# Appendix B

# Los Alamos National Laboratory
# Environmental Restoration Project

# Electronic Data Deliverables

This document contains detailed the Electronic Data Deliverable (EDD) sheets currently in use for Standard Analysis requests. This appendix is part of a larger document and should not be used alone. Definitions for each of the fields contained within these EDDs as well as detailed instructions on how to submit data are included in "Data Dictionary for the LANL Electronic Data Deliverable."

This document will be updated as errors or omissions are detected. The most current version of this document will always be available in both postscript and portable document format (PDF) via any web browser at the following URL:

http://ees.lanl.gov/fimad/edd/

This URL will also contain tab delimited ASCII representations of the individual EDDs. EDD Sheets for the following analytical method codes are included:

AM241
GROSSAB
GROSSG
GSCAN
H3
HENC
HENG
HENGPETN
HETATB
HETET
HEXP
HG
ICPMS
ISOPU
ISOTH
ISOU
METTAL
NATU
PB210
PESTPCB
RA226
RA228
SEMIGCMS
SR90
TCN
VOAGCMS

Last Revised : 7 February 1996

| | | |
|---|---|---|
| | AM241 | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> AMERICIUM-241 | - |
| C002 | <ANALYSIS TYPE> AM241 | - |
| C003 | <<SPECTRAL DATA FILE NAME>> | - |
| C004 | <<DETECTOR TYPE>> | - |
| C005 | <<DETECTOR NUMBER>> | - |
| C006 | <<ALPHA DETECTION EFFICIENCY>> | - |
| C007 | <<ANALYSIS PROCEDURE>> | R |
| C008 | <<SAMPLE PREP PROCEDURE>> | O |
| C009 | <<PREP ANALYST NAME>> | - |
| C010 | <<DATE OF PREPARATION>> | R |
| C011 | <<CHEM ANALYST NAME>> | - |
| C012 | <<DATE OF CHEMISTRY>> | - |
| C013 | <<COUNT ANALYST NAME>> | - |
| C014 | <<DATE OF COUNT START>> | R |
| C015 | <<TIME OF COUNT START>> | O |
| C016 | <<ACQUISITION DURATION>> | - |
| C017 | <<SAMPLE SPLIT FACTOR>> | - |
| C018 | <<PRIMARY STANDARD ID>> | - |
| C019 | <<WORKING STANDARD ID>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> AM-241 | R |
| E002 | <<GROSS COUNTS>> | - |

| | | |
|---|---|---|
| E003 | <<NET COUNTS>> | - |
| E004 | <<REPORTED ACTIVITY>> | R |
| E005 | <<1 SD UNCERTAINTY>> | R |
| E006 | <<MDA>> | R |
| E007 | <<LAB QUALIFIER>> | R |
| E008 | <<LCS OR MS RECOVERY>> | * |
| G001 | <TRACER> | R |
| G002 | <<ACTIVITY ADDED>> | - |
| G003 | <<ACTIVITY RECOVERED >> | - |
| G004 | <<PERCENT RECOVERED >> | R |
| G005 | <<GROSS COUNTS>> | - |
| G006 | <<NET COUNTS>> | - |

| | | |
|---|---|---|
| | GROSSAB | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> GROSS ALPHA BETA | - |
| C002 | <ANALYSIS TYPE> GROSSAB | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<DETECTOR TYPE>> | - |
| C005 | <<DETECTOR NUMBER>> | - |
| C006 | <<ANALYST NAME>> | - |
| C007 | <<ANALYSIS PROCEDURE>> | R |
| C008 | <<SAMPLE PREP PROCEDURE>> | R |
| C009 | <<DATE OF PREPARATION>> | - |
| C010 | <<DATE OF ANALYSIS>> | R |
| C011 | <<TIME OF ANALYSIS>> | O |
| C012 | <<NET MASS >> | O |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> ALPHA | R |
| E002 | <<TOTAL ALPHA COUNTS>> | - |
| E003 | <<COUNT TIME>> | - |
| E004 | <<BACKGROUND COUNTS>> | - |
| E005 | <<DURATION BACKGROUND COUNT>> | - |
| E006 | <<EFFICIENCY>> | - |
| E007 | <<SAMPLE ACTIVITY>> | R |
| E008 | <<1 SD UNCERTAINTY>> | R |
| E009 | <<MDA>> | R |

| | | |
|---|---|---|
| E010 | <<LAB QUALIFIER>> | R |
| E011 | <<LCS OR MS RECOVERY>> | * |
| E012 | <ANALYTE> BETA | R |
| E013 | <<TOTAL BETA COUNTS>> | - |
| E014 | <<COUNT TIME>> | - |
| E015 | <<BACKGROUND COUNTS>> | - |
| E016 | <<DURATION BACKGROUND COUNT>> | - |
| E017 | <<EFFICIENCY>> | - |
| E018 | <<SAMPLE ACTIVITY>> | R |
| E019 | <<1 SD UNCERTAINTY>> | R |
| E020 | <<MDA>> | R |
| E021 | <<LAB QUALIFIER>> | R |
| E022 | <<LCS OR MS RECOVERY>> | * |

| | | |
|---|---|---|
| | GROSSG | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> GROSS GAMMA | - |
| C002 | <ANALYSIS TYPE> GROSSG | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<CALIBRATION FILE NAME>> | - |
| C005 | <<CALIBRATION DATE>> | - |
| C006 | <<DETECTOR TYPE>> | - |
| C007 | <<DETECTOR NUMBER>> | - |
| C008 | <<ANALYSIS PROCEDURE>> | R |
| C009 | <<SAMPLE PREP PROCEDURE>> | R |
| C010 | <<PREP ANALYST NAME>> | - |
| C011 | <<DATE OF PREPARATION>> | - |
| C012 | <<COUNT ANALYST>> | - |
| C013 | <<DATE OF ANALYSIS>> | R |
| C014 | <<DATE ACQUISITION START>> | - |
| C015 | <<TIME ACQUISITION START>> | - |
| C016 | <<GROSS COUNTS SAMPLE>> | - |
| C017 | <<COUNTING TIME SAMPLE>> | - |
| C018 | <<AVG BKGD COUNT RATE>> | - |
| C019 | <<AVG COUNTING EFFICIENCY>> | - |
| C020 | <<WORKING STANDARD ID>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> GROSS GAMMA | R |

| | | |
|---|---|---|
| E002 | <<REPORTED ACTIVITY>> | R |
| E003 | <<1 SD UNCERTAINTY>> | R |
| E004 | <<MDA>> | R |
| E005 | <<LAB QUALIFIER>> | R |

| | | |
|---|---|---|
| | GSCAN | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> GAMMA SPEC ISOTOPES | - |
| C002 | <ANALYSIS TYPE> GSCAN | - |
| C003 | <<SPECTRAL DATA FILE NAME>> | - |
| C004 | <<LIBRARY FILE NAME>> | - |
| C005 | <<LIBRARY FILE DATE>> | - |
| C006 | <<ENERGY CAL FILE>> | - |
| C007 | <<ENERGY CAL FILE DATE>> | - |
| C008 | <<EFFICIENCY CAL FILE>> | - |
| C009 | <<EFFICIENCY CAL FILE DATE/TIME>> | - |
| C010 | <<PEAK SHAPE FILE>> | - |
| C011 | <<PEAK SHAPE CAL FILE DATE/TIME>> | - |
| C012 | <<INTERNAL ABSORPTION CAL FILE>> | - |
| C013 | <<INTERNAL ABSORPTION CAL FILE DATE/TIME>> | - |
| C014 | <<DETECTOR ID>> | - |
| C015 | <<ANALYSIS PROCEDURE>> | R |
| C016 | <<SAMPLE PREP PROCEDURE>> | R |
| C017 | <<PREP ANALYST NAME>> | - |
| C018 | <<DATE OF PREPARATION>> | - |
| C019 | <<COUNT ANALYST NAME>> | - |
| C020 | <<DATE OF ANALYSIS>> | R |
| C021 | <<TIME OF ANALYSIS>> | O |
| C022 | <<DURATION OF COUNT >> | - |
| C023 | <<SAMPLE GEOMETRY>> | O |
| D001 | <USER> | - |

| | | |
|---|---|---|
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> AC-228 | R |
| E002 | <<REPORTED ACTIVITY>> | R |
| E003 | <<1 SD UNCERTAINTY>> | R |
| E004 | <<MDA>> | R |
| E005 | <<LAB QUALIFIER>> | R |
| E006 | <ANALYTE> AM-241 | R |
| E007 | <<REPORTED ACTIVITY>> | R |
| E008 | <<1 SD UNCERTAINTY>> | R |
| E009 | <<MDA>> | R |
| E010 | <<LAB QUALIFIER>> | R |
| E011 | <ANALYTE> ANN RAD | R |
| E012 | <<REPORTED ACTIVITY>> | R |
| E013 | <<1 SD UNCERTAINTY>> | R |
| E014 | <<MDA>> | R |
| E015 | <<LAB QUALIFIER>> | R |
| E016 | <ANALYTE> BA-140 | R |
| E017 | <<REPORTED ACTIVITY>> | R |
| E018 | <<1 SD UNCERTAINTY>> | R |
| E019 | <<MDA>> | R |
| E020 | <<LAB QUALIFIER>> | R |
| E021 | <ANALYTE> BI-211 | R |
| E022 | <<REPORTED ACTIVITY>> | R |
| E023 | <<1 SD UNCERTAINTY>> | R |
| E024 | <<MDA>> | R |
| E025 | <<LAB QUALIFIER>> | R |
| E026 | <ANALYTE> BI-212 | R |
| E027 | <<REPORTED ACTIVITY>> | R |
| E028 | <<1 SD UNCERTAINTY>> | R |
| E029 | <<MDA>> | R |
| E030 | <<LAB QUALIFIER>> | R |
| E031 | <ANALYTE> BI-214 | R |
| E032 | <<REPORTED ACTIVITY>> | R |
| E033 | <<1 SD UNCERTAINTY>> | R |
| E034 | <<MDA>> | R |
| E035 | <<LAB QUALIFIER>> | R |
| E036 | <ANALYTE> CD-109 | R |
| E037 | <<REPORTED ACTIVITY>> | R |
| E038 | <<1 SD UNCERTAINTY>> | R |
| E039 | <<MDA>> | R |
| E040 | <<LAB QUALIFIER>> | R |
| E041 | <ANALYTE> CE-139 | R |
| E042 | <<REPORTED ACTIVITY>> | R |
| E043 | <<1 SD UNCERTAINTY>> | R |
| E044 | <<MDA>> | R |

| | | |
|---|---|---|
| E045 | <<LAB QUALIFIER>> | R |
| E046 | <ANALYTE> CE-144 | R |
| E047 | <<REPORTED ACTIVITY>> | R |
| E048 | <<1 SD UNCERTAINTY>> | R |
| E049 | <<MDA>> | R |
| E050 | <<LAB QUALIFIER>> | R |
| E051 | <ANALYTE> CO-57 | R |
| E052 | <<REPORTED ACTIVITY>> | R |
| E053 | <<1 SD UNCERTAINTY>> | R |
| E054 | <<MDA>> | R |
| E055 | <<LAB QUALIFIER>> | R |
| E056 | <ANALYTE> CO-60 | R |
| E057 | <<REPORTED ACTIVITY>> | R |
| E058 | <<1 SD UNCERTAINTY>> | R |
| E059 | <<MDA>> | R |
| E060 | <<LAB QUALIFIER>> | R |
| E061 | <ANALYTE> CS-134 | R |
| E062 | <<REPORTED ACTIVITY>> | R |
| E063 | <<1 SD UNCERTAINTY>> | R |
| E064 | <<MDA>> | R |
| E065 | <<LAB QUALIFIER>> | R |
| E066 | <ANALYTE> CS-137 | R |
| E067 | <<REPORTED ACTIVITY>> | R |
| E068 | <<1 SD UNCERTAINTY>> | R |
| E069 | <<MDA>> | R |
| E070 | <<LAB QUALIFIER>> | R |
| E071 | <ANALYTE> EU-152 | R |
| E072 | <<REPORTED ACTIVITY>> | R |
| E073 | <<1 SD UNCERTAINTY>> | R |
| E074 | <<MDA>> | R |
| E075 | <<LAB QUALIFIER>> | R |
| E076 | <ANALYTE> HG-203 | R |
| E077 | <<REPORTED ACTIVITY>> | R |
| E078 | <<1 SD UNCERTAINTY>> | R |
| E079 | <<MDA>> | R |
| E080 | <<LAB QUALIFIER>> | R |
| E081 | <ANALYTE> I-129 | R |
| E082 | <<REPORTED ACTIVITY>> | R |
| E083 | <<1 SD UNCERTAINTY>> | R |
| E084 | <<MDA>> | R |
| E085 | <<LAB QUALIFIER>> | R |
| E086 | <ANALYTE> K-40 | R |
| E087 | <<REPORTED ACTIVITY>> | R |
| E088 | <<1 SD UNCERTAINTY>> | R |
| E089 | <<MDA>> | R |
| E090 | <<LAB QUALIFIER>> | R |

| | | |
|---|---|---|
| E091 | <ANALYTE> LA-140 | R |
| E092 | <<REPORTED ACTIVITY>> | R |
| E093 | <<1 SD UNCERTAINTY>> | R |
| E094 | <<MDA>> | R |
| E095 | <<LAB QUALIFIER>> | R |
| E096 | <ANALYTE> MN-54 | R |
| E097 | <<REPORTED ACTIVITY>> | R |
| E098 | <<1 SD UNCERTAINTY>> | R |
| E099 | <<MDA>> | R |
| E100 | <<LAB QUALIFIER>> | R |
| E101 | <ANALYTE> NA-22 | R |
| E102 | <<REPORTED ACTIVITY>> | R |
| E103 | <<1 SD UNCERTAINTY>> | R |
| E104 | <<MDA>> | R |
| E105 | <<LAB QUALIFIER>> | R |
| E106 | <ANALYTE> NP-237 | R |
| E107 | <<REPORTED ACTIVITY>> | R |
| E108 | <<1 SD UNCERTAINTY>> | R |
| E109 | <<MDA>> | R |
| E110 | <<LAB QUALIFIER>> | R |
| E111 | <ANALYTE> PA-231 | R |
| E112 | <<REPORTED ACTIVITY>> | R |
| E113 | <<1 SD UNCERTAINTY>> | R |
| E114 | <<MDA>> | R |
| E115 | <<LAB QUALIFIER>> | R |
| E116 | <ANALYTE>  PA-233 | R |
| E117 | <<REPORTED ACTIVITY>> | R |
| E118 | <<1 SD UNCERTAINTY>> | R |
| E119 | <<MDA>> | R |
| E120 | <<LAB QUALIFIER>> | R |
| E121 | <ANALYTE> PA-234M | R |
| E122 | <<REPORTED ACTIVITY>> | R |
| E123 | <<1 SD UNCERTAINTY>> | R |
| E124 | <<MDA>> | R |
| E125 | <<LAB QUALIFIER>> | R |
| E126 | <ANALYTE> PB-210 | R |
| E127 | <<REPORTED ACTIVITY>> | R |
| E128 | <<1 SD UNCERTAINTY>> | R |
| E129 | <<MDA>> | R |
| E130 | <<LAB QUALIFIER>> | R |
| E131 | <ANALYTE> PB-211 | R |
| E132 | <<REPORTED ACTIVITY>> | R |
| E133 | <<1 SD UNCERTAINTY>> | R |
| E134 | <<MDA>> | R |
| E135 | <<LAB QUALIFIER>> | R |
| E136 | <ANALYTE> PB-212 | R |

| | | |
|---|---|---|
| E137 | <<REPORTED ACTIVITY>> | R |
| E138 | <<1 SD UNCERTAINTY>> | R |
| E139 | <<MDA>> | R |
| E140 | <<LAB QUALIFIER>> | R |
| E141 | <ANALYTE> PB-214 | R |
| E142 | <<REPORTED ACTIVITY>> | R |
| E143 | <<1 SD UNCERTAINTY>> | R |
| E144 | <<MDA>> | R |
| E145 | <<LAB QUALIFIER>> | R |
| E146 | <ANALYTE> RA-223 | R |
| E147 | <<REPORTED ACTIVITY>> | R |
| E148 | <<1 SD UNCERTAINTY>> | R |
| E149 | <<MDA>> | R |
| E150 | <<LAB QUALIFIER>> | R |
| E151 | <ANALYTE> RA-224 | R |
| E152 | <<REPORTED ACTIVITY>> | R |
| E153 | <<1 SD UNCERTAINTY>> | R |
| E154 | <<MDA>> | R |
| E155 | <<LAB QUALIFIER>> | R |
| E156 | <ANALYTE> RA-226 | R |
| E157 | <<REPORTED ACTIVITY>> | R |
| E158 | <<1 SD UNCERTAINTY>> | R |
| E159 | <<MDA>> | R |
| E160 | <<LAB QUALIFIER>> | R |
| E161 | <ANALYTE> RN-219 | R |
| E162 | <<REPORTED ACTIVITY>> | R |
| E163 | <<1 SD UNCERTAINTY>> | R |
| E164 | <<MDA>> | R |
| E165 | <<LAB QUALIFIER>> | R |
| E166 | <ANALYTE> RU-106 | R |
| E167 | <<REPORTED ACTIVITY>> | R |
| E168 | <<1 SD UNCERTAINTY>> | R |
| E169 | <<MDA>> | R |
| E170 | <<LAB QUALIFIER>> | R |
| E171 | <ANALYTE> SE-75 | R |
| E172 | <<REPORTED ACTIVITY>> | R |
| E173 | <<1 SD UNCERTAINTY>> | R |
| E174 | <<MDA>> | R |
| E175 | <<LAB QUALIFIER>> | R |
| E176 | <ANALYTE> SN-113 | R |
| E177 | <<REPORTED ACTIVITY>> | R |
| E178 | <<1 SD UNCERTAINTY>> | R |
| E179 | <<MDA>> | R |
| E180 | <<LAB QUALIFIER>> | R |
| E181 | <ANALYTE> SR-85 | R |
| E182 | <<REPORTED ACTIVITY>> | R |

| | | |
|---|---|---|
| E183 | <<1 SD UNCERTAINTY>> | R |
| E184 | <<MDA>> | R |
| E185 | <<LAB QUALIFIER>> | R |
| E186 | <ANALYTE>  TH-227 | R |
| E187 | <<REPORTED ACTIVITY>> | R |
| E188 | <<1 SD UNCERTAINTY>> | R |
| E189 | <<MDA>> | R |
| E190 | <<LAB QUALIFIER>> | R |
| E191 | <ANALYTE> TH-234 | R |
| E192 | <<REPORTED ACTIVITY>> | R |
| E193 | <<1 SD UNCERTAINTY>> | R |
| E194 | <<MDA>> | R |
| E195 | <<LAB QUALIFIER>> | R |
| E196 | <ANALYTE> TL-208 | R |
| E197 | <<REPORTED ACTIVITY>> | R |
| E198 | <<1 SD UNCERTAINTY>> | R |
| E199 | <<MDA>> | R |
| E200 | <<LAB QUALIFIER>> | R |
| E201 | <ANALYTE> U-235 | R |
| E202 | <<REPORTED ACTIVITY>> | R |
| E203 | <<1 SD UNCERTAINTY>> | R |
| E204 | <<MDA>> | R |
| E205 | <<LAB QUALIFIER>> | R |
| E206 | <ANALYTE> Y-88 | R |
| E207 | <<REPORTED ACTIVITY>> | R |
| E208 | <<1 SD UNCERTAINTY>> | R |
| E209 | <<MDA>> | R |
| E210 | <<LAB QUALIFIER>> | R |
| E211 | <ANALYTE> ZN-65 | R |
| E212 | <<REPORTED ACTIVITY>> | R |
| E213 | <<1 SD UNCERTAINTY>> | R |
| E214 | <<MDA>> | R |
| E215 | <<LAB QUALIFIER>> | R |

| | H3 | R |
|---|---|---|
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> TRITIUM | - |
| C002 | <ANALYSIS TYPE> H3 | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<ANALYSIS PROCEDURE>> | R |
| C005 | <<SAMPLE PREP PROCEDURE>> | R |
| C006 | <<PREP ANALYST NAME>> | - |
| C007 | <<DATE OF PREPARATION>> | - |
| C008 | <<COUNT ANALYST NAME>> | - |
| C009 | <<DATE OF COUNT>> | R |
| C010 | <<TIME OF COUNT START>> | O |
| C011 | <<VIAL NUMBER>> | - |
| C012 | <<COUNTER EFFICIENCY>> | - |
| C013 | <<COUNT TIME>> | - |
| C014 | << PERCENT MOISTURE>> | R |
| C015 | <<QUENCH FACTOR>> | - |
| C016 | <<NON-H3 ROI COUNT RATE >> | - |
| C017 | <<H-3 ROI COUNT RATE >> | - |
| C018 | <<H-3 ROI BACKGROUND RATE>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> H-3 | R |
| E002 | <<REPORTED ACTIVITY>> | R |
| E003 | <<1 SD UNCERTAINTY>> | R |

| | | |
|---|---|---|
| E004 | <<MDA>> | R |
| E005 | <<LAB QUALIFIER>> | R |
| E006 | <<LCS OR MS RECOVERY>> | * |

| | | |
|---|---|---|
| | HENC | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>> | R |
| B010 | <<ANALYTICAL METHOD>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <analysis> nitrocellulose | - |
| C002 | <analysis type> henc | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<ANALYST NAME>> | - |
| C005 | <<ANALYSIS PROCEDURE>> | R |
| C006 | <<SAMPLE PREP PROCEDURE>> | R |
| C007 | <<DATE OF PREPARATION>> | R |
| C008 | <<DATE OF ANALYSIS>> | R |
| C009 | <<TIME OF ANALYSIS>> | O |
| C010 | <<DILUTION FACTOR>> | R |
| C011 | <<SAMPLE WT/VOL>> | - |
| C012 | <<INJECTION VOLUME>> | - |
| C013 | <<SAMPLE EXT. FILTERED (Y/N)>> | - |
| C014 | <<FINAL EXTRACT VOLUME>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> nitrate | R |
| E002 | <<CONCENTRATION>> | R |
| E003 | <<RETENTION TIME>> | - |
| E004 | <<LAB QUALIFIER>> | R |
| E005 | <ANALYTE> nitrite | R |
| E006 | <<CONCENTRATION>> | R |
| E007 | <<RETENTION TIME>> | - |

| | | |
|---|---|---|
| E008 | <<LAB QUALIFIER>> | R |
| E009 | <ANALYTE> nitrocellulose | R |
| E010 | <<CONCENTRATION>> | R |
| E011 | <<RETENTION TIME>> | - |
| E012 | <<LAB QUALIFIER>> | R |
| H001 | <SURROGATE> 3 4-DINITROTOLUENE | R |
| H002 | <<PERCENT RECOVERED COL 1>> | R |
| H003 | <<PERCENT RECOVERED COL 2>> | O |
| H004 | <<RETENTION TIME COL 1>> | - |
| H005 | <<RETENTION TIME COL 2>> | - |
| H006 | <<LAB QUALIFIER COL 1>> | R |
| H007 | <<LAB QUALIFIER COL 2>> | O |
| H008 | <SURROGATE> 2-METHYL-5-NITROANILINE | R |
| H009 | <<PERCENT RECOVERED COL 1>> | R |
| H010 | <<PERCENT RECOVERED COL 2>> | O |
| H011 | <<RETENTION TIME COL 1>> | - |
| H012 | <<RETENTION TIME COL 2>> | - |
| H013 | <<LAB QUALIFIER COL 1>> | R |
| H014 | <<LAB QUALIFIER COL 2>> | O |

| | | |
|---|---|---|
| | HENG | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>> | R |
| B010 | <<ANALYTICAL METHOD>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> NITROGUANIDINE IN WATER & SOIL | - |
| C002 | <ANALYSIS> HENG | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<ANALYST NAME>> | - |
| C005 | <<ANALYSIS PROCEDURE>> | R |
| C006 | <<SAMPLE PREP PROCEDURE>> | R |
| C007 | <<DATE OF PREPARATION>> | R |
| C008 | <<DATE OF ANALYSIS>> | R |
| C009 | <<TIME OF ANALYSIS>> | O |
| C010 | <<DILUTION FACTOR>> | R |
| C011 | <<SAMPLE WT/VOL>> | - |
| C012 | <<INJECTION VOLUME>> | - |
| C013 | <<SAMPLE EXT. FILTERED (Y/N)>> | - |
| C014 | <<FINAL EXTRACT VOLUME>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> NITROGUANIDINE | R |
| E002 | <<CONCENTRATION>> | R |
| E003 | <<RETENTION TIME>> | - |
| E004 | <<LAB QUALIFIER>> | R |
| H001 | <SURROGATE> 3 4-DINITROTOLUENE | R |
| H002 | <<PERCENT RECOVERED COL 1>> | R |
| H003 | <<PERCENT RECOVERED COL 2>> | O |

| | | |
|---|---|---|
| H004 | <<RETENTION TIME COL 1>> | - |
| H005 | <<RETENTION TIME COL 2>> | - |
| H006 | <<LAB QUALIFIER COL 1>> | R |
| H007 | <<LAB QUALIFIER COL 2>> | O |
| H008 | <SURROGATE> 2-METHYL-5-NITROANILINE | R |
| H009 | <<PERCENT RECOVERED COL 1>> | R |
| H010 | <<PERCENT RECOVERED COL 2>> | O |
| H011 | <<RETENTION TIME COL 1>> | - |
| H012 | <<RETENTION TIME COL 2>> | - |
| H013 | <<LAB QUALIFIER COL 1>> | R |
| H014 | <<LAB QUALIFIER COL 2>> | O |

| | | |
|---|---|---|
| | HENGPETN | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>> | R |
| B010 | <<ANALYTICAL METHOD>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> NITROGLYCERINE PENTAERYTHRITOL TETRANIRATE | - |
| C002 | <ANALYSIS> HENGPETN | - |
| C003 | <<DATA FILE NAME COL 1>> | - |
| C004 | <<DATA FILE NAME COL 2>> | - |
| C005 | <<ANALYST NAME COL 1>> | - |
| C006 | <<ANALYST NAME COL 2>> | - |
| C007 | <<ANALYSIS PROCEDURE>> | R |
| C008 | <<SAMPLE PREP PROCEDURE>> | R |
| C009 | <<DATE OF PREPARATION>> | R |
| C010 | <<DATE OF ANALYSIS, COL1>> | R |
| C011 | <<DATE OF ANALYSIS, COL2>> | O |
| C012 | <<TIME OF ANALYSIS, COL1>> | O |
| C013 | <<TIME OF ANALYSIS, COL2>> | O |
| C014 | <<DILUTION FACTOR>> | R |
| C015 | <<SAMPLE WT/VOL>> | - |
| C016 | <<SAMPLE EXT. FILTERED (Y/N)>> | - |
| C017 | <<FINAL EXTRACT VOL.>> | - |
| C018 | <<INJECTION VOLUME COL 1>> | - |
| C019 | <<INJECTION VOLUME COL 2>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> NG | R |
| E002 | <<CONCENTRATION COL 1>> | R |

| | | |
|---|---|---|
| E003 | <<CONCENTRATION COL 2>> | O |
| E004 | <<RETENTION TIME COL 1>> | - |
| E005 | <<RETENTION TIME COL 2>> | - |
| E006 | <<LAB QUALIFIER COL 1>> | R |
| E007 | <<LAB QUALIFIER COL 2>> | O |
| E008 | <ANALYTE> PETN | R |
| E009 | <<CONCENTRATION COL 1>> | R |
| E010 | <<CONCENTRATION COL 2>> | O |
| E011 | <<RETENTION TIME COL 1>> | - |
| E012 | <<RETENTION TIME COL 2>> | - |
| E013 | <<LAB QUALIFIER COL 1>> | R |
| E014 | <<LAB QUALIFIER COL 2>> | O |
| H001 | <SURROGATE> 3 4-DINITROTOLUENE | R |
| H002 | <<PERCENT RECOVERED COL 1>> | R |
| H003 | <<PERCENT RECOVERED COL 2>> | O |
| H004 | <<RETENTION TIME COL 1>> | - |
| H005 | <<RETENTION TIME COL 2>> | - |
| H006 | <<LAB QUALIFIER COL 1>> | R |
| H007 | <<LAB QUALIFIER COL 2>> | O |
| H008 | <SURROGATE> 2-METHYL-5-NITROANILINE | R |
| H009 | <<PERCENT RECOVERED COL 1>> | R |
| H010 | <<PERCENT RECOVERED COL 2>> | O |
| H011 | <<RETENTION TIME COL 1>> | - |
| H012 | <<RETENTION TIME COL 2>> | - |
| H013 | <<LAB QUALIFIER COL 1>> | R |
| H014 | <<LAB QUALIFIER COL 2>> | O |

| | HETATB | |
|---|---|---|
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>> | R |
| B010 | <<ANALYTICAL METHOD>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> TRIAMINOTRINITROBENZENE | - |
| C002 | <ANALYSIS> HETATB | - |
| C003 | <<DATA FILE NAME COL 1>> | - |
| C004 | <<DATA FILE NAME COL 2>> | - |
| C005 | <<ANALYST NAME COL 1>> | - |
| C006 | <<ANALYST NAME COL 2>> | - |
| C007 | <<ANALYSIS PROCEDURE>> | R |
| C008 | <<SAMPLE PREP PROCEDURE>> | R |
| C009 | <<DATE OF PREPARATION>> | R |
| C010 | <<DATE OF ANALYSIS, COL1>> | R |
| C011 | <<DATE OF ANALYSIS, COL2>> | O |
| C012 | <<TIME OF ANALYSIS, COL1>> | O |
| C013 | <<TIME OF ANALYSIS, COL2>> | O |
| C014 | <<DILUTION FACTOR>> | R |
| C015 | <<SAMPLE WT/VOL>> | - |
| C016 | <<SAMPLE EXT. FILTERED (Y/N)>> | - |
| C017 | <<FINAL EXTRACT VOL.>> | - |
| C018 | <<INJECTION VOLUME COL 1>> | - |
| C019 | <<INJECTION VOLUME COL 2>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> TRIAMINOTRINITROBENZENE | R |
| E002 | <<CONCENTRATION COL 1>> | R |

| | | |
|---|---|---|
| E003 | <<CONCENTRATION COL 2>> | O |
| E004 | <<RETENTION TIME COL 1>> | - |
| E005 | <<RETENTION TIME COL 2>> | - |
| E006 | <<LAB QUALIFIER COL 1>> | R |
| E007 | <<LAB QUALIFIER COL 2>> | O |
| H001 | <SURROGATE> 3 4-DINITROTOLUENE | R |
| H002 | <<PERCENT RECOVERED COL 1>> | R |
| H003 | <<PERCENT RECOVERED COL 2>> | O |
| H004 | <<RETENTION TIME COL 1>> | - |
| H005 | <<RETENTION TIME COL 2>> | - |
| H006 | <<LAB QUALIFIER COL 1>> | R |
| H007 | <<LAB QUALIFIER COL 2>> | O |
| H008 | <SURROGATE> 2-METHYL-5-NITROANILINE | R |
| H009 | <<PERCENT RECOVERED COL 1>> | R |
| H010 | <<PERCENT RECOVERED COL 2>> | O |
| H011 | <<RETENTION TIME COL 1>> | - |
| H012 | <<RETENTION TIME COL 2>> | - |
| H013 | <<LAB QUALIFIER COL 1>> | R |
| H014 | <<LAB QUALIFIER COL 2>> | O |

| | | |
|---|---|---|
| | HETET | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>> | R |
| B010 | <<ANALYTICAL METHOD>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> tetrazene | - |
| C002 | <ANALYSIS> HETET | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<ANALYST NAME>> | - |
| C005 | <<ANALYSIS PROCEDURE>> | R |
| C006 | <<SAMPLE PREP PROCEDURE>> | R |
| C007 | <<DATE OF PREPARATION>> | R |
| C008 | <<DATE OF ANALYSIS>> | R |
| C009 | <<TIME OF ANALYSIS>> | O |
| C010 | <<DILUTION FACTOR>> | R |
| C011 | <<SAMPLE WT/VOL>> | - |
| C012 | <<SAMPLE EXT. FILTERED (Y/N)>> | - |
| C013 | <<FINAL EXTRACT VOL.>> | - |
| C014 | <<INJECTION VOLUME>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> tetrazene | R |
| E002 | <<CONCENTRATION>> | R |
| E003 | <<RETENTION TIME>> | - |
| E004 | <<LAB QUALIFIER>> | R |
| H001 | <SURROGATE> 3 4-DINITROTOLUENE | R |
| H002 | <<PERCENT RECOVERED COL 1>> | R |
| H003 | <<PERCENT RECOVERED COL 2>> | O |

| | | |
|---|---|---|
| H004 | <<RETENTION TIME COL 1>> | - |
| H005 | <<RETENTION TIME COL 2>> | - |
| H006 | <<LAB QUALIFIER COL 1>> | R |
| H007 | <<LAB QUALIFIER COL 2>> | O |
| H008 | <SURROGATE> 2-METHYL-5-NITROANILINE | R |
| H009 | <<PERCENT RECOVERED COL 1>> | R |
| H010 | <<PERCENT RECOVERED COL 2>> | O |
| H011 | <<RETENTION TIME COL 1>> | - |
| H012 | <<RETENTION TIME COL 2>> | - |
| H013 | <<LAB QUALIFIER COL 1>> | R |
| H014 | <<LAB QUALIFIER COL 2>> | O |

| | | |
|---|---|---|
| | HEXP | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>> | R |
| B010 | <<ANALYTICAL METHOD>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> HIGH EXPLOSIVES 8330 ANALYTES | - |
| C002 | <ANALYSIS> HEXP | - |
| C003 | <<DATA FILE NAME COL 1>> | - |
| C004 | <<DATA FILE NAME COL 2>> | - |
| C005 | <<ANALYST NAME>> | - |
| C006 | <<ANALYSIS PROCEDURE>> | R |
| C007 | <<SAMPLE PREP PROCEDURE>> | R |
| C008 | <<DATE OF PREPARATION>> | R |
| C009 | <<DATE OF ANALYSIS, COL1>> | R |
| C010 | <<DATE OF ANALYSIS, COL2>> | O |
| C011 | <<TIME OF ANALYSIS, COL1>> | O |
| C012 | <<TIME OF ANALYSIS, COL2>> | O |
| C013 | <<DILUTION FACTOR>> | R |
| C014 | <<SAMPLE WT/VOL>> | - |
| C015 | <<SAMPLE EXT. FILTERED (Y/N)>> | - |
| C016 | <<FINAL EXTRACT VOL.>> | - |
| C017 | <<COLUMN 1 ID>> | - |
| C018 | <<INJECTION VOLUME COL 1>> | - |
| C019 | <<WAVELENGTH, COL1=>> | - |
| C020 | <<COLUMN 2 ID>> | - |
| C021 | <<INJECTION VOLUME COL 2>> | - |
| C022 | <<WAVELENGTH, COL2=>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |

| | | |
|---|---|---|
| D003 | <<NN>> | - |
| E001 | <ANALYTE> 135TNB | R |
| E002 | <<CONCENTRATION COL 1>> | R |
| E003 | <<CONCENTRATION COL 2>> | O |
| E004 | <<RETENTION TIME COL 1>> | - |
| E005 | <<RETENTION TIME COL 2>> | - |
| E006 | <<LAB QUALIFIER COL 1>> | R |
| E007 | <<LAB QUALIFIER COL 2>> | O |
| E008 | <ANALYTE> 13DNB | R |
| E009 | <<CONCENTRATION COL 1>> | R |
| E010 | <<CONCENTRATION COL 2>> | O |
| E011 | <<RETENTION TIME COL 1>> | - |
| E012 | <<RETENTION TIME COL 2>> | - |
| E013 | <<LAB QUALIFIER COL 1>> | R |
| E014 | <<LAB QUALIFIER COL 2>> | O |
| E015 | <ANALYTE> 246TNT | R |
| E016 | <<CONCENTRATION COL 1>> | R |
| E017 | <<CONCENTRATION COL 2>> | O |
| E018 | <<RETENTION TIME COL 1>> | - |
| E019 | <<RETENTION TIME COL 2>> | - |
| E020 | <<LAB QUALIFIER COL 1>> | R |
| E021 | <<LAB QUALIFIER COL 2>> | O |
| E022 | <ANALYTE> 24DNT | R |
| E023 | <<CONCENTRATION COL 1>> | R |
| E024 | <<CONCENTRATION COL 2>> | O |
| E025 | <<RETENTION TIME COL 1>> | - |
| E026 | <<RETENTION TIME COL 2>> | - |
| E027 | <<LAB QUALIFIER COL 1>> | R |
| E028 | <<LAB QUALIFIER COL 2>> | O |
| E029 | <ANALYTE> 26DNT | R |
| E030 | <<CONCENTRATION COL 1>> | R |
| E031 | <<CONCENTRATION COL 2>> | O |
| E032 | <<RETENTION TIME COL 1>> | - |
| E033 | <<RETENTION TIME COL 2>> | - |
| E034 | <<LAB QUALIFIER COL 1>> | R |
| E035 | <<LAB QUALIFIER COL 2>> | O |
| E036 | <ANALYTE> 2ADNT | R |
| E037 | <<CONCENTRATION COL 1>> | R |
| E038 | <<CONCENTRATION COL 2>> | O |
| E039 | <<RETENTION TIME COL 1>> | - |
| E040 | <<RETENTION TIME COL 2>> | - |
| E041 | <<LAB QUALIFIER COL 1>> | R |
| E042 | <<LAB QUALIFIER COL 2>> | O |
| E043 | <ANALYTE> 2NT | R |
| E044 | <<CONCENTRATION COL 1>> | R |
| E045 | <<CONCENTRATION COL 2>> | O |

| | | |
|---|---|---|
| E046 | <<RETENTION TIME COL 1>> | - |
| E047 | <<RETENTION TIME COL 2>> | - |
| E048 | <<LAB QUALIFIER COL 1>> | R |
| E049 | <<LAB QUALIFIER COL 2>> | O |
| E050 | <ANALYTE> 3NT | R |
| E051 | <<CONCENTRATION COL 1>> | R |
| E052 | <<CONCENTRATION COL 2>> | O |
| E053 | <<RETENTION TIME COL 1>> | - |
| E054 | <<RETENTION TIME COL 2>> | - |
| E055 | <<LAB QUALIFIER COL 1>> | R |
| E056 | <<LAB QUALIFIER COL 2>> | O |
| E057 | <ANALYTE> 4ADNT | R |
| E058 | <<CONCENTRATION COL 1>> | R |
| E059 | <<CONCENTRATION COL 2>> | O |
| E060 | <<RETENTION TIME COL 1>> | - |
| E061 | <<RETENTION TIME COL 2>> | - |
| E062 | <<LAB QUALIFIER COL 1>> | R |
| E063 | <<LAB QUALIFIER COL 2>> | O |
| E064 | <ANALYTE> 4NT | R |
| E065 | <<CONCENTRATION COL 1>> | R |
| E066 | <<CONCENTRATION COL 2>> | O |
| E067 | <<RETENTION TIME COL 1>> | - |
| E068 | <<RETENTION TIME COL 2>> | - |
| E069 | <<LAB QUALIFIER COL 1>> | R |
| E070 | <<LAB QUALIFIER COL 2>> | O |
| E071 | <ANALYTE> HMX | R |
| E072 | <<CONCENTRATION COL 1>> | R |
| E073 | <<CONCENTRATION COL 2>> | O |
| E074 | <<RETENTION TIME COL 1>> | - |
| E075 | <<RETENTION TIME COL 2>> | - |
| E076 | <<LAB QUALIFIER COL 1>> | R |
| E077 | <<LAB QUALIFIER COL 2>> | O |
| E078 | <ANALYTE> NB | R |
| E079 | <<CONCENTRATION COL 1>> | R |
| E080 | <<CONCENTRATION COL 2>> | O |
| E081 | <<RETENTION TIME COL 1>> | - |
| E082 | <<RETENTION TIME COL 2>> | - |
| E083 | <<LAB QUALIFIER COL 1>> | R |
| E084 | <<LAB QUALIFIER COL 2>> | O |
| E085 | <ANALYTE> RDX | R |
| E086 | <<CONCENTRATION COL 1>> | R |
| E087 | <<CONCENTRATION COL 2>> | O |
| E088 | <<RETENTION TIME COL 1>> | - |
| E089 | <<RETENTION TIME COL 2>> | - |
| E090 | <<LAB QUALIFIER COL 1>> | R |
| E091 | <<LAB QUALIFIER COL 2>> | O |

| | | |
|---|---|---|
| E092 | <ANALYTE> TETRYL | R |
| E093 | <<CONCENTRATION COL 1>> | R |
| E094 | <<CONCENTRATION COL 2>> | O |
| E095 | <<RETENTION TIME COL 1>> | - |
| E096 | <<RETENTION TIME COL 2>> | - |
| E097 | <<LAB QUALIFIER COL 1>> | R |
| E098 | <<LAB QUALIFIER COL 2>> | O |
| H001 | <SURROGATE> 3 4-DINITROTOLUENE | R |
| H002 | <<PERCENT RECOVERED COL 1>> | R |
| H003 | <<PERCENT RECOVERED COL 2>> | O |
| H004 | <<RETENTION TIME COL 1>> | - |
| H005 | <<RETENTION TIME COL 2>> | - |
| H006 | <<LAB QUALIFIER COL 1>> | R |
| H007 | <<LAB QUALIFIER COL 2>> | O |
| H008 | <SURROGATE> 2-METHYL-5-NITROANILINE | R |
| H009 | <<PERCENT RECOVERED COL 1>> | R |
| H010 | <<PERCENT RECOVERED COL 2>> | O |
| H011 | <<RETENTION TIME COL 1>> | - |
| H012 | <<RETENTION TIME COL 2>> | - |
| H013 | <<LAB QUALIFIER COL 1>> | R |
| H014 | <<LAB QUALIFIER COL 2>> | O |
| H015 | <surrogate>1,2-Dinitrobenzene | R |
| H016 | <<PERCENT RECOVERED COL 1>> | R |
| H017 | <<PERCENT RECOVERED COL 2>> | O |
| H018 | <<RETENTION TIME COL 1>> | - |
| H019 | <<RETENTION TIME COL 2>> | - |
| H020 | <<LAB QUALIFIER COL 1>> | R |
| H020 | <<LAB QUALIFIER COL 2>> | O |

| | | |
|---|---|---|
| | HG | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> MERCURY | - |
| C002 | <ANALYSIS TYPE>  HG | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<ANALYST NAME>> | - |
| C005 | <<ANALYSIS PROCEDURE>> | R |
| C006 | <<SAMPLE PREP PROCEDURE>> | R |
| C007 | <<DATE OF PREPARATION >> | R |
| C008 | <<DATE OF ANALYSIS>> | R |
| C009 | <<TIME OF ANALYSIS >> | O |
| C010 | <<DILUTION FACTOR>> | R |
| C011 | <<PERCENT SOLIDS>> | R |
| C012 | <<PH>> | O |
| C013 | <<SAMPLE PRESERVATION>> | R |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> HG | R |
| E002 | <<CONCENTRATION>> | R |
| E003 | <<LAB QUALIFIER>> | R |

| | | |
|---|---|---|
| | ICPMS | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> ICPMS METALS | - |
| C002 | <ANALYSIS TYPE> ICPMS | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<ANALYST NAME>> | - |
| C005 | <<ANALYSIS PROCEDURE>> | R |
| C006 | <<SAMPLE PREP PROCEDURE>> | R |
| C007 | <<DATE OF PREPARATION >> | R |
| C008 | <<DATE OF ANALYSIS>> | R |
| C009 | <<TIME OF ANALYSIS>> | O |
| C010 | <<DILUTION FACTOR>> | R |
| C011 | <<PERCENT SOLIDS>> | R |
| C012 | <<SAMPLE PRESERVATION>> | R |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> U-234 | R |
| E002 | <<TECHNIQUE CODE>> | - |
| E003 | <<CONCENTRATION>> | R |
| E004 | <<LAB QUALIFIER>> | R |
| E005 | <ANALYTE> U-235 | R |
| E006 | <<TECHNIQUE CODE>> | - |
| E007 | <<CONCENTRATION>> | R |
| E008 | <<LAB QUALIFIER>> | R |
| E009 | <ANALYTE> U-238 | R |

| | | |
|---|---|---|
| E010 | <<TECHNIQUE CODE>> | - |
| E011 | <<CONCENTRATION>> | R |
| E012 | <<LAB QUALIFIER>> | R |
| E013 | <ANALYTE> U | R |
| E014 | <<TECHNIQUE CODE>> | - |
| E015 | <<CONCENTRATION>> | R |
| E016 | <<LAB QUALIFIER>> | R |
| E017 | <ANALYTE> TH-230 | R |
| E018 | <<TECHNIQUE CODE>> | - |
| E019 | <<CONCENTRATION>> | R |
| E020 | <<LAB QUALIFIER>> | R |
| E021 | <ANALYTE> TH-232 | R |
| E022 | <<TECHNIQUE CODE>> | - |
| E023 | <<CONCENTRATION>> | R |
| E024 | <<LAB QUALIFIER>> | R |
| E025 | <ANALYTE> TH | R |
| E026 | <<TECHNIQUE CODE>> | - |
| E027 | <<CONCENTRATION>> | R |
| E028 | <<LAB QUALIFIER>> | R |
| E029 | <ANALYTE> TC-99 | R |
| E030 | <<TECHNIQUE CODE>> | - |
| E031 | <<CONCENTRATION>> | R |
| E032 | <<LAB QUALIFIER>> | R |

| | | |
|---|---|---|
| | ISOPU | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> PU-238 PU-239+40 ALPHA SPEC | - |
| C002 | <ANALYSIS TYPE> ISOPU | - |
| C003 | <<SPECTRAL DATA FILE NAME>> | - |
| C004 | <<DETECTOR TYPE>> | - |
| C005 | <<DETECTOR NUMBER>> | - |
| C006 | <<ALPHA DETECTION EFFICIENCY>> | - |
| C007 | <<ANALYSIS PROCEDURE>> | R |
| C008 | <<SAMPLE PREP PROCEDURE>> | R |
| C009 | <<PREP ANALYST NAME>> | - |
| C010 | <<DATE OF PREPARATION>> | R |
| C011 | <<CHEM ANALYST NAME>> | - |
| C012 | <<DATE OF CHEMISTRY>> | - |
| C013 | <<COUNT ANALYST NAME>> | - |
| C014 | <<DATE OF COUNT START>> | R |
| C015 | <<TIME OF COUNT START>> | O |
| C016 | <<ACQUISITION DURATION>> | - |
| C017 | <<SAMPLE SPLIT FACTOR>> | - |
| C018 | <<PRIMARY STANDARD ID>> | - |
| C019 | <<WORKING STANDARD ID>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> PU-238 | R |
| E002 | <<GROSS COUNTS>> | - |

| | | |
|---|---|---|
| E003 | <<NET COUNTS >> | - |
| E004 | <<REPORTED ACTIVITY>> | R |
| E005 | <<1 SD UNCERTAINTY>> | R |
| E006 | <<MDA>> | R |
| E007 | <<LAB QUALIFIER>> | R |
| E008 | <<LCS OR MS RECOVERY>> | O |
| E009 | <ANALYTE> PU-239+40 | R |
| E010 | <<GROSS COUNTS>> | - |
| E011 | <<NET COUNTS >> | - |
| E012 | <<REPORTED ACTIVITY>> | R |
| E013 | <<1 SD UNCERTAINTY>> | R |
| E014 | <<MDA>> | R |
| E015 | <<LAB QUALIFIER>> | R |
| E016 | <<LCS OR MS RECOVERY>> | O |
| G001 | <TRACER> | R |
| G002 | <<ACTIVITY ADDED>> | - |
| G003 | <<ACTIVITY RECOVERED >> | - |
| G004 | <<PERCENT RECOVERED >> | R |
| G005 | <<GROSS COUNTS>> | - |
| G006 | <<NET COUNTS>> | - |

| | | |
|---|---|---|
| | ISOTH | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> THORIUM-228 230 AND 232 | - |
| C002 | <ANALYSIS TYPE> ISOTH | - |
| C003 | <<SPECTRAL DATA FILE NAME>> | - |
| C004 | <<DETECTOR TYPE>> | - |
| C005 | <<DETECTOR NUMBER>> | - |
| C006 | <<ALPHA DETECTION EFFICIENCY>> | - |
| C007 | <<ANALYSIS PROCEDURE>> | R |
| C008 | <<SAMPLE PREP PROCEDURE>> | R |
| C009 | <<PREP ANALYST NAME>> | - |
| C010 | <<DATE OF PREPARATION>> | R |
| C011 | <<CHEM ANALYST NAME>> | - |
| C012 | <<DATE OF CHEMISTRY>> | - |
| C013 | <<COUNT ANALYST NAME>> | - |
| C014 | <<DATE OF COUNT START>> | R |
| C015 | <<TIME OF COUNT START>> | O |
| C016 | <<ACQUISITION DURATION>> | - |
| C017 | <<SAMPLE SPLIT FACTOR>> | - |
| C018 | <<PRIMARY STANDARD ID>> | - |
| C019 | <<WORKING STANDARD ID>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> TH-228 | R |
| E002 | <<GROSS COUNTS>> | - |

| | | |
|---|---|---|
| E003 | <<NET COUNTS>> | - |
| E004 | <<REPORTED ACTIVITY>> | R |
| E005 | <<1 SD UNCERTAINTY>> | R |
| E006 | <<MDA>> | R |
| E007 | <<LAB QUALIFIER>> | R |
| E008 | <<LCS OR MS RECOVERY>> | O |
| E009 | <ANALYTE> TH-230 | R |
| E010 | <<GROSS COUNTS>> | - |
| E011 | <<NET COUNTS>> | - |
| E012 | <<REPORTED ACTIVITY>> | R |
| E013 | <<1 SD UNCERTAINTY>> | R |
| E014 | <<MDA>> | R |
| E015 | <<LAB QUALIFIER>> | R |
| E016 | <<LCS OR MS RECOVERY>> | O |
| E017 | <ANALYTE> TH-232 | R |
| E018 | <<GROSS COUNTS>> | - |
| E019 | <<NET COUNTS>> | - |
| E020 | <<REPORTED ACTIVITY>> | R |
| E021 | <<1 SD UNCERTAINTY>> | R |
| E022 | <<MDA>> | R |
| E023 | <<LAB QUALIFIER>> | R |
| E024 | <<LCS OR MS RECOVERY>> | O |
| G001 | <TRACER> | R |
| G002 | <<ACTIVITY ADDED>> | - |
| G003 | <<ACTIVITY RECOVERED >> | - |
| G004 | <<PERCENT RECOVERED >> | R |
| G005 | <<GROSS COUNTS>> | - |
| G006 | <<NET COUNTS>> | - |

| | | |
|---|---|---|
| | ISOU | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> U-234 U-235+6 U-238 PU-239/240 | - |
| C002 | <ANALYSIS TYPE> ISOU | - |
| C003 | <<SPECTRAL DATA FILE NAME>> | - |
| C004 | <<DETECTOR TYPE>> | - |
| C005 | <<DETECTOR NUMBER>> | - |
| C006 | <<ALPHA DETECTION EFFICIENCY>> | - |
| C007 | <<ANALYSIS PROCEDURE>> | R |
| C008 | <<SAMPLE PREP PROCEDURE>> | R |
| C009 | <<PREP ANALYST NAME>> | - |
| C010 | <<DATE OF PREPARATION>> | R |
| C011 | <<CHEM ANALYST NAME>> | - |
| C012 | <<DATE OF CHEMISTRY>> | - |
| C013 | <<COUNT ANALYST NAME>> | - |
| C014 | <<DATE OF COUNT START>> | R |
| C015 | <<TIME OF COUNT START>> | O |
| C016 | <<ACQUISITION DURATION>> | - |
| C017 | <<SAMPLE SPLIT FACTOR>> | - |
| C018 | <<PRIMARY STANDARD ID>> | - |
| C019 | <<WORKING STANDARD ID>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> U-234 | R |
| E002 | <<GROSS COUNTS>> | - |

| | | |
|---|---|---|
| E003 | <<NET COUNTS>> | - |
| E004 | <<REPORTED ACTIVITY>> | R |
| E005 | <<1 SD UNCERTAINTY>> | R |
| E006 | <<MDA>> | R |
| E007 | <<LAB QUALIFIER>> | R |
| E008 | <<LCS OR MS RECOVERY>> | O |
| E009 | <ANALYTE> U-235+6 | R |
| E010 | <<GROSS COUNTS>> | - |
| E011 | <<NET COUNTS>> | - |
| E012 | <<REPORTED ACTIVITY>> | R |
| E013 | <<1 SD UNCERTAINTY>> | R |
| E014 | <<MDA>> | R |
| E015 | <<LAB QUALIFIER>> | R |
| E016 | <<LCS OR MS RECOVERY>> | O |
| E017 | <ANALYTE> U-238 | R |
| E018 | <<GROSS COUNTS>> | - |
| E019 | <<NET COUNTS>> | - |
| E020 | <<REPORTED ACTIVITY>> | R |
| E021 | <<1 SD UNCERTAINTY>> | R |
| E022 | <<MDA>> | R |
| E023 | <<LAB QUALIFIER>> | R |
| E024 | <<LCS OR MS RECOVERY>> | O |
| G001 | <TRACER> | R |
| G002 | <<ACTIVITY ADDED>> | - |
| G003 | <<ACTIVITY RECOVERED >> | - |
| G004 | <<PERCENT RECOVERED >> | R |
| G005 | <<GROSS COUNTS>> | - |
| G006 | <<NET COUNTS>> | - |

| | | |
|---|---|---|
| | METTAL | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> TARGET ANALYTE METALS WITH/WITHOUT CN | - |
| C002 | <ANALYSIS TYPE> METTAL | - |
| C003 | <ANALYSIS TYPE> METTALCN | - |
| C004 | <ANALYSIS TYPE> METTCLP | - |
| C005 | <<DATA FILE NAME>> | - |
| C006 | <<ANALYST NAME>> | - |
| C007 | <<ANALYSIS PROCEDURE>> | R |
| C008 | <<SAMPLE PREP PROCEDURE>> | R |
| C010 | <<DATE OF PREPARATION >> | R |
| C011 | <<DATE OF ANALYSIS>> | R |
| C012 | <<TIME OF ANALYSIS>> | O |
| C013 | <<DILUTION FACTOR>> | R |
| C014 | <<PERCENT SOLIDS>> | O |
| C015 | <<SAMPLE PRESERVATION >> | R |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> ALUMINUM | R |
| E002 | <<TECHNIQUE CODE>> | R |
| E003 | <<CONCENTRATION>> | R |
| E004 | <<LAB QUALIFIER>> | R |
| E005 | <ANALYTE>ANTIMONY | R |
| E006 | <<TECHNIQUE CODE>> | R |
| E007 | <<CONCENTRATION>> | R |

| | | |
|---|---|---|
| E008 | <<LAB QUALIFIER>> | R |
| E009 | <ANALYTE> ARSENIC | R |
| E010 | <<TECHNIQUE CODE>> | R |
| E011 | <<CONCENTRATION>> | R |
| E012 | <<LAB QUALIFIER>> | R |
| E013 | <ANALYTE> BARIUM | R |
| E014 | <<TECHNIQUE CODE>> | R |
| E015 | <<CONCENTRATION>> | R |
| E016 | <<LAB QUALIFIER>> | R |
| E017 | <ANALYTE> BERYLLIUM | R |
| E018 | <<TECHNIQUE CODE>> | R |
| E019 | <<CONCENTRATION>> | R |
| E020 | <<LAB QUALIFIER>> | R |
| E021 | <ANALYTE> CADMIUM | R |
| E022 | <<TECHNIQUE CODE>> | R |
| E023 | <<CONCENTRATION>> | R |
| E024 | <<LAB QUALIFIER>> | R |
| E025 | <ANALYTE> CALCIUM | R |
| E026 | <<TECHNIQUE CODE>> | R |
| E027 | <<CONCENTRATION>> | R |
| E028 | <<LAB QUALIFIER>> | R |
| E029 | <ANALYTE> CHROMIUM | R |
| E030 | <<TECHNIQUE CODE>> | R |
| E031 | <<CONCENTRATION>> | R |
| E032 | <<LAB QUALIFIER>> | R |
| E033 | <ANALYTE> COBALT | R |
| E034 | <<TECHNIQUE CODE>> | R |
| E035 | <<CONCENTRATION>> | R |
| E036 | <<LAB QUALIFIER>> | R |
| E037 | <ANALYTE> COPPER | R |
| E038 | <<TECHNIQUE CODE>> | R |
| E039 | <<CONCENTRATION>> | R |
| E040 | <<LAB QUALIFIER>> | R |
| E041 | <ANALYTE> IRON | R |
| E042 | <<TECHNIQUE CODE>> | R |
| E043 | <<CONCENTRATION>> | R |
| E044 | <<LAB QUALIFIER>> | R |
| E045 | <ANALYTE> LEAD | R |
| E046 | <<TECHNIQUE CODE>> | R |
| E047 | <<CONCENTRATION>> | R |
| E048 | <<LAB QUALIFIER>> | R |
| E049 | <ANALYTE> MAGNESIUM | R |
| E050 | <<TECHNIQUE CODE>> | R |
| E051 | <<CONCENTRATION>> | R |
| E052 | <<LAB QUALIFIER>> | R |
| E053 | <ANALYTE> MANGANESE | R |

| | | |
|---|---|---|
| E054 | <<TECHNIQUE CODE>> | R |
| E055 | <<CONCENTRATION>> | R |
| E056 | <<LAB QUALIFIER>> | R |
| E057 | <ANALYTE> NICKEL | R |
| E058 | <<TECHNIQUE CODE>> | R |
| E059 | <<CONCENTRATION>> | R |
| E060 | <<LAB QUALIFIER>> | R |
| E061 | <ANALYTE> POTASSIUM | R |
| E062 | <<TECHNIQUE CODE>> | R |
| E063 | <<CONCENTRATION>> | R |
| E064 | <<LAB QUALIFIER>> | R |
| E065 | <ANALYTE> SELENIUM | R |
| E066 | <<TECHNIQUE CODE>> | R |
| E067 | <<CONCENTRATION>> | R |
| E068 | <<LAB QUALIFIER>> | R |
| E069 | <ANALYTE> SILVER | R |
| E070 | <<TECHNIQUE CODE>> | R |
| E071 | <<CONCENTRATION>> | R |
| E072 | <<LAB QUALIFIER>> | R |
| E073 | <ANALYTE> SODIUM | R |
| E074 | <<TECHNIQUE CODE>> | R |
| E075 | <<CONCENTRATION>> | R |
| E076 | <<LAB QUALIFIER>> | R |
| E077 | <ANALYTE> THALLIUM | R |
| E078 | <<TECHNIQUE CODE>> | R |
| E079 | <<CONCENTRATION>> | R |
| E080 | <<LAB QUALIFIER>> | R |
| E081 | <ANALYTE> VANADIUM | R |
| E082 | <<TECHNIQUE CODE>> | R |
| E083 | <<CONCENTRATION>> | R |
| E084 | <<LAB QUALIFIER>> | R |
| E085 | <ANALYTE> ZINC | R |
| E086 | <<TECHNIQUE CODE>> | R |
| E087 | <<CONCENTRATION>> | R |
| E088 | <<LAB QUALIFIER>> | R |
| E089 | <ANALYTE> CYANIDE | R |
| E090 | <<TECHNIQUE CODE>> | R |
| E091 | <<CONCENTRATION>> | R |
| E092 | <<LAB QUALIFIER>> | R |
| E093 | <ANALYTE> MERCURY | R |
| E094 | <<TECHNIQUE CODE>> | R |
| E095 | <<CONCENTRATION>> | R |
| E096 | <<LAB QUALIFIER>> | R |
| E097 | <ANALYTE> BORON | R |
| E098 | <<TECHNIQUE CODE>> | R |
| E099 | <<CONCENTRATION>> | R |

| | | |
|---|---|---|
| E100 | <<LAB QUALIFIER>> | R |
| E101 | <ANALYTE> LITHIUM | R |
| E102 | <<TECHNIQUE CODE>> | R |
| E103 | <<CONCENTRATION>> | R |
| E104 | <<LAB QUALIFIER>> | R |
| E105 | <ANALYTE> CESIUM | R |
| E106 | <<TECHNIQUE CODE>> | R |
| E107 | <<CONCENTRATION>> | R |
| E108 | <<LAB QUALIFIER>> | R |

| | | |
|---|---|---|
| | NATU | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>> | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> NATURAL URANIUM | - |
| C002 | <ANALYSIS TYPE> NATU | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<ANALYSIS PROCEDURE>> | R |
| C005 | <<SAMPLE PREP PROCEDURE>> | R |
| C006 | <<PREPARATION ANALYST NAME>> | - |
| C007 | <<DATE OF PREPARATION>> | - |
| C008 | <<CHEM ANALYST NAME>> | - |
| C009 | <<DATE OF CHEMISTRY>> | - |
| C010 | <<COUNT ANALYST NAME>> | - |
| C011 | <<DATE OF ANALYSIS>> | R |
| C012 | <<TIME OF ANALYSIS>> | O |
| C013 | <<STANDARD ADDITION CONC.>> | - |
| C014 | <<STANDARD ADDITION VOL. >> | - |
| C015 | <<SAMPLE VOL. BEFORE SA >> | - |
| C016 | <<INTEGRAT. INTENSITY OF SAMPLE>> | - |
| C017 | <<INTEGRAT. INTENSITY OF SAMPLE+SA>> | - |
| C018 | <<ALIQUOT>> | - |
| C019 | <<LIFE-TIME>> | - |
| C020 | <<R^2> | - |
| C021 | <<FINAL SAMPLE VOLUME>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |

| | | |
|---|---|---|
| E001 | <ANALYTE> U | R |
| E002 | <<CONCENTRATION>> | R |
| E003 | <<1 SD UNCERTAINTY>> | R |
| E004 | <<MDC>> | R |
| E005 | <<LAB QUALIFIER>> | R |
| E006 | <<LCS OR MS RECOVERY>> | O |

| | NITROGEN | |
|---|---|---|
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>> | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> NITROGEN | - |
| C002 | <ANALYSIS TYPE> NITROGEN | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<ANALYST NAME>> | - |
| C005 | <<ANALYSIS PROCEDURE>> | R |
| C006 | <<SAMPLE PREP PROCEDURE>> | R |
| C007 | <<DATE OF PREPARATION>> | R |
| C008 | <<DATE OF ANALYSIS>> | R |
| C009 | <<TIME OF ANALYSIS>> | O |
| C010 | <<DILUTION FACTOR>> | R |
| C011 | <<PERCENT SOLIDS>> | R |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> NITROGEN (NO3) | R |
| E002 | <<CONCENTRATION>> | R |
| E003 | <<LAB QUALIFIER>> | R |
| E004 | <ANALYTE> NITROGEN (NO2) | R |
| E005 | <<CONCENTRATION>> | R |
| E006 | <<LAB QUALIFIER>> | R |

| | | |
|---|---|---|
| | PB210 | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>> | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> lead-210 | - |
| C002 | <ANALYSIS TYPE> pb210 | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<DETECTOR TYPE>> | - |
| C005 | <<DETECTOR NUMBER>> | - |
| C006 | <<ANALYST NAME>> | - |
| C007 | <<ANALYSIS PROCEDURE>> | R |
| C008 | <<SAMPLE PREP PROCEDURE>> | R |
| C009 | <<DATE OF PREPARATION>> | R |
| C010 | <<DATE OF ANALYSIS>> | R |
| C011 | <<PERCENT SOLIDS>> | R |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> pb-210 | R |
| E002 | <<REPORTED ACTIVITY>> | R |
| E003 | <<1 SD UNCERTAINTY>> | R |
| E004 | <<MDA>> | R |
| E005 | <<LAB QUALIFIER>> | R |
| E006 | <<LCS OR MS RECOVERY>> | O |
| F001 | <tracer> | R |
| F002 | <<RECOVERY>> | R |

| | | |
|---|---|---|
| | PESTPCB | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> PESTICIDES | - |
| C002 | <ANALYSIS TYPE> HERBICIDE/PESTICIDES/PCBS | - |
| C003 | <ANALYSIS TYPE> PCB | - |
| C004 | <ANALYSIS TYPE> PEST | - |
| C005 | <ANALYSIS TYPE> PESTPCB | - |
| C006 | <<DATA FILE NAME>> | - |
| C007 | <<ANALYST NAME>> | - |
| C008 | <<ANALYSIS PROCEDURE>> | R |
| C009 | <<SAMPLE PREP PROCEDURE>> | R |
| C010 | <<DATE OF SAMPLE EXTRACTION>> | R |
| C011 | <<DATE OF ANALYSIS>> | R |
| C012 | <<TIME OF ANALYSIS>> | O |
| C013 | <<DILUTION FACTOR>> | R |
| C014 | <<PERCENT MOISTURE>> | R |
| C015 | <<INJECTION VOLUME>> | - |
| C016 | <<PH>> | O |
| C017 | <<SAMPLE WT / VOL>> | - |
| C018 | <<GPC CLEANUP>>> | R |
| C019 | <<FLORISIL CLEANUP>> | R |
| C020 | <<SULFUR CLEANUP>> | R |
| C021 | <<GC COLUMN 1 ID>> | - |
| C022 | <<GC COLUMN 2 ID>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |

| | | |
|---|---|---|
| D003 | <<NN>> | - |
| E001 | <ANALYTE> ALPHA-BHC | R |
| E002 | <<CONCENTRATION COL 1>> | R |
| E003 | <<LAB QUALIFIER COL 1 >> | R |
| E004 | <<CONCENTRATION COL 2>> | O |
| E005 | <<LAB QUALIFIER COL 2 >> | O |
| E006 | <ANALYTE> BETA-BHC | R |
| E007 | <<CONCENTRATION COL 1>> | R |
| E008 | <<LAB QUALIFIER COL 1>> | R |
| E009 | <<CONCENTRATION COL 2>> | O |
| E010 | <<LAB QUALIFIER COL 2>> | O |
| E011 | <ANALYTE> DELTA-BHC | R |
| E012 | <<CONCENTRATION COL 1>> | R |
| E013 | <<LAB QUALIFIER COL 1>> | R |
| E014 | <<CONCENTRATION COL 2>> | O |
| E015 | <<LAB QUALIFIER COL 2>> | O |
| E016 | <ANALYTE> GAMMA-BHC (LINDANE) | R |
| E017 | <<CONCENTRATION COL 1>> | R |
| E018 | <<LAB QUALIFIER COL 1>> | R |
| E019 | <<CONCENTRATION COL 2>> | O |
| E020 | <<LAB QUALIFIER COL 2>> | O |
| E021 | <ANALYTE> HEPTACHLOR | R |
| E022 | <<CONCENTRATION COL 1>> | R |
| E023 | <<LAB QUALIFIER COL 1>> | R |
| E024 | <<CONCENTRATION COL 2>> | O |
| E025 | <<LAB QUALIFIER COL 2>> | O |
| E026 | <ANALYTE> ALDRIN | R |
| E027 | <<CONCENTRATION COL 1>> | R |
| E028 | <<LAB QUALIFIER COL 1>> | R |
| E029 | <<CONCENTRATION COL 2>> | O |
| E030 | <<LAB QUALIFIER COL 2>> | O |
| E031 | <ANALYTE> HEPTACHLOR EPOXIDE | R |
| E032 | <<CONCENTRATION COL 1>> | R |
| E033 | <<LAB QUALIFIER COL 1>> | R |
| E034 | <<CONCENTRATION COL 2>> | O |
| E035 | <<LAB QUALIFIER COL 2>> | O |
| E036 | <ANALYTE> ENDOSULFAN I | R |
| E037 | <<CONCENTRATION COL 1>> | R |
| E038 | <<LAB QUALIFIER COL 1>> | R |
| E039 | <<CONCENTRATION COL 2>> | O |
| E040 | <<LAB QUALIFIER COL 2>> | O |
| E041 | <ANALYTE> DIELDRIN | R |
| E042 | <<CONCENTRATION COL 1>> | R |
| E043 | <<LAB QUALIFIER COL 1>> | R |
| E044 | <<CONCENTRATION COL 2>> | O |
| E045 | <<LAB QUALIFIER COL 2>> | O |

| | | |
|---|---|---|
| E046 | <ANALYTE> 4 4'-DDE | R |
| E047 | <<CONCENTRATION COL 1>> | R |
| E048 | <<LAB QUALIFIER COL 1>> | R |
| E049 | <<CONCENTRATION COL 2>> | O |
| E050 | <<LAB QUALIFIER COL 2>> | O |
| E051 | <ANALYTE> ENDRIN | R |
| E052 | <<CONCENTRATION COL 1>> | R |
| E053 | <<LAB QUALIFIER COL 1>> | R |
| E054 | <<CONCENTRATION COL 2>> | O |
| E055 | <<LAB QUALIFIER COL 2>> | O |
| E056 | <ANALYTE> ENDOSULFAN II | R |
| E057 | <<CONCENTRATION COL 1>> | R |
| E058 | <<LAB QUALIFIER COL 1>> | R |
| E059 | <<CONCENTRATION COL 2>> | O |
| E060 | <<LAB QUALIFIER COL 2>> | O |
| E061 | <ANALYTE> 4 4'-DDD | R |
| E062 | <<CONCENTRATION COL 1>> | R |
| E063 | <<LAB QUALIFIER COL 1>> | R |
| E064 | <<CONCENTRATION COL 2>> | O |
| E065 | <<LAB QUALIFIER COL 2>> | O |
| E066 | <ANALYTE> ENDOSULFAN SULFATE | R |
| E067 | <<CONCENTRATION COL 1>> | R |
| E068 | <<LAB QUALIFIER COL 1>> | R |
| E069 | <<CONCENTRATION COL 2>> | O |
| E070 | <<LAB QUALIFIER COL 2>> | O |
| E071 | <ANALYTE> 4 4'DDT | R |
| E072 | <<CONCENTRATION COL 1>> | R |
| E073 | <<LAB QUALIFIER COL 1>> | R |
| E074 | <<CONCENTRATION COL 2>> | O |
| E075 | <<LAB QUALIFIER COL 2>> | O |
| E076 | <ANALYTE> METHOXYCHLOR | R |
| E077 | <<CONCENTRATION COL 1>> | R |
| E078 | <<LAB QUALIFIER COL 1>> | R |
| E079 | <<CONCENTRATION COL 2>> | O |
| E080 | <<LAB QUALIFIER COL 2>> | O |
| E081 | <ANALYTE> ENDRIN KETONE | R |
| E082 | <<CONCENTRATION COL 1>> | R |
| E083 | <<LAB QUALIFIER COL 1>> | R |
| E084 | <<CONCENTRATION COL 2>> | O |
| E085 | <<LAB QUALIFIER COL 2>> | O |
| E086 | <ANALYTE> ENDRIN ALDEHYDE | R |
| E087 | <<CONCENTRATION COL 1>> | R |
| E088 | <<LAB QUALIFIER COL 1>> | R |
| E089 | <<CONCENTRATION COL 2>> | O |
| E090 | <<LAB QUALIFIER COL 2>> | O |
| E091 | <ANALYTE> ALPHA-CHLORDANE | R |

| | | |
|---|---|---|
| E092 | <<CONCENTRATION COL 1>> | R |
| E093 | <<LAB QUALIFIER COL 1>> | R |
| E094 | <<CONCENTRATION COL 2>> | O |
| E095 | <<LAB QUALIFIER COL 2>> | O |
| E096 | <ANALYTE> GAMMA-CHLORDANE | R |
| E097 | <<CONCENTRATION COL 1>> | R |
| E098 | <<LAB QUALIFIER COL 1>> | R |
| E099 | <<CONCENTRATION COL 2>> | O |
| E100 | <<LAB QUALIFIER COL 2>> | O |
| E101 | <ANALYTE> TOXAPHENE | R |
| E102 | <<CONCENTRATION COL 1>> | R |
| E103 | <<LAB QUALIFIER COL 1>> | R |
| E104 | <<CONCENTRATION COL 2>> | O |
| E105 | <<LAB QUALIFIER COL 2>> | O |
| E106 | <ANALYTE> AROCLOR-1016 | R |
| E107 | <<CONCENTRATION COL 1>> | R |
| E108 | <<LAB QUALIFIER COL 1>> | R |
| E109 | <<CONCENTRATION COL 2>> | O |
| E110 | <<LAB QUALIFIER COL 2>> | O |
| E111 | <ANALYTE> AROCLOR-1221 | R |
| E112 | <<CONCENTRATION COL 1>> | R |
| E113 | <<LAB QUALIFIER COL 1>> | R |
| E114 | <<CONCENTRATION COL 2>> | O |
| E115 | <<LAB QUALIFIER COL 2>> | O |
| E116 | <ANALYTE> AROCLOR-1232 | R |
| E117 | <<CONCENTRATION COL 1>> | R |
| E118 | <<LAB QUALIFIER COL 1>> | R |
| E119 | <<CONCENTRATION COL 2>> | O |
| E120 | <<LAB QUALIFIER COL 2>> | O |
| E121 | <ANALYTE> AROCLOR-1242 | R |
| E122 | <<CONCENTRATION COL 1>> | R |
| E123 | <<LAB QUALIFIER COL 1>> | R |
| E124 | <<CONCENTRATION COL 2>> | O |
| E125 | <<LAB QUALIFIER COL 2>> | O |
| E126 | <ANALYTE> AROCLOR-1248 | R |
| E127 | <<CONCENTRATION COL 1>> | R |
| E128 | <<LAB QUALIFIER COL 1>> | R |
| E129 | <<CONCENTRATION COL 2>> | O |
| E130 | <<LAB QUALIFIER COL 2>> | O |
| E131 | <ANALYTE> AROCLOR-1254 | R |
| E132 | <<CONCENTRATION COL 1>> | R |
| E133 | <<LAB QUALIFIER COL 1>> | R |
| E134 | <<CONCENTRATION COL 2>> | O |
| E135 | <<LAB QUALIFIER COL 2>> | O |
| E136 | <ANALYTE> AROCLOR-1260 | R |
| E137 | <<CONCENTRATION COL 1>> | R |

| | | |
|---|---|---|
| E138 | <<LAB QUALIFIER COL 1>> | R |
| E139 | <<CONCENTRATION COL 2>> | O |
| E140 | <<LAB QUALIFIER COL 2>> | O |
| H001 | <SURROGATE> TETRACHLORO-M-XYLENE | R |
| H002 | <<RECOVERED COL 1>> | R |
| H003 | <<RETENTION TIME COL 1>> | - |
| H004 | <<RECOVERED COL 2>> | O |
| H005 | <<RETENTION TIME COL 2>> | - |
| H006 | <SURROGATE> DECACHLOROBIPHENYL | R |
| H007 | <<RECOVERED COL 1>> | R |
| H008 | <<RETENTION TIME COL 1>> | - |
| H009 | <<RECOVERED COL 2>> | O |
| H010 | <<RETENTION TIME COL 2>> | - |

| | | |
|---|---|---|
| | RA226 | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL> | R |
| B002 | <<LANL SAMPLE NUMBER>> | - |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | R |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | - |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | R |
| B013 | <<SOFTWARE>> | - |
| C001 | <analysis> radium-226 | - |
| C002 | <analysis type> ra226 | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<DETECTOR TYPE>> | - |
| C005 | <<DETECTOR NUMBER>> | - |
| C006 | <<ANALYSIS PROCEDURE>> | R |
| C007 | <<SAMPLE PREP PROCEDURE>> | R |
| C008 | <<PREP ANALYST NAME>> | - |
| C009 | <<DATE OF PREPARATION>> | - |
| C010 | <<DATE OF ANALYSIS>> | R |
| E001 | <ANALYTE> RA-226 | R |
| E002 | <<REPORTED ACTIVITY>> | R |
| E003 | <<1 SD UNCERTAINTY>> | R |
| E004 | <<MDA>> | R |
| E005 | <<LAB QUALIFIER>> | R |
| E006 | <<LCS OR MS REC | O |
| F001 | <CARRIER> | R |
| F002 | <<RECOVERY>> | R |

| | | |
|---|---|---|
| | RA228 | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL> | R |
| B002 | <<LANL SAMPLE NUMBER>> | - |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | R |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | - |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | R |
| B013 | <<SOFTWARE>> | - |
| C001 | <analysis> radium-228 | - |
| C002 | <analysis type> ra228 | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<DETECTOR TYPE>> | - |
| C005 | <<DETECTOR NUMBER>> | - |
| C006 | <<ANALYSIS PROCEDURE>> | R |
| C007 | <<SAMPLE PREP PROCEDURE>> | R |
| C008 | <<PREP ANALYST NAME>> | - |
| C009 | <<DATE OF PREPARATION>> | - |
| C010 | <<DATE OF ANALYSIS>> | R |
| E001 | <ANALYTE> RA-228 | R |
| E002 | <<REPORTED ACTIVITY>> | R |
| E003 | <<1 SD UNCERTAINTY>> | R |
| E004 | <<MDA>> | R |
| E005 | <<LAB QUALIFIER>> | R |
| E006 | <<LCS OR MS REC | O |
| F001 | <CARRIER> | R |
| F002 | <<RECOVERY>> | R |

| | | |
|---|---|---|
| | SEMIGCMS | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>> | R |
| B010 | <<ANALYTICAL METHOD>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> SEMIVOA'S | - |
| C002 | <ANALYSIS TYPE> SEMIGCMS | - |
| C003 | <ANALYSIS TYPE> SEMIGCMSN | - |
| C004 | <<DATA FILE>> | - |
| C005 | <<ANALYST NAME>> | - |
| C006 | <<ANALYSIS PROCEDURE>> | R |
| C007 | <<SAMPLE PREP PROCEDURE>> | R |
| C008 | <<DATE OF PREPARATION>> | R |
| C009 | <<DATE OF ANALYSIS>> | R |
| C010 | <<TIME OF ANALYSIS>> | O |
| C011 | <<DILUTION FACTOR>> | R |
| C012 | <<PERCENT MOISTURE>> | R |
| C013 | <<INJECTION VOLUME>> | - |
| C014 | <<PH>> | O |
| C015 | <<SAMPLE WT/VOL>> | - |
| C016 | <<GPC CLEANUP (Y/N)>> | R |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> N-NITROSODIMETHYLAMINE | R |
| E002 | <<CONCENTRATION>> | R |
| E003 | <<LAB QUALIFIER>> | R |
| E004 | <ANALYTE> ANILINE | R |
| E005 | <<CONCENTRATION>> | R |

| | | |
|---|---|---|
| E006 | <<LAB QUALIFIER>> | R |
| E007 | <ANALYTE> PHENOL | R |
| E008 | <<CONCENTRATION>> | R |
| E009 | <<LAB QUALIFIER>> | R |
| E010 | <ANALYTE> BIS 2-CHLOROETHYL ETHER | R |
| E011 | <<CONCENTRATION>> | R |
| E012 | <<LAB QUALIFIER>> | R |
| E013 | <ANALYTE> 2-CHLOROPHENOL | R |
| E014 | <<CONCENTRATION>> | R |
| E015 | <<LAB QUALIFIER>> | R |
| E016 | <ANALYTE> 1 3-DICHLOROBENZENE | R |
| E017 | <<CONCENTRATION>> | R |
| E018 | <<LAB QUALIFIER>> | R |
| E019 | <ANALYTE> 1 4-DICHLOROBENZENE | R |
| E020 | <<CONCENTRATION>> | R |
| E021 | <<LAB QUALIFIER>> | R |
| E022 | <ANALYTE> 1 2-DICHLOROBENZENE | R |
| E023 | <<CONCENTRATION>> | R |
| E024 | <<LAB QUALIFIER>> | R |
| E025 | <ANALYTE> 2-METHYLPHENOL | R |
| E026 | <<CONCENTRATION>> | R |
| E027 | <<LAB QUALIFIER>> | R |
| E028 | <ANALYTE> BIS 2-CHLOROISOPROPYLETHER | R |
| E029 | <<CONCENTRATION>> | R |
| E030 | <<LAB QUALIFIER>> | R |
| E031 | <ANALYTE> 4-METHYLPHENOL | R |
| E032 | <<CONCENTRATION>> | R |
| E033 | <<LAB QUALIFIER>> | R |
| E034 | <ANALYTE> N-NITROSODI-DI-N-PROPYLAMINE | R |
| E035 | <<CONCENTRATION>> | R |
| E036 | <<LAB QUALIFIER>> | R |
| E037 | <ANALYTE> HEXACHLOROETHANE | R |
| E038 | <<CONCENTRATION>> | R |
| E039 | <<LAB QUALIFIER>> | R |
| E040 | <ANALYTE> NITROBENZENE | R |
| E041 | <<CONCENTRATION>> | R |
| E042 | <<LAB QUALIFIER>> | R |
| E043 | <ANALYTE> ISOPHORONE | R |
| E044 | <<CONCENTRATION>> | R |
| E045 | <<LAB QUALIFIER>> | R |
| E046 | <ANALYTE> 2-NITROPHENOL | R |
| E047 | <<CONCENTRATION>> | R |
| E048 | <<LAB QUALIFIER>> | R |
| E049 | <ANALYTE> 2 4-DIMETHYLPHENOL | R |
| E050 | <<CONCENTRATION>> | R |
| E051 | <<LAB QUALIFIER>> | R |

| | | |
|---|---|---|
| E052 | <ANALYTE> BENZOIC ACID | R |
| E053 | <<CONCENTRATION>> | R |
| E054 | <<LAB QUALIFIER>> | R |
| E055 | <ANALYTE> BIS 2-CHLOROETHOYX-METHANE | R |
| E056 | <<CONCENTRATION>> | R |
| E057 | <<LAB QUALIFIER>> | R |
| E058 | <ANALYTE> 2 4-DICHLOROPHENOL | R |
| E059 | <<CONCENTRATION>> | R |
| E060 | <<LAB QUALIFIER>> | R |
| E061 | <ANALYTE> 1 2 4-TRICHLOROBENZENE | R |
| E062 | <<CONCENTRATION>> | R |
| E063 | <<LAB QUALIFIER>> | R |
| E064 | <ANALYTE> NAPHTHALENE | R |
| E065 | <<CONCENTRATION>> | R |
| E066 | <<LAB QUALIFIER>> | R |
| E067 | <ANALYTE> 4-CHLOROANILINE | R |
| E068 | <<CONCENTRATION>> | R |
| E069 | <<LAB QUALIFIER>> | R |
| E070 | <ANALYTE> HEXACHLOROBUTADIENE | R |
| E071 | <<CONCENTRATION>> | R |
| E072 | <<LAB QUALIFIER>> | R |
| E073 | <ANALYTE> 4-CHLORO-3-METHYLPHENOL | R |
| E074 | <<CONCENTRATION>> | R |
| E075 | <<LAB QUALIFIER>> | R |
| E076 | <ANALYTE> 2-METHYLNAPHTHALENE | R |
| E077 | <<CONCENTRATION>> | R |
| E078 | <<LAB QUALIFIER>> | R |
| E079 | <ANALYTE> HEXACHLOROCYCLOPENTADIENE | R |
| E080 | <<CONCENTRATION>> | R |
| E081 | <<LAB QUALIFIER>> | R |
| E082 | <ANALYTE> 2 4 6-TRICHLOROPHENOL | R |
| E083 | <<CONCENTRATION>> | R |
| E084 | <<LAB QUALIFIER>> | R |
| E085 | <ANALYTE> 2 4 5-TRICHLOROPHENOL | R |
| E086 | <<CONCENTRATION>> | R |
| E087 | <<LAB QUALIFIER>> | R |
| E088 | <ANALYTE> 2-CHLORONAPHTHALENE | R |
| E089 | <<CONCENTRATION>> | R |
| E090 | <<LAB QUALIFIER>> | R |
| E091 | <ANALYTE> 2-NITROANILINE | R |
| E092 | <<CONCENTRATION>> | R |
| E093 | <<LAB QUALIFIER>> | R |
| E094 | <ANALYTE> DIMETHYLPHTHALATE | R |
| E095 | <<CONCENTRATION>> | R |
| E096 | <<LAB QUALIFIER>> | R |
| E097 | <ANALYTE> ACENAPHTHYLENE | R |

| | | |
|---|---|---|
| E098 | <<CONCENTRATION>> | R |
| E099 | <<LAB QUALIFIER>> | R |
| E100 | <ANALYTE> 3-NITROANILINE | R |
| E101 | <<CONCENTRATION>> | R |
| E102 | <<LAB QUALIFIER>> | R |
| E103 | <ANALYTE> ACENAPHTHENE | R |
| E104 | <<CONCENTRATION>> | R |
| E105 | <<LAB QUALIFIER>> | R |
| E106 | <ANALYTE> 2 4-DINITROPHENOL | R |
| E107 | <<CONCENTRATION>> | R |
| E108 | <<LAB QUALIFIER>> | R |
| E109 | <ANALYTE> 4-NITROPHENOL | R |
| E110 | <<CONCENTRATION>> | R |
| E111 | <<LAB QUALIFIER>> | R |
| E112 | <ANALYTE> DIBENZOFURAN | R |
| E113 | <<CONCENTRATION>> | R |
| E114 | <<LAB QUALIFIER>> | R |
| E115 | <ANALYTE> 2 4-DINITROTOLUENE | R |
| E116 | <<CONCENTRATION>> | R |
| E117 | <<LAB QUALIFIER>> | R |
| E118 | <ANALYTE> 2 6-DINITROTOLUENE | R |
| E119 | <<CONCENTRATION>> | R |
| E120 | <<LAB QUALIFIER>> | R |
| E121 | <ANALYTE> DIETHYL-PHTHALATE | R |
| E122 | <<CONCENTRATION>> | R |
| E123 | <<LAB QUALIFIER>> | R |
| E124 | <ANALYTE> 4-CHLOROPHENYL-PHENYLETHER | R |
| E125 | <<CONCENTRATION>> | R |
| E126 | <<LAB QUALIFIER>> | R |
| E127 | <ANALYTE> FLUORENE | R |
| E128 | <<CONCENTRATION>> | R |
| E129 | <<LAB QUALIFIER>> | R |
| E130 | <ANALYTE> 4-NITROANILINE | R |
| E131 | <<CONCENTRATION>> | R |
| E132 | <<LAB QUALIFIER>> | R |
| E133 | <ANALYTE> 4 6-DINITRO-2-METHYLPHENOL | R |
| E134 | <<CONCENTRATION>> | R |
| E135 | <<LAB QUALIFIER>> | R |
| E136 | <ANALYTE> N-NITROSODIPHENYLAMINE | R |
| E137 | <<CONCENTRATION>> | R |
| E138 | <<LAB QUALIFIER>> | R |
| E139 | <ANALYTE> AZOBENZENE | R |
| E140 | <<CONCENTRATION>> | R |
| E141 | <<LAB QUALIFIER>> | R |
| E142 | <ANALYTE> 4-BROMOPHENYL-PHENYLETHER | R |
| E143 | <<CONCENTRATION>> | R |

| | | |
|---|---|---|
| E144 | <<LAB QUALIFIER>> | R |
| E145 | <ANALYTE> HEXACHLOROBENZENE | R |
| E146 | <<CONCENTRATION>> | R |
| E147 | <<LAB QUALIFIER>> | R |
| E148 | <ANALYTE> PENTACHLOROPHENOL | R |
| E149 | <<CONCENTRATION>> | R |
| E150 | <<LAB QUALIFIER>> | R |
| E151 | <ANALYTE> PHENANTHRENE | R |
| E152 | <<CONCENTRATION>> | R |
| E153 | <<LAB QUALIFIER>> | R |
| E154 | <ANALYTE> ANTHRACENE | R |
| E155 | <<CONCENTRATION>> | R |
| E156 | <<LAB QUALIFIER>> | R |
| E157 | <ANALYTE> DI-N-BUTYLPHTHALATE | R |
| E158 | <<CONCENTRATION>> | R |
| E159 | <<LAB QUALIFIER>> | R |
| E160 | <ANALYTE> FLUORANTHENE | R |
| E161 | <<CONCENTRATION>> | R |
| E162 | <<LAB QUALIFIER>> | R |
| E163 | <ANALYTE> PYRENE | R |
| E164 | <<CONCENTRATION>> | R |
| E165 | <<LAB QUALIFIER>> | R |
| E166 | <ANALYTE> BUTYLBENZYLPHTHALATE | R |
| E167 | <<CONCENTRATION>> | R |
| E168 | <<LAB QUALIFIER>> | R |
| E169 | <ANALYTE> 3 3'-DICHLOLROBENZIDENE | R |
| E170 | <<CONCENTRATION>> | R |
| E171 | <<LAB QUALIFIER>> | R |
| E172 | <ANALYTE> BENZO(A)ANTHRACENE | R |
| E173 | <<CONCENTRATION>> | R |
| E174 | <<LAB QUALIFIER>> | R |
| E175 | <ANALYTE> BIS-2-ETHYLHEYLPHTHALATE | R |
| E176 | <<CONCENTRATION>> | R |
| E177 | <<LAB QUALIFIER>> | R |
| E178 | <ANALYTE> CHRYSENE | R |
| E179 | <<CONCENTRATION>> | R |
| E180 | <<LAB QUALIFIER>> | R |
| E181 | <ANALYTE> DI-N-OCTYLPHTHALATE | R |
| E182 | <<CONCENTRATION>> | R |
| E183 | <<LAB QUALIFIER>> | R |
| E184 | <ANALYTE> BENZO(B)FLUORANTHENE | R |
| E185 | <<CONCENTRATION>> | R |
| E186 | <<LAB QUALIFIER>> | R |
| E187 | <ANALYTE> BENZO(K)FLUORANTHENE | R |
| E188 | <<CONCENTRATION>> | R |
| E189 | <<LAB QUALIFIER>> | R |

| | | |
|---|---|---|
| E190 | <ANALYTE> BENZO(A)PYRENE | R |
| E191 | <<CONCENTRATION>> | R |
| E192 | <<LAB QUALIFIER>> | R |
| E193 | <ANALYTE> INDENO-1 2 3-(CD)-PYRENE | R |
| E194 | <<CONCENTRATION>> | R |
| E195 | <<LAB QUALIFIER>> | R |
| E196 | <ANALYTE> DIBENZ(AH)ANTHRACENE | R |
| E197 | <<CONCENTRATION>> | R |
| E198 | <<LAB QUALIFIER>> | R |
| E199 | <ANALYTE> BENZO(GHI)PERYLENE | R |
| E200 | <<CONCENTRATION>> | R |
| E201 | <<LAB QUALIFIER>> | R |
| E202 | <ANALYTE> BENZYL ALCOHOL | R |
| E203 | <<CONCENTRATION>> | R |
| E204 | <<LAB QUALIFIER>> | R |
| E205 | <ANALYTE> CARBAZOLE | R |
| E206 | <<CONCENTRATION>> | R |
| E207 | <<LAB QUALIFIER>> | R |
| E208 | <ANALYTE> 2,2-OXYBIS(1-CHLOROPROPANE) | R |
| E209 | <<CONCENTRATION>> | R |
| E210 | <<LAB QUALIFIER>> | R |
| E211 | <ANALYTE> PYRIDINE | R |
| E212 | <<CONCENTRATION>> | R |
| E213 | <<LAB QUALIFIER>> | R |
| H001 | <SURROGATE> 2 4 6-TRIBROMOPHENOL | R |
| H002 | <<RECOVERED>> | R |
| H003 | <SURROGATE> 2-FLUOROBIPHENYL | R |
| H004 | <<RECOVERED>> | R |
| H005 | <SURROGATE> 2-FLUOROPHENOL | R |
| H006 | <<RECOVERED>> | R |
| H007 | <SURROGATE> NITROBENZENE-D5 | R |
| H008 | <<RECOVERED>> | R |
| H009 | <SURROGATE> PHENOL-D5 | R |
| H010 | <<RECOVERED>> | R |
| H011 | <SURROGATE> TERPHENYL-D14 | R |
| H012 | <<RECOVERED>> | R |
| H013 | <SURROGATE> 2-CHLOROPHENOL-D4 | O |
| H014 | <<RECOVERED>> | O |
| H015 | <SURROGATE> 1,2-DICHLORORBENZENE-D4 | O |
| H016 | <<RECOVERED>> | O |
| I001 | <TICS> | R |
| I002 | <<NAME>> | R |
| I003 | <<CONCENTRATION>> | R |
| I004 | <<LAB QUALIFIER>> | R |
| I005 | <<RETENTION TIME>> | R |

| | | |
|---|---|---|
| | SR90 | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>>. | R |
| B010 | <<ANALYTICAL METHOD CODE>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> STRONTIUM-90 | - |
| C002 | <ANALYSIS TYPE> SR90 | - |
| C003 | <<DATA FILE NAME>> | - |
| C004 | <<DETECTOR TYPE>> | - |
| C005 | <<DETECTOR NUMBER>> | - |
| C006 | <<CALIBRATION FILE NAME>> | - |
| C007 | <<CALIBRATION DATE>> | - |
| C008 | <<ANALYSIS PROCEDURE>> | R |
| C009 | <<SAMPLE PREP PROCEDURE>> | R |
| C010 | <<PREP ANALYST NAME>> | - |
| C011 | <<DATE OF PREPARATION>> | R |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> SR-90 | R |
| E002 | <<GROSS COUNTS>> | - |
| E003 | <<NET COUNTS>> | - |
| E004 | <<REPORTED ACTIVITY>> | R |
| E005 | <<1 SD UNCERTAINTY>> | R |
| E006 | <<MDA>> | R |
| E007 | <<LAB QUALIFIER>> | R |
| E008 | <<LCS OR MS RECOVERY>> | O |
| F001 | <CARRIER> | R |
| F002 | <<RECOVERY>> | R |

| | TCN | R |
|---|---|---|
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>> | R |
| B010 | <<ANALYTICAL METHOD>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> TOTAL CYANIDE | R |
| C002 | <ANALYSIS TYPE> TCN | - |
| C003 | <<DATA FILE>> | - |
| C004 | <<ANALYST NAME>> | - |
| C005 | <<ANALYSIS PROCEDURE>> | R |
| C006 | <<SAMPLE PREP PROCEDURE>> | R |
| C007 | <<DATE OF PREPARATION>> | R |
| C008 | <<DATE OF ANALYSIS>> | R |
| C009 | <<TIME OF ANALYSIS>> | O |
| C010 | <<PERCENT SOLIDS>> | R |
| C011 | <<PH>> | O |
| C012 | <<AMOUNT DISTILLED>> | - |
| C013 | <<SAMPLE PRESERVATION (Y/N)>> | R |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> CYANIDE | R |
| E002 | <<CONCENTRATION>> | R |
| E003 | <<LAB QUALIFIER>> | R |

| | | |
|---|---|---|
| | VOAGCMS | R |
| A001 | <REQUEST HEADER> | - |
| A002 | <<VERSION>> | R |
| A003 | <<DATE OF VERSION RELEASE>> | - |
| A004 | <<LANL REQUEST NUMBER>> | R |
| A005 | <<LABORATORY>> | R |
| A006 | <<CONTRACT NUMBER>> | - |
| A007 | <<DATE OF SAMPLE RECEIPT BY LAB>> | R |
| A008 | <<DATE OF DATA SUBMISSION TO LANL>> | R |
| B001 | <SAMPLE HEADER> | - |
| B002 | <<LANL SAMPLE NUMBER>> | R |
| B003 | <<LANL CONTAINER NUMBER>> | R |
| B004 | <<LABORATORY SAMPLE NUMBER>> | R |
| B005 | <<LABORATORY BATCH REFERENCE>> | R |
| B006 | <<SAMPLE QUANTITY>> | - |
| B007 | <<DATE SAMPLED>> | - |
| B008 | <<MATRIX>> | R |
| B009 | <<SAMPLE TYPE>> | R |
| B010 | <<ANALYTICAL METHOD>> | R |
| B011 | <<REPORTING UNITS>> | R |
| B012 | <<INSTRUMENT ID>> | - |
| B013 | <<SOFTWARE>> | - |
| C001 | <ANALYSIS> VOLATILES BY GC/MS WITH/WITHOUT TICS | - |
| C002 | <ANALYSIS TYPE> VOAGCMS | - |
| C003 | <ANALYSIS TYPE> VOAGCMSN | - |
| C004 | <<DATA FILE>> | - |
| C005 | <<ANALYST NAME>> | - |
| C006 | <<ANALYSIS PROCEDURE>> | R |
| C007 | <<SAMPLE PREP PROCEDURE>> | R |
| C008 | <<DATE OF PREPARATION>> | R |
| C009 | <<DATE OF ANALYSIS>> | R |
| C010 | <<TIME OF ANALYSIS>> | O |
| C011 | <<DILUTION FACTOR>> | R |
| C012 | <<PERCENT MOISTURE>> | R |
| C013 | <<SAMPLE PRESERVATION (Y/N)>> | R |
| C014 | <<SAMPLE WT / VOL>> | - |
| C015 | <<SOIL ALIQUOT VOLUME>> | - |
| D001 | <USER> | - |
| D002 | <<01>> | O |
| D003 | <<NN>> | - |
| E001 | <ANALYTE> DICHLORODIFLUOROMETHANE | R |
| E002 | <<CONCENTRATION>> | R |
| E003 | <<LAB QUALIFIER>> | R |
| E004 | <ANALYTE> CHLOROMETHANE | R |
| E005 | <<CONCENTRATION>> | R |
| E006 | <<LAB QUALIFIER>> | R |

| | | |
|---|---|---|
| E007 | <ANALYTE> VINYL CHLORIDE | R |
| E008 | <<CONCENTRATION>> | R |
| E009 | <<LAB QUALIFIER>> | R |
| E010 | <ANALYTE> BROMOMETHANE | R |
| E011 | <<CONCENTRATION>> | R |
| E012 | <<LAB QUALIFIER>> | R |
| E013 | <ANALYTE> CHLOROETHANE | R |
| E014 | <<CONCENTRATION>> | R |
| E015 | <<LAB QUALIFIER>> | R |
| E016 | <ANALYTE> TRICHLOROFLUOROMETHANE | R |
| E017 | <<CONCENTRATION>> | R |
| E018 | <<LAB QUALIFIER>> | R |
| E019 | <ANALYTE> 1 1-DICHLOROETHENE | R |
| E020 | <<CONCENTRATION>> | R |
| E021 | <<LAB QUALIFIER>> | R |
| E022 | <ANALYTE> IODOMETHANE | R |
| E023 | <<CONCENTRATION>> | R |
| E024 | <<LAB QUALIFIER>> | R |
| E025 | <ANALYTE> CARBON DISULFIDE | R |
| E026 | <<CONCENTRATION>> | R |
| E027 | <<LAB QUALIFIER>> | R |
| E028 | <ANALYTE> ACETONE | R |
| E029 | <<CONCENTRATION>> | R |
| E030 | <<LAB QUALIFIER>> | R |
| E031 | <ANALYTE> METHYLENE CHLORIDE | R |
| E032 | <<CONCENTRATION>> | R |
| E033 | <<LAB QUALIFIER>> | R |
| E034 | <ANALYTE> T-1 2-DICHLOROETHENE | R |
| E035 | <<CONCENTRATION>> | R |
| E036 | <<LAB QUALIFIER>> | R |
| E037 | <ANALYTE> 1 1-DICHLOROETHANE | R |
| E038 | <<CONCENTRATION>> | R |
| E039 | <<LAB QUALIFIER>> | R |
| E040 | <ANALYTE> 2 2-DICHLOROPROPANE | R |
| E041 | <<CONCENTRATION>> | R |
| E042 | <<LAB QUALIFIER>> | R |
| E043 | <ANALYTE> C-1 2-DICHLOROETHENE | R |
| E044 | <<CONCENTRATION>> | R |
| E045 | <<LAB QUALIFIER>> | R |
| E046 | <ANALYTE> 2-BUTANONE | R |
| E047 | <<CONCENTRATION>> | R |
| E048 | <<LAB QUALIFIER>> | R |
| E049 | <ANALYTE> BROMOCHLOROMETHANE | R |
| E050 | <<CONCENTRATION>> | R |
| E051 | <<LAB QUALIFIER>> | R |
| E052 | <ANALYTE> CHLOROFORM | R |

| | | |
|---|---|---|
| E053 | <<CONCENTRATION>> | R |
| E054 | <<LAB QUALIFIER>> | R |
| E055 | <ANALYTE> 1 1 1-TRICHLOROETHANE | R |
| E056 | <<CONCENTRATION>> | R |
| E057 | <<LAB QUALIFIER>> | R |
| E058 | <ANALYTE> CARBON TETRACHLORIDE | R |
| E059 | <<CONCENTRATION>> | R |
| E060 | <<LAB QUALIFIER>> | R |
| E061 | <ANALYTE> 1 1-DICHLOROPROPENE | R |
| E062 | <<CONCENTRATION>> | R |
| E063 | <<LAB QUALIFIER>> | R |
| E064 | <ANALYTE> BENZENE | R |
| E065 | <<CONCENTRATION>> | R |
| E066 | <<LAB QUALIFIER>> | R |
| E067 | <ANALYTE> 1 2-DICHLOROETHANE | R |
| E068 | <<CONCENTRATION>> | R |
| E069 | <<LAB QUALIFIER>> | R |
| E070 | <ANALYTE> TRICHLOROETHENE | R |
| E071 | <<CONCENTRATION>> | R |
| E072 | <<LAB QUALIFIER>> | R |
| E073 | <ANALYTE> 1 2-DICHLOROPROPANE | R |
| E074 | <<CONCENTRATION>> | R |
| E075 | <<LAB QUALIFIER>> | R |
| E076 | <ANALYTE> DIBROMOMETHANE | R |
| E077 | <<CONCENTRATION>> | R |
| E078 | <<LAB QUALIFIER>> | R |
| E079 | <ANALYTE> BROMODICHLOROMETHANE | R |
| E080 | <<CONCENTRATION>> | R |
| E081 | <<LAB QUALIFIER>> | R |
| E082 | <ANALYTE> T-1 3-DICHLOROPROPENE | R |
| E083 | <<CONCENTRATION>> | R |
| E084 | <<LAB QUALIFIER>> | R |
| E085 | <ANALYTE> 4-METHYL-2-PENTANONE | R |
| E086 | <<CONCENTRATION>> | R |
| E087 | <<LAB QUALIFIER>> | R |
| E088 | <ANALYTE> TOLUENE | R |
| E089 | <<CONCENTRATION>> | R |
| E090 | <<LAB QUALIFIER>> | R |
| E091 | <ANALYTE> C-1 3-DICHLOROPROPENE | R |
| E092 | <<CONCENTRATION>> | R |
| E093 | <<LAB QUALIFIER>> | R |
| E094 | <ANALYTE> 1 1 2-TRICHLOROETHANE | R |
| E095 | <<CONCENTRATION>> | R |
| E096 | <<LAB QUALIFIER>> | R |
| E097 | <ANALYTE> TETRACHLOROETHENE | R |
| E098 | <<CONCENTRATION>> | R |

| | | |
|---|---|---|
| E099 | <<LAB QUALIFIER>> | R |
| E100 | <ANALYTE> 1 3-DICHLOROPROPANE | R |
| E101 | <<CONCENTRATION>> | R |
| E102 | <<LAB QUALIFIER>> | R |
| E103 | <ANALYTE> DIBROMOCHLOROMETHANE | R |
| E104 | <<CONCENTRATION>> | R |
| E105 | <<LAB QUALIFIER>> | R |
| E106 | <ANALYTE> 2-HEXANONE | R |
| E107 | <<CONCENTRATION>> | R |
| E108 | <<LAB QUALIFIER>> | R |
| E109 | <ANALYTE> 1 2-DIBROMOETHANE | R |
| E110 | <<CONCENTRATION>> | R |
| E111 | <<LAB QUALIFIER>> | R |
| E112 | <ANALYTE> CHLOROBENZENE | R |
| E113 | <<CONCENTRATION>> | R |
| E114 | <<LAB QUALIFIER>> | R |
| E115 | <ANALYTE> 1 1 1 2-TETRACHLOROETHANE | R |
| E116 | <<CONCENTRATION>> | R |
| E117 | <<LAB QUALIFIER>> | R |
| E118 | <ANALYTE> ETHYLBENZENE | R |
| E119 | <<CONCENTRATION>> | R |
| E120 | <<LAB QUALIFIER>> | R |
| E121 | <ANALYTE> O M P-XYLENE (MIXED) | R |
| E122 | <<CONCENTRATION>> | R |
| E123 | <<LAB QUALIFIER>> | R |
| E124 | <ANALYTE> STYRENE | R |
| E125 | <<CONCENTRATION>> | R |
| E126 | <<LAB QUALIFIER>> | R |
| E127 | <ANALYTE> BROMOFORM | R |
| E128 | <<CONCENTRATION>> | R |
| E129 | <<LAB QUALIFIER>> | R |
| E130 | <ANALYTE> ISOPROPYLBENZENE | R |
| E131 | <<CONCENTRATION>> | R |
| E132 | <<LAB QUALIFIER>> | R |
| E133 | <ANALYTE> BROMOBENZENE | R |
| E134 | <<CONCENTRATION>> | R |
| E135 | <<LAB QUALIFIER>> | R |
| E136 | <ANALYTE> 1 2 3-TRICHLOROPROPANE | R |
| E137 | <<CONCENTRATION>> | R |
| E138 | <<LAB QUALIFIER>> | R |
| E139 | <ANALYTE> 1 1 2 2-TETRACHLOROETHANE | R |
| E140 | <<CONCENTRATION>> | R |
| E141 | <<LAB QUALIFIER>> | R |
| E142 | <ANALYTE> N-PROPYLBENZENE | R |
| E143 | <<CONCENTRATION>> | R |
| E144 | <<LAB QUALIFIER>> | R |

| | | |
|---|---|---|
| E145 | <ANALYTE> 2-CHLOROTOLUENE | R |
| E146 | <<CONCENTRATION>> | R |
| E147 | <<LAB QUALIFIER>> | R |
| E148 | <ANALYTE> 4-CHLOROTOLUENE | R |
| E149 | <<CONCENTRATION>> | R |
| E150 | <<LAB QUALIFIER>> | R |
| E151 | <ANALYTE> 1 3 5-TRIMETHYLBENZENE | R |
| E152 | <<CONCENTRATION>> | R |
| E153 | <<LAB QUALIFIER>> | R |
| E154 | <ANALYTE> TERT-BUTYLBENZENE | R |
| E155 | <<CONCENTRATION>> | R |
| E156 | <<LAB QUALIFIER>> | R |
| E157 | <ANALYTE> 1 2 4-TRIMETHYLBENZENE | R |
| E158 | <<CONCENTRATION>> | R |
| E159 | <<LAB QUALIFIER>> | R |
| E160 | <ANALYTE> SEC-BUTYLBENZENE | R |
| E161 | <<CONCENTRATION>> | R |
| E162 | <<LAB QUALIFIER>> | R |
| E163 | <ANALYTE> 1 3-DICHLOROBENZENE | R |
| E164 | <<CONCENTRATION>> | R |
| E165 | <<LAB QUALIFIER>> | R |
| E166 | <ANALYTE> 1 4-DICHLOROBENZENE | R |
| E167 | <<CONCENTRATION>> | R |
| E168 | <<LAB QUALIFIER>> | R |
| E169 | <ANALYTE> P-ISOPROPYLTOLUENE | R |
| E170 | <<CONCENTRATION>> | R |
| E171 | <<LAB QUALIFIER>> | R |
| E172 | <ANALYTE> 1 2-DICHLOROBENZENE | R |
| E173 | <<CONCENTRATION>> | R |
| E174 | <<LAB QUALIFIER>> | R |
| E175 | <ANALYTE> N-BUTYLBENZENE | R |
| E176 | <<CONCENTRATION>> | R |
| E177 | <<LAB QUALIFIER>> | R |
| E178 | <ANALYTE> 1 2-DIBROMO-3-CHLOROPROPANE | R |
| E179 | <<CONCENTRATION>> | R |
| E180 | <<LAB QUALIFIER>> | R |
| E181 | <analyte> 1,3-and 1,4-Xylene | R |
| E182 | <<CONCENTRATION>> | R |
| E183 | <<LAB QUALIFIER>> | R |
| E184 | <analyte> 1,2-Xylene | R |
| E185 | <<CONCENTRATION>> | R |
| E186 | <<LAB QUALIFIER>> | R |
| E187 | <analyte> trichlorotrifluoroethane | R |
| E188 | <<CONCENTRATION>> | R |
| E189 | <<LAB QUALIFIER>> | R |
| H001 | <SURROGATE> TOLUENE-D8 | R |

| | | |
|---|---|---|
| H002 | <<RECOVERED>> | R |
| H003 | <SURROGATE> BROMOFLUOROBENZENE | R |
| H004 | <<RECOVERED>> | R |
| H005 | <SURROGATE> DIBROMOFLUOROMETHANE | R |
| H006 | <<RECOVERED>> | R |
| H007 | <SURROGATE> 1 2-DICHLOROETHANE-D4 | R |
| H008 | <<RECOVERED>> | R |
| I001 | <TICS> | R |
| I002 | <<NAME>> | R |
| I003 | <<CONCENTRATION>> | R |
| I004 | <<LAB QUALIFIER>> | R |
| I005 | <<RETENTION TIME>> | R |