41
TITLE: (REVIEW COMMENTS ON EAST HELENA SOIL REMOVAL CONFIRMATION SOIL SAMPLING INTERIM REPORT)
AUTHOR: FISCHER, DEANNE/CH2M HILL * BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/1836 THRU: 737/1876
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425890 DATE: DEC. 8, 1993 PAGE: 6
TITLE: (DISCUSSES CONFIRMATORY RESIDENTIAL SOIL SAMPLES FROM NOV. 1993)
AUTHOR: DOLLHOPF, D. (DOUG) J./MSU * NEUMAN, D. (DENNIS) R./MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * DRAFT * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/1877 THRU: 737/1882
KEYWORD(S): SOIL * LEAD
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425892 DATE: FEB. 1994 PAGE: 88
TITLE: "1994 WORK PLAN FOR EXCAVATION AND REMOVAL OF RESIDENTIAL SOILS EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM TEST)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 737/1883 THRU: 737/1972
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425893 DATE: MAR. 1994 PAGE: 136
TITLE: "ASARCO EAST HELENA RESIDENTIAL SOILS DATA VALIDATION SUMMARY FOR XRF (X-RAY FLUORESCENCE) SOIL DATA 1993" (ATTACHED TRANSMITTAL FROM BRIDGE)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/1973 THRU: 737/2108
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL * ZINC
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425894 DATE: MAR. 1994 PAGE: 29
TITLE: DRAFT "XRF (X-RAY FLUORESCENCE) CALIBRATION FOR EAST HELENA RESIDENTIAL SOILS BY HYDROMETRICS' SOIL LABORATORY EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM TANGEN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/2109 THRU: 737/2137
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425895 DATE: MAR. 1994 PAGE: 102
TITLE: "VALIDATION SUMMARY OF ARSENIC, CADMIUM AND LEAD DATA FOR REPLACEMENT SOILS ASARCO EAST HELENA RESIDENTIAL SOILS" (ATTACHED TRANSMITTAL FROM BRIDGE)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKLEMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 737/2138 THRU: 737/2239
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425896 DATE: MAR. 29, 1994 PAGE: 1
TITLE: (REVIEW COMMENTS ON FEB. 14, 1994 MEMO "ANALYTICAL RESULTS FOR WILSON DITCH STOCKPILE SOILS")
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/2240 THRU: 737/2240
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425897 DATE: APR. 4, 1994 PAGE: 3
TITLE: (REVIEW COMMENTS ON "1994 WORK PLAN FOR EXCAVATION AND REMOVAL OF RESIDENTIAL SOILS")
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/2241 THRU: 737/2243
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425898 DATE: APR. 21, 1994 PAGE: 22
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION APR. 10-16, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 737/2244 THRU: 737/2265
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425899 DATE: APR. 22, 1994 PAGE: 1
ATTACHED DOC(S): 425900
TITLE: (REVIEW COMMENTS ON FEB. 1994 HYDROMETRICS 1993 YEAR END REPORT EAST HELENA RESIDENTIAL SOILS REMOVAL ACTION)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/2266 THRU: 737/2266
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425900 DATE: APR. 20, 1994 PAGE: 1
ATTACHED TO: 425899
TITLE: (REVIEW COMMENTS ON SECTION 2.4 OF HYDROMETRICS 1993 YEAR END REPORT FOR RESIDENTIAL SOILS REMOVAL ACTION)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/2267 THRU: 737/2267
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425901 DATE: APR. 25, 1994 PAGE: 1
ATTACHED DOC(S): 425902
TITLE: (REVIEW COMMENTS ON EAST HELENA RESIDENTIAL SOILS DATA VALIDATION SUMMARY FOR XRF SOIL DATA 1993)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/2268 THRU: 737/2268
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425902 DATE: APR. 18, 1994 PAGE: 2
ATTACHED TO: 425901
TITLE: (REVIEW OF "ASARCO EAST HELENA RESIDENTIAL SOILS DATA VALIDATION SUMMARY FOR XRF SOIL DATA 1993")
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 737/2269 THRU: 737/2270
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425904 DATE: MAR. 1993 PAGE: 194
TITLE: "ASARCO EAST HELENA RESIDENTIAL SOILS DATA VALIDATION SUMMARY FOR XRF (X-RAY FLUORESCENCE) SOIL DATA 1992" (REVISED JUL. 1993; ATTACHED TRANSMITTAL FROM BRIDGE)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 738/0015 THRU: 738/0208
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425905 DATE: APR. 28, 1994 PAGE: 22
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION APR. 17-23, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER * STIFFLER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0209 THRU: 738/0230
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425907 DATE: MAY 12, 1994 PAGE: 2
TITLE: (SAMPLING RESULTS FOR JEROME YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 738/0231 THRU: 738/0232
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425908 DATE: MAY 12, 1994 PAGE: 24
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAY 1-7, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0233 THRU: 738/0256
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425909 DATE: MAY 17, 1994 PAGE: 105
TITLE: (TRANSMITS ATTACHED RESULTS OF 1994 CONFIRMATION SOIL SAMPLING)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: MERGENTHALER, LLOYD * SCOTT, LEE * SCOTT, (PATTI) * HAGEN, REUBIN * BENSON, ROBERT * FANDRICH, DOUGLAS * MERGENTHALER, LESTER * MERGENTHALER, JUNE * PIETZ, MORRIS * PIETZ, BERTHA * WILSON, LINDA * WILSON, RICHARD * BILTOFT, TERRY * BILTOFT, DAROLD * TEST, PETE * TEST, JODY * HANNA, DONNA * TRANKEL, MAE * KOCHMAN, CONNIE * PIPPEN, BETTY * PIPPEN, NELSON * HARLOW, BRAD * HARLOW, SHERRY * BURK, RICHARD * BURK, MARY * KEILMAN, HAROLD * CHARLES, DWIGHT * CHARLES, GLORIA * SAUTER, JIM * EDDLEMON, DENNIS * REDMOND, DON * REDMOND, ALICE * JACKSON, JULIE * WEIKUM, GUS * RINGLE, CINDY * CAMPBELL, DARCY * BYERS, HELEN * LOCKLEY, LINDA * BARNARD, KEITH * SCHORZMAN, ED * WOODWARD, JEROME * ROUTZAHN, KEITH * EGAN, DEAN * EGAN, JANE * HOFFMAN, WARREN * HOFFMAN, TRACY * HAMEL, GARY * AMSTUTZ, LEVI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0257 THRU: 738/0361
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425910 DATE: MAY 18, 1994 PAGE: 9
TITLE: (TRANSMITS AND COMMENTS ON ATTACHED LIST OF HIGH PRIORITY RESIDENCES FOR EAST HELENA RESIDENTIAL SOIL REMOVAL ACTION; INCLUDES 1995 FIELD SEASON LIST)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
CC: PIZZINI * BOHAN * HILLERY * ZACKHEIM * SELSER * FISCHER * BLUCK * WING
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0362 THRU: 738/0370
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425911 DATE: MAY 18, 1994 PAGE: 2
TITLE: (COMMENTS ON AND TRANSMITS HIGH PRIORITY LIST FOR EAST HELENA RESIDENTIAL SOIL CLEANUP 1995 SEASON)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
CC: PIZZINI * BOHAN * HILLERY * ZACKHEIM * SELSER * FISCHER * BLUCK * WING
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0371 THRU: 738/0372
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425912 DATE: MAY 18, 1994 PAGE: 9
TITLE: (TRANSMITS AND COMMENTS ON ATTACHED LIST OF HIGH PRIORITY RESIDENCES FOR EAST HELENA RESIDENTIAL SOIL REMOVAL ACTION; INCLUDES 1995 FIELD SEASON LIST; WORK COPY)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
CC: PIZZINI * BOHAN * HILLERY * ZACKHEIM * SELSER * FISCHER * BLUCK * WING
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0373 THRU: 738/0381
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425913 DATE: MAY 19, 1994 PAGE: 24
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAY 8-14, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0382 THRU: 738/0405
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425914 DATE: MAY 23, 1994 PAGE: 27
TITLE: (TRANSMITS ATTACHED RESULTS OF 1994 CONFIRMATION SOIL SAMPLING)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: JOHNSON, ODEEN * SNELL, ROBIN * YURK, THOMAS * WETZEL, WAYNE * WETZEL, MARCIA * STOCKBURGER, JULIANNE * NEWMAN, MARVIN * KRAUSE, GEORGE * RABEY, WILLIAM * KENNY, BRIAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0406 THRU: 738/0432
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425915 DATE: MAY 26, 1994 PAGE: 23
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAY 15-21, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0433 THRU: 738/0455
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425917 DATE: JUN. 1994 PAGE: 39
TITLE: "VALIDATION SUMMARY OF 1992 XRF (X-RAY FLUORESCENCE) CONFIRMATION DATA, ASARCO EAST HELENA ASARCO, INC. EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM PETERSON)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J.A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 738/0456 THRU: 738/0494
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425918 DATE: JUN. 1994 PAGE: 68
TITLE: "VALIDATION SUMMARY OF 1993 XRF (X-RAY FLUORESCENCE) CONFIRMATION DATA, ASARCO EAST HELENA ASARCO, INC. EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM BRIDGE)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J.A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 738/0495 THRU: 738/0562
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425919 DATE: JUN. 1, 1994 PAGE: 15
TITLE: (COMMENTS ON 1994 CONFIRMATORY RESIDENTIAL SOIL LEAD SAMPLE RESULTS)
AUTHOR: /MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 738/0563 THRU: 738/0577
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425922 DATE: JUN. 2, 1994 PAGE: 17
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAY 22-28, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0578 THRU: 738/0594
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425923 DATE: JUN. 7, 1994 PAGE: 2
TITLE: (RESPONSE TO MAR. 25, 1994 LETTER FROM BROWN TO VARNER CONCERNING MULTIFACETED COMMUNITY PROTECTION PROGRAM)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: VARNER * HART * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0595 THRU: 738/0596
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425924 DATE: JUN. 7, 1994 PAGE: 2
TITLE: (RESPONSE TO MAY 18, 1994 LETTER CONCERNING HOUSEHOLDS WITH HIGH PRIORITY STATUS FOR SOIL REMOVAL IN 1995)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SPICKELMIER * NICKEL * HART
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0597 THRU: 738/0598
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425926 DATE: JUN. 9, 1994 PAGE: 24
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAY 29 - JUN. 4, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0599 THRU: 738/0622
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425927 DATE: JUN. 15, 1994 PAGE: 1
TITLE: (REVISED LIST OF QUADRANTS NOT TO BE REMEDIATED)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 738/0623 THRU: 738/0623
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425928 DATE: JUN. 16, 1994 PAGE: 29
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUN. 5-11, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0624 THRU: 738/0652
KEYWORD(S): ARSENIC * LEAD * CADMIUM * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425929 DATE: JUN. 16, 1994 PAGE: 1
TITLE: (DISCUSSES BACKFILL ACTION LEVEL FOR LEAD)
AUTHOR: TANGEN, LINDA/HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 738/0653 THRU: 738/0653
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425930 DATE: JUN. 27, 1994 PAGE: 2
TITLE: (TRANSMITS ATTACHED LIST OF CHILDREN ATTENDING DAY CARE CENTER AT HER RESIDENCE)
AUTHOR: AUTRY, CONNIE M.
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0654 THRU: 738/0655
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425931 DATE: JUN. 19, 1994 PAGE: 2
TITLE: (REQUESTS WRITTEN STATEMENT CONFIRMING PRESENCE OF DAY CARE FACILITY AT HER RESIDENCE)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: AUTREY, CONNIE
CC: FOX * BOHAN * HILLERY * FISCHER * SPICKELMIER * DAVIS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0656 THRU: 738/0657
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425932 DATE: JUN. 23, 1994 PAGE: 25
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUN. 12-18, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0658 THRU: 738/0682
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425933 DATE: JUN. 27, 1994 PAGE: 12
TITLE: (TRANSMITS ATTACHED MODIFICATION OF AOC CERCLA VIII-91-17 AND DRAFT EAST HELENA LEAD ABATEMENT PROGRAM PROPOSAL IDEAS)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
CC: WARDELL * FOX * BOHAN * HILLERY * BLUCK * FISCHER * MARSH * ZACKHEIM * WEIS * SELSER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0683 THRU: 738/0694
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425934 DATE: JUN. 27, 1994 PAGE: 2
TITLE: (TRANSMITS ATTACHED RESAMPLING RESULTS FOR JUN. 9, 23 AND 24, 1994)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * SAMPLING/ANALYSES/DATA * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 738/0695 THRU: 738/0696
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425935 DATE: JUN. 27, 1994 PAGE: 3
TITLE: (TRANSMITS ATTACHED ANALYTICAL RESULTS FROM SOIL SAMPLES COLLECTED FROM FIELD EAST OF LA CASA GRANDE)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 738/0697 THRU: 738/0699
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425937 DATE: JUN. 29, 1994 PAGE: 36
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUN. 19-25, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0700 THRU: 738/0735
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425938 DATE: JUL. 5, 1994 PAGE: 15
TITLE: (STATUS REPORT OF EAST HELENA SOILS REMOVAL APR. 18 - JUN. 24, 1994)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 738/0736 THRU: 738/0750
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425939 DATE: JUL. 6, 1994 PAGE: 28
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUN. 26 - JUL. 2, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0751 THRU: 738/0778
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425941 DATE: JUL. 13, 1994 PAGE: 32
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUL. 3-9, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0779 THRU: 738/0811
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425942 DATE: JUL. 19, 1994 PAGE: 2
TITLE: (AGENDA FOR EAST HELENA LEAD ABATEMENT PROGRAM MEETING; ATTACHED ATTENDANCE LIST)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 738/0812 THRU: 738/0814
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425968 DATE: JUL. 24, 1994 PAGE: 38
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUL. 14-20, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0815 THRU: 738/0852
KEYWORD(S): ARSENIC * CADMIUM * LEAD * AIR
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425969 DATE: AUG. 2, 1994 PAGE: 41
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUL. 24-30, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0853 THRU: 738/0893
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425971 DATE: AUG. 11, 1994 PAGE: 41
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUL. 31 - AUG. 6, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0894 THRU: 738/0934
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425972 DATE: AUG. 17, 1994 PAGE: 38
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION AUG. 7-13, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0935 THRU: 738/0972
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425973 DATE: AUG. 24, 1994 PAGE: 2
ATTACHED DOC(S): 425974
TITLE: (DISCUSSES AND TRANSMITS COMMENTS ON RESULTS OF JUL. 1994 CONFIRMATORY SOIL SAMPLING)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 738/0973 THRU: 738/0974
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 425974 DATE: AUG. 19, 1994 PAGE: 11
ATTACHED TO: 425973
TITLE: (GIVES RESULTS OF CONFIRMATORY RESIDENTIAL SOIL SAMPLING; COMPARES WITH 1991 RESULTS)
AUTHOR: NEUMAN, D. (DENNIS) R./MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 738/0975 THRU: 738/0985
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434640 DATE: 1991 (E) PAGE: 3
TITLE: (RESIDENTIAL PRESOIL SAMPLING SUMMARY FOR STRIP BETWEEN NEW AND OLD HIGHWAY 12 EAST HELENA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 738/0986 THRU: 738/0988
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434641 DATE: JUL. 21, 1994 PAGE: 29
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUL. 10-16, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/0989 THRU: 738/1017
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434642 DATE: JUL. 28, 1994 PAGE: 34
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUL. 17-23, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1018 THRU: 738/1051
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434643 DATE: JUL. 27, 1994 PAGE: 5
TITLE: (RESIDENTIAL PRESOIL SAMPLING SUMMARY FOR KENNEDY PARK)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 738/1052 THRU: 738/1056
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434644 DATE: AUG. 9, 1994 PAGE: 2
TITLE: (GIVES PRE-SAMPLE RESULTS, 1991 INITIAL SAMPLE LOCATIONS AND 1994 SAMPLE PITS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 738/1057 THRU: 738/1058
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434645 DATE: AUG. 31, 1994 PAGE: 34
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION AUG. 21-27, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1059 THRU: 738/1092
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434646 DATE: SEP. 8, 1994 PAGE: 52
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION AUG. 28 TO SEP. 3, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1093 THRU: 738/1144
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434647 DATE: SEP. 14, 1994 PAGE: 45
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION SEP. 4-10, 1994; INCLUDES EPA CONFIRMATION SAMPLING NUMBERS)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1145 THRU: 738/1189
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434648 DATE: SEP. 21, 1994 PAGE: 51
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION SEP. 11-17, 1994; GIVES STREET SWEEPINGS INFORMATION)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1190 THRU: 738/1240
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434649 DATE: AUG. 1994 PAGE: 36
TITLE: "VALIDATION SUMMARY OF XRF (X-RAY FLUORESCENCE) SOIL CONFIRMATION DATA FOR ASARCO EAST HELENA RESIDENTIAL SOILS JAN. 1994 THROUGH MAY 1994" (ATTACHED TRANSMITTAL FROM BRIDGE)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J. A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 738/1241 THRU: 738/1276
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SILVER * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434650 DATE: SEP. 1994 PAGE: 60
TITLE: "VALIDATION SUMMARY OF INORGANICS DATA, ASARCO EAST HELENA RESIDENTIAL SOILS CONTINUOUS MONITORING SAMPLES 1993 ASARCO INCORPORATED EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM BRIDGE)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J. A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 738/1277 THRU: 738/1336
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434651 DATE: SEP. 28, 1994 PAGE: 43
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION SEP. 18-24, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1337 THRU: 738/1379
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434652 DATE: OCT. 19, 1994 PAGE: 38
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION OCT. 9-15, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1380 THRU: 738/1417
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434653 DATE: OCT. 27, 1994 PAGE: 17
TITLE: (EAST HELENA SOIL REMOVAL STATUS REPORT OCT. 14-27, 1994; ATTACHED PHONE RECORDS OF CALLS WITH EAST HELENA RESIDENTS REGARDING CONFIRMATION SOIL SAMPLING)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 738/1418 THRU: 738/1434
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434654 DATE: OCT. 27, 1994 PAGE: 58
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION OCT. 16-22, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1435 THRU: 738/1492
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434655 DATE: OCT. 28, 1994 PAGE: 6
TITLE: (DISCUSSES PLANS FOR COMMUNITY HEALTH LEAD ABATEMENT PROGRAM PROPOSED TO BE IN PLACE BY DEC. 1, 1994)
AUTHOR: WARDELL, JOHN F./EPA
ADDRESSEE: LITLE, ROBERT/ASARCO
CC: MOORE * /EAST HELENA CITY COUNCIL MEMBERS * FOX * BROWN * BOHAN * HILLERY * SCOTT * YOUNG * SELSER * BENIGER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1493 THRU: 738/1498
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434656 DATE: NOV. 3, 1994 PAGE: 68
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION OCT. 23-29, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1499 THRU: 738/1566
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 09

FILE: 4070200 DOCNO: 434678 DATE: AUG. 18, 1994 PAGE: 147
TITLE: (TRANSMITS ATTACHED INTERIM REPORT EAST HELENA 1991 CONFIRMATION SOIL SAMPLING JUL. 25-29, 1994)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1384 THRU: 749/1530
KEYWORD(S): SOIL * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434679 DATE: AUG. 29, 1994 PAGE: 1
ATTACHED DOC(S): 434680 THRU: 434681
TITLE: (TRANSMITS MSU REVIEW OF DATA VALIDATION DOCUMENTS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1531 THRU: 749/1531
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434680 DATE: JUN. 30, 1994 PAGE: 4
ATTACHED TO: 434679
TITLE: (REVIEW OF HYDROMETRICS APR. 1994 "VALIDATION SUMMARY OF SOIL CONFIRMATION DATA FOR SPECTRACE 5000 EDXRF SPECTROMETER ASARCO EAST HELENA WASTE DISPOSAL INVESTIGATION NOV. 1992 SAMPLING")
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1532 THRU: 749/1535
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434681 DATE: JUL. 25, 1994 PAGE: 7
ATTACHED TO: 434679
TITLE: (REVIEW OF HYDROMETRICS JUN. 1994 "VALIDATION SUMMARY OF 1993 XRF CONFIRMATIONAL DATA ASARCO EAST HELENA")
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1536 THRU: 749/1542
KEYWORD(S): CADMIUM * LEAD * SOIL
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434682 DATE: OCT. 6, 1994 PAGE: 4
TITLE: (TRANSMITS ATTACHED SOIL SAMPLE RESULTS COLLECTED FROM GLUECKERT PROPERTY ON MORTON STREET)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: GLUECKERT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1543 THRU: 749/1546
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434683 DATE: OCT. 6, 1994 PAGE: 70
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL SEP. 25 - OCT. 1, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1547 THRU: 749/1617
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434684 DATE: OCT. 12, 1994 PAGE: 54
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL OCT. 2-8, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1618 THRU: 749/1671
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434685 DATE: OCT. 17, 1994 PAGE: 3
TITLE: (TRANSMITS ATTACHED STREAMLINED REPORT ON LA CASA GRANDE PARK DEEP TILLAGE DEMONSTRATION WORK PLAN COMPONENTS)
AUTHOR: TEST, PETE/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BLUCK * SPICKELMIER * WING * MILLER * DAVIS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1672 THRU: 749/1674
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434686 DATE: OCT. 26, 1994 PAGE: 3
ATTACHED DOC(S): 434687
TITLE: (TRANSMITS STATISTICAL ANALYSIS FOR BALANCE OF 1994 CONFIRMATION SOIL SAMPLING AT EAST HELENA; SUPPORTS CONCLUSIONS REACHED IN AUG. 24, 1994 MEMO; ATTACHED TRANSMITTAL FROM BROWN TO SPICKELMIER AND MILLER)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1675 THRU: 749/1677
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434687 DATE: SEP. 28, 1994 PAGE: 18
ATTACHED TO: 434686
TITLE: (TRANSMITS ATTACHED COMPARISON OF 1991 SAMPLING DATA TO 1994 CONFIRMATORY RESIDENTIAL SOIL LEAD SAMPLING DATA)
AUTHOR: /MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1678 THRU: 749/1695
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434688 DATE: OCT. 26, 1994 PAGE: 1
ATTACHED DOC(S): 434689
TITLE: (TRANSMITS MSU REVIEW OF HYDROMETRICS AUG. 1994 "VALIDATION SUMMARY OF XRF SOIL CONFIRMATION DATA FOR ASARCO EAST HELENA RESIDENTIAL SOILS JAN. 1994 THROUGH MAY 1994")
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1696 THRU: 749/1696
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434689 DATE: OCT. 5, 1994 PAGE: 5
ATTACHED TO: 434688
TITLE: (REVIEW COMMENTS ON HYDROMETRICS AUG. 1994 "VALIDATION SUMMARY OF XRF SOIL CONFIRMATION DATA FOR ASARCO EAST HELENA RESIDENTIAL SOILS JAN. 1994 THROUGH MAY 1994")
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1697 THRU: 749/1701
KEYWORD(S): SOIL * ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434690 DATE: OCT. 26, 1994 PAGE: 1
ATTACHED DOC(S): 434691
TITLE: (TRANSMITS MSU REVIEW OF HYDROMETRICS SEP. 1994 "VALIDATION SUMMARY OF INORGANIC DATA ASARCO EAST HELENA RESIDENTIAL SOILS CONTINUOUS MONITORING SAMPLES 1993")
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1702 THRU: 749/1702
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434691 DATE: OCT. 5, 1994 PAGE: 2
ATTACHED TO: 434690
TITLE: (REVIEW OF HYDROMETRICS SEP. 1994 "VALIDATION SUMMARY OF INORGANICS DATA ASARCO EAST HELENA RESIDENTIAL SOILS CONTINUOUS MONITORING SAMPLES 1993")
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1703 THRU: 749/1704
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434692 DATE: NOV. 2, 1994 PAGE: 17
TITLE: (DEEP TILLAGE EVALUATION FOR LA CASA GRANDE DEMONSTRATION PROJECT)
AUTHOR: /(HYDROMETRICS)
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 749/1705 THRU: 749/1721
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434693 DATE: NOV. 10, 1994 PAGE: 52
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL OCT. 30 - NOV. 5, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1722 THRU: 749/1773
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434694 DATE: NOV. 28, 1994 PAGE: 1
TITLE: (EAST HELENA SOIL REMOVAL STATUS REPORT NOV. 12-25, 1994)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1774 THRU: 749/1774
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434695 DATE: NOV. 17, 1994 PAGE: 2
TITLE: (DISCUSSES STATUS OF INTEGRATED LEAD ABATEMENT PROGRAM)
AUTHOR: SPICKELMIER, JAY/ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SCOTT * SELSER * LITLE * VARNER * MILLER * ROBBINS * HART * NICKEL * JENSEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1775 THRU: 749/1776
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434696 DATE: NOV. 17, 1994 PAGE: 1
TITLE: (EAST HELENA SOIL REMOVAL STATUS REPORT OCT. 28 - NOV. 11, 1994)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1777 THRU: 749/1777
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434697 DATE: NOV. 17, 1994 PAGE: 96
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL NOV. 6-12, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1778 THRU: 749/1873
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434698 DATE: NOV. 23, 1994 PAGE: 58
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL NOV. 13-19, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: /MDHES * BENIGER * BOHAN * BLUCK * HART * /HYDROMETRICS * PHILLIPS * LITLE * NICKEL * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1874 THRU: 749/1931
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434699 DATE: NOV. 30, 1994 PAGE: 2
ATTACHED DOC(S): 434700 THRU: 434702
TITLE: (TRANSMITS MSU TECHNICAL ASSISTANCE REVIEW COMMENTS ON VARIOUS HYDROMETRICS DATA VALIDATION SUMMARIES)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1932 THRU: 749/1933
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434700 DATE: OCT. 26, 1994 PAGE: 1
ATTACHED TO: 434699
TITLE: (TRANSMITS REVIEW OF HYDROMETRICS AUG. 1994 "VALIDATION SUMMARY OF XRF SOIL CONFIRMATION DATA FOR ASARCO EAST HELENA RESIDENTIAL SOILS JAN. 1994 THROUGH MAY 1994")
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1934 THRU: 749/1934
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434701 DATE: OCT. 26, 1994 PAGE: 1
ATTACHED TO: 434699
TITLE: (TRANSMITS REVIEW OF HYDROMETRICS SEP. 1994 "VALIDATION SUMMARY OF INORGANIC DATA ASARCO EAST HELENA RESIDENTIAL SOILS CONTINUOUS MONITORING SAMPLES 1993")
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1935 THRU: 749/1935
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434702 DATE: OCT. 26, 1994 PAGE: 1
ATTACHED TO: 434699
TITLE: (REVIEW COMMENTS ON STATISTICAL ANALYSIS BALANCE OF 1994 CONFIRMATION SOIL SAMPLING AT EAST HELENA)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/1936 THRU: 749/1936
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434703 DATE: DEC. 1, 1994 PAGE: 46
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL NOV. 20-26, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * PHILLIPS * SPICKELMIER * FISHER (FISCHER) * MILLER * DAVIS * TEST * /HYDROMETRICS, HELENA LIBRARY * /HYDROMETRICS, EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1937 THRU: 749/1982
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434704 DATE: DEC. 8, 1994 PAGE: 89
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR RESIDENTIAL SOILS REMOVAL NOV. 27 - DEC. 3, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * PHILLIPS * SPICKELMIER * FISHER (FISCHER) * MILLER * DAVIS * TEST * /HYDROMETRICS, HELENA LIBRARY * /HYDROMETRICS, EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/1983 THRU: 749/2071
KEYWORD(S): SOIL * ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434705 DATE: DEC. 20, 1994 PAGE: 7
TITLE: EAST HELENA RESIDENTIAL SOIL REMOVAL END OF YEAR REPORT 1994
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 749/2072 THRU: 749/2078
KEYWORD(S): LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434812 DATE: MAY 11, 1989 PAGE: 3
DUPLICATE DOCUMENT: 4070200/0162085
TITLE: (DISCUSSES SOD REPLACEMENT OF RESIDENTIAL SOILS)
AUTHOR: MORISON, FRANK H./HOLLAND AND HART * LEAP, CYNTHIA S./HOLLAND AND HART
ADDRESSEE: MORENO, SANDRA/EPA
CC: BROWN * EGGERT * KIRLEY * HART * VARNER * DAVIS * ROBBINS * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/2079 THRU: 749/2081
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434813 DATE: MAY 9, 1991 PAGE: 29
TITLE: (AOC FOR REMOVAL ACTION)
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * CONCURRENCE COPY * INCOMPLETE
DOCUMENT TYPE: LEGAL DOCUMENT
MICROFILM ROLL/FRAME NO.: 749/2082 THRU: 749/2110
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434814 DATE: MAY 9, 1991 PAGE: 6
TITLE: (NOTICE OF LIABILITY AND TRANSMITTAL OF AOC PURSUANT TO CERCLA SECTIONS 106 AND 107 EAST HELENA SITE)
AUTHOR: DUPREY, ROBERT L./EPA
ADDRESSEE: NICKEL, JON C./ASARCO
CC: BOHAN * BROWN * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL * MARGINALIA * CONCURRENCE COPY * CONCURRENCE COPY ATTACHED
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/2111 THRU: 749/2116
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434815 DATE: JUN. 10, 1993 PAGE: 3
TITLE: "1993 PRE REMOVAL SAMPLING SUMMARY UPDATE (EPA GATHERED)"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 749/2117 THRU: 749/2119
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434816 DATE: DEC. 15, 1994 PAGE: 50
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR DEC. 4-10, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * PHILLIPS * SPICKELMIER * FISHER (FISCHER) * MILLER * DAVIS * TEST * /HYDROMETRICS, HELENA LIBRARY * /HYDROMETRICS, EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/2120 THRU: 749/2170
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434817 DATE: DEC. 22, 1994 PAGE: 50
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR DEC. 10-17, 1994)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * PHILLIPS * SPICKELMIER * FISCHER * MILLER * DAVIS * TEST * /HYDROMETRICS, HELENA LIBRARY * /HYDROMETRICS, EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/2171 THRU: 749/2220
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434818 DATE: JAN. 27, 1995 (E) PAGE: 1
ATTACHED DOC(S): 434819
TITLE: (DISCUSSES YARD SAMPLING)
AUTHOR: (FISCHER), DEANNE/CH2M HILL
ADDRESSEE: HOFFER, FRAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 749/2221 THRU: 749/2221
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434819 DATE: JAN. 27, 1995 PAGE: 1
ATTACHED TO: 434818
TITLE: (DISCUSSES WHETHER OR NOT HOFFERS YARD NEEDS SAMPLING)
AUTHOR: (FISCHER, DEANNE)/CH2M HILL
ADDRESSEE: TEST, PETE/(HYDROMETRICS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 749/2222 THRU: 749/2222
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434820 DATE: FEB. 3, 1995 PAGE: 1
ATTACHED DOC(S): 434821
TITLE: (DISCUSSES REMEDIATION OF PROPERTY)
AUTHOR: (FISCHER, DEANNE)/CH2M HILL
ADDRESSEE: JOHNSON, KIT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 749/2223 THRU: 749/2223
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434821 DATE: FEB. 1995 (E) PAGE: 1
ATTACHED TO: 434820
TITLE: (DISCUSSES POSSIBLE CONSTRUCTION ON CODY DRIVE)
AUTHOR: (FISCHER, DEANNE)/CH2M HILL
ADDRESSEE: CAMPBELL, JANNINE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 749/2224 THRU: 749/2224
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434822 DATE: FEB. 15, 1995 PAGE: 2
TITLE: (TRANSMITS ATTACHED SAMPLING RESULTS FOR SECTOR 1 CONFORMATION SAMPLING LOT 3 SEAVER PARK SUBDIVISION)
AUTHOR: TEST, PETE/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SPICKELMIER * BLUCK * MILLER * BLOCK * WING
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 749/2225 THRU: 749/2226
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434823 DATE: MAR. 1995 PAGE: 67
TITLE: DRAFT "LA CASA GRANDE PARK REMEDIATION PLAN EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM TEST)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * DRAFT * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 749/2227 THRU: 749/2293
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434824 DATE: MAR. 1995 PAGE: 127
TITLE: "EAST HELENA RESIDENTIAL SOILS SECTOR SAMPLING SUMMARY" (ATTACHED TRANSMITTAL FROM BLOCK)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 749/2294 THRU: 749/2420
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434825 DATE: MAR. 6, 1995 PAGE: 4
TITLE: (TRANSMITS ATTACHED RESIDENTS OPINIONS REGARDING HYDROMETRICS WORK IN 1994 - INTERIM REPORT)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 750/0015 THRU: 750/0018
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434845 DATE: FEB. 24, 1995 PAGE: 13
TITLE: (DISCUSSES DISPOSAL OF PRE-REMOVAL BULK SAMPLES AND RECALIBRATION OF EDXRF)
AUTHOR: TANGEN, LINDA L./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: NEUMAN * BLUCK * SPICKELMIER * MILLER * WING * TEST
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 750/0019 THRU: 750/0031
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434849 DATE: MAR. 9, 1995 PAGE: 32
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION FEB. 27 - MAR. 4, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * PHILLIPS * SPICKELMIER * FISCHER * MILLER * DAVIS * TEST * /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 750/0959 THRU: 750/0990
KEYWORD(S): ARSENIC * CADMIUM * SOIL * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434850 DATE: MAR. 15, 1995 PAGE: 14
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAR. 5-11, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * DAVIS * TEST * /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 750/0991 THRU: 750/1004
KEYWORD(S): ARSENIC * CADMIUM * SOIL * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434851 DATE: MAR. 23, 1995 PAGE: 23
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAR. 12-18, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * DAVIS * TEST * /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 750/1005 THRU: 750/1027
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434855 DATE: MAR. 24, 1995 PAGE: 1
ATTACHED DOC(S): 434856
TITLE: (TRANSMITS LETTER FROM EAST HELENA RESIDENT REQUESTING EARLIER YARD REMOVAL)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: BOWSHER, JOAN/(LCCCHD)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 750/1028 THRU: 750/1028
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434856 DATE: MAR. 2, 1995 PAGE: 1
ATTACHED TO: 434855
TITLE: (REQUESTS REMOVAL OF YARD IN SPRING 1995 RATHER THAN FALL 1995)
AUTHOR: SCHELL, RAY * SCHELL, GAYLE
ADDRESSEE: BROWN, SCOTT/HYDROMETRICS (EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 750/1029 THRU: 750/1029
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434857 DATE: MAR. 30, 1995 PAGE: 42
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAR. 19-25, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * DAVIS * TEST * /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 750/1030 THRU: 750/1071
KEYWORD(S): ARSENIC * CADMIUM * SOIL * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434858 DATE: APR. 6, 1995 PAGE: 47
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAR. 26, - APR. 1, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * DAVIS * TEST * /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 750/1072 THRU: 750/1118
KEYWORD(S): ARSENIC * CADMIUM * SOIL * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434859 DATE: APR. 13, 1995 PAGE: 66
TITLE: (PORTIONS OF HYDROMETRICS 1994 YEAR END REPORT)
AUTHOR: /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 750/1119 THRU: 750/1186
KEYWORD(S): LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434860 DATE: APR. 13, 1995 PAGE: 43
TITLE: (DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION APR. 2-8, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * DAVIS * TEST * /HYDROMETRICS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 750/1187 THRU: 750/1229
KEYWORD(S): ARSENIC * CADMIUM * SOIL * LEAD
NOTES: UPDATE 10

FILE: 4070200 DOCNO: 434888 DATE: OCT. 26, 1994 PAGE: 1
ATTACHED DOC(S): 443889
TITLE: (TRANSMITS MSU REVIEW OF AUG. 1994 HYDROMETRICS "VALIDATION SUMMARY OF XRF SOIL CONFIRMATION DATA FOR ASARCO EAST HELENA RESIDENTIAL SOILS JAN. - MAY 1994"
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 801/1322 THRU: 801/1324
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434889 DATE: OCT. 5, 1994 PAGE: 5
ATTACHED TO: 434888
TITLE: (REVIEW OF AUG. 1994 HYDROMETRICS "VALIDATION SUMMARY OF XRF SOIL CONFIRMATION DATA FOR ASARCO EAST HELENA RESIDENTIAL SOILS JAN. - MAY 1994")
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 801/1325 THRU: 801/1329
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434890 DATE: OCT. 26, 1994 PAGE: 1
ATTACHED DOC(S): 434891
TITLE: (TRANSMITS MSU REVIEW OF SEP. 1994 HYDROMETRICS "VALIDATION SUMMARY OF INORGANIC DATA ASARCO EAST HELENA RESIDENTIAL SOILS CONTINUOUS MONITORING SAMPLES 1993")
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 801/1330 THRU: 801/1330
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434891 DATE: OCT. 5, 1994 PAGE: 2
ATTACHED TO: 434890
TITLE: (REVIEW OF SEP. 1994 HYDROMETRICS "VALIDATION SUMMARY OF INORGANICS DATA ASARCO EAST HELENA RESIDENTIAL SOILS CONTINUOUS MONITORING SAMPLES")
AUTHOR: NEUMAN, DENNIS/MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 801/1331 THRU: 801/1332
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434892 DATE: OCT. 26, 1994 PAGE: 4
TITLE: EAST HELENA SOIL REMOVAL PROJECT OVERSIGHT OCT. 10-24, 1994
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 801/1333 THRU: 801/1336
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434893 DATE: OCT. 26, 1994 PAGE: 2
TITLE: (LA CASA GRANDE PARK POST TILLING PIT SAMPLES)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 801/1337 THRU: 801/1338
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434894 DATE: NOV. 1, 1994 PAGE: 3
TITLE: (FOLLOW-UP TO OCT. 26, 1994 MEETING TO DISCUSS COMPLETION DATES FOR EAST HELENA SOIL SITES; ATTACHED PORTIONS OF MODIFICATION TO AOC)
AUTHOR: SPICKELMIER, JAY/ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1339 THRU: 801/1341
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434896 DATE: APR. 4, 1995 PAGE: 1
TITLE: (TRANSMITS DOCUMENTS FOR REVIEW BEFORE APR. 13, 1995 MEETING TO DISCUSS PROGRESS OF EAST FIELDS TEST PLOTS STUDIES AND OTHER ISSUES)
AUTHOR: POELL, JAMIE/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * DOLLHOPF * NEUMAN * LANG * TEST * MILLER * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1342 THRU: 801/1342
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434897 DATE: APR. 20, 1995 PAGE: 23
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION APR. 9-15, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * DAVIS * TEST * /HYDROMETRICS/HELENA LIBRARY * /HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1343 THRU: 801/1365
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434898 DATE: APR. 24, 1995 PAGE: 3
ATTACHED DOC(S): 434899
TITLE: (TRANSMITS ATTACHED SOIL SAMPLING RESULTS FROM SCHORZMAN PROPERTY)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 801/1366 THRU: 801/1368
KEYWORD(S): LEAD * ARSENIC * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434899 DATE: APR. 24, 1995 PAGE: 3
ATTACHED TO: 434898
TITLE: (TRANSMITS ATTACHED SOIL SAMPLING RESULTS FROM UTICK PROPERTY; ATTACHED MAP OF MOUNTAIN VIEW SUBDIVISION)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: UTICK, BOB
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1369 THRU: 801/1371
KEYWORD(S): SOIL * ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434900 DATE: APR. 27, 1995 PAGE: 41
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION APR. 16-22, 1995; RPM MENTIONS SERIOUS PROBLEMS WITH SCHILLER PROPERTY)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * DAVIS * TEST * /HYDROMETRICS/HELENA LIBRARY * /HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1372 THRU: 801/1412
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434901 DATE: MAY 1, 1995 PAGE: 5
TITLE: (DISCUSSES AND TRANSMITS ATTACHED COMMENTS FROM EAST HELENA PROPERTY OWNERS ON RESIDENTIAL WORK PERFORMED IN 1994)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: BLUCK * BOHAN * FOX * YOUNG
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 801/1413 THRU: 801/1417
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434902 DATE: MAY 2, 1995 PAGE: 2
TITLE: (DISCUSSES POSSIBILITY OF ALDRICH PROPERTY BEING IN WETLAND AREA; ATTACHED VICINITY MAP)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: ALDRICH * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1418 THRU: 801/1419
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434903 DATE: MAY 3, 1995 PAGE: 26
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION APR. 23-29, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1420 THRU: 801/1445
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434904 DATE: MAY 12, 1995 PAGE: 2
TITLE: (PROVIDES RESULTS OF COMPOSITE SAMPLES TAKEN FROM FLOWER BED AND GARDEN AREAS OF SCHEET PROPERTY; HIGH LEAD LEVELS)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: SCHEET, JERRY * SCHEET, ETHEL
CC: BROWN * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1446 THRU: 801/1447
KEYWORD(S): LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434905 DATE: MAY 15, 1995 PAGE: 1
ATTACHED DOC(S): 434906
TITLE: (TRANSMITS RESPONSE FROM HYDROMETRICS TO CH2M HILL MEMO OF MAY 1, 1995 LISTING COMMENTS FROM EAST HELENA PROPERTY OWNERS ON YARD WORK PERFORMED IN 1994)
AUTHOR: MURRY, BILL/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1448 THRU: 801/1448
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434906 DATE: MAY 10, 1995 PAGE: 8
ATTACHED TO: 434905
TITLE: (RESPONSE TO ATTACHED MAY 1, 1995 MEMO FROM CH2M HILL LISTING COMMENTS FROM EAST HELENA PROPERTY OWNERS ON YARD WORK PERFORMED IN 1994)
AUTHOR: MURRY, BILL/HYDROMETRICS
ADDRESSEE: WING, TOM/(HYDROMETRICS) * DAVIS, DON/(HYDROMETRICS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 801/1449 THRU: 801/1456
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434908 DATE: MAY 16, 1995 PAGE: 21
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAY 7-13, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * /HYDROMETRICS/HELENA LIBRARY * /HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1457 THRU: 801/1477
KEYWORD(S): ARSENIC * LEAD * CADMIUM * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434909 DATE: MAY 23, 1995 PAGE: 45
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAY 14-20, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * /HYDROMETRICS/HELENA LIBRARY * /HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1478 THRU: 801/1522
KEYWORD(S): ARSENIC * LEAD * CADMIUM * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434910 DATE: MAY 31, 1995 PAGE: 32
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAY 21-27, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * /HYDROMETRICS/HELENA LIBRARY * /HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1523 THRU: 801/1554
KEYWORD(S): ARSENIC * LEAD * CADMIUM * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434911 DATE: JUN. 7, 1995 PAGE: 21
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION MAY 28 - JUN. 3, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * /HYDROMETRICS/HELENA LIBRARY * /HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1555 THRU: 801/1575
KEYWORD(S): ARSENIC * LEAD * CADMIUM * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434950 DATE: APR. 4, 1995 PAGE: 2
TITLE: (DESCRIBES PRE-EXCAVATION SURFACE SOIL SAMPLING OF LF01 AT 505 EAST CLARK, ARLINT PROPERTY)
AUTHOR: TEST, PETE/HYDROMETRICS
ADDRESSEE: BROWN D. SCOTT/EPA
CC: SPICKELMIER * BLUCK * WING * MILLER * MURRY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1576 THRU: 801/1577
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434951 DATE: MAY 10, 1995 PAGE: 27
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION APR. 30 - MAY 6, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1578 THRU: 801/1604
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434952 DATE: JUN. 13, 1995 PAGE: 47
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUN. 4 - 10, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * DANENHOWER * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1605 THRU: 801/1651
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434953 DATE: JUN. 20, 1995 PAGE: 57
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUN. 11 - 17, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * DANENHOWER * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1652 THRU: 801/1708
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434954 DATE: JUN. 27, 1995 PAGE: 45
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUN. 18 - 24, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * DANENHOWER * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1709 THRU: 801/1753
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434955 DATE: JUL. 5, 1995 PAGE: 40
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUN. 25 - JUL. 1, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * DANENHOWER * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1754 THRU: 801/1793
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434956 DATE: JUL. 12, 1995 PAGE: 37
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUL. 2 - 8, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * DANENHOWER * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1794 THRU: 801/1830
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434957 DATE: JUL. 18, 1995 PAGE: 38
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUL. 9 - 15, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * DANENHOWER * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1831 THRU: 801/1868
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434958 DATE: JUL. 27, 1995 PAGE: 43
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUL. 16 - 22, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * DANENHOWER * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1869 THRU: 801/1911
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434959 DATE: JUL. 26, 1995 PAGE: 8
TITLE: (TRANSMITS ATTACHED SOIL SAMPLING INFORMATION FROM TWILIGHT TRAILER COURT)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: CULLEN, GREG/BILL WALKER REALTY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1912 THRU: 801/1919
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434960 DATE: JUL. 31, 1995 PAGE: 53
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUL. 23 - 29, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * DANENHOWER * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1920 THRU: 801/1972
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434961 DATE: AUG. 8, 1995 PAGE: 43
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION JUL. 30 - AUG. 5, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * DANENHOWER * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/1973 THRU: 801/2015
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434962 DATE: AUG. 15, 1995 PAGE: 94
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION AUG. 6 - 12, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * DANENHOWER * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/2016 THRU: 801/2109
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434964 DATE: AUG. 22, 1995 PAGE: 67
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION AUG. 13 - 19, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * DANENHOWER * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/2110 THRU: 801/2176
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434965 DATE: AUG. 25, 1995 PAGE: 3
TITLE: (DESCRIBES AND TRANSMITS ATTACHED RESULTS OF SOIL SAMPLES TAKEN FROM YARD)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: NORDTSROM, LOUISE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/2177 THRU: 801/2179
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434966 DATE: AUG. 31, 1995 PAGE: 74
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION AUG. 20 - 26, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: YOUNG * BENIGER * BLUCK * DANENHOWER * HART * JENSEN * SPICKELMIER * FISCHER * MILLER * WING * DAVIS * TEST * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/2180 THRU: 801/2253
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434967 DATE: SEP. 12, 1995 PAGE: 63
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION SEP. 3 - 9, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * BLUCK * DANENHOWER * FISCHER * HART * JENSEN * YOUNG * DAVIS * MILLER * SPICKELMIER * TEST * WING * HYDROMETICS (HYDROMETRICS)/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/2254 THRU: 801/2316
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 434968 DATE: SEP. 7, 1995 PAGE: 40
TITLE: (TRANSMITS ATTACHED DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT FOR REMOVAL ACTION AUG. 27 - SEP. 2, 1995)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * BLUCK * DANENHOWER * FISCHER * HART * JENSEN * YOUNG * DAVIS * MILLER * SPICKELMIER * TEST * WING * HYDROMETRICS/HELENA LIBRARY * HYDROMETRICS/EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 801/2317 THRU: 801/2356
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 11

FILE: 4070200 DOCNO: 450164 DATE: FEB. 23, 1996 PAGE: 2
TITLE: (TRANSMITS ATTACHED METAL AND ARSENIC SOILS DATA FOR EIKOMSTEAD PROPERTY)
AUTHOR: TEST, PETE/HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: SPICKELMIER * SCOTT * DANENHOWER
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 912/0091 THRU: 912/0092
NOTES: UPDATE 13

FILE: 4070200 DOCNO: 450171 DATE: MAY 9, 1996 PAGE: 32
TITLE: ACTION MEMORANDUM AMENDMENT (REQUEST FOR MODIFICATION OF SCOPE OF RESPONSE FOR EAST HELENA NTCRA; SIGNED WITH APPROVAL; JUL. 19, 1991 ACTION MEMORANDUM AND MAP DEPICTING YELLOW ZONE ATTACHED)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: DODSON, MAX H./EPA * WARDELL, JOHN F./EPA * FOX, ROBERT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * CONCURRENCE COPY ATTACHED * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 912/0093 THRU: 912/0125
NOTES: UPDATE 13

FILE: 4070200 DOCNO: 450296 DATE: OCT. 16, 1996 PAGE: 22
TITLE: (EPA SOIL AND PRE SOIL CONCENTRATIONS FOR EAST HELENA RESIDENCES)
AUTHOR: /HYDROMETRICS
QUALIFIER(S): SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 912/0126 THRU: 912/0147
NOTES: UPDATE 13

FILE: 4070200 DOCNO: 450298 DATE: SEP. 17, 1996 PAGE: 76
TITLE: (TRANSMITS ATTACHED AUG. 18-SEP. 14, 1996 DAILY WORK SUMMARIES AND BI-WEEKLY CONSTRUCTION REPORT)
AUTHOR: WING, THOMAS J/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT D./EPA
CC: BENIGER * BLUCK * DANENHOWER * SCOTT * BLOCK * DAVIS * SPICKELMIER * TEST * HYDROMETRICS-HELENA LIBRARY * HYDROMETRICS-EAST HELENA LIBRARY
QUALIFIER(S): MARGINALIA * ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 912/0148 THRU: 912/0223
NOTES: UPDATE 13

FILE: 4070200 DOCNO: 450299 DATE: OCT. 1, 1996 PAGE: 48
TITLE: (TRANSMITS ATTACHED SEP. 15-28, 1996 DAILY WORK SUMMARIES AND BI-WEEKLY CONSTRUCTION REPORT)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT, D./EPA
CC: BENIGER * BLUCK * DANENHOWER * SCOTT * BLOCK * DAVIS * SPICKELMIER * TEST * HYDROMETRICS-HELENA LIBRARY * HYDROMETRICS-EAST HELENA LIBRARY
QUALIFIER(S): SAMPLING/ANALYSES/DATA * MARGINALIA * ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 912/0224 THRU: 912/0271
NOTES: UPDATE 13

FILE: 4070200 DOCNO: 450300 DATE: OCT. 16, 1996 PAGE: 26
TITLE: (TRANSMITS ATTACHED SEP. 29-OCT. 12, 1996 DAILY WORK SUMMARIES AND BI-WEEKLY CONSTRUCTION REPORT)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT D./EPA
CC: BENIGER * BLUCK * DANENHOWER * SCOTT * BLOCK * DAVIS * SPICKELMIER * TEST * HYDROMETRICS-HELENA LIBRARY * HYDROMETRICS-EAST HELENA LIBRARY
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 912/0272 THRU: 912/0297
NOTES: UPDATE 13

FILE: 4070200 DOCNO: 450323 DATE: NOV. 26, 1996 PAGE: 3
TITLE: (DISCUSSES SEP. 26, 1996 311 WEST MAIN STREET CONFIRMATION SOIL SAMPLE RESULTS; ATTACHED SAMPLE MAP AND ANALYTICAL DATA)
AUTHOR: BLUCK, BILL/WBEI
ADDRESSEE: BROWN, SCOTT/EPA
CC: DANENHOWER * SCOTT * DAVIS
QUALIFIER(S): REPRODUCTION * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 973/0018 THRU: 973/0020
NOTES: UPDATE 14

FILE: 4070200 DOCNO: 450477 DATE: JUL. 23, 1997 PAGE: 2
TITLE: (DISCUSSES NEEDED REVISIONS TO DRAFT PROPOSED PLAN FOR RESIDENTIAL AND AGRICULTURAL SOILS)
AUTHOR: SCOTT, JAMES O./MDEQ
ADDRESSEE: BROWN, SCOTT/EPA
CC: ANDERSON * CAPDEVILLE * BOWSHER * PIZZINI
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1020/0069 THRU: 1020/0070
NOTES: UPDATE 15

FILE: 4070200 DOCNO: 450509 DATE: JUL. 17, 1997 PAGE: 154
TITLE: (TRANSMITS REQUESTED DOCUMENTS AND REPORTS RELATING TO ON-GOING RESIDENTIAL SOIL LEAD REMEDIATION INCLUDING DEC. 1996 SAMPLING SUMMARY AND ATTACHED 1995 XRF CONFIRMATION SAMPLES, AND RESIDENCES THAT WILL AND WILL NOT BE REMEDIATED; ATTACHED COPY WITH TOXICOLGIST COMMENTS)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: RODENBECK, SVEN E./ATSDR
CC: BROWN * GIBEAUT * TUCKER * SPICKELMIER * WING * ROBBINS * MOORE * JENSEN
QUALIFIER(S): REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA * **ADMINISTRATIVE RECORD** * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1020/0071 THRU: 1020/0224
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 15

FILE: 4070200 DOCNO: 450510 DATE: JUL. 21, 1997 PAGE: 1
TITLE: (TRANSMITS REQUESTED COPY OF SOIL METALS DATA SUBMITTED TO ATSDR ON JUL. 17, 1997)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: FISCHER, DEANNE/CH2M HILL
CC: BROWN * SPICKELMIER
QUALIFIER(S): REPRODUCTION * INCOMPLETE * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1020/0225 THRU: 1020/0225
NOTES: UPDATE 15

FILE: 4070200 DOCNO: 450516 DATE: AUG. 14, 1997 PAGE: 1
ATTACHED DOC(S): 450517
TITLE: (TRANSMITS VALIDATION SUMMARY OF INORGANICS DATA SPRING 1996 POST RI MONITORING AND NOV. 1996 ARSENIC SPECIATION DATA)
AUTHOR: BRIDGE, CLARE/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: SCOTT * SPICKELMIER * MILLER * DOWNS * BLOCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1020/0226 THRU: 1020/0226
NOTES: UPDATE 15

FILE: 4070200 DOCNO: 450517 DATE: AUG. 1997 PAGE: 193
ATTACHED TO: 450516
TITLE: "VALIDATION SUMMARY OF INORGANICS DATA ASARCO EAST HELENA SPRING 1996 POST RI MONITORING"
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J.A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1020/0227 THRU: 1020/0419
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC
NOTES: UPDATE 15

FILE: 4070200 DOCNO: 450518 DATE: AUG. 6, 1997 PAGE: 82
TITLE: (TRANSMITS MODIFIED RESULTS AND DOCUMENTATION FOR BATCHES 65 AND 66 AND ATTACHED ANALYTICAL RESULTS, QUALITY CONTROL DATA AND OTHER DELIVERABLES FOR 72 ARSENIC SPECIATION SAMPLES FROM MAY 2 - 8, 1997)
AUTHOR: HARAMI, ADIL/ASARCO
ADDRESSEE: VANEK, JENNY/HYDROMETRICS
CC: STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1020/0420 THRU: 1020/0501
KEYWORD(S): ARSENIC
NOTES: UPDATE 15

FILE: 4070200 DOCNO: 450519 DATE: AUG. 18, 1997 PAGE: 1
TITLE: (RESPONSE TO SMELTER SUPERFUND SITE RESIDENTIAL AND AGRICULTURAL SOILS PROPOSED PLAN REGARDING REMOVE/DIPOSE/REPLACE ALTERNATIVE AND LEAD EDUCATION AND ABATEMENT PROGRAM)
AUTHOR: BOWSHER, JOAN/LCCCHD
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1020/0502 THRU: 1020/0502
NOTES: UPDATE 15

FILE: 4070200 DOCNO: 450520 DATE: AUG. 20, 1997 PAGE: 5
TITLE: GRANDVIEW AREA: ARSENIC - ALL SAMPLES ABOVE 100 PPM, ALL SURFACE SAMPLES 0-1 INCH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 1020/0503 THRU: 1020/0507
KEYWORD(S): ARSENIC
NOTES: UPDATE 15

FILE: 4070200 DOCNO: 450521 DATE: AUG. 20, 1997 PAGE: 2
TITLE: GRANDVIEW AREA: LEAD - ALL SAMPLES ABOVE 500 PPM, ALL SURFACE SAMPLES 0-1 INCH
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 1020/0508 THRU: 1020/0509
KEYWORD(S): LEAD
NOTES: UPDATE 15

FILE: 4070200 DOCNO: 450572 DATE: OCT. 10, 1997 PAGE: 27
TITLE: (TRANSMITS ATTACHED AUG. 30 - SEP. 5, 1997 DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT 20 FOR RESIDENTIAL SOILS REMOVAL)
AUTHOR: ASKIN, RONALD C./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * PIZZINI * SCOTT * BLOCK * DAVIS * MORGAN * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0089 THRU: 1061/0115
NOTES: UPDATE 16

FILE: 4070200 DOCNO: 450573 DATE: OCT. 10, 1997 PAGE: 8
TITLE: (TRANSMITS ATTACHED SEP. 6 - 12, 1997 DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT 21 FOR RESIDENTIAL SOILS REMOVAL)
AUTHOR: ASKIN, RONALD C./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * PIZZINI * SCOTT * BLOCK * DAVIS * MORGAN * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0116 THRU: 1061/0123
NOTES: UPDATE 16

FILE: 4070200 DOCNO: 450574 DATE: OCT. 10, 1997 PAGE: 9
TITLE: (TRANSMITS ATTACHED SEP. 13 - 19, 1997 DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT 22 FOR RESIDENTIAL SOILS REMOVAL)
AUTHOR: ASKIN, RONALD C./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * PIZZINI * SCOTT * BLOCK * DAVIS * MORGAN * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0124 THRU: 1061/0132
NOTES: UPDATE 16

FILE: 4070200 DOCNO: 450575 DATE: OCT. 10, 1997 PAGE: 9
TITLE: (TRANSMITS ATTACHED SEP. 20 - 26, 1997 DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT 23 FOR RESIDENTIAL SOILS REMOVAL)
AUTHOR: ASKIN, RONALD C./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * PIZZINI * SCOTT * BLOCK * DAVIS * MORGAN * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0133 THRU: 1061/0141
NOTES: UPDATE 16

FILE: 4070200 DOCNO: 450576 DATE: OCT. 10, 1997 PAGE: 10
TITLE: (TRANSMITS ATTACHED SEP. 27 - OCT. 3, 1997 DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT 24 FOR RESIDENTIAL SOILS REMOVAL)
AUTHOR: ASKIN, RONALD C./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * PIZZINI * SCOTT * BLOCK * DAVIS * MORGAN * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0142 THRU: 1061/0151
NOTES: UPDATE 16

FILE: 4070200 DOCNO: 450578 DATE: OCT. 21, 1997 PAGE: 10
TITLE: (TRANSMITS ATTACHED OCT. 4 - 10, 1997 DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT 25 FOR RESIDENTIAL SOILS REMOVAL)
AUTHOR: ASKIN, RONALD C./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * PIZZINI * SCOTT * BLOCK * DAVIS * MORGAN * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0152 THRU: 1061/0161
NOTES: UPDATE 16

FILE: 4070200 DOCNO: 450582 DATE: NOV. 6, 1997 PAGE: 10
TITLE: (TRANSMITS ATTACHED OCT. 11 - 17, 1997 DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT 26 FOR RESIDENTIAL SOILS REMOVAL)
AUTHOR: ASKIN, RONALD C./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * PIZZINI * SCOTT * BLOCK * DAVIS * MORGAN * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0162 THRU: 1061/0171
NOTES: UPDATE 16

FILE: 4070200 DOCNO: 450583 DATE: NOV. 6, 1997 PAGE: 10
TITLE: (TRANSMITS ATTACHED OCT. 18 - 24, 1997 DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT 27 FOR RESIDENTIAL SOILS REMOVAL)
AUTHOR: ASKIN, RONALD C./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * PIZZINI * SCOTT * BLOCK * DAVIS * MORGAN * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0172 THRU: 1061/0181
NOTES: UPDATE 16

FILE: 4070200 DOCNO: 450584 DATE: NOV. 6, 1997 PAGE: 6
TITLE: (TRANSMITS ATTACHED OCT. 25 - 31, 1997 DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT 28 FOR RESIDENTIAL SOILS REMOVAL)
AUTHOR: ASKIN, RONALD C./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * PIZZINI * SCOTT * BLOCK * DAVIS * MORGAN * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0182 THRU: 1061/0187
NOTES: UPDATE 16

FILE: 4070200 DOCNO: 450625 DATE: NOV. 14, 1997 PAGE: 22
TITLE: (TRANSMITS ATTACHED NOV. 1 - NOV. 7, 1997 EAST HELENA RESIDENTIAL SOILS REMOVAL DAILY WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT, WEEK 29)
AUTHOR: ASKIN, RONALD C./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * PIZZINI * SCOTT * BLOCK * DAVIS * MORGAN * SPICKELMIER * HELENA LIBRARY * EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0651 THRU: 1061/0672
NOTES: UPDATE 16

FILE: 4070200 DOCNO: 450711 DATE: MAR. 1998 PAGE: 94
TITLE: "DATA VALIDATION REPORT ASARCO EAST HELENA RESIDENTIAL SOILS XRF (X-RAY FLUORESCENCE) DATA ANALYZED DURING 1997"; (ATTACHED TRANSMITTAL FROM TANGEN TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1102/0396 THRU: 1102/0489
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 17

FILE: 4070200 DOCNO: 450713 DATE: APR. 16, 1998 PAGE: 1
TITLE: (PROPOSES APR. 30, 1998 DATE FOR SUMMER 1998 YARD REMEDIATION MEETING; LISTS ELIGIBLE PROPERTIES)
AUTHOR: LUNDER, SONYA/EAST HELENA LEAD PROGRAM
ADDRESSEE: BROWN, SCOTT/EPA
CC: SPICKELMIER * ERICKSON * (FISCHER)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1102/0395 THRU: 1102/0395
NOTES: UPDATE 17

FILE: 4070200 DOCNO: 450718 DATE: MAY 1998 PAGE: 73
TITLE: "DATA VALIDATION REPORT ASARCO EAST HELENA RESIDENTIAL SOILS CONFIRMATION SAMPLES 1997"; (ATTACHED JUN. 5, 1998 TRANSMITTAL FROM TANGEN TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1102/0490 THRU: 1102/0562
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 17

FILE: 4070200 DOCNO: 450719 DATE: MAY 1998 PAGE: 45
TITLE: "VALIDATION SUMMARY ASARCO EAST HELENA COMPREHENSIVE POST RI MONITORING MAY 1995 ORGANICS"; (ATTACHED TRANSMITTAL FROM DOWNS TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J.A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1102/0563 THRU: 1102/0607
KEYWORD(S): GROUNDWATER
NOTES: UPDATE 17

FILE: 4070200 DOCNO: 450722 DATE: MAY 12, 1998 PAGE: 4
TITLE: (TRANSMITS ATTACHED APR. 20 - 26, 1998 WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT)
AUTHOR: ERICKSON, ALAN K./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * LUNDER * SCOTT * MORGAN * SPICKELMIER * HYDROMETRICS - HELENA LIBRARY * HYDROMETRICS - EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1102/0608 THRU: 1102/0611
NOTES: UPDATE 17

FILE: 4070200 DOCNO: 450723 DATE: MAY 12, 1998 PAGE: 3
TITLE: (TRANSMITS APR. 27 - MAY 3, 1998 WORK SUMMARIES AND ATTACHED WEEKLY CONSTRUCTION REPORT)
AUTHOR: ERICKSON, ALAN K./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * LUNDER * SCOTT * MORGAN * SPICKELMIER * HYDROMETRICS - HELENA LIBRARY * HYDROMETRICS - EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1102/0612 THRU: 1102/0614
NOTES: UPDATE 17

FILE: 4070200 DOCNO: 450724 DATE: MAY 12, 1998 PAGE: 6
TITLE: (TRANSMITS ATTACHED MAY 4 - 10, 1998 WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT)
AUTHOR: ERICKSON, ALAN K./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * LUNDER * SCOTT * MORGAN * SPICKELMIER * HYDROMETRICS - HELENA LIBRARY * HYDROMETRICS - EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1102/0615 THRU: 1102/0620
NOTES: UPDATE 17

FILE: 4070200 DOCNO: 465076 DATE: AUG. 1998 PAGE: 311
TITLE: "EAST HELENA RESIDENTIAL SOILS REMOVAL ACTION 1997 YEAR END REPORT EAST HELENA, MONTANA" (ATTACHED TRANSMITTAL FROM ERICKSON TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1139/0044 THRU: 1139/0357
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 18

FILE: 4070200 DOCNO: 465077 DATE: DEC. 1, 1998 PAGE: 7
TITLE: (TRANSMITS ATTACHED RESIDENTIAL SOILS REMOVAL NOV. 2 - 8, 1998 WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT)
AUTHOR: ERICKSON, ALAN K./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * LUNDER * SCOTT * MORGAN * SPICKELMIER * FISCHER * HYDROMETRICS HELENA LIBRARY * HYDROMETRICS EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1139/0358 THRU: 1139/0364
NOTES: UPDATE 18

FILE: 4070200 DOCNO: 465078 DATE: DEC. 1, 1998 PAGE: 7
TITLE: (TRANSMITS ATTACHED RESIDENTIAL SOILS REMOVAL NOV. 9 - 15, 1998 WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT)
AUTHOR: ERICKSON, ALAN K./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * LUNDER * SCOTT * MORGAN * SPICKELMIER * FISCHER * HYDROMETRICS HELENA LIBRARY * HYDROMETRICS EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1139/0365 THRU: 1139/0371
NOTES: UPDATE 18

FILE: 4070200 DOCNO: 465079 DATE: DEC. 1, 1998 PAGE: 7
TITLE: (TRANSMITS ATTACHED RESIDENTIAL SOILS REMOVAL NOV. 16 - 22, 1998 WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT)
AUTHOR: ERICKSON, ALAN K./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * LUNDER * SCOTT * MORGAN * SPICKELMIER * FISCHER * HYDROMETRICS HELENA LIBRARY * HYDROMETRICS EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1139/0372 THRU: 1139/0378
NOTES: UPDATE 18

FILE: 4070200 DOCNO: 465080 DATE: DEC. 1, 1998 PAGE: 7
TITLE: (TRANSMITS ATTACHED RESIDENTIAL SOILS REMOVAL NOV. 23 - 29, 1998 WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT)
AUTHOR: ERICKSON, ALAN K./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * LUNDER * SCOTT * MORGAN * SPICKELMIER * FISCHER * HYDROMETRICS HELENA LIBRARY * HYDROMETRICS EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1139/0379 THRU: 1139/0385
NOTES: UPDATE 18

FILE: 4070200 DOCNO: 465081 DATE: JAN. 11, 1999 PAGE: 7
TITLE: (TRANSMITS ATTACHED RESIDENTIAL SOILS REMOVAL NOV. 30 - DEC. 6, 1998 WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT)
AUTHOR: ERICKSON, ALAN K./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * LUNDER * SCOTT * SPICKELMIER * FISCHER * HYDROMETRICS HELENA LIBRARY * HYDROMETRICS EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1139/0386 THRU: 1139/0392
NOTES: UPDATE 18

FILE: 4070200 DOCNO: 465082 DATE: JAN. 11, 1999 PAGE: 7
TITLE: (TRANSMITS ATTACHED RESIDENTIAL SOILS REMOVAL DEC. 7 - 13, 1998 WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT)
AUTHOR: ERICKSON, ALAN K./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * LUNDER * SCOTT * SPICKELMIER * FISCHER * HYDROMETRICS HELENA LIBRARY * HYDROMETRICS EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1139/0393 THRU: 1139/0399
NOTES: UPDATE 18

FILE: 4070200 DOCNO: 465083 DATE: JAN. 11, 1999 PAGE: 7
TITLE: (TRANSMITS ATTACHED RESIDENTIAL SOILS REMOVAL DEC. 14 - 20, 1998 WORK SUMMARIES AND WEEKLY CONSTRUCTION REPORT)
AUTHOR: ERICKSON, ALAN K./HYDROMETRICS
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: BENIGER * LUNDER * SCOTT * SPICKELMIER * FISCHER * HYDROMETRICS HELENA LIBRARY * HYDROMETRICS EAST HELENA LIBRARY
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1139/0400 THRU: 1139/0406
NOTES: UPDATE 18

FILE: 4070200 DOCNO: 465136 DATE: MAY 1999 PAGE: 113
TITLE: "DATA VALIDATION REPORT ASARCO EAST HELENA RESIDENTIAL SOILS XRF (X-RAY FLUORESCENCE) DATA ANALYZED DURING 1998" (ATTACHED MAY 19, 1999 TRANSMITTAL TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO/(HYDROMETRICS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1172/0022 THRU: 1172/0134
NOTES: UPDATE 19

FILE: 4070200 DOCNO: 465169 DATE: SEP. 1999 PAGE: 231
TITLE: "VALIDATION SUMMARY OF INORGANICS DATA ASARCO EAST HELENA SPRING 1998 POST RI MONITORING" (ATTACHED SEP. 29, 1999 TRANSMITTAL FROM HYDROMETRICS TO BROWN AND ZAZZALI)
AUTHOR: /HYDROMETRICS
ADDRESSEE: NICKEL, JON/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1172/0551 THRU: 1172/0781
NOTES: UPDATE 19

FILE: 4070200 DOCNO: 465174 DATE: SEP. 27, 1999 PAGE: 2
TITLE: (REVIEW OF AUG. 1999 HYDROMETRICS EAST HELENA RESIDENTIAL SOILS REMOVAL ACTION, 1998 YEAR END REPORT)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1172/0782 THRU: 1172/0783
NOTES: UPDATE 19

FILE: 4070200 DOCNO: 465196 DATE: NOV. 15, 1999 PAGE: 16
TITLE: (DISCUSSES AND TRANSMITS ATTACHED HYDROMETRICS EAST HELENA SECTOR 4 [GRAND VIEW] PRE-REMOVAL X-RAY FLUORESCENCE ANALYSIS [XRF] ARSENIC DATA)
AUTHOR: BLOCK, GARTH/HYDROMETRICS * TANGEN, LINDA L./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: SPICKELMIER * ERICKSON * HAWTHORNE * SCOTT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1172/0784 THRU: 1172/0799
NOTES: UPDATE 19

FILE: 4070200 DOCNO: 465339 DATE: FEB. 6, 2001 PAGE: 1
DUPLICATE DOCUMENT: 1120503/465763
TITLE: EAST HELENA MONTHLY STATUS MEMO THROUGH JAN. 24, 2001
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1362/0678 THRU: 1362/0678
NOTES: UPDATE 23 * 3/3/2005 SPOKE WITH RPM, DOCUMENT MISPLACED, MICROFILM COPY IN FILE

FILE: 4070200 DOCNO: 465340 DATE: MAR. 5, 2001 PAGE: 2
DUPLICATE DOCUMENT: 1120503/465764
TITLE: EAST HELENA MONTHLY STATUS MEMO THROUGH FEB. 24, 2001
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1362/0679 THRU: 1362/0680
NOTES: UPDATE 23 * 3/3/2005 SPOKE WITH RPM, DOCUMENT MISPLACED, MICROFILM COPY IN FILE

FILE: 4070200 DOCNO: 465341 DATE: MAR. 30, 2001 PAGE: 2
DUPLICATE DOCUMENT: 1120503/465765
TITLE: EAST HELENA MONTHLY STATUS MEMO THROUGH MAR. 24, 2001
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1362/0681 THRU: 1362/0682
NOTES: UPDATE 23

FILE: 4070200 DOCNO: 465349 DATE: MAY 25, 2001 PAGE: 2
DUPLICATE DOCUMENT: 1120503/465766
TITLE: EAST HELENA MONTHLY STATUS MEMO THROUGH MAY 24, 2001
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1362/0707 THRU: 1362/0708
NOTES: UPDATE 23

FILE: 4070200 DOCNO: 465416 DATE: AUG. 31, 2001 PAGE: 2
DUPLICATE DOCUMENT: 1120503/465767
TITLE: EAST HELENA MONTHLY STATUS MEMO THROUGH AUG. 24, 2001
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1407/0119 THRU: 1407/0120
NOTES: UPDATE 24

FILE: 4070200 DOCNO: 465417 DATE: SEP. 30, 2001 PAGE: 2
DUPLICATE DOCUMENT: 1120503/465768
TITLE: EAST HELENA MONTHLY STATUS MEMO THROUGH SEP. 24, 2001
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1407/0121 THRU: 1407/0122
NOTES: UPDATE 24

FILE: 4070200 DOCNO: 465461 DATE: APR. 4, 2002 PAGE: 2
DUPLICATE DOCUMENT: 1120503/465769
TITLE: EAST HELENA MONTHLY STATUS MEMO THROUGH MAR. 2002
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1452/0042 THRU: 1452/0043
NOTES: UPDATE 25

FILE: 4070200 DOCNO: 465468 DATE: MAY 8, 2002 PAGE: 2
DUPLICATE DOCUMENT: 1120503/465770
TITLE: EAST HELENA MONTHLY STATUS MEMO THROUGH APR. 26, 2002
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1452/0048 THRU: 1452/0049
NOTES: UPDATE 25

FILE: 4070200 DOCNO: 465470 DATE: JUN. 5, 2002 PAGE: 2
DUPLICATE DOCUMENT: 1120503/465771
TITLE: EAST HELENA MONTHLY STATUS MEMO THROUGH MAY 31, 2002
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1452/0051 THRU: 1452/0052
NOTES: UPDATE 25

FILE: 4070200 DOCNO: 465533 DATE: DEC. 10, 2002 PAGE: 2
DUPLICATE DOCUMENT: 1120503/465772
TITLE: EAST HELENA MONTHLY STATUS MEMO OCT. 26-NOV. 29, 2002
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1511/0050 THRU: 1511/0051
NOTES: UPDATE 26

FILE: 4070200 DOCNO: 465534 DATE: JAN. 3, 2003 PAGE: 1
DUPLICATE DOCUMENT: 1120503/465773
TITLE: EAST HELENA MONTHLY STATUS MEMO NOV. 30-DEC. 27, 2002
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1511/0052 THRU: 1511/0052
NOTES: UPDATE 26

FILE: 4070200 DOCNO: 465537 DATE: MAR. 5, 2003 PAGE: 2
DUPLICATE DOCUMENT: 1120503/465774
TITLE: EAST HELENA MONTHLY STATUS MEMO FEB. 1-28, 2003
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: LINCOLN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1511/0053 THRU: 1511/0054
NOTES: UPDATE 26

FILE: 4070300 DOCNO: 0130743 DATE: JUN. 11, 1984 PAGE: 14
TITLE: "PRELIMINARY STUDY OF AVAILABLE LEAD IN SOILS PROXIMATE TO THE ASARCO LEAD SMELTER IN EAST HELENA, MONTANA"
AUTHOR: SCHLIEMAN, BRUCE * BEIHOFFER, JON * NAEGELE, LORNA * WATSON, V. J.
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060800
MICROFILM ROLL/FRAME NO.: 320/1930 THRU: 320/1943
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 4070300 DOCNO: 0130757 DATE: SEP. 9, 1984 PAGE: 3
TITLE: (XRF RESULTS OF SOIL SAMPLES USED TO FILL IN LOW SPOTS AROUND RAILROAD TRACKS; ATTACHED MEMO FROM TAYLOR)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 320/1944 THRU: 320/1946
KEYWORD(S): ARSENIC * CADMIUM * LEAD * SOIL
NOTES: UPDATE 02

FILE: 4070300 DOCNO: 0162088 DATE: MAY 10, 1989 PAGE: 9
TITLE: (TRANSMITS ATTACHED "WORK PLAN DEEP SOIL TILLAGE TREATABILITY STUDY ASARCO EAST HELENA SMELTER RI/FW" WITH COMMENTS ON REMEDIAL ALTERNATIVE PLAN FOR TREATABILITY OF AGRICULTURAL SOILS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MORENO * KIRLEY * EGGERT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1947 THRU: 320/1955
NOTES: UPDATE 02

FILE: 4070300 DOCNO: 0200228 DATE: MAY 10, 1989 PAGE: 9
TITLE: (TRANSMITS ATTACHED "WORK PLAN DEEP SOIL TILLAGE TREATABILITY STUDY, ASARCO EAST HELENA SMELTER RI/FS")
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: MORENO * KIRLEY * EGGERT
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1956 THRU: 320/1964
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 4070300 DOCNO: 0200237 DATE: JUN. 19, 1989 PAGE: 3
TITLE: (TRANSMITS ATTACHED COMMENTS FROM MSU REVIEW OF ASARCO DEEP TILLAGE WORK PLAN FOR SOILS ON ASARCO PROPERTY)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: DOLLHOPF * NEUMAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 320/1965 THRU: 320/1967
NOTES: UPDATE 02

FILE: 4070300 DOCNO: 0230840 DATE: AUG. 30, 1990 PAGE: 8
TITLE: (DISCUSSES FIRST YEAR VEGETATION EVALUATION OF ASARCO DEEP-PLOW TREATABILITY PLOTS (DEEP TILLAGE TREATABILITY TESTS))
AUTHOR: HARVEY, KEVIN/WESTON
ADDRESSEE: NICKEL, JON/ASARCO * COBLE, TERRY/ASARCO * BROWN, SCOTT/EPA * MULLEN, GREG/MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 320/1716 THRU: 320/1723
NOTES: UPDATE 02

FILE: 4070300 DOCNO: 424195 DATE: FEB. 16, 1993 PAGE: 1
ATTACHED DOC(S): 424196 THRU: 424197
TITLE: (TRANSMITS DATA PACKAGE OF RAW ANALYTICAL RESULTS FOR EAST HELENA SOIL SAMPLES)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/2135 THRU: 581/2135
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424196 DATE: JAN. 18, 1993 PAGE: 1
ATTACHED TO: 424195
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR SOIL SAMPLES TAKEN IN AUG. AND OCT. 1992)
AUTHOR: METCALF, DIANE J./ASARCO
ADDRESSEE: LANG, KENT/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/2136 THRU: 581/2136
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424197 DATE: JAN. 1993 (E) PAGE: 1
ATTACHED TO: 424195
TITLE: "TABLE OF CONTENTS ASARCO EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS] PASTE EXTRACTS, USDA HANDBOOK 60 CHAPTER 6-2"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/2137 THRU: 581/2137
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424198 DATE: FEB. 17, 1993 PAGE: 1
TITLE: (TRANSMITS DATA FROM SAMPLES TAKEN FROM EAST FIELDS FOR PRELIMINARY REVIEW)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: NEUMAN, DENNIS/MSU
CC: BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 581/2138 THRU: 581/2138
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424205 DATE: JAN. 27, 1993 PAGE: 1
ATTACHED DOC(S): 424206 THRU: 424210
TITLE: (TRANSMITS RAW DATA PACKAGES FOR EXTRACTION TESTS FOR METALS AVAILABILITY TO PLANTS AND TCLP TESTS FOR EAST FIELDS SOILS)
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: QUINONES * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/2139 THRU: 581/2139
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424206 DATE: DEC. 15, 1992 PAGE: 1
ATTACHED TO: 424205
TITLE: (TRANSMITS RAW DATA PACKAGES FOR EXTRACTION TESTS FOR METALS AVAILABILITY TO PLANTS AND TCLP TESTS FOR EAST FIELDS SOILS)
AUTHOR: FABBI, MICHAEL J./ASARCO
ADDRESSEE: LANGE, KENT/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/2140 THRU: 581/2140
KEYWORD(S): ARSENIC * LEAD * ZINC * SOIL
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424207 DATE: DEC. 1992 (E) PAGE: 1
ATTACHED TO: 424205
TITLE: "TABLE OF CONTENTS ASARCO EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS] SOILS"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/2141 THRU: 581/2141
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424208 DATE: DEC. 16, 1992 PAGE: 1
ATTACHED TO: 424205
TITLE: (TRANSMITS ANALYTICAL RESULTS FOR EXTRACTION AND TCLP TESTS)
AUTHOR: BILAK, KEN/ASARCO
ADDRESSEE: LANGE, KENT/HYDROMETRICS
CC: NICKEL * ROBBINS * STANGA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/2142 THRU: 581/2142
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SOIL
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424209 DATE: DEC. 1992 (E) PAGE: 1
ATTACHED TO: 424205
TITLE: "TABLE OF CONTENTS ASARCO EAST HELENA REMEDIAL INVESTIGATION/FEASIBILITY STUDY [RI/FS] TCLP EXTRACTS"
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/2143 THRU: 581/2143
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424210 DATE: FEB. 8, 1993 PAGE: 1
ATTACHED TO: 424205
TITLE: (TRANSMITS RAW DATA PACKAGES FOR EXTRACTION TESTS FOR METALS AVAILABILITY TO PLANTS AND TCLP TESTS FOR EAST FIELDS SOILS; REQUESTS REVIEW)
AUTHOR: (BROWN) SCOTT/EPA
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 581/2144 THRU: 581/2144
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424211 DATE: MAR. 3, 1993 PAGE: 149
TITLE: "ADDENDUM TO THE WORK PLAN FOR THE FOCUSED FEASIBILITY STUDY [FS] ON THE LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS EAST HELENA MONTANA" (ATTACHED TRANSMITTAL FROM BLOCK TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/2145 THRU: 581/2297
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424373 DATE: MAR. 22, 1993 PAGE: 50
TITLE: "THE USE OF GEOSTATISTICS TO PREDICT SOIL METAL CONCENTRATIONS IN THE EAST FIELD FOCUSED FEASIBILITY STUDY [FS] ON THE LOCATION AND METHOD OF DISPOSAL OF EAST HELENA RESIDENTIAL SOILS"
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/2298 THRU: 581/2356
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SOIL
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424374 DATE: MAR. 22, 1993 PAGE: 38
TITLE: "THE EFFECT OF TILLAGE ON CONCENTRATIONS OF ARSENIC AND METALS IN PLANTS AND SOILS IN THE FIELD FOCUSED FEASIBILITY STUDY [FS] ON THE LOCATION AND METHOD OF DISPOSAL OF EAST HELENA RESIDENTIAL SOILS" (ATTACHED TRANSMITTAL FROM BLOCK TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/2357 THRU: 581/2395
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SOIL
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424375 DATE: MAR. 31, 1993 PAGE: 127
TITLE: DRAFT "AN EVALUATION OF ARSENIC, CADMIUM, LEAD, AND ZINC MOBILITY IN EAST FIELD SOILS FOCUSED FEASIBILITY STUDY [FS] ON THE LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS" (ATTACHED TRANSMITTAL FROM BLOCK TO BROWN)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 581/2396 THRU: 581/2523
NOTES: UPDATE 06

FILE: 4070300 DOCNO: 424650 DATE: MAR. 1993 PAGE: 31
TITLE: "VALIDATION SUMMARY OF XRF SOIL CALIBRATION DATA ASARCO EAST HELENA EAST FIELDS TREATABILITY STUDY SEP. 1992 SAMPLING"
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, J.A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/1967 THRU: 627/1998
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * ZINC * SOIL
NOTES: UPDATE 07

FILE: 4070300 DOCNO: 424651 DATE: MAR. 1993 PAGE: 124
ATTACHED DOC(S): 424652
TITLE: DRAFT "AN EVALUATION OF ARSENIC, CADMIUM, LEAD AND ZINC MOBILITY IN EAST FIELDS SOILS FOCUSED FEASIBILITY STUDY [FS] ON THE LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS"
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/1999 THRU: 627/2124
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SOIL * GROUNDWATER
NOTES: UPDATE 07

FILE: 4070300 DOCNO: 424652 DATE: MAY 1993 PAGE: 190
ATTACHED TO: 424651
TITLE: "ASARCO EAST HELENA RESIDENTIAL SOILS DATA VALIDATION SUMMARY FOR SOIL SAMPLE DATA FOCUSED FEASIBILITY STUDY [FS] EAST HELENA, MONTANA (AUG. THROUGH OCT. 1992)" (ATTACHED TRANSMITTAL FROM LANG)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY A./ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 627/2125 THRU: 627/2314
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * SOIL
NOTES: UPDATE 07

FILE: 4070300 DOCNO: 424653 DATE: APR. 1993 PAGE: 18
TITLE: DRAFT "PROPOSAL FOR THE DIRECT HAUL OF EAST HELENA RESIDENTIAL SOILS TO THE EAST FIELD A 19 ACRE DEMONSTRATION OF THE FEASIBILITY OF A SOIL CAP" (ATTACHED TRANSMITTAL FROM BLOCK)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 627/2315 THRU: 627/2333
KEYWORD(S): SOIL * ZINC * ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 07

FILE: 4070300 DOCNO: 424654 DATE: APR. 20, 1993 PAGE: 1
ATTACHED DOC(S): 424655
TITLE: (REVIEW COMMENTS ON HYDROMETRICS REPORT ON TILLAGE)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/2334 THRU: 627/2334
NOTES: UPDATE 07

FILE: 4070300 DOCNO: 424655 DATE: APR. 20, 1993 PAGE: 1
ATTACHED TO: 424654
TITLE: (REVIEW COMMENTS ON HYDROMETRICS REPORT ON USE OF GEOSTATISTICS ON EAST FIELD SOILS)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/2335 THRU: 627/2335
NOTES: UPDATE 07

FILE: 4070300 DOCNO: 424656 DATE: APR. 21, 1993 PAGE: 1
TITLE: (REVIEW COMMENTS ON ADDENDUM TO WORK FOR FOCUSED FS ON LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/2336 THRU: 627/2336
NOTES: UPDATE 07

FILE: 4070300 DOCNO: 424657 DATE: APR. 28, 1993 PAGE: 1
TITLE: (STATES NO ADDITIONAL COMMENTS BY STATE REGARDING METALS MOBILITY [EAST FIELDS] REPORT BY HYDROMETRICS)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/2337 THRU: 627/2337
NOTES: UPDATE 07

FILE: 4070300 DOCNO: 424658 DATE: APR. 30, 1993 PAGE: 2
TITLE: (DISCUSSES "DIRECT HAUL" PROPOSAL DISCUSSED AT APR. 6 CITY COUNCIL MEETING)
AUTHOR: STIPICH, ED/CITY OF EAST HELENA
ADDRESSEE: BROWN, SCOTT/EPA
CC: SPICKELMIER * /EHCAC/C
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/2338 THRU: 627/2339
NOTES: UPDATE 07

FILE: 4070300 DOCNO: 424659 DATE: MAY 4, 1993 PAGE: 1
TITLE: (REVIEW COMMENTS ON FOCUSED FEASIBILITY REPORTS)
AUTHOR: QUINONES, BEN/MDHES
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/2340 THRU: 627/2340
NOTES: UPDATE 07

FILE: 4070300 DOCNO: 424660 DATE: MAY 5, 1993 PAGE: 2
TITLE: (TRANSMITS ATTACHED REPLACEMENT TABLE 1 FOR DIRECT HAUL PROPOSAL)
AUTHOR: LANG, KENT/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: QUINONES * NICKEL * SPICKELMIER * HART * THORP * ROBBINS * LEAP
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/2341 THRU: 627/2342
NOTES: UPDATE 07

FILE: 4070300 DOCNO: 424824 DATE: NOV. 1993 PAGE: 16
TITLE: DRAFT "VEGETATION WORK PLAN FOR THE FOCUSED FEASIBILITY STUDY [FS] ON THE LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS EAST HELENA MONTANA" (ATTACHED TRANSMITTAL FROM TEST)
AUTHOR: /HYDROMETRICS
ADDRESSEE: SPICKELMIER, JAY/ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 669/1615 THRU: 669/1630
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC * VEGETATION
NOTES: UPDATE 08

FILE: 4070300 DOCNO: 424825 DATE: FEB. 14, 1994 PAGE: 22
TITLE: (TRANSMITS ATTACHED ANALYTICAL RESULTS FOR WILSON DITCH STOCKPILE SOILS)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MILLER * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 669/1631 THRU: 669/1652
KEYWORD(S): ARSENIC * CADMIUM * CHROMIUM * MERCURY * LEAD * ZINC * SOIL
NOTES: UPDATE 08

FILE: 4070300 DOCNO: 424826 DATE: FEB. 28, 1994 PAGE: 1
TITLE: (RESPONSE TO FEB. 14, 1994 LETTER; AGREES WITH RECOMMENDATION TO RETAIN SOILS AND SEDIMENTS AT PRESENT TEMPORARY LOCATION)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: BLOCK, GARTH/(HYDROMETRICS)
CC: BOHAN * BLUCK
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * REPRODUCTION
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 669/1653 THRU: 669/1653
NOTES: UPDATE 08

FILE: 4070300 DOCNO: 425943 DATE: NOV. 1993 PAGE: 17
ATTACHED DOC(S): 425944 THRU: 425946
TITLE: DRAFT "VEGETATION WORK PLAN FOR THE FOCUSED FEASIBILITY STUDY [FS] ON THE LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS EAST HELENA MONTANA" (WORK COPY)
AUTHOR: /HYDROMETRICS
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * DRAFT * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: CONTRACT
MICROFILM ROLL/FRAME NO.: 738/1567 THRU: 738/1583
NOTES: UPDATE 09

FILE: 4070300 DOCNO: 425944 DATE: APR. 18, 1994 PAGE: 2
ATTACHED TO: 425943
TITLE: (FOLLOW-UP TO PHONE CONVERSATION DISCUSSING SPRING AND SUMMER PLANS FOR TREATABILITY PLOTS IN EAST FIELD; WORK COPY)
AUTHOR: BROWN, D. SCOTT/EPA
ADDRESSEE: TEST, PETE/HYDROMETRICS
CC: PIZZINI * BOHAN * MARSH * BLUCK * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1584 THRU: 738/1585
NOTES: UPDATE 09

FILE: 4070300 DOCNO: 425945 DATE: DEC. 17, 1993 PAGE: 1
ATTACHED TO: 425943
TITLE: (TRANSMITS REVIEW OF DRAFT "VEGETATION WORK PLAN FOR FOCUSED FEASIBILITY ON LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS")
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 738/1586 THRU: 738/1586
NOTES: UPDATE 09

FILE: 4070300 DOCNO: 425946 DATE: DEC. 8, 1993 PAGE: 2
ATTACHED TO: 425943
TITLE: (REVIEW COMMENTS ON "VEGETATION WORK PLAN FOR FOCUSED FEASIBILITY STUDY [FS] ON LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS")
AUTHOR: /MSU
ADDRESSEE: BLUCK, BILL/CH2M HILL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 738/1587 THRU: 738/1588
NOTES: UPDATE 09

FILE: 4070300 DOCNO: 425947 DATE: FEB. 14, 1994 PAGE: 22
TITLE: (TRANSMITS AND COMMENTS ON ATTACHED ANALYTICAL RESULTS FOR WILSON DITCH STOCKPILE SOILS)
AUTHOR: BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: MILLER * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1589 THRU: 738/1610
KEYWORD(S): SILVER * ARSENIC * CADMIUM * CHROMIUM * MERCURY * LEAD * SELENIUM * ZINC
NOTES: UPDATE 09

FILE: 4070300 DOCNO: 425948 DATE: FEB. 25, 1994 PAGE: 1
TITLE: (TRANSMITS DRAFT EAST FIELD AND RESIDENTIAL SOIL DISPOSAL FOCUSED FS)
AUTHOR: MILLER, ROBERT J./HYDROMETRICS * BLOCK, GARTH/HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
CC: LASKOWSKI * LINCOLN * SPICKELMIER * /MSU * BLUCK * BOHAN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1611 THRU: 738/1611
NOTES: UPDATE 09

FILE: 4070300 DOCNO: 425950 DATE: APR. 22, 1994 PAGE: 10
TITLE: (REVIEW COMMENTS ON FOCUSED FS ON LOCATION AND METHOD OF DISPOSAL OF EAST HELENA SOILS)
AUTHOR: BLUCK, BILL/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 738/1613 THRU: 738/1622
NOTES: UPDATE 09

FILE: 4070400 DOCNO: 0130760 DATE: 1987 (E) PAGE: 1
TITLE: FIGURE 2: CADMIUM CONCENTRATIONS IN DIFFERENT CROPS ALL GROWN IN THE SAME SOIL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
CROSS FILE(S):1060705
MICROFILM ROLL/FRAME NO.: 320/1968 THRU: 320/1968
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130761 DATE: 1987 (E) PAGE: 1
TITLE: EIGHT (8) MCL'S OF CONCERN AT EAST HELENA
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 320/1969 THRU: 320/1969
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130762 DATE: 1987 (E) PAGE: 4
TITLE: (VEGETABLE GARDEN SAMPLING LOCATIONS; ASARCO VEGETABLES DATA; TOPOGRAPHIC MAP WITH DATA)
AUTHOR: /ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: MAP/DRAWING/DIAGRAM
MICROFILM ROLL/FRAME NO.: 320/1970 THRU: 320/1975
KEYWORD(S): ARSENIC * CADMIUM * COPPER * MERCURY * MANGANESE * LEAD * SELENIUM * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130766 DATE: 1987 (E) PAGE: 3
TITLE: (VEGETABLE GARDEN SURVEY FORMS SENT TO PROSPECTIVE GARDEN OWNERS IN AREA OF ZIP CODE 59620 AND TO OWNERS OF GARDENS WHICH WERE SAMPLED)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * MARGINALIA * RESIDENTIAL SOILS
DOCUMENT TYPE: FORM
MICROFILM ROLL/FRAME NO.: 320/1976 THRU: 320/1978
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130769 DATE: 1987 (E) PAGE: 5
TITLE: FLAGS FOR ASARCO VEGETABLE DATA (ATTACHED LIST OF ABBREVIATIONS)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: DATA
CROSS FILE(S):4030300
MICROFILM ROLL/FRAME NO.: 320/1979 THRU: 320/1983
KEYWORD(S): ARSENIC * CADMIUM * COPPER
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130774 DATE: FEB. 25, 1987(E) PAGE: 3
TITLE: PRELIMINARY A/C CALCULATIONS FOR GARDEN VEGETABLES
AUTHOR: /CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 320/1984 THRU: 320/1986
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130777 DATE: AUG. 27, 1987 PAGE: 13
TITLE: ASARCO EAST HELENA GARDEN VEGETABLE SAMPLING RESULTS (FROM EAST HELENA RESIDENTS)
AUTHOR: /ASARCO
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 320/1987 THRU: 320/1999
KEYWORD(S): ARSENIC * CADMIUM * COPPER * MERCURY * MANGANESE * LEAD * SELENIUM * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130790 DATE: AUG. 27, 1987 PAGE: 13
TITLE: ASARCO EAST HELENA GARDEN VEGETABLE SAMPLING RESULTS (FROM EAST HELENA RESIDENTS)
AUTHOR: /ASARCO
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 320/2000 THRU: 320/2012
KEYWORD(S): SILVER * ARSENIC * CADMIUM * COPPER * MERCURY * MANGANESE * LEAD * SELENIUM * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130803 DATE: MAR. 11, 1988 PAGE: 3
TITLE: (CLP SPLIT SAMPLES OF EAST HELENA VEGETABLES; ATTACHED PRELIMINARY CALCULATIONS FOR CONSUMPTION OF GARDEN VEGETABLES)
AUTHOR: /CH2M HILL
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 320/2013 THRU: 320/2015
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MERCURY * ZINC
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130806 DATE: MAR. 14, 1988 PAGE: 12
TITLE: (NOTES AND COMMENTS ON 1983 CDC STUDY OF GARDEN VEGETABLES; SUMMARY OF VEGETABLE GARDEN DATA)
AUTHOR: ROGNESS, DOUG/MDHES
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * HANDWRITTEN * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 320/2016 THRU: 320/2027
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130818 DATE: MAY 16, 1988 PAGE: 21
TITLE: (TRANSMITS ATTACHED DRAFT "EVALUATION OF CLP SPLIT SAMPLE DATA: CATTLE, TISSUE, WHEAT GRAIN, GARDEN VEGETABLES AND FISH FOR EAST HELENA SITE")
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
CROSS FILE(S):4070600 * 4070700 * 4070500
MICROFILM ROLL/FRAME NO.: 320/2028 THRU: 320/2048
KEYWORD(S): ARSENIC * CADMIUM * COPPER * LEAD * MERCURY * ZINC * MANGANESE * SELENIUM * THALLIUM * TIN
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130839 DATE: JUN. 5, 1988 PAGE: 3
TITLE: (DISCUSSES ASARCO VEGETABLE DATA AND COMMENTS ON SUMMARY OF CLP SPLITS AND LAB RESULTS FROM CLP AND ASARCO FOR VARIOUS VEGETABLES)
AUTHOR: /CH2M HILL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * HANDWRITTEN * SAMPLING/ANALYSES/DATA * MARGINALIA * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
CROSS FILE(S):1070103
MICROFILM ROLL/FRAME NO.: 320/2049 THRU: 320/2051
KEYWORD(S): ARSENIC * CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130842 DATE: JUN. 16, 1988 PAGE: 4
TITLE: (QUESTIONS CONCERNING GARDEN VEGETABLE DATA, NOTES ON MSU REVIEW OF CLP SPLIT DATA, METAL CONCENTRATIONS IN CARROTS, AND WORK SHEET FOR GARDEN VEGETABLE DATA)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 320/2052 THRU: 320/2055
KEYWORD(S): ARSENIC * COPPER * MERCURY * LEAD
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130846 DATE: JUN. 29, 1988 PAGE: 2
TITLE: (NOTES ON GARDEN VEGETABLE DATA AND MEETING WITH ERIC ON NEED TO REACH SOLUTIONS; INFORMATION FROM IRIS ON CADMIUM)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 320/2056 THRU: 320/2057
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130848 DATE: JUL. 6, 1988 PAGE: 41
TITLE: (TRANSMITS ATTACHED "INSTRUMENTAL DETECTION LIMITS" LOG BOOK)
AUTHOR: STANGA, GARY R./ASARCO
ADDRESSEE: RUPP, G./MSI
CC: BROWN * NICKEL
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/2058 THRU: 320/2098
KEYWORD(S): IRON * ARSENIC * SILVER * MANGANESE * ZINC * THALLIUM * MERCURY
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130889 DATE: JUL. 19, 1988 PAGE: 2
TITLE: (DISCUSSION WITH BAKER CONCERNING GARDEN VEGETABLES)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 320/2099 THRU: 320/2100
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130891 DATE: AUG. 11, 1988 PAGE: 2
TITLE: (DRAFT SECTION 6.0 "CONCLUSIONS" OF REPORT CONCERNING RISK ANALYSIS EVALUATING VEGETABLE CONCENTRATIONS FOR INDICATOR METALS)
QUALIFIER(S): DRAFT * **ADMINISTRATIVE RECORD** * MARGINALIA * INCOMPLETE * REPRODUCTION * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 320/2101 THRU: 320/2102
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130893 DATE: AUG. 31, 1988 PAGE: 4
TITLE: (NOTES FOR PRESENTATION TO GARDEN OWNERS)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): HANDWRITTEN * **ADMINISTRATIVE RECORD** * ORIGINAL * RESIDENTIAL SOILS
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 320/2103 THRU: 320/2106
KEYWORD(S): CADMIUM * LEAD
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130897 DATE: SEP. 1988 PAGE: 73
TITLE: (TRANSMITS ATTACHED "DATA VALIDATION AND REDUCTION REPORT ASARCO EAST HELENA PHASE 2 RI GARDEN VEGETABLE DATA")
AUTHOR: NICKEL, JON C./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
CC: ROGNESS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA * RESIDENTIAL SOILS
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 320/1724 THRU: 320/1796
KEYWORD(S): ARSENIC * CADMIUM * COPPER * MERCURY * MANGANESE * LEAD * SELENIUM * THALLIUM * ZINC
NOTES: UPDATE 02

FILE: 4070400 DOCNO: 0130970 DATE: SEP. 2, 1988 PAGE: 2
TITLE: ASARCO EAST HELENA VEGETABLE GARDEN STUDY (SUMMARY OF GATHERED INFORMATION TO DATE)
AUTHOR: /ASARCO
QUALIFIER(S): INCOMPLETE * REPRODUCTION * **ADMINISTRATIVE RECORD** * RESIDENTIAL SOILS
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 320/1797 THRU: 320/1798
NOTES: UPDATE 02

FILE: 4070500 DOCNO: 0162097 DATE: APR. 1989 PAGE: 39
TITLE: "FINAL DATA VALIDATION AND REDUCTION REPORT ASARCO EAST HELENA PHASE 2 RI GRAINHEAD DATA" (ATTACHED TRANSMITTAL FROM HARVEY)
AUTHOR: /WESTON
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 320/1799 THRU: 320/1837
KEYWORD(S): ARSENIC * CADMIUM * COPPER * MERCURY * LEAD * ZINC
NOTES: UPDATE 02

FILE: 4070600 DOCNO: 0130987 DATE: 1984 PAGE: 77
TITLE: ASARCO LIVESTOCK PACKAGE "C" (INCLUDES REPORTS ON BLOOD TESTS PERFORMED ON LIVESTOCK IN EAST HELENA AREA SINCE 1971 AND LOCATION MAP FOR VARIOUS LIVESTOCK SAMPLING)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1030300
MICROFILM ROLL/FRAME NO.: 320/1853 THRU: 320/1929
KEYWORD(S): LEAD
NOTES: UPDATE 02

FILE: 4070600 DOCNO: 0131064 DATE: NOV. 1985 PAGE: 196
TITLE: "TOXICOSIS PROPERTIES AND CRITERIA FOR LEAD, ARSENIC, CADMIUM AND ZINC IN LIVESTOCK SOIL, PLANTS AND WATER" (SPECIAL REPORT 19)
AUTHOR: GOERING, JOHN D./MSU * DOLLHOPF, DOUGLAS J./MSU * NEUMAN, DENNIS R./MSU * BAUMAN, BRUCE A./MSU * MUNSHOWER, FRANK F./MSU
ADDRESSEE: /CH2M HILL * /EPA
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1060800 * 4070500
MICROFILM ROLL/FRAME NO.: 320/2107 THRU: 320/2302
KEYWORD(S): SILVER * MERCURY * THALLIUM * SELENIUM * TIN * COPPER * MANGANESE
NOTES: UPDATE 02

FILE: 4070600 DOCNO: 0131260 DATE: JUN. 12, 1986 PAGE: 35
TITLE: (LETTERS TO AREA RANCHERS TRANSMITTING COMPLETED ANALYSIS OF BLOOD, BLOOD SERUM AND HAIR SAMPLES COLLECTED IN 1985; ATTACHED MAILING LIST)
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1170503
MICROFILM ROLL/FRAME NO.: 321/0002 THRU: 321/0036
KEYWORD(S): LEAD * CADMIUM * ARSENIC * ZINC
NOTES: UPDATE 02

FILE: 4070600 DOCNO: 0131295 DATE: JUL. 9, 1986 PAGE: 74
TITLE: (LETTERS CONTAINING INFORMATION CONCERNING COMPLETED ANALYSIS OF BLOOD, BLOOD SERUM AND HAIR SAMPLES COLLECTED FROM CATTLE ON AREA RANCHES FOR HEAVY METAL CONCENTRATIONS)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):1170504
MICROFILM ROLL/FRAME NO.: 321/0037 THRU: 321/0110
KEYWORD(S): ARSENIC * CADMIUM * LEAD * ZINC
NOTES: UPDATE 02

FILE: 4070600 DOCNO: 0131369 DATE: DEC. 27, 1988 PAGE: 97
TITLE: (DISCUSSES AND TRANSMITS ATTACHED "DIAGNOSTIC CRITERIA FOR CADMIUM IN CATTLE KIDNEY: AND APPENDICES 1, 2, 3")
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: DOLLHOPF * NEUMAN * ROGNESS * BARUTH
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 321/0111 THRU: 321/0207
KEYWORD(S): CADMIUM * ARSENIC * LEAD * ZINC
NOTES: UPDATE 02

FILE: 4070600 DOCNO: 0131466 DATE: NOV. 18, 1988 PAGE: 20
TITLE: (TRANSMITS ATTACHED 1986 MONITORING RESULTS)
AUTHOR: BUNTE, DAVE/CH2M HILL
ADDRESSEE: DOLLHOPF, DOUG/MSU
CC: BROWN * ROGNESS
QUALIFIER(S): MARGINALIA * **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 321/0208 THRU: 321/0227
KEYWORD(S): CADMIUM * ARSENIC * MERCURY * COPPER * LEAD * ZINC * SELENIUM * IRON
NOTES: UPDATE 02

FILE: 4070600 DOCNO: 0131486 DATE: DEC. 1, 1988 PAGE: 2
TITLE: (NOTES ON CADMIUM ACTION LEVELS AND INTERNAL DIRECTIVES USED IN CATTLE TISSUE SAMPLING; NOTES ON CONVERSATIONS IN TRYING TO REACH HONSTEAD)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * HANDWRITTEN
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 321/0228 THRU: 321/0229
KEYWORD(S): CADMIUM
NOTES: UPDATE 02

FILE: 4070600 DOCNO: 0162136 DATE: APR. 1989 PAGE: 59
TITLE: "FINAL DATA VALIDATION AND REDUCTION REPORT ASARCO EAST HELENA PHASE 2 RI CATTLE AND FISH DATA" (ATTACHED TRANSMITTAL FROM HARVEY)
AUTHOR: /WESTON
ADDRESSEE: /ASARCO
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):4070700
MICROFILM ROLL/FRAME NO.: 321/0230 THRU: 321/0288
KEYWORD(S): LEAD * ZINC * MERCURY * ARSENIC * CADMIUM
NOTES: UPDATE 02

FILE: 4070700 DOCNO: 0131488 DATE: JUN. 24, 1986 PAGE: 18
TITLE: (TRANSMITS ATTACHED SCOPE OF WORK AND SCHEDULE FOR ASARCO RI FISH AND WILDLIFE INVESTIGATION)
AUTHOR: TAYLOR, GENE/EPA
ADDRESSEE: JONES, BILL/FWS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 321/0289 THRU: 321/0306
NOTES: UPDATE 02

FILE: 4070700 DOCNO: 0131506 DATE: JUL. 22, 1986 PAGE: 12
TITLE: "SCOPE OF WORK (SOW) ASARCO RI FISH AND WILDLIFE SURVEY" (ATTACHED TRANSMITTAL FROM BARUTH)
AUTHOR: /EPA
ADDRESSEE: /FWS
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * PROCESS PONDS
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):2030400
MICROFILM ROLL/FRAME NO.: 321/0307 THRU: 321/0318
NOTES: UPDATE 02

FILE: 4070700 DOCNO: 0131518 DATE: AUG. 7, 1986 PAGE: 26
TITLE: (TRANSMITS ATTACHED REVISED SCOPE OF WORK FOR ASARCO RI/FS WILDLIFE SURVEY, FISH AND WILDLIFE INVESTIGATION CONTACT LIST, PRELIMINARY SCHEMES FOR WILDLIFE COLLECTION)
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 321/0319 THRU: 321/0344
NOTES: UPDATE 02

FILE: 4070700 DOCNO: 0162195 DATE: MAR. 21, 1989 PAGE: 2
TITLE: (STATEMENT OF REQUIREMENT OF COMPLIANCE WITH ENDANGERED SPECIES ACT; SPECIES IDENTIFIED FOR SITE)
AUTHOR: MCMASTER, KEMPER M./FWS
ADDRESSEE: FARMER, PATRICK/WESTERN TECHNOLOGY AND ENGINEERING
CC: JACKSON * STEWART * BROWN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 321/0345 THRU: 321/0346
KEYWORD(S): ENDANGERED SPECIES * WETLANDS
NOTES: UPDATE 02

FILE: 4070700 DOCNO: 424661 DATE: FEB. 9, 1993 PAGE: 2
TITLE: (PROGRESS REPORT FOR TECHNICAL ASSISTANCE ACTIVITIES SEP. 1 - DEC. 31, 1992)
AUTHOR: HARMS, DALE/FWS
ADDRESSEE: BROWN, SCOTT/EPA
CC: JACKSON * STEWART * /FWS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/2343 THRU: 627/2344
NOTES: UPDATE 07

FILE: 4070800 DOCNO: 424662 DATE: APR. 19, 1993 PAGE: 10
TITLE: (EARLY DATA ON POST EXCAVATION AT WILSON DITCH)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 627/2345 THRU: 627/2355
KEYWORD(S): ARSENIC * LEAD
NOTES: UPDATE 07

FILE: 4070800 DOCNO: 424663 DATE: APR. 27, 1993 PAGE: 7
ATTACHED DOC(S): 424664 THRU: 424665
TITLE: (DISCUSSES WILSON DITCH REMOVAL AND REPLACEMENT INFORMATION)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/2356 THRU: 627/2362
KEYWORD(S): ARSENIC * LEAD * SOIL
NOTES: UPDATE 07

FILE: 4070800 DOCNO: 424664 DATE: APR. 26, 1993 PAGE: 1
ATTACHED TO: 424663
TITLE: (DISCUSSES EXCAVATION OF WILSON DITCH)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * INCOMPLETE * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/2363 THRU: 627/2363
NOTES: UPDATE 07

FILE: 4070800 DOCNO: 424665 DATE: APR. 26, 1993 PAGE: 1
ATTACHED TO: 424663
TITLE: (DISCUSSES EXCAVATION AND RELOCATION OF WILSON DITCH)
AUTHOR: WING, THOMAS J./HYDROMETRICS
ADDRESSEE: BURNHAM, DON
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 627/2364 THRU: 627/2364
NOTES: UPDATE 07

FILE: 4070800 DOCNO: 424666 DATE: OCT. 5, 1993 PAGE: 1
TITLE: (SAMPLE RESULTS FOR WILSON DITCH REVIEWED BY BROWN AND DAVIS)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: NOTES
MICROFILM ROLL/FRAME NO.: 627/2365 THRU: 627/2365
NOTES: UPDATE 07

FILE: 4080000 DOCNO: 425976 DATE: AUG. 1, 1994 PAGE: 1
TITLE: (PROVIDES BRIEF SUMMARY OF LEAD ABATEMENT AND REMEDIATION PLANS FOR EAST HELENA SITE)
AUTHOR: SCOTT, JAMES O./MDHES
ADDRESSEE: TUCKER, GLENN/ATSDR
CC: BROWN * /MDHES
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 738/1623 THRU: 738/1623
NOTES: UPDATE 09

FILE: 4080000 DOCNO: 434657 DATE: 1994 PAGE: 8
TITLE: "CONSEQUENCES OF LEAD EXPOSURE AND IRON SUPPLEMENTATION ON CHILDHOOD DEVELOPMENT AT AGE 4 YEARS"
AUTHOR: WASSERMAN, G. A./NEW YORK STATE PSYCHIATRIC INSTITUTE * GRAZIANO, J. H./COLUMBIA UNIVERSITY * FACTOR-LITVAK, P./COLUMBIA UNIVERSITY * POPOVAC, D./UNIVERSITY OF PRISTINA * MORINA, N./UNIVERSITY OF PRISTINA * MUSABEGOVIC, A./COLUMBIA UNIVERSITY * VRENEZI, N./UNIVERSITY OF PRISTINA * CAPUNI-PARACKA, S./DOM ZDRAVLJA * LEKIC, V./MEDICINSKI CENTAR * PRETENI-REDJEPI, E./MEDICINSKI CENTAR * HADZIALJEVIC, S./DOM ZDRAVLJA * SLAVKOVICH, V./COLUMBIA UNIVERSITY * KLINE, J./NEW YORK STATE PSYCHIATRIC INSTITUTE * SHROUT, P./NEW YORK UNIVERSITY * STEIN, Z./NEW YORK STATE PSYCHIATRIC INSTITUTE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 738/1624 THRU: 738/1631
NOTES: UPDATE 09

FILE: 4080000 DOCNO: 434658 DATE: AUG. 5, 1994 PAGE: 3
TITLE: "MORBIDITY AND MORTALITY WEEKLY REPORT: BLOOD LEAD LEVELS - UNITED STATES, 1988-1991"
AUTHOR: /USDHHS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 738/1632 THRU: 738/1634
NOTES: UPDATE 09

FILE: 4080000 DOCNO: 450216 DATE: MAY 8, 1996 PAGE: 6
TITLE: (TRANSMITS ATTACHED THIRD QUARTERLY REPORT JAN. 1 - MAR. 31, 1996 OF LCCCHD LEAD EDUCATION AND ABATEMENT PROGRAM)
AUTHOR: MILES, JOAN/LCCCHD
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 912/0298 THRU: 912/0303
NOTES: UPDATE 13

FILE: 4080000 DOCNO: 450269 DATE: JUN. 30, 1996 PAGE: 5
TITLE: (FOURTH QUARTERLY REPORT APR. 1 - JUN. 30, 1996 FOR EAST HELENA LEAD EDUCATION AND ABATEMENT PROGRAM)
AUTHOR: /LCCCHD
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 912/0304 THRU: 912/0308
NOTES: UPDATE 13

FILE: 4080000 DOCNO: 450270 DATE: JUL. 18, 1996 PAGE: 1
TITLE: (TRANSMITS FOURTH QUARTERLY REPORT APR. 1 - JUN. 30, 1996 FOR EAST HELENA LEAD EDUCATION AND ABATEMENT PROGRAM)
AUTHOR: MILES, JOAN/LCCCHD
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NICKEL * SPICKELMIER * SHAW * TEST * WING * DAVIS * ROBBINS
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 912/0309 THRU: 912/0309
NOTES: UPDATE 13

FILE: 4080000 DOCNO: 450334 DATE: NOV. 7, 1996 PAGE: 1
TITLE: "EH (EAST HELENA) LEAD EDUCATION AND ABATEMENT PROGRAM PROGRAM EVALUATION CRITERIA" (LCCCHD EARLY RECOMMENDATIONS)
AUTHOR: /(LCCCHD)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * DRAFT
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 973/0021 THRU: 973/0021
NOTES: UPDATE 14

FILE: 4080000 DOCNO: 450375 DATE: OCT. 1996(E) PAGE: 3
TITLE: (OCT. 3, 1996 LEAD EDUCATION AND ABATEMENT PROGRAM MINUTES)
AUTHOR: /(PROGRAM ADVISORY COMMITTEE)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 973/0022 THRU: 973/0024
NOTES: UPDATE 14

FILE: 4080000 DOCNO: 450377 DATE: OCT. 30, 1996 PAGE: 5
TITLE: (TRANSMITS ATTACHED JUL. 1 - SEP. 30, 1996 LEAD EDUCATION AND ABATEMENT PROGRAM PROGRAM YEAR 2 1ST (FIRST) QUARTER REPORT)
AUTHOR: MILES, JOAN/LCCCHD
ADDRESSEE: BROWN, D. SCOTT/EPA
CC: NICKEL * SPICKELMIER * SHAW * TEST * WING * DAVIS * ROBBINS
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 973/0025 THRU: 973/0029
NOTES: UPDATE 14

FILE: 4080000 DOCNO: 450380 DATE: DEC. 13, 1996 PAGE: 9
TITLE: (DEC. 13, 1996 LEAD PROGRAM ADVISORY COMMITTEE MEETING AGENDA; ATTACHED NOV. 7, 1996 MINUTES AND DRAFT SOIL DISTURBANCE/DISPOSAL REGULATIONS WITH COMMENTS)
AUTHOR: /PROGRAM ADVISORY COMMITTEE
QUALIFIER(S): ORIGINAL * MARGINALIA * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 973/0037 THRU: 973/0045
NOTES: UPDATE 14

FILE: 4080000 DOCNO: 450384 DATE: JAN. 28, 1997 PAGE: 6
TITLE: ("2ND (SECOND) QUARTER REPORT: OCT. 1- DEC. 30, 1996 EH (EAST HELENA) LEAD EDUCATION AND ABATEMENT PROGRAM LCCCHD (LEWIS AND CLARCK COUNTY HEALTH DEPARTMENT) PROGRAM YEAR 2; ATTACHED TRANSMITTALS FROM MILES TO BROWN AND WARDELL)
AUTHOR: /(LCCCHD)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 973/0046 THRU: 973/0051
NOTES: UPDATE 14

FILE: 4080000 DOCNO: 450387 DATE: APR. 3, 1997 PAGE: 5
TITLE: (APR. 3, 1997 LEAD PROGRAM ADVISORY COMMITTEE MEETING AGENDA; ATTACHED MAR. 6, 1997 MINUTES)
AUTHOR: /PROGRAM ADVISORY COMMITTEE
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 973/0052 THRU: 973/0056
NOTES: UPDATE 14

FILE: 4080000 DOCNO: 450414 DATE: MAY 1, 1997 PAGE: 14
TITLE: (NOTES FROM MAY 1, 1997 LEAD PROGRAM ADVISORY COMMITTEE MEETING; ATTACHED FISCAL YEAR 1998 BUDGET SHEET, AGENDA AND APR. 3, 1997 MINUTES)
AUTHOR: (BROWN, SCOTT/EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * HANDWRITTEN * ORIGINAL
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 1020/0510 THRU: 1020/0523
NOTES: UPDATE 15

FILE: 4080000 DOCNO: 450482 DATE: JUN. 9, 1997 PAGE: 4
TITLE: "EAST HELENA LEAD EDUCATION AND ABATEMENT PROGRAM, LEWIS AND CLARK CITY COUNTY HEALTH DEPARTMENT (LCCCHD), PROGRAM YEAR 2, 3RD [THIRD] QUARTER REPORT: JAN. 1, 1997 - MAR. 31, 1997"
AUTHOR: /LCCCHD
ADDRESSEE: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1020/0524 THRU: 1020/0527
NOTES: UPDATE 15

FILE: 4080000 DOCNO: 450523 DATE: JUN. 2, 1997 PAGE: 4
TITLE: (ANNOUNCES JUN. 5, 1997 LEAD PROGRAM ADVISORY COMMITTEE MEETING AND AGENDA; MAY 1, 1997 EAST HELENA LEAD EDUCATION AND ABATEMENT PROGRAM ADVISORY COMMITTEE MEETING MINUTES ATTACHED)
AUTHOR: /LEAD PROGRAM ADVISORY COMMITTEE
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 1020/0528 THRU: 1020/0531
KEYWORD(S): LEAD
NOTES: UPDATE 15

FILE: 4080000 DOCNO: 450526 DATE: AUG. 14, 1997 PAGE: 1
TITLE: (CLARIFIES LEWIS AND CLARK COUNTY POSITION ON ASARCO DRAFT PROPOSED PLAN FOR LEAD EDUCATION AND ABATEMENT PROGRAM INCLUDING ISSUES OF STAFFING AND SUPERVISION, EPA ADVISORY CAPACITY, AND REGULATORY AUTHORITY)
AUTHOR: BOWSHER, JOAN/LCCCHD
ADDRESSEE: BROWN, SCOTT/EPA
CC: (HILLERY) * (BOHAN)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL * MARGINALIA
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1020/0532 THRU: 1020/0532
NOTES: UPDATE 15

FILE: 4080000 DOCNO: 450527 DATE: AUG. 28, 1997 PAGE: 4
TITLE: (ANNOUNCES SEP. 4, 1997 LEAD PROGRAM ADVISORY COMMITTEE MEETING AND AGENDA; AUG. 7, 1997 EAST HELENA LEAD EDUCATION AND ABATEMENT PROGRAM ADVISORY COMMITTEE MEETING MINUTES ATTACHED)
AUTHOR: /LEAD PROGRAM ADVISORY COMMITTEE
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 1020/0533 THRU: 1020/0536
KEYWORD(S): LEAD
NOTES: UPDATE 15

FILE: 4080000 DOCNO: 450546 DATE: SEP. 26, 1997 PAGE: 5
TITLE: (TRANSMITS ATTACHED FISCAL YEAR 1997 LCCCHD EAST HELENA LEAD EDUCATION AND ABATEMENT PROGRAM FOURTH QUARTER REPORT)
AUTHOR: MILES, JOAN/LCCCHD
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1020/0537 THRU: 1020/0541
NOTES: UPDATE 15

FILE: 4080000 DOCNO: 450630 DATE: DEC. 1, 1997 PAGE: 1
TITLE: (ASARCO COMMENTS ON OCT. 1997 RESIDENTIAL AND AGRICULTURAL SOILS PROPOSED PLAN; ATTACHED FAXED COPY WITH TRANSMITTAL)(THIS 15 PAGE CROSS FILED DOCUMENT IS LOCATED AT 1070600/450590)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0673 THRU: 1061/0673
NOTES: UPDATE 16

FILE: 4080000 DOCNO: 450631 DATE: JAN. 1998 PAGE: 23
TITLE: "LEWIS AND CLARK COUNTY HEALTH PROFILE, JAN. 1998"
AUTHOR: FINLEY, MARTHA/LCCCHD * LUNDER, SONYA/LCCCHD * PALERMO, SUSAN/LCCCHD * WILSON, KATE/LCCCHD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1061/0674 THRU: 1061/0696
NOTES: UPDATE 16

FILE: 4080000 DOCNO: 450634 DATE: FEB. 6, 1998 PAGE: 6
TITLE: (TRANSMITS ATTACHED SECOND QUARTER REPORT, OCT. 1 - DEC. 31, 1997 EAST HELENA LEAD EDUCATION AND ABATEMENT PROGRAM)
AUTHOR: MILES, JOAN/LCCCHD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1061/0697 THRU: 1061/0702
NOTES: UPDATE 16

FILE: 4080000 DOCNO: 450755 DATE: MAY 13, 1998 PAGE: 1
TITLE: (EHCAC/C PUBLIC MEETING AGENDA)
AUTHOR: /EHCAC/C
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 1102/0621 THRU: 1102/0621
NOTES: UPDATE 17

FILE: 4080000 DOCNO: 450756 DATE: JUN. 30, 1998 PAGE: 2
TITLE: (REQUESTS RESIDENTIAL SOIL REMEDIATION AT 3355 HOFFMAN DRIVE)
AUTHOR: LUNDER, SONYA/LCCCHD
ADDRESSEE: BROWN, SCOTT/EPA
CC: SCOTT * BOWSHER * SPICKELMIER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1102/0622 THRU: 1102/0623
NOTES: UPDATE 17

FILE: 4080000 DOCNO: 465425 DATE: JAN. 5, 2001 PAGE: 69
TITLE: (FEDERAL REGISTER 40 CFR PART 745; IDENTIFICATION OF DANGEROUS LEVELS OF LEAD)
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
MICROFILM ROLL/FRAME NO.: 1407/0142 THRU: 1407/0210
NOTES: UPDATE 24

FILE: 4080000 DOCNO: 465426 DATE: JAN. 18, 2002 PAGE: 14
TITLE: (DISCUSSES AND TRANSMITS ATTACHED REGULATION GOVERNING SOIL DISPLACEMENT AND DISPOSAL FOR LEAD CONTAMINATED SOIL FROM EAST HELENA AND SURROUNDING AREA IN LEWIS AND CLARK COUNTY)
AUTHOR: BOWSHER, JOAN/LCCCHD
ADDRESSEE: MURGEL, ED/EAST HELENA MAYOR
CC: MILES * BROWN * (REED)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1407/0211 THRU: 1407/0224
NOTES: UPDATE 24

FILE: 4080000 DOCNO: 465480 DATE: JUN. 2002(E) PAGE: 1
TITLE: (RESPONDS TO ATTACHED MAY 10, 2002 MURGEL TO MCGRAW LETTER AND TRANSMITS ATTACHED EPA ASBESTOS QUESTIONS AND ANSWERS) (THIS 9 PAGE CROSS FILED DOCUMENT IS LOCATED AT 1101000/465451)
AUTHOR: DODSON, MAX/EPA
ADDRESSEE: MURGEL, EDWARD F./EAST HELENA MAYOR
CC: WARDELL * FOX * BROWN * BOHAN * HAMMER * REED * BOWSHER
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * CONCURRENCE COPY
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1452/0087 THRU: 1452/0087
NOTES: UPDATE 25

FILE: 4080000 DOCNO: 465481 DATE: MAY 10, 2002 PAGE: 1
TITLE: (DISCUSSES EAST HELENA NEGATIVE LEAD CONTAMINATION PUBLICITY; TRANSMITS ATTACHED DOCTOR: LEAD MAFIA MISINFORMS ARTICLE)(THIS 7 PAGE CROSS FILED DOCUMENT IS LOCATED AT 1101000/465450)
AUTHOR: MURGEL, EDWARD F./EAST HELENA MAYOR * CASEY, TERRIE/EAST HELENA CITY COUNCIL * BUCKMASTER, ROBERT BUCK/EAST HELENA CITY COUNCIL * KRIEGER, WAYNE/EAST HELENA CITY COUNCIL * STRAINER, ANTHONY/EAST HELENA CITY COUNCIL
ADDRESSEE: MCGRAW, JACK/EPA
CC: BURNS * BAUCUS * (REHBERG) * WARDELL * LEAD ABATEMENT PROGRAM * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1452/0088 THRU: 1452/0088
NOTES: UPDATE 25

FILE: 4080000 DOCNO: 465691 DATE: AUG. 11, 2003 PAGE: 5
TITLE: "LEWIS AND CLARK COUNTY CITY-COUNTY HEALTH DEPARTMENT(LCCCHD) LEAD EDUCATION AND ABATEMENT PROGRAM FOURTH QUARTER REPORT: APR. 1, 2003-JUN. 30, 2003 PROGRAM YEAR 8 LEAD PROGRAM OBJECTIVES AND ACTIVITIES FOR THE FOURTH QUARTER OF FISCAL YEAR 2003"
AUTHOR: /LCCCHD
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1594/0905 THRU: 1594/0909
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 4080000 DOCNO: 465692 DATE: AUG. 26, 2003 PAGE: 2
TITLE: (TRANSMITS LEAD EDUCATION AND ABATEMENT PROGRAM REPORT AND REQUESTS FUNDING THROUGH ASARCO ENVIRONMENTAL TRUST)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: DAIN, DAVID L./DOJ
CC: MAHMUD * BOHAN * BROWN * BOWSHER * MCALLISTER * ALDRICH * PFAHL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1594/0910 THRU: 1594/0911
NOTES: UPDATE 28

FILE: 4080000 DOCNO: 465694 DATE: NOV. 2003 PAGE: 4
DUPLICATE DOCUMENT: 1060706/465643
TITLE: "SUMMARY OF 2003 BLOOD LEAD DATA SET"
AUTHOR: /(LCCCHD)
ADDRESSEE: /(EPA)
QUALIFIER(S): REPRODUCTION * **ADMINISTRATIVE RECORD** * MARGINALIA * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 1594/0912 THRU: 1594/0915
NOTES: UPDATE 28

FILE: 4080000 DOCNO: 465695 DATE: NOV. 2003 PAGE: 1
TITLE: "2003 EAST HELENA BLOOD LEAD AND SOIL LEAD DATA"
AUTHOR: /(LCCCHD)
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA * MARGINALIA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 1594/0916 THRU: 1594/0916
KEYWORD(S): LEAD
NOTES: UPDATE 28

FILE: 4080000 DOCNO: 465696 DATE: NOV. 3, 2003 PAGE: 37
TITLE: (TRANSMITS ATTACHED OCT. 31, 2003 BRATTIN TO BROWN EMAIL AND COUNTY LEAD ABATEMENT PROGRAM DATA RESULTS OF 2003 BLOOD SCREENING MATCHED WITH KNOWN LEAD SOIL)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: WARDELL, JOHN/EPA * FOX, BOB/ EPA * BOHAN, SUZANNE/EPA * MILLER, AUBREY/EPA * WEIS, CHRIS/EPA * HAMMER, DIANA/EPA * STRAUSBAUGH, DAN/EPA
CC: BOWSHER * MILES * REED * ANDERSEN * KIRLEY * CAPDEVILLE * OLSEN * SPENCE
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * INCOMPLETE * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1594/0917 THRU: 1594/0953
NOTES: UPDATE 28

FILE: 4080000 DOCNO: 465748 DATE: JUN. 2, 2004 PAGE: 1
DUPLICATE DOCUMENT: 1060706/465726
TITLE: (BLOOD LEAD DATA FOR CHILDREN 0-72 MONTHS)
AUTHOR: /LCCCHD
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 1660/0036 THRU: 1660/0036
NOTES: UPDATE 29

FILE: 4080000 DOCNO: 465792 DATE: NOV. 4, 2004 PAGE: 3
TITLE: (2004 BLOOD LEAD SCREENING BREAKDOWN TEST RESULTS)
AUTHOR: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: DATA
MICROFILM ROLL/FRAME NO.: 1696/0229 THRU: 1696/0231
NOTES: UPDATE 30

FILE: 4080000 DOCNO: 465793 DATE: DEC. 2004 (E) PAGE: 1
TITLE: (1995-2004 BLOOD LEAD TEST RESULTS SUMMARY)
AUTHOR: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1696/0232 THRU: 1696/0232
NOTES: UPDATE 30

FILE: 4080000 DOCNO: 465815 DATE: MAR. 24, 2005 PAGE: 3
DUPLICATE DOCUMENT: 1060706/465800
TITLE: (RESPONDS TO INCLUDED MAR. 22, 2005 WILLIAMS EMAIL TRANSMITTING ATTACHED REVISED 2004 BLOOD SCREENING INFORMATION)
AUTHOR: BROWN, SCOTT/EPA
ADDRESSEE: MILLER, AUBREY/EPA * BRATTIN, BILL/(SYRACUSE RESEARCH) * REED, (DARYL)/MDEQ
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1696/0233 THRU: 1696/0235
NOTES: UPDATE 30

FILE: 4080000 DOCNO: 465836 DATE: DEC. 31, 2004 PAGE: 5
TITLE: "LEAD EDUCATION AND ABATEMENT PROGRAM SEMI-ANNUAL REPORT THROUGH JUL. 1-DEC. 31, 2004 PROGRAM YEAR 10"
AUTHOR: /LCCCHD
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1748/0356 THRU: 1748/0360
KEYWORD(S): LEAD
NOTES: UPDATE 31

FILE: 4080000 DOCNO: 465838 DATE: MAR. 17, 2005 PAGE: 3
TITLE: (MAR. 17, 2005 LEAD EDUCATION AND ABATEMENT PROGRAM MEETING MINUTES)
AUTHOR: /LEAD PROGRAM ADVISORY COMMITTEE
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEETING NOTES
MICROFILM ROLL/FRAME NO.: 1748/0361 THRU: 1748/0363
NOTES: UPDATE 31

FILE: 4080000 DOCNO: 465840 DATE: MAY 3, 2005 PAGE: 22
TITLE: "EAST HELENA LEAD EDUCATION AND ABATEMENT PROGRAM SECOND PROGRAM EVALUATION MAY 3, 2005"
AUTHOR: /LCCCHD
/EAST HELENA LEAD EDUCATION AND ABATEMENT PROGRAM
ADDRESSEE: /(EPA)
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1748/0364 THRU: 1748/0385
NOTES: UPDATE 31

FILE: 4080000 DOCNO: 465841 DATE: MAY 13, 2005 PAGE: 1
TITLE: (APPROVES AND TRANSMITS FISCAL YEAR 2006 LEAD EDUCATION AND ABATEMENT PROGRAM [LEAP] BUDGET)
AUTHOR: ROBBINS, DONALD A./ASARCO
ADDRESSEE: BOWSHER, JOAN/LCCCHD
CC: BROWN * REED * PFAHL * NICKEL
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * INCOMPLETE
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1748/0386 THRU: 1748/0386
NOTES: UPDATE 31

FILE: 4080000 DOCNO: 465928 DATE: MAR. 21, 2007 PAGE: 5
DUPLICATE DOCUMENT: 1060801/465927
TITLE: (RESPONDS TO INCLUDED MAR. 20-21, 2007 EMAILS BETWEEN BROWN AND WILLIAMS REGARDING ATTACHED 2002-2003 INTERIOR DUST MONITORING RESULTS FOR LEWIS AND CLARK COUNTY MONITORED HOMES)
AUTHOR: WILLIAMS, JAN/LCCCHD
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: EMAIL
MICROFILM ROLL/FRAME NO.: 1908/0250 THRU: 1908/0254
KEYWORD(S): LEAD
NOTES: UPDATE 34

FILE: 4080100 DOCNO: 465862 DATE: JUL. 29, 2005 PAGE: 1
ATTACHED DOC(S): 465863
TITLE: (STATES THANKS FOR LAND USE CHANGE SAMPLING DOCUMENTATION)
AUTHOR: BOWSHER, JOAN/LCCCHD
ADDRESSEE: MASON, ERIC
CC: /LEWIS AND CLARK COUNTY PLANNING * BROWN * REED * PFAHL * LINDBERG
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1804/0052 THRU: 1804/0052
NOTES: UPDATE 32

FILE: 4080100 DOCNO: 465863 DATE: JUL. 6, 2005 PAGE: 9
ATTACHED TO: 465862
TITLE: (APPROVES ATTACHED MASON COMMERICAL MINOR SUBDIVSION REMEDIATION PLAN)
AUTHOR: BOWSHER, JOAN/LCCCHD
ADDRESSEE: MASON, ERIC
CC: /LEWIS AND CLARK COUNTY PLANNING * BROWN * REED * PFAHL * LINDBERG
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * ORIGINAL
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1804/0053 THRU: 1804/0061
NOTES: UPDATE 32

FILE: 5010000 DOCNO: 0191568 DATE: AUG. 2, 1989 PAGE: 2
TITLE: MINE WASTE CONFERENCE CALL AUG. 2, 1989 CHARACTERIZATION OF SLAG AND TAILINGS
AUTHOR: /EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: TELEPHONE CONVERSATION
MICROFILM ROLL/FRAME NO.: 321/0347 THRU: 321/0348
NOTES: UPDATE 02

FILE: 5010000 DOCNO: 0191570 DATE: AUG. 11, 1989 PAGE: 1
TITLE: "ANOTHER REPORT RAPS ASARCO"
AUTHOR: DENNISON, MIKE/INDEPENDENT RECORD
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: PUBLICATION
CROSS FILE(S):1100400
MICROFILM ROLL/FRAME NO.: 321/0349 THRU: 321/0350
NOTES: UPDATE 02

FILE: 5030300 DOCNO: 450486 DATE: JUL. 29, 1997 PAGE: 56
TITLE: "ASARCO EAST HELENA SMELTER EVALUATION OF GROUNDWATER DATA" (ATTACHED TRANSMITTAL FROM ANTONIOLI TO ZAZZALI)
AUTHOR: /PRC
ADDRESSEE: /EPA
QUALIFIER(S): SAMPLING/ANALYSES/DATA * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
CROSS FILE(S):7000000/450488
MICROFILM ROLL/FRAME NO.: 1020/0542 THRU: 1020/0600
KEYWORD(S): ARSENIC
NOTES: UPDATE 15

FILE: 6010000 DOCNO: 0200240 DATE: FEB. 27, 1990 PAGE: 1
TITLE: (INVITATION TO DEDICATION OF NEW ORE HANDLING AND STORAGE FACILITY AT ASARCO EAST HELENA PLANT)
AUTHOR: DAVIS, J. B./ASARCO
ADDRESSEE: BROWN, D. SCOTT/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * ORIGINAL
DOCUMENT TYPE: LETTER
CROSS FILE(S):1170902
MICROFILM ROLL/FRAME NO.: 321/0402 THRU: 321/0402
NOTES: UPDATE 02

FILE: 6010000 DOCNO: 0220732 DATE: JUN. 18, 1990 PAGE: 2
TITLE: (CONVERSATION WITH COEFIELD CONCERNING MOVING OUTSIDE ORE STORAGE PILES INTO NEW STORAGE AND HANDLING BUILDING)
AUTHOR: OSTRAND, LAURIE/(EPA)
ADDRESSEE: /FILES
CC: SKIE * GILLAM * HANLEY * WELLS * FINKE * KNUTSON * LUKAS * KOMP * BROWN * BOHAN * MULLEN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 321/0403 THRU: 321/0404
NOTES: UPDATE 02

FILE: 6030000 DOCNO: 0162197 DATE: MAY 3, 1989 PAGE: 5
TITLE: PRELIMINARY DETERMINATION ON PERMIT APPLICATION ORE STORAGE BUILDING (ATTACHED AIR QUALITY PERMIT 2557)
AUTHOR: CHAFEE, JEFFREY T./MDHES
ADDRESSEE: /ASARCO
CC: SANDRA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * MARGINALIA * REPRODUCTION
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 321/0405 THRU: 321/0409
NOTES: UPDATE 02

FILE: 6030300 DOCNO: 465321 DATE: MAR. 15, 2001 PAGE: 30
TITLE: (TRANSMITS ATTACHED UNVALIDATED NOV. 2000 SAMPLE EVENT ANALYSES SUMMARY REPORT)
AUTHOR: NICKEL, JON/ASARCO
ADDRESSEE: BROWN, SCOTT/EPA
QUALIFIER(S): ORIGINAL * **ADMINISTRATIVE RECORD** * SAMPLING/ANALYSES/DATA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1317/0097 THRU: 1317/0126
NOTES: UPDATE 22

FILE: 7000000 DOCNO: 450488 DATE: JUL. 29, 1997 PAGE: 1
TITLE: "ASARCO EAST HELENA SMELTER EVALUATION OF GROUNDWATER DATA" (ATTACHED TRANSMITTAL FROM ANTONIOLI TO ZAZZALI)(THIS 56 PAGE CROSS FILED DOCUMENT IS LOCATED AT 5030300/450486)
AUTHOR: /PRC
ADDRESSEE: /EPA
QUALIFIER(S): SAMPLING/ANALYSES/DATA * REPRODUCTION * **ADMINISTRATIVE RECORD**
DOCUMENT TYPE: REPORT/STUDY
MICROFILM ROLL/FRAME NO.: 1020/0601 THRU: 1020/0601
KEYWORD(S): ARSENIC
NOTES: UPDATE 15

FILE: 7000000 DOCNO: 450547 DATE: SEP. 19, 1997 PAGE: 1
TITLE: (COMMENTS ON ASARCO EAST HELENA SMELTER SITE GROUNDWATER ISSUES)(THIS 6 PAGE CROSS FILED DOCUMENT IS LOCATED AT 3010000/450542)
AUTHOR: ANTONIOLI, BRIAN/(EMI)
ADDRESSEE: ZAZZALI, SUSAN/EPA
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION * MARGINALIA
DOCUMENT TYPE: LETTER
MICROFILM ROLL/FRAME NO.: 1020/0607 THRU: 1020/0607
NOTES: UPDATE 15

FILE: 8010000 DOCNO: 465206 DATE: SEP. 27, 1999 PAGE: 3
TITLE: (SUMMARIZES SEP. 22, 1999 FINAL REVISIONS INCORPORATED INTO SEP. 27, 1999 FIVE-YEAR REVIEW)
AUTHOR: FISCHER, DEANNE/CH2M HILL
ADDRESSEE: BROWN, SCOTT/EPA
CC: BOHAN * (ANDERSEN) * CAPDEVILLE * LINCOLN
QUALIFIER(S): **ADMINISTRATIVE RECORD** * REPRODUCTION
DOCUMENT TYPE: MEMO
MICROFILM ROLL/FRAME NO.: 1172/0835 THRU: 1172/0837
NOTES: UPDATE 19