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# Sampling and Analysis Data Document for:

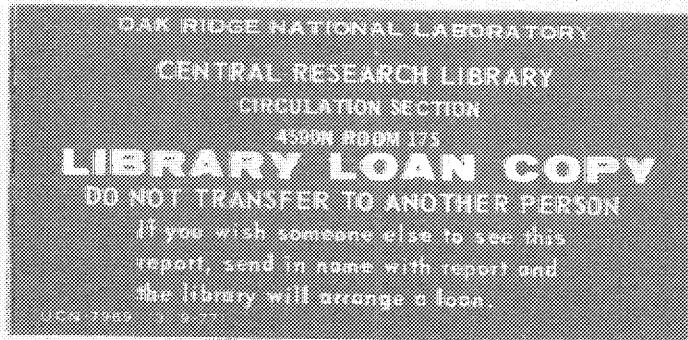
## Lawrence Livermore National Laboratory Sandia National Laboratories - Livermore

This document contains uninterpreted sampling and analytical data. The data will be interpreted by the DOE Environmental Survey Team and used to modify, as appropriate, the tentative Survey findings contained in the Environmental Survey Preliminary Report. Final Survey findings will be presented in the Environmental Survey Summary Report.

# DRAFT

## Volume II B

### June 1989



DEPARTMENT OF ENERGY  
ENVIRONMENTAL SURVEY





LAWRENCE LIVERMORE NATIONAL LABORATORY  
AND  
SANDIA NATIONAL LABORATORIES - LIVERMORE  
SAMPLING AND ANALYSIS DATA DOCUMENT  
  
(DRAFT)

June 1989

Prepared by:  
DOE Environmental Survey and  
Oak Ridge National Laboratory

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Approved

ORNL Data Management K.L. Daniels K.L. Daniels

ORNL Analytical Team Leader W.R. Laing W.R. Laing

ORNL Field Team Leader J.B. Murphy J.B. Murphy

ORNL QA Coordinators R.K. Owenby R.K. Owenby

P.L. Howell P.L. Howell

ORNL Program Manager R.B. Fitts R.B. Fitts





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**Appendix D**  
**ANALYTICAL CHEMISTRY QC SUMMARY**



DOE ENVIRONMENTAL SURVEY  
DRT - SOP - 002 Rev. 3  
Date of issue 7/29/88  
Page 1 of 2  
Supersedes issue dated 7/28/88

**Title: DETERMINATION OF OAK RIDGE DATA USABILITY**

**Background:**

A Data Usability Team (DUT) composed of representatives from Department of Energy (DOE), Environmental Protection Agency Environmental Monitoring Services Laboratory - Las Vegas, Nevada (EPA EMSL-LV), and Martin Marietta Energy Systems will determine the usability of organic data generated by ORNL for four DOE ENVIRONMENTAL SURVEY SITES. The four sites are 1) Pantex Site, 2) Lawrence Livermore National Laboratory (LLNL), 3) Sandia National Laboratory (SNLL), and 4) Argonne National Laboratory (ANL).

**Purpose:**

This standard operating procedure (SOP) describes the review procedure for determining the usability of "validated" organic data for the above sites. Organic data was validated by a Data Quality Assessment Team from EPA EMSL-LV team, which performed the validation process in accordance with the SOP FOR OAK RIDGE DATA VALIDATION (Attachment A).

**Applicability:**

The Data Usability Team will review files containing "validated" organic data organized by environmental problem for each of the four DOE ENVIRONMENTAL SURVEY SITES. The contents of each environmental problem file is as follows:

- 1) a list of analytes with data quality summaries described on a form entitled "Organic Data Quality Level Task Volatile Organic Compounds", and
- 2) a list of trip blank information per sample delivery group (SDG) described on a form entitled "Organic Data Quality Level Task Volatile Organic Compounds".

To assist the team, a master sheet (Attachment B) summarizing the data usability screening products for each specific type of organic class (i.e. Volatiles, Semivolatiles, Pesticides/PCBs) will be used. The master sheet and the contents of the environmental problem file represent the products produced by the Data Quality Assessment Team performing the data validation process described in Attachment B.

The review procedure to be used by the Data Usability Team will involve the following steps:

1. review of each environmental problem from the Sampling and Analysis Plan for each site,
2. review of the master sheet (Attachment B),
3. review of the contents of the individual files for each environmental problem,
4. performance of an evaluation for usability, and
5. production of a summary table which outlines the conclusions.

Attachment C contains an example file for one environmental problem at the Pantex Site. Attachment D contains the guidelines for the evaluation for usability. Attachment E contains an example of the type of summary table which outlines the conclusions from the review procedure.

**ATTACHMENT A**  
**SOP FOR OAK RIDGE DATA VALIDATION**  
**(WITH ATTACHMENT 1.0)**

D-v

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ATTACHMENT A

SOP FOR OAK RIDGE DATA VALIDATION

EMSL-LV will be qualifying all data associated with four data packages produced by Oak Ridge National Laboratory (ORNL). The four data packages are from the following sampling sites: 1) Pantex; 2) LINL; 3) SNLL; and 4) ANL.

This SOP is designed to aid the evaluator in organizing and performing the validation procedure. This procedure involves qualifying all data according to Contract Laboratory Program Equivalency (CLPE). CLPE is based on the CLP Organics Statement of Work, 7/87

The validation procedure will involve review of ten data quality areas. These areas are as follows and are listed in the order in which evaluators may proceed.

1. Holding Times
2. Initial Calibrations
3. Continuing Calibrations
4. Blanks
5. Tunes
6. Surrogate
7. Internal Standards
8. Tentatively Identified Compounds
9. Pesticide Retention standard
10. Analyte Retention Time (Pest. fraction)

Due to the large number of samples and limited auditing time, the order of the validation procedure above has been set up to qualify as many samples, as quickly as possible. Proceeding with the validation in the order listed above may permit the auditor to validate batches of samples as a unit, thus saving time.

The auditors will be evaluating only the data submitted in the Case Narrative and on Forms I through VIII for the volatile and semi-volatile fractions and Forms I through X for the pesticide fraction. The auditors will be under a rigid time constraint and will not have sufficient time to search through the raw data to check for errors (transcription, rounding, etc.) found on these forms. The evaluators will examine raw data as needed.

There are two types of auditing forms that the evaluators will use for the Organic Data Quality Level Task. The first form (Attachment II) is a Data Usability Screening form for each fraction. On this form, 10 samples can be summarized according to the eight QC areas listed above. This form has also been provided with space enough for any pertinent comments and an overall data quality rating (to be discussed later). The second type of auditing form, Organic Data Quality Level Task (Attachment III), breaks the sample down into its specific compounds and will qualify each compound individually for blank contamination, initial and continuing calibration conformance, and internal standard area and retention time conformance. This form is also provided for each fraction and requires each compound listed to receive an overall data quality level to be used later for determining data usability by the Survey Team.

All spaces on the auditing forms are to be filled in with a number corresponding to level 1, 2, or 3. Any blank spaces left, for any reason, are to be filled in with a dash (-). Arrows may be used to indicate repeat entries.

Oak Ridge will provide a listing of all samples to be audited. During the validation, the auditor will check off all samples completed. These sample identifications will then be run against a master list (provided and performed by Oak Ridge) to monitor EMSL-LV's progress.

#### HOLDING TIMES

Expedient extraction and analysis of samples is necessary in order to ensure valid results. Any sample outside the established holding time criteria will automatically be qualified level 3, as exceeding the holding time criteria compromises the data quality. Holding times will be evaluated through the use of the laboratory's sample receipt logs, extraction logs, and from the analysis date located on the Form I (run logs will be used if the analysis date is not listed on the Form I). Addressing holding times first insures that affected samples are qualified level 3 before further validation is performed. If holding times are exceeded, all negative analyte values will be assigned level 3. Positive analyte values may be level 2. All samples will continue through the validation process.

See Attachment I, Holding Time sections.

## INITIAL CALIBRATION

The initial calibration documents the linearity of the instrument within the calibration range of the method, establishes the relative response factors on which the continuing calibration criteria is based, and verifies the performance of the column before samples are analyzed. The initial calibration reflects the conditions of analysis and designates the quality of all the samples analyzed until the next initial calibration. Any samples not run under an initial calibration are considered suspect and qualified level 3. A continuing calibration found within criteria does not alter the quality level established by the preceding initial calibration found outside criteria. All assignment of quality levels based on the calibrations will be on an analyte-specific basis.

The evaluators will use the data [percent relative standard deviation (%RSD) and average relative response factors (AV-RRF)] listed on the Form VI, Organics Initial Calibration Data Form for the determination of criteria compliance of volatiles and semi-volatiles. Form VIIIs, Pesticide Evaluation Standards Summary, will be used for the pesticide fraction where Evals A, B, C, and Individual A and B will be evaluated for correct sequencing. The Form VIIIs will also be used to evaluate the linearity of the analytical system and the breakdown of 4,4'-DDT and Endrin. Data Quality levels will be assigned as described in Attachment I.

See Attachment I, Initial Calibration sections.

## CONTINUING CALIBRATION

The continuing calibration determines if an instrument is still within the linear calibration range established by the preceding initial calibration. The continuing calibration affects all those samples run until the next calibration. Any samples run under a continuing calibration outside criteria, or not run under any calibration, are questionable and will be qualified level 3. All samples will be carried through the established validation process. All assignment of quality levels based on the continuing calibrations will be on an analyte-specific basis.

The validation of the continuing calibration data [percent deviations (%D) and response factors (RF)] will be done using the Form VIIIs, Continuing Calibration Check Form, for both the volatile and semi-volatile fractions. The Form VIIIs will be used to evaluate the Individual A/B run and the breakdown of 4,4'-DDT and Endrin for the pesticide fraction. Data Quality levels will be assigned as described in Attachment I.

See Attachment I, Continuing Calibration sections.

Rev. 7/26/88

#### METHOD BLANK ANALYSIS

Method blanks are carried through the entire sample analysis and are instrumental in evaluating the type and magnitude of laboratory contamination. Blank contamination is found in two forms; Common Laboratory Contaminants and other TCL compounds at contamination levels. The Common Laboratory Contaminants are: VOLATILE FRACTION- Methylene Chloride, Acetone, Toluene, and 2-Butanone; SEMI-VOLATILE FRACTION- Phthalate esters; PESTICIDE FRACTION-None. Blanks are to run at least once per day of extraction for semi-volatiles and pesticides and once per day of analysis for volatiles.

The validation of the method blank analysis will be done utilizing the information given on the Form Is, Organics Analysis Data Sheet, of the blank and the Form IVs, Method Blank Summary, which summarizes all samples associated with that blank. Data Quality levels will be assigned as described in Attachment I.

See Attachment I, Method Blank sections.

#### TUNING

Tuning establishes that a GC/MS system meets the established mass spectral criteria before beginning calibrations or sample analysis. The compounds used for tuning are 50ng p-Bromofluorobenzene (BFB) for the volatile fraction and 50ng Decafluorotriphenylphosphine (DFTPP) for the semi-volatile fraction.

Tuning evaluation will be performed by use of the Form V, GC/MS Tuning and Mass Calibration Form, for both the volatile and semi-volatile fractions. The Form V lists all samples associated with the tune, as well as showing ion percent relative abundance. Data Quality levels will be assigned as described in Attachment I.

See Attachment I, Tuning Criteria sections.

**SURROGATES**

Surrogates are necessary in monitoring the preparation and analysis of all samples and blanks. Surrogate recovery may be affected due to sample interference, high concentrations of analytes, and poor extraction techniques. Surrogate recovery acceptance limits are as follows:

FRACTION	SURR. CMPD	% RECOVERY LIMITS	
		WATER	LOW/MED SOIL
VOLATILE	Toluene-d8	88-110	81-117
	4-Bromofluorobenzene	86-115	74-121
	1,2-Dichloroethane-d4	76-114	70-121
SEMI-VOLATILE	Nitrobenzene-d5	35-114	23-120
	2-Fluorobiphenyl	43-116	30-115
	p-Terphenyl-d14	33-141	18-137
	Phenol-d5	10-94	24-113
	2-Fluorophenol	21-100	25-121
	2,4,6-Tribromophenol	10-123	19-122
PESTICIDE	Dibutylchlorethane	Advisory limits 24-154	20-150

Surrogate recoveries will be validated through use of the Form II, Surrogate Recovery Form. Data Quality levels will be assigned as described in Attachment I.

See Attachment I, Surrogate Sections.

**INTERNAL STANDARDS**

Internal standards and retention times are used to check system performance for quantitative purposes of the volatile and semi-volatile fractions. Internal standard responses and retention times in all standards must be evaluated during or immediately after data acquisition. For the purposes at Oak Ridge, there will only be two levels of qualification (levels 1 and 3). The data will either be level 1 - within criteria or level 3 - outside criteria. The auditors will use the volatile and semi-volatile Form VIII's, Internal Standard Summary, for validation of the internal standards associated with that fraction.

See Attachment I, Internal Standards sections.

#### PESTICIDE RETENTION STANDARD

The retention time shift for Dibutylchlorendate (DBC) or Mirex must be verified for each sample due to the fact that excessive shift in RT indicates instability of the system (ie. carrier gas leaks, uncontrolled oven temperature).

Data which uses only Mirex as a retention time standard is not considered comparable to that which uses DBC as a retention time standard. Therefore, data using only Mirex will be classified no better than level 2.

Pesticide Form VIII will be used by the evaluators to determine criteria conformance. Data Quality levels will be assigned as described in Attachment I

See Attachment I, Pesticide Retention Standard section.

#### ANALYTE RETENTION TIME

According to the Organic Statement of Work, the analyte retention time windows are set by calculating the standard deviation of the three absolute retention times for each single component pesticide. For multiresponse pesticides or PCBs, choose one major peak from the envelope and calculate the standard deviation of the three retention times for that peak.

The standard deviations determined above shall be used to determine the retention time windows for a particular 72-hour sequence. Apply plus or minus three times the standard deviations above to the retention time of each pesticide/PCB determined for the first analysis of the pesticide/PCB standard in a given 72-hour sequence. This range of retention times defines the retention time window for the compound of interest for that 72-hour sequence.

If a peak is found within a retention time window for a primary column, a tentative hit is established for that analyte. A true pesticide hit must be confirmed on a dissimilar column using the same procedure followed for the primary column.

If the analyte was quantitated on a narrow-bore capillary column, the data can be assigned a quality level no better than level 2.

Data Quality levels will be assigned as described in Attachment I.

See Attachment I, Analyte Retention Time section.

#### TENTATIVELY IDENTIFIED COMPOUNDS (TICs)

Non-target compounds (TICs) will begin the validation procedure at level 2 due to their estimated nature. They will be examined further for blank contamination and mass spectral interpretation. Blank contamination will be assessed by the same criteria as TCL compounds.

The mass spectra of the TIC hits will be examined by the evaluators for goodness of fit as compared to the reported NBS library spectra. If a compound has been reported by the laboratory as unknown and the evaluator feels, in his or her professional judgement, that one of the library hits is more appropriate, the corrected identification will be reported, and the comment "TIC Mis-id", will be written in the comment section of the summary form.

Data Quality levels will be assigned as described in Attachment I.

See Attachment I, Tentatively Identified Compounds section.

#### OVERALL QUALITY LEVEL

The overall quality level of a sample is determined by the lowest degree of usability found over the course of that sample's validation. The overall data quality level of a sample is determined by the lowest degree of quality found over the course of that sample's evaluation. Overall data quality levels are not assigned to samples for which individual analyte qualifiers were used. In this case, the overall quality level column on the summary data form will contain the 'A' flag.

The summary data qualifier on the individual analyte form may also include qualifiers from the summary form. The value in the summary column on the individual analyte form is the overall qualifier for that analyte in that sample. If the summary data qualifier is level 3, there may still be usable data reported on the individual analyte form.

All analytes with reported values which exceed the initial calibration range will be assigned a quality level no better than level 2. All analytes with reported values lower than the CLP quantitation limits will be assigned a quality level no better than level 2.

#### FLAGS and ABBREVIATIONS

The following flags and abbreviations are used by the data evaluation team.

A : Analyte specific. Refer to the analyte specific form for the quality levels assigned to the sample. Quality levels are assigned on an analyte-by-analyte basis for this sample.

C - See comments. Alerts the user to a comment on the summary form which must be used when interpreting usability for this sample.

E - Analyte result exceeds the method initial calibration range.

HA- Holding time from extraction to analysis exceeded.

HE- Holding time from receipt of sample to extraction exceeded.

M - Mirex used for retention time standard. The data is assigned a level no better than 2.

Q - Quantitation limit was not adjusted for sample percent moisture and/or sample amount. The data is assigned a level no better than 2. The sample percent moisture and amount follow this flag.

Q1- Sample result was not adjusted for sample percent moisture and/or sample amount. The data is assigned a level no better than 2. The sample percent moisture and amount follow this flag.

TIC ID - Usable qualitative TIC information is on the individual analyte form.

TIC MIS-ID - The original laboratory identification on TIC is in error. Usable qualitative TIC information is on the individual analyte form.

UNK- Unknown. Used on the individual analyte form when reporting TICs.

HC - Hydrocarbon. Used on the individual analyte form when reporting unknown Hydrocarbon TICs.

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MATRIX ABBREVIATIONS

S - Soil. The sample matrix was soil or sediment.

W - Water. The sample matrix was water.

O - Other. The sample matrix was not soil/sediment or water.  
The matrix may be biota, vegetation, or drum samples.

RE- The reported results are a reanalysis of the indicated sample.  
The original results may or may not have been reported.

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ATTACHMENT I

Volatile Analysis  
Sample Group Defects

Initial Calibration - Affects all samples run until the next Init. Cal.  
Affects quantitative results.  
Does not affect qualitative results.

1.	Initial calibration not performed before running samples.	Entire sample, + or - results	Level 3
2.	%RSD	30% or less	Level 1
	%RSD	30 to 70 %	Level 2
	%RSD	above 70 %	Level 3
	AV-RRF	0.300 or greater (0.250 for Bromoform)	Level 1
	AV-RRF	0.10 to 0.299 (0.10 to 0.249 for bromoform)	Level 2
	AV RRF	Less than 0.10 (may increase chances for false negative results)	Level 3

Continuing Calibration - Affects all samples until the next calibration.  
Affects quantitative results.  
Does not affect qualitative results.

%D	25% or less	Level 1
%D	25 to 70 %	Level 2
%D	Above 70 %	Level 3
RRF	0.300 or greater (0.250 for Bromoform)	Level 1
RRF	0.10 to 0.299 (0.10 to 0.249 for Bromoform)	Level 2
RRF	Less than 0.10 (may increase chances of false negative results)	Level 3

1. Instrument calibrated at beginning of 12 hour sequence. Level 1
2. Instrument calibrated between 12 and 24 hours before analysis of sample. Level 2
3. Instrument calibrated more than 24 hours before analysis of sample. Level 3

Tuning Criteria - May affect qualitative identifications.  
Does not affect quantitative results.

1. Instrument tuned at beginning of 12 hour sequence; all ions      Level 1  
in compliance with expanded criteria (see list).
2. Tune performed at beginning of 12 hour sequence, any  
critical ion out of criteria for expanded criteria list  
OR  
Instrument tuned between 12 and 24 hours of sample analysis      Level 2
3. Tune not performed or tuned more than 24 hours before      Level 3  
sample analysis

BFB Expanded Criteria List

m/z	ION ABUNDANCE CRITERIA
50	11.0 - 50.0% of base peak
75	22.0 - 75.0% of base peak
95*	base peak, 100% relative abundance
96*	5.0 - 9.0% of base peak
173	less than 1% of base peak
174*	greater than 50% of base peak
175*	5.0 - 9.0% of m/z 174
176*	greater than 95% but less than 101% of m/z 174
177*	5.0 - 9.0% of m/z 176

\* denotes critical ions or ratios

Method Blank Analysis - Affects quantitative and qualitative results.  
False positive results may be indicated.

1. Method performed as required, blank uncontaminated      Level 1
2. If a method blank is not performed for a group of samples  
All positive hits are      Level 3  
(May cause false positive results)  
All negative results are acceptable      Level 1

3. Blank Contamination encountered in the method blank

Common laboratory contaminants

Sample result greater than or equal to 10x amount in the blank Level 1

Sample result between 5x and 10x amount in the blank Level 2

Sample result less than 5x the amount in the blank Level 3

Other TCL compounds

Sample result greater than or equal to 5x amount in the blank Level 1

Sample result between 2.5x and 5x the amount in the blank Level 2

Sample result less than 2.5x the amount in the blank Level 3

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Volatile Sample Analysis  
Individual Sample Defects :

Holding Times- May affect quantitative results.  
Does not affect qualitative results.

1. Within 10 days Level 1
2. 11-28 days Level 2
3. Greater than 28 days (May increase chances of false negative and false positive results) Level 3

Surrogate Recovery - Affects quantitative results.  
Does not affect qualitative results.

1. All surrogates within criteria Level 1
2. One surrogate outside SOW limits or less than 10% recovery for one surrogate (but greater than zero recovery) Level 2
3. Any surrogate not recovered at all, or 2 or more surrogates outside of limits in SOW (May increase chances of false negative results) Level 3

Internal Standards - Affects quantitative results.  
Does not affect qualitative results.

1. Change in absolute area less than -50% to +100% RT of IS-sample within +/- 30 sec of IS-calibration std Level 1
2. Outside of criteria above (May increase chances of false negative results) Level 3

Tentatively Identified Compounds (TICs)- Qualitative identification affected.

1. All TICs can have a quality level no better than Level 2
2. All TICs without a complete identification, i.e., Unknown. Level 3
3. In special cases, i.e. PCBs, Identification of compound without specific isomer ID. Level 2
4. Blanks are assessed using the same criteria as TCL compounds.

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**Semi-Volatile Analysis  
Sample Group Defects**

**Initial Calibration - Affects all samples run until the next Init. Cal.**  
**Affects quantitative results.**  
**Does not affect qualitative results.**

- |  |   |         |
|--|---|---------|
| 1. Initial calibration not performed before running samples. | Entire sample, + or - results   | Level 3 |
| 2. %RSD  | 30% or less   | Level 1 |
| %RSD   | 30 to 70 %  | Level 2 |
| %RSD   | Above 70 %  | Level 3 |
| AV-RRF   | 0.05 or greater   | Level 1 |
| AV-RRF   | Less than 0.05 all + hits become  | Level 2 |
| AV RRF   | Less than 0.05 all - hits become<br>(May increase chances for false negative results) | Level 3 |

**Continuing Calibration - Affects all samples until the next calibration.**  
**Affects quantitative results.**  
**Does not affect qualitative results.**

- |     |   |         |
|-----|---|---------|
| %D  | 25% or less   | Level 1 |
| %D  | 25 to 50 % <i>70%</i>   | Level 2 |
| %D  | Above 50 % <i>70%</i>   | Level 3 |
| RRF | 0.05 or greater   | Level 1 |
| RRF | Less than 0.05 all + hits become  | Level 2 |
| RRF | Less than 0.05 all - hits become<br>(May increase chances for false negative results) | Level 3 |

1. Instrument calibrated at beginning of 12 hour sequence. Level 1
2. Instrument calibrated between 12 and 24 hours before analysis Level 2 of sample.
3. Instrument calibrated more than 24 hours before analysis of Level 3 sample.

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Tuning Criteria - May affect qualitative identifications.  
Does not affect quantitative results.

1. Instrument tuned at beginning of 12 hour sequence; all ions      Level 1  
in compliance with expanded criteria (see list).
2. Tune performed at beginning of 12 hour sequence, any  
critical ion out of criteria for expanded criteria list  
OR  
Instrument tuned between 12 and 24 hours of sample analysis      Level 2
3. Tune not performed or tuned more than 24 hours before  
sample analysis      Level 3

DFTPP Expanded Criteria List

m/z	ION ABUNDANCE CRITERIA
51	22.0% - 75.0% of m/z 198
68*	less than 2.0% of m/z 69
70*	less than 2.0% of m/z 69
127	30.0 - 70.0% of m/z 198
197*	less than 1.0% of m/z 198
198*	base peak, 100% relative abundance
199*	5.0 - 9.0% of m/z 198
275	7.0 - 37.0% of m/z 198
365	greater than 0.75% of m/z 198
441*	present but less than m/z 443
442*	greater than 30.0% of m/z 198
443*	17.0% - 23.0% of m/z 198

\* denotes critical ions or ratios

Method Blank Analysis - Affects quantitative and qualitative results.  
False positive results may be indicated.

1. Method performed as required, blank uncontaminated      Level 1
2. Method blank not performed for a group of samples  
Common lab contaminants (phthalates)  
(+) results      Level 3  
(-) results      Level 1  
Other TCL compounds  
(+) results      Level 2  
(-) results      Level 1

3. Blank Contamination encountered in the method blank

Common laboratory contaminants (phthalates)

Sample result greater than or equal to 10X amount in the blank	Level 1
Sample result between 5x and 10x amount in the blank	Level 2
Sample result less than 5x the amount in the blank	Level 3

Other TCL compounds

Sample result greater than or equal to 5x amount in blank	Level 1
Sample result between 2.5x and 5x amount in the blank	Level 2
Sample result less than 2.5x the amount in the blank	Level 3

Semi-Volatile Sample Analysis  
Individual Sample Defects

Holding Times- May affect quantitative results.  
Does not affect qualitative results.

Holding Times (Extractions)

1. Within 5 days for water or 10 days for soil Level 1
2. 6-20 days for water, 11-20 days for soil Level 2
3. Greater than 20 days (water and soil)  
(May increase chances for false negative results) Level 3

Holding times until analysis

1. 40 days or less Level 1
2. 41 to 60 days Level 2
3. More than 60 days  
(May increase chances for false negative results) Level 3

Surrogate Recovery - By Acid or Base/Neutral fractions  
Affects quantitative results.  
Does not affect qualitative results.

1. All surrogates within criteria Level 1
2. Two surrogates within either fraction outside SOW limits or less than 10% recovery for one surrogate (but greater than zero recovery) Level 2
3. Any surrogate not recovered at all, or 3 or more surrogates from either fraction outside of limits in SOW  
(May increase chances of false negative results) Level 3

Internal Standards - Affects quantitative results.  
Does not affect qualitative results.

1. Change in absolute area less than -50% to +100% RT of IS-sample within +/- 30 sec of IS-calibration std Level 1
2. Outside of criteria above  
(May increase chances of false negative results) Level 3

Rev. 7/26/88

Tentatively Identified Compounds (TICs)- Qualitative identification affected:

1. All TICs can have a quality level no better than Level 2
2. All TICs without a complete identification, i.e., Unknown. Level 3
3. In special cases, i.e. PCBs, Identification of compound Level 2 without specific isomer ID.
4. Blanks are assessed using the same criteria as TCL compounds.

Pesticides Analysis  
Sample Group Defects

Initial and Continuing Calibrations - Affects all samples run during the 72 hour sequence, on packed and capillary columns, evaluated separately.

1. Initial calibration using Eval. A, B, C and Ind. A, B not run as required. Entire sample, + or - results. Level 3
2. Failure to run the evaluation mixes A and B as required during the 72 hour sequence. Affected sub-group only. Level 2
3. Calibration sequences run as required. Level 1
4. Linearity (Initial Calibration):

Linearity will be Analyte-Specific and Column-Specific.

Aldrin - Analytes	100 - 105
Endrin - Analytes	106 - 113
DDT - Analytes	114 - 126

<10% RSD	Level 1
10 - 20% RSD	Level 2
>20% RSD	Level 3

5. Continuing Calibration Stability:  
Quality level for %D is determined by the %D of the IND AB which follows a sample group. Analyte-Specific and Column-Specific for all analytes - 114. DDT used for analytes 115 - 126.

<15 %D	Level 1
15 - 25%D	Level 2
>25% D	Level 3

6. Analytes quantitated on capillary column will be judged for IC and CC on capillary column, but will be Q2 or Q3. Level 2

4,4'-DDT and Endrin Breakdown Requirement (Column-Specific):  
Quality level for % Breakdown is determined by % Breakdown of the Eval B preceeding the sample group.

1. % Breakdown for Endrin and DDT is less than 20%. Level 1
2. % Breakdown for Endrin and DDT is between 20 and 30%. Level 2
3. % Breakdown for either DDT or Endrin exceeds 30%. Level 3

DDT Retention Time - Affects all subsequent samples, all analytes  
(Column-Specific):

1. DDT RT is greater than or equal to 12 minutes. Level 1
2. DDT RT is less than 12 minutes and visual examination of the chromatogram indicates adequate separation of individual analytes has been achieved. Level 2
3. DDT retention time less than 12 minutes. Visual examination indicates inadequate separation. Level 3

**Method Blank Analysis:**

1. Method performed as required, blank uncontaminated. Level 1
2. If a method blank is not performed for a group of samples all positive hits are All negative results are acceptable. Level 3
3. Blank Contamination encountered in the method blank:
  - + Results greater than 5x contamination level Level 1
  - + Results less than 5x contamination level Level 3
  - Results Level 1

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Pesticide Sample Analysis  
Individual Sample Defect

Holding Times:

Holding times until extraction:

1. Within 5 days for water or 10 days for soil                          Level 1
2. 6 to 10 days for water samples; 11 - 20 days for soil                          Level 2
3. Greater than 10 days for water; 20 days for soil samples                          Level 3

Holding times until analysis:

1. 40 days or less                                  Level 1
2. 41 to 60 days                                  Level 2
3. More than 60 days                                  Level 3
4. Q3 hits may be considered Q2

Surrogate Retention Time (Column-Specific):

1. %D for DBC retention time of the sample compared to the initial evaluation mix standard is less than 2% for packed column and 0.3% for capillary column.                          Level 1
2. %D for DBC or Mirex retention time RT sample - RT initial eval mix is greater than 2% for packed column and 0.3% for capillary column.                          Level 3
3. DBC not used as surrogate.                                  Level 2
4. No surrogate analyzed.                                  Level 3

Surrogate Recovery:

Due to the problems with loss of DBC, surrogate recovery is not considered to be a factor in assigning data quality levels. However, if no surrogate is recovered, data may be considered non-useable for all compounds except multi-component analytes, where pattern recognition is possible.

Rev. August 25, 1988

Pesticide Sample Analysis  
Individual Sample Defect

Analyte Retention Time:

Retention Time Windows - Affects the individual analyte in that sample only.

1. Retention time windows met as required by SOW and confirmation performed. Level 1
2. Retention time window met, confirmation not performed. Level 3

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**ATTACHMENT B**  
**EXAMPLE OF 1 PAGE**  
**MASTER SHEET**

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# EXAMPLE

# ATTACHMENT B

Data Usability Screening for Volatile Organics  
Site \_\_\_\_\_ Page \_\_\_\_ of \_\_\_\_ Auditor \_\_\_\_\_

SAMPLE NUMBER	SDG	DATE RECEIVED	MATRIX ANALYZED	ASSOC IATE	CALIB RATE	INT VOA	STD SURR COMMENTS	TUNE BLANK INIT CONT OUT OUT	OVER-ALL LEVEL	ENV-PRB NUM
---------------	-----	---------------	-----------------	------------	------------	---------	-------------------	------------------------------	----------------	-------------

PX037030 PIX24		7 15JUN87	18JUN87	1	A A A A	3	2 SURR OUTSD CRIT(8FB&DCE) 2 INT.ST. OUTSD CRIT(BCM&CBZ).Q-28% MOIST,	5 G. S&6 BLANK 13-RRF 30-EXCEEDING CAL. RANGE	A	8
		18 05JUN87	05JUN87				5-ID, RANGE EXCEEDED 13-RRF Q-7% MOIST, 5.2 G.		A	11
		1 12JUN87	15JUN87	1	A A A A	1 1	5-ID, RANGE EXCEEDED 13-BLANK/RRF 6-BLANK S1 OUT Q-12% MOIST, 5.2 G.		A	11
		1 12JUN87	15JUN87	1	A A A A	1 1	5-ID, RANGE EXCEEDED 13-BLANK/RRF Q-7% MOIST, 5.2 G.		A	11
		1 12JUN87	16JUN87	1	A A A A	1 1	5-ID 13-RRF Q-11% MOIST, 5 G.		A	11
		1 12JUN87	16JUN87	1	A A A A	1 1	5-ID, RANGE EXCEEDED 13-BLANK/RRF Q-14% MOIST, 5 G.		A	11
		1 12JUN87	16JUN87	1	A A A A	1 1	5-ID, RANGE EXCEEDED 13-RRF Q-17% MOIST, 4.9 G.		A	11
		1 12JUN87	16JUN87	1	A A A A	1 1	5-BLANK 6-BLANK 13-RRF Q-15% MOIST, 5 G.		A	11
		1 12JUN87	16JUN87	1	A A A A	1 1	5&6-BLANK 13-RRF Q-20% MOIST, 5.4 G.		A	11
		1 12JUN87	16JUN87	1	A A A A	1 1	5&6-BLANK 13-RRF Q-17% MOIST, 5.1 G.		A	11
		1 12JUN87	16JUN87	1	A A A A	1 1	5-BLANK 13-RRF Q-16% MOIST, 5.1 G.		A	11
		1 12JUN87	16JUN87	1	A A A A	1 1	5-BLANK 13-RRF Q-19%, 5.1 G.		A	11
		1 15JUN87	18JUN87	1	A A A A	1 1	Q-14% MOIST, 5 G. 13-RRF 6-BLANK		A	11
		1 15JUN87	18JUN87	1	A A A A	1 1	Q-17% MOIST, 5 G. 13-RRF 5&6-BLANK		A	11
		1 05JUN87	05JUN87	1	A A A A	3 3	ALL INTNL STNDS OUT OF CRIT 13-BLANK/RRF Q-6% MOIST, 5.3 G.	TWO SURROGATES OUTSIDE CRITERIA	3	11
		1 05JUN87	05JUN87	1	A A A A	3 2	ALL INTNL STNDS OUT OF CRIT 13-RRF Q-9% MOIST, 5.3 G. 1 SURR OUTSD CRIT		3	11
		1 05JUN87	05JUN87	1	A A A A	1 2	Q-5% MOIST, 4.8 G. 13-RRF 1 SURR OUTSD CRIT		A	11
		1 05JUN87	06JUN87	1	A A A A	1 1	6-BLANK 13-BLANK/RRF Q-5% MOIST, 4.90 G.		A	11
		1 05JUN87	05JUN87	1	A A A A	1 1	13-RRF Q-7% MOIST, 5.10 G.		A	11
		1 06JUN87	06JUN87	1	A A A A	2	5-BLANK 6-BLANK IS3 OUT Q-3% MOIST, 5 G.		A	11
		1 06JUN87	07JUN87	1	A A A A	1 1	6-BLANK Q-9% MOIST, 5 G.		A	11
		1 06JUN87	06JUN87	1	A A A A	1 1	5-BLANK 6-BLANK 13-BLANK Q-3% MOIST, 4.89 G.		A	11
		1 06JUN87	06JUN87	1	A A A A	1 1	5-BLANK 6-BLANK 13-BLANK Q-6% MOIST, 4.9 G.		A	11
		1 05JUN87	06JUN87	2	A A A A	2	IS2 & IS3 LOW, BFB SENSITIVITY TIME OUT, S1 HIGH Q-11% MOIST, 5.2 G.		A	11
		1 06JUN87	06JUN87	1	A A A A	1 1	5-BLANK 6-BLANK 13-BLANK Q-9% MOIST, 5 G.		A	11

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**ATTACHMENT C**  
**ENV. PROBLEM FILE**  
**(EXAMPLE)**

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EPN 25, 27

ORGANIC DATA ~~YANLY LEVEL~~  
VOLATILE ORGANIC COMPOUNDS

SDG

99

SAMPLE IDENTIFICATION

TRIP BLANK

SITE CODE

DATA AUDITOR: TAMMY CHRI

CAS NO

IS

TARGET COMPOUND NAME

Quality

DATA INSUFFICIENCY LEVEL

			BL	IC	CC	IS	OU
1.1	74-87-3	---1---	CHLOROMETHANE			1	1
2.1	74-83-9	---1---	BROMOMETHANE	1	2	1	1
3.1	75-01-4	---1---	VINYL CHLORIDE	1	2	1	2
4.1	75-00-3	---1---	CHLOROETHANE		1	1	3
5.1	75-09-2	---1---	METHYLENE CHLORIDE	1	3	1	2
6.1	67-64-1	---1---	ACETONE	10			
7.1	75-15-0	---1---	CARBON DISULFIDE			2	2
8.1	75-35-4	---1---	1,1'-DICHLOOROETHENE			1	2
9.1	75-34-3	---1---	1,1-DICHLOROETHANE			1	1
10.1	540-59-0	---1---	1,2-DICHLOROETHENE (TOTAL)			1	1
11.1	67-66-3	---1---	CHLOROFORM			1	1
12.1	107-06-2	---1---	1,2-DICHLOROETHANE			1	1
13.1	78-93-3	---2---	2-BUTANONE	11		13	3
14.1	71-55-6	---2---	1,1,1-TRICHLOROETHANE			13	3
15.1	56-23-5	---2---	CARBON TETRACHLORIDE			1	1
16.1	108-05-4	---2---	VINYL ACETATE			1	1
17.1	75-27-4	---2---	BROMODICHLOROMETHANE			1	1
18.1	78-87-5	---2---	1,2-DICHLOROPROPANE			1	1
19.1	10061-01-5	---2---	cis-1,3-DICHLOROPROPENE			1	1
20.1	79-01-6	---2---	TRICHLOROETHENE			1	1
21.1	124-48-1	---2---	DIBROMOCHLOROMETHANE			1	1
22.1	79-40-5	---2---	1,1,2-TRICHLOROETHANE			1	1
23.1	71-43-2	---2---	BENZENE			1	1
24.1	10061-02-6	---2---	trans-1,3-DICHLOROPROPENE			1	1
25.1	75-25-2	---2---	BROMOFORM			1	1
26.1	108-10-1	---3---	4-METHYL-2-PENTANONE			1	1
27.1	1591-78-6	---3---	2-HEXANONE			1	1
28.1	127-18-4	---3---	TETRACHLOROETHENE			1	1
29.1	79-34-5	---3---	1,1,2,2-TETRACHLOROETHANE			1	1
30.1	108-88-3	---3---	TOLUENE			1	1
31.1	108-90-7	---3---	CHLOROBENZENE			1	1
32.1	100-41-4	---3---	ETHYLBENZENE			1	1
33.1	100-42-5	---3---	STYRENE			1	1
34.1	1330-28-7	---3---	XYLENE (TOTAL)			1	1

CAS NO

NON-TARGET COMPOUND NAME

BL

IC

CC

MS

OU

- \* Blank Contamination
- \* Initial Calibration
- \* Continuing Calibration
- \* Internal Standard Area/RT
- \* Overall ~~Quality~~ Level

MS = Mass Spectral Identification

Christie & Duddy 7/21/88  
Auditor's Report - 1000

~~ORGANIC DATA SURVEY TASK~~  
~~VOLATILE ORGANIC COMPOUNDS~~

## SAMPLE IDENTIFICATION

SITE CODE

DATA AUDITOR: GARY L. ROBERTSON

CAS NO IS# TARGET COMPOUND NAME

~~DATA-USABILITY LEVEL~~ <sup>QUALITY</sup>

		BL	FC	CC	IS	OU
74-87-3	---1---CHLOROMETHANE			2		2
74-83-9	---1---BROMOMETHANE		2	2		2
75-01-4	---1---VINYL CHLORIDE		2	2		2
75-00-3	---1---CHLOROETHANE	↓		2		2
75-09-2	---1---METHYLENE CHLORIDE	6	3	144		3
67-64-1	---1---ACETONE					71
75-15-0	---1---CARBON DISULFIDE					7
75-35-4	---1---1,1-DICHLOROETHENE					7
75-34-3	---1---1,1-DICHLOROETHANE					7
540-59-0	---1---1,2-DICHLOROETHENE (TOTAL)					
67-66-3	---1---CHLOROFORM					
107-06-2	---1---1,2-DICHLOROETHANE	14				1
78-93-3	---2---2-BUTANONE	11	3	3	3	3
71-55-6	---2---1,1,1-TRICHLOROETHANE					
56-23-5	---2---CARBON TETRACHLORIDE					
108-05-4	---2---VINYL ACETATE					
75-27-4	---2---BROMODICHLOROMETHANE					
78-87-5	---2---1,2-DICLOROPROPANE					
10061-01-5	---2---cis-1,3-DICLOROPROPENE					
79-01-6	---2---TRICHLOROETHENE					
124-48-1	---2---DIBROMOCHLOROMETHANE					
79-00-5	---2---1,1,2-TRICHLOROETHANE					
71-43-2	---2---BENZENE					
10061-02-6	---2---trans-1,3-DICLOROPROPENE					
75-25-2	---2---BROMOFORM					
108-10-1	---3---4-METHYL-2-PENTANONE					
591-78-6	---3---2-HEXANONE					
127-18-4	---3---TETRACHLOROETHENE					
79-34-5	---3---1,1,2,2-TETRACHLOROETHANE					
108-88-3	---3---TOLUENE					
108-90-7	---3---CHLOROBENZENE					
100-41-4	---3---ETHYLBENZENE					
100-42-5	---3---STYRENE					
1330-20-7	---3---XYLENE (TOTAL)	↓	↓	↓	↓	↓

CAS NO

NON-TARGET COMPOUND NAME

181

16

— 1 —

१५

- = Blank Contamination
  - = Initial Calibration
  - = Continuing Calibration
  - = Internal Standard Area/RT
  - = Overall Usability Level

MS = Mass Spectral Identification

D-xxxviii

D. F. Richardson 7/20/59  
Author's Signature

ORGANIC DATA QUALITY INDEX  
VOLATILE ORGANIC COMPOUNDS

**SAMPLE IDENTIFICATION**

SITE CODE

**DATA AUDITOR: GARY L. ROBERTSON**

CAS NO IS# TARGET COMPOUND NAME

**DATA USABILITY LEVEL**

		BL	IC	CC	IS	OU
74-87-3	CHLOROMETHANE					
74-83-9	BROMOMETHANE			2	1	2
75-01-4	VINYL CHLORIDE		2	2		2
75-00-3	CHLOROETHANE		2	2		2
75-09-2	METHYLENE CHLORIDE	3		2		2
67-64-1	ACETONE	3				3
75-15-0	CARBON DISULFIDE					
75-35-4	1,1-DICHLOROETHENE					
75-34-3	1,1-DICHLOROETHANE					
540-59-0	1,2-DICHLOROETHENE (TOTAL)					
67-66-3	CHLOROFORM					
107-06-2	1,2-DICHLOROETHANE		3	3		
78-93-3	2-BUTANONE		3	3		
71-55-6	1,1,1-TRICHLOROETHANE		3	3		3
56-23-5	CARBON TETRACHLORIDE					
108-05-4	VINYL ACETATE					
75-27-4	BROMODICHLOROMETHANE					
78-87-5	1,2-DICHLOROPROPANE					
10061-01-5	cis-1,3-DICHLOROPROPENE					
79-01-6	TRICHLOROETHENE					
124-48-1	DIBROMOCHLOROMETHANE					
79-00-5	1,1,2-TRICHLOROETHANE					
71-43-2	BENZENE					
10061-02-6	trans-1,3-DICHLOROPROPENE					
75-25-2	BROMOFORM					
108-10-1	4-METHYL-2-PENTANONE					
591-78-6	2-HEXANONE					
127-18-4	TETRACHLOROETHENE					
79-34-5	1,1,2-TETRACHLOROETHANE					
108-88-3	1,1,2-TOLUENE					
108-90-7	CHLOROBENZENE					
100-41-4	ETHYLBENZENE					
100-42-5	STYRENE					
1330-20-7	XYLENE (TOTAL)					

**CAS NO**                    **NON-TARGET COMPOUND NAME**

BL | IC | CC | Ms

00

- Blank Contamination
  - Initial Calibration
  - Continuing Calibration
  - Internal Standard Area/RT
  - Overall Usability Level

MS = Mass Spectral Identification

D-xxxix

H. F. Probert Jr. 7/20/44

~~ORGANIC DATA QUALITY~~ ~~TESTS~~  
VOLATILE ORGANIC COMPOUNDS

**SAMPLE IDENTIFICATION**

SITE CODE

DATA AUDITOR: GARY L. ROBERTSON

CAS NO IS# TARGET COMPOUND NAME

DATA ~~TESTS~~ LEVEL

			BL	IC	CC	IS	OU
1.1	74-87-3	---1---CHLOROMETHANE					
2.1	74-83-9	---1---BROMOMETHANE			2	1	2
3.1	75-01-4	---1---VINYL CHLORIDE			2	2	2
X1	75-00-3	---1---CHLOROETHANE			2	2	2
5.1	75-09-2	---1---METHYLENE CHLORIDE			2	2	2
6.1	67-64-1	---1---ACETONE	3		11		3
7.1	75-15-0	---1---CARBON DISULFIDE					
8.1	75-35-4	---1---1,1-DICHLOROETHENE					
9.1	75-34-3	---1---1,1-DICHLOROETHANE					
10.1	540-59-0	---1---1,2-DICHLOROETHENE (TOTAL)					
11.1	67-66-3	---1---CHLOROFORM					
12.1	107-06-2	---1---1,2-DICHLOROETHANE					
13.1	78-93-3	---2---2-BUTANONE	3		4	1	
X1	71-55-6	---2---1,1,1-TRICHLOROETHANE			3	3	3
5.1	56-23-5	---2---CARBON TETRACHLORIDE					1
6.1	108-05-4	---2---VINYL ACETATE					
7.1	75-27-4	---2---BROMODICHLOROMETHANE					
8.1	78-87-5	---2---1,2-DICHLOROPROPANE					
9.1	10061-01-5	---2---cis-1,3-DICHLOROPROPENE					
10.1	79-01-6	---2---TRICHLOROETHENE					
11.1	124-48-1	---2---DIBROMOCHLOROMETHANE					
21	79-00-5	---2---1,1,2-TRICHLOROETHANE					
31	71-43-2	---2---BENZENE					
X1	10061-02-6	---2---trans-1,3-DICHLOROPROPENE					
5.1	75-25-2	---2---BROMOFORM					
21	108-10-1	---3---4-METHYL-2-PENTANONE					
X1	591-78-6	---3---2-HEXANONE					
11.1	127-18-4	---3---TETRACHLOROETHENE					
7.1	79-34-5	---3---1,1,2,2-TETRACHLOROETHANE					
21	108-88-3	---3---TOLUENE					
1108-90-7		---3---CHLOROBENZENE					
1100-41-4		---3---ETHYL BENZENE					
1100-42-5		---3---STYRENE					
11330-20-7		---3---XYLENE (TOTAL)					

ICAS NO

NON-TARGET COMPOUNDS

BL | IC | CC | MS

11

L = Blank Contamination M  
C = Initial Calibration  
C = Continuing Calibration  
S = Internal Standard Area/RT  
U = Overall Usability Level

MS = Mass Spectral Identification

D-xi

D. J. Roberts 7/10/44  
Auditor's signature/initials

## **ATTACHMENT D**

### **GUIDELINES**

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Title: GUIDELINES FOR EVALUATING USABILITY

The following are guidelines for evaluating usability of volatile and semivolatile organic data:

1. For volatile organic analysis data, both the blanks and the samples can contain common laboratory contaminants such as methylene chloride, acetone, and 2-butanone. These common laboratory contaminants are not considered "hits" under the following criteria:
  - a. if their concentrations are less than 10X the concentration of the method blank (which will be noted just to the left of the "BL" column), or less than 10X the concentration in the associated trip blank; or
  - b. if these contaminants are not in the method or trip blanks and their concentration is less than 10X the CRQL. Even if the quality level = 1, these contaminants must be at least 10X the contract required quantitation limit (CRQL) before the values are considered actual "hits".

The CRQL levels for these contaminants in both water and soil matrices are:

methylene chloride	5 ppb
acetone	10 ppb
2-butanone	10 ppb

2. In general, for those data where the quality level is 3, hits above the CRQL can be considered real. However, it must be noted that this type of data is qualitative but not quantitative. For example, a hit at 10 ppb toluene with quality level 3 could actually have a toluene concentration of 1 to 25 ppb.
3. All tentatively identified compounds (TIC) data should be evaluated relative to compounds known to be used at the DOE sites. Mass spectra libraries may be limited and not contain the spectrum of analytes characteristic at the DOE sites. All TIC data will be reported to the Survey Team regardless of the data quality level. For this evaluation, all TIC-unknown data are classified Q3 based on the limitations of the mass spectrum interpretation.
4. Examples of increased probability of false negatives are:
  - 2 or more surrogates are out-of-limits for volatiles
  - internal standard is out-of-limits or has a low percent recovery (%R)
  - holding times exceeded

5. Examples of increased probability of false positive are:
  - no method blank was run with the SDG
  - no trip blank was run with the VOA SDG
  - holding times exceeded along with no trip blank analysis for the VOA SDGs
6. When quality level 3 data is accepted for usability, a footnote which explains why the data is accepted should be noted and included in the summary table (Appendix E).
7. Analyte values which are below the CRQL are reported, but will not be classified as Q1 data. These data will generally be classified as Q3 data because they are semi-quantitative.
8. Semivolatile analysis data for both blanks and the samples can contain common laboratory contaminants such as bis(2-ethylhexyl) phthalate, diethylphthalate, and di-n-octylphthalate. These common laboratory contaminants are not considered "hits" under the following criteria:
  - a. if their concentrations are less than 10X the concentration of the method blank or 10X the CRQL, and/or
  - b. if the quality level = 1, these contaminants must be at least 10X the CRQL before the values are considered actual "hits".

The CRQL level for these contaminants are:

<u>Organic compound</u>	<u>Water matrix</u>	<u>Soil matrix</u>
bis(2-ethylhexyl) phthalate	10 ppb	330 ppb
di-n-octyl phthalate	10 ppb	330 ppb
diethylphthalate	10 ppb	330 ppb

## **ATTACHMENT E**

## **SUMMARY TABLE**

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ATTACHMENT E

ENV PROBLEM # - 3 SAMPLES (No analysis data available)

ENV PROBLEM # - 9 SAMPLES

o	Toluene	21ppb	Q3 (IS)(SU) No Trip Blank
	TIC-Trifluorochloromethane	8ppb	Q3 (MS)(SU) No Trip Blank
	TIC-Unknown	11ppb	Q3 (MS)(SU) No Trip Blank
o	No analysis data		

NOTE: 2 of the 8 samples,  
the overall quality level is QL-3; hence the potential for false negatives  
exists.

analyzed have no hits but

ENV PROBLEM # - 3 SAMPLES

o	Toluene	7ppb	Q2
o	Toluene	64ppb	Q2
o	Toluene	7ppb	Q2

NOTE: No toluene in trip blank.

ENV PROBLEM # - 9 SAMPLES

o	Chloroform	6ppb	Q2
o	TIC-Methane(bis)thio	226ppb	Q2
o	Toluene	101ppb	Q2
o	Toluene	9ppb	Q2

NOTE: Trip blank and samples contained the normal laboratory contaminants,  
methylene chloride, acetone, and 2-butanone. Neither chloroform nor toluene  
was detected in the trip blank.

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Oak Ridge National Laboratory  
Analytical Chemistry Division

**ANALYSIS QUALITY LEVEL EVALUATION**

Method:

SDG No.:

Date(s) Received:

Date(s) prepared:

Date(s) analyzed:

SITE NAME:

QC Request:

Completed

Description

Page 1 of 1

**DOCUMENTATION COMPLETENESS**

**Case Narrative Review**

Preparer:

Reviewer:

Method Description

**Reporting Forms Review**

Preparer:

Reviewer:

**Analyst Worksheets/Notebook Review**

**ANALYSIS QUALITY**

Representativeness

Samples Preserved and Stored Properly

Appropriate Percentages of Holding Times Met (as listed in Table 1)

Actual % Compliance

Deviation From Holding Times Requirements

Oak Ridge National Laboratory  
Analytical Chemistry Division  
**ANALYSIS QUALITY LEVEL EVALUATION**

SITE NAME:

Method:

SDG No.:

Page 2 of 4

Completed	Description
	<p><b>ANALYSIS QUALITY (continued)</b></p> <p><b>Comparability</b></p> <p>Participation in EPA quarterly Performance Evaluation</p> <hr/> <hr/> <hr/> <hr/>
	<p><b>Precision</b></p> <p>80% of duplicate results for aqueous samples in compliance with requirements</p> <hr/> <hr/> <hr/>
	<p style="text-align: center;">Actual % Compliance</p> <hr/> <p style="text-align: right;">Deviation from 80% Compliance</p>
	<p>70% of duplicate results for soil samples in compliance with requirements</p> <hr/> <hr/> <hr/>
	<p style="text-align: center;">Actual % Compliance</p> <hr/> <p style="text-align: right;">Deviation from 70% Compliance</p>
	<p>Other matrix:</p> <hr/>
	<p>70% of precision control limits met</p> <hr/>
	<p style="text-align: center;">Actual % Compliance</p> <hr/> <p style="text-align: right;">Deviation From 70% Compliance</p>
	<p><b>COMMENTS</b></p> <hr/> <hr/> <hr/>

Oak Ridge National Laboratory  
 Analytical Chemistry Division  
**ANALYSIS QUALITY LEVEL EVALUATION**

SITE NAME:

Method:

SDG No.:

Page 3 of 4

Completed	Description	
	<b>ANALYSIS QUALITY (continued)</b>	
	<b>Accuracy</b>	
	95% of preparation blank results in compliance with requirements	
	Actual % Compliance _____	Deviation From 95% Compliance _____
	80% of laboratory control samples in compliance with requirements	
	Actual % Compliance _____	Deviation From 80% Compliance _____
	Appropriate percentage (see Table 2) of calibration verification data in compliance with requirements	
	Actual % Compliance _____	Deviation from Required Compliance _____
	90% of ICP interference check standards in compliance with requirements	
	Actual % Compliance _____	Deviation From 90% Compliance _____
	80% of spike and serial dilution results for aqueous samples in compliance with requirements	
	Actual % Compliance _____	Deviation From 80% Compliance _____
	70% of spike and serial dilution results for soil samples in compliance with requirements	
	Actual % Compliance _____	Deviation from 70% Compliance _____
	*****	
	Average Deviation from Compliance _____	

\*\*\* ANALYSIS QUALITY LEVEL \_\_\_\_\_ (1, 2, 3)

EXCEPTIONS:	Analyte	Quality Level
_____	_____	_____
_____	_____	_____
_____	_____	_____

Oak Ridge National Laboratory  
 Analytical Chemistry Division  
**ANALYSIS QUALITY LEVEL EVALUATION**

ITE NAME:

Method:

SDG No.:

Page 4 of 4

**TABLES**

**Table 1. Criteria for Holding Times**

<u>Method</u>	<u>% Criteria</u>
CVAA	90
ICP, GFAA, Total U	98
Anions	50
Cyanide	75
Other analytes	90

**Table 2. % Criteria for Continuing Calibration Verification Data**

<u>Method</u>	<u>% Criteria</u>
ICP, GFAA, CVAA	90
Rads	75
Inorganic Exotics	75
Anions	90
Other	90

**Table 3. Summary of Levels**

Level 1: Percent Criteria for Compliance met

Level 2:  $\leq$  20% deviation from above conditions

Level 3:  $>$  20% deviation from above conditions

Comments \_\_\_\_\_

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**DATA QUALITY EVALUATION  
PRELIMINARY OPERATING PROCEDURE  
ICP (INCLUDING K )**

**DATE IN USE: 10-1-88**

**SITE(S) : LL/SN/ANL/BNL/INEL**

**PREPARER : Katherine Whaley**

- REFERENCES:** 1) EPA Document: Standard Operating Procedure For Contract Compliance Screening (CCS) of Routine Analytical Services Of Inorganics Data Under SOW No. 787  
2) EPA Document: Data Quality Objectives For Remedial Response Activities - Development Process  
3) EPA Document: Laboratory Data Validation - Functional Guidelines For Evaluating Inorganic Analyses

**PROCEDURE SUMMARY:** Designed to allow determination of utility or quality levels for DOE Site Survey ICP and potassium analyses, the format for this procedure also provides a summary of all problem areas. The review occurs at the analyte level and results in an overall quality for each sample with provisions for individual analyte exceptions. The central document is the series of comments (see attachment A) which serve both to summarize specific nonconformances (as defined in CLP protocol) and to define data quality levels associated with these nonconformances. While an overall sample quality level is the final product, all analyte review results and comments appear on one sample specific form (see attachment B). Therefore no step in the process is lost. Overall levels can be reevaluated as needed.

Attachment C is an example of a completed data quality evaluation form (older version of form). The ICP-QA information requested (see attachment B top) can be used to indicate SDG number. Current ORNL inorganics practice is to provide separate electronic and hard copy files for each day's quality control results to the site data management group. The level assigned for arsenic spike results is level 2, comment 27(see attachment A) with potential detection limit elevation of 40%. Calibration blank results are evaluated together under the "CCB" column. The level assigned for aluminum preparation blanks is level 1, comment 6. If a category is left blank it is assumed that the level is 1 without comments. Quality table identification numbers are assigned for each table and current ORNL ICP practice is to store quality levels,exceptions, sample numbers, environmental problem numbers, and data quality table numbers on disk.

Potassium should be included in this procedure if determined by ICP or AA under CLP protocols. If flame emission is used, the data quality level must determined while keeping in mind that flame emission is not a CLP method.

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Attachment A

COMMENT CODES

<u>CODE</u>	<u>COMMENT</u>	
1	The calibration verification falls outside the control windows but within the ranges of 50-89%. Sample results are considered as estimated but usable. Reported results could be negatively biased by % amount indicated by " - X " appearing after code descriptor in " ( ) ".	<u>LEVEL 2</u>
2	The calibration verification falls outside the control windows but within the ranges of 111-150%. The sample results are considered as estimated but usable. Reported results could be positively biased by % amount indicated by " + X " appearing after code descriptor in " ( ) ".	<u>LEVEL 2</u>
3	The calibration verification result is greater than 110%, but the element was not detected in the sample. The usability of the analytical sample determination is acceptable.	<u>LEVEL 1</u>
4	The calibration verification result is less than 90% and the element was not detected in the sample. The detection limit may be elevated by % amount indicated by " + X " appearing after code descriptor in " ( ) ". The data is considered marginally usable.	<u>LEVEL 3</u>
5	The calibration verification result falls less than 50% or greater than 150%. This is indicative of a severe analytical deficiency. The data is rejected as unusable.	<u>LEVEL 3</u>
5A	The calibration verification result for the secondary channel out of control. Only primary channel results reported. Primary channel was in compliance. Data not affected.	<u>LEVEL 1</u>
6	Positive value observed in the preparation blank which is less than the CRDL. This is acceptable according to CLP protocol.	<u>LEVEL 1</u>
7	Positive value observed in the calibration blank which is less than the CRDL, but greater than 2X the IDL. The sample result was less than 5X the blank result. The possibility of a false positive exists. The data is considered marginally usable.	<u>LEVEL 3</u>
8	Positive value observed in the blank which is greater than the CRDL. The sample result was less than 10X the blank result. It is not possible to verify whether the level of analyte detected in the sample was due to contamination. The data is rejected as unusable.	<u>LEVEL 3</u>
8A	Positive value observed in the blank which is greater than the CRDL. The element however was not detected in the sample. The data is acceptable.	<u>LEVEL 1</u>
9	Positive value observed in the blank which is greater than the CRDL. The sample result was > than 10X the blank result. The data is acceptable according to the CLP protocol.	<u>LEVEL 1</u>

**COMMENT CODES**

<b><u>CODE</u></b>	<b><u>COMMENT</u></b>
10	% Recovery value for interference check standard is outside the control windows. The AL, CA, FE, and MG concentrations in the sample are less than 60% of their values in the ICS standard. No other potentially interfering elements are present in concentrations exceeding 10 ppm. The data is judged to be acceptable. <b><u>LEVEL 1</u></b>
11	% Recovery value for interference check standard is > 120% and the sample contains any of the following in concentrations at the levels of the ICS standard: AL,CA,FE,MG . The sample result is < IDL. The data is judged to be acceptable. <b><u>LEVEL 1</u></b>
12	% Recovery value for interference check standard is > 120% and the sample contains any of the following in concentrations at the levels of the ICS standard: AL,CA,FE,MG . The sample result is > IDL. The sample result is considered estimated but acceptable. Reported results could be positively biased by % amount indicated by " + X " appearing after code descriptor in " ( ) ". <b><u>LEVEL 2</u></b>
13	% Recovery value for interference check standard falls between 30 and 79 % and the sample contains any of the following in concentrations at the level of the ICS standard: AL,CA,FE,MG. Positive sample results were reported. The sample results are considered as estimated but acceptable. Reported results could be negatively biased by % amount indicated by " - X " appearing after code descriptor in " ( ) ". <b><u>LEVEL 2</u></b>
14	% Recovery value for interference check standard falls between 30 and 79% and the sample contains any of the following in concentrations at the level of the ICS standard: AL,CA,FE,MG. The element was not detected in the sample. The possibility for false negatives exists. The detection limit may be elevated by % amount indicated by " - X " appearing after code descriptor in " ( ) ". <b><u>LEVEL 2</u></b>
15	The % recovery value for the laboratory control standard falls within the range of 30-79% and a positive sample result was reported. The data is considered estimated but acceptable. Reported result could be negatively biased by % amount indicated by " - X " appearing after code descriptor in " ( ) ". <b><u>LEVEL 2</u></b>
16	The % recovery value for the laboratory control standard is greater than 120% and a positive sample result was reported. The data is considered as estimated but acceptable. Reported result could be positively biased by % amount indicated by " + X " appearing after code descriptor in " ( ) ". <b><u>LEVEL 2</u></b>
17	The % recovery value for the laboratory control standard falls within the range of 30-79% and the element was not detected in the sample. The possibility for false negatives exits. The data is considered as estimated but acceptable. The actual detection limit could be elevated by % amount indicated by " + X " appearing after code descriptor in " ( ) ". <b><u>LEVEL 2</u></b>

COMMENT CODES

<u>CODE</u>	<u>COMMENT</u>
18	The % recovery value for the laboratory control standard is > 120% and the element was not detected in the sample. The data is considered acceptable <u>LEVEL 1</u>
18A	The % recovery value for the laboratory control standard is < 30% and the element was not detected in the sample. The detection limit may be greatly elevated or the element not recovered in this sample. The data is rejected as unusable. <u>LEVEL 3</u>
18B	The % recovery value for the laboratory control standard is < 30% and a positive sample result was reported. The data is considered as confirmation of the qualitative presence of the analyte only. <u>LEVEL 3</u>
General comments regarding duplicate analysis review: Actions taken as a result of duplicate sample analysis must be weighed carefully since it may be difficult to determine if poor precision is a result of sample non-homogeneity, method defects or laboratory technique. The non-homogeneous nature of soil samples often makes it more difficult to achieve good duplicate results compared to aqueous samples. However, aqueous samples containing high levels of solids can produce erratic duplicate results as well. In general, the results of duplicate sample analysis should be used to support conclusions drawn about the quality of the data rather than as a basis for these conclusions.	
19	RPD value for duplicate analysis out of control. This sample in the SDG was not the sample prepared in duplicate and it appears evident that its matrix is of a different chemical and physical nature than the sample chosen for duplication. The data is judged to be acceptable. <u>LEVEL 2</u>
20	RPD value for duplicate analysis > 50% . The data is considered as confirmation of the qualitative presence of the analyte only. <u>LEVEL 3</u>
21	RPD value for duplicate analysis > 20%, but < 50% . The data is considered as estimated but acceptable. <u>LEVEL 2</u>
22	Control limits for concentration of duplicate < 5X CRDL exceeded. The data is considered as estimated but acceptable. <u>LEVEL 2</u>
23	* Recovery for spike outside control limits, but the sample result exceeds the spike result by a factor of 4 or greater. The results are not flagged, as the percent recovery results can not be considered accurate in this case. This is acceptable under the CLP protocol. <u>LEVEL 1</u>
23A	* Recovery for spike outside control limits, but the sample result is close to 4X the spiking level. The accuracy of the % R result is questionable. The result has been flagged but considered acceptable and usable. <u>LEVEL 2</u>

COMMENT CODES

<u>CODE</u>	<u>COMMENT</u>
24	% Recovery for spike outside control limits. This sample in the SDG was not the sample spiked during preparation and it appears evident that its matrix is of a different chemical and physical nature than the sample chosen for spiking. The data is judged to be acceptable. <u>LEVEL 2</u>
25	% Recovery for spike is > 125% and the reported sample result is less than the IDL. The data is acceptable. <u>LEVEL 1</u>
26	% Recovery for spike is > 125% and the reported sample result is positive. The results are considered as estimated but acceptable. Reported results could be positively biased by % amount indicated by "+ X" appearing after code descriptor in " ( ) ". <u>LEVEL 2</u>
27	% Recovery for spike falls within the range of 30-74% and the reported sample result is less than the IDL. The possibility for false negatives exists. The actual detection limit may be elevated by the % amount indicated by "+ X" appearing after code descriptor in " ( ) ". The data is considered as estimated but acceptable. <u>LEVEL 2</u>
28	% Recovery for spike falls within the range of 30-74% and the reported sample result is positive. The possibility for false negatives exists. The data is considered as estimated but acceptable. The reported result could be considered to be negatively biased by % amount indicated by "- X" appearing after code descriptor in " ( ) ". <u>LEVEL 2</u>
29	% Recovery for spike < 30% and the reported sample result is positive. The data may be biased significantly low and should be considered as qualitative analyte presence only. <u>LEVEL 3</u>
30	% Recovery for spike < 30% and the reported sample result is less than the IDL. This is indicative of severe analytical deficiencies. The detection limit may be substantially elevated. The data is rejected as unusable. <u>LEVEL 3</u>
30A	% Recovery for spike < 30% due to choice of spiking level within a factor of 2 of the IDL. Nothing can be said about the accuracy of sample digestion. The data is marginally acceptable. <u>LEVEL 3</u>
31	10% criteria for serial dilution result not met. A matrix interference is suspected. The data is considered as estimated but usable. <u>LEVEL 2</u>

\*\*

Indicates that additional comments appear on individual quality level table form (sample specific - see summary sheet for each site to find quality table number for particular sample).

H. Whaley  
10-24-88

*Attachment B*

ICP-QA: \_\_\_\_\_

DOE SITE SURVEY - DATA VALIDATION  
ICP

QUALITY TABLE: \_\_\_\_\_

SITE: \_\_\_\_\_

DOE SAMPLE NO: \_\_\_\_\_

LABORATORY SAMPLE NO: \_\_\_\_\_

SDG NO: \_\_\_\_\_

MATRIX: \_\_\_\_\_

REVIEWER: \_\_\_\_\_

DATE: \_\_\_\_\_

SAMPLE VALIDATION QUALITY LEVEL: \_\_\_\_\_

EXCEPTIONS: see below

LEVEL	ELEMENT	ICV	CCV	DATA QUALITY LEVEL					SPK	SD
				CCB	PB	ICS	LCS	DUP		
	ALUMINUM									
	ANTIMONY									
	ARSENIC									
	BARIUM									
	BERYLLIUM									
	CADMIUM									
	CALCIUM									
	CHROMIUM									
	COBALT									
	COPPER									
	IRON									
	LEAD									
	MAGNESIUM									
	MANGANESE									
	NICKEL									
	SELENIUM									
	SILVER									
	SODIUM									
	VANADIUM									
	ZINC									

COMMENT CODES APPEAR IN ( ) AFTER EACH CATALOGUE

ONLY DEVIATIONS FROM LEVEL 1 AND QUALIFIED LEVEL 1 WILL BE NOTED ON FORM

ICV/CCV: Initial and cont. calib. verification ICS: Interference chk std

LCS: Laboratory control std CCB/PB: Calib. and preparation blanks

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CPA 6300S

## Attachment C

Quality Table

AID

22

(K.C.)

If category left blank, assume Level 1DOE SITE SURVEY - INORGANIC  
ICP

SITE: LL

DOE SAMPLE NO: LL011010C

LABORATORY SAMPLE NO: 370814-104

SDG NO: LL011010C

MATRIX: S

REVIEWER: Katherine Whaley

DATE: 10-18-88

Overall Quality Level (sample): 1

Mn: 2, Se: 2, Ni: 2

ELEMENT	ICV	CCV	CCR	DATA QUALITY LEVEL				SPK	SD
				PB	ICS	LCS	DUP		
ALUMINUM				1(6)				2(21)	
ANTIMONY									
ARSENIC								2(27) + 40	
BARIUM				1(6)					
BERYLLIUM									
CADMIUM									
CALCIUM								2(21)	
CHROMIUM									2(31)
COBALT									
COPPER									
IRON				1(6)				2(21)	
LEAD									
MAGNESIUM				1(6)					
MANGANESE								3(20)	
NICKEL								2(22)	2(28) - 30
KRYPTON	K.W.								
SELENIUM									3(30)
SILVER									
SODIUM									
VANADIUM									
ZINC									

COMMENT CODES APPEAR IN ( ) AFTER EACH CATEGORY

ICV: Initial calibration verification

PB: Preparation blank

CCV: Continuing calibration verification

ICS: Interference Chk Std.

CCR: Continuing calibration blank (includes initial results)

LCS: Laboratory Control Std.

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ARGONNE NATIONAL LABORATORY  
9700 SOUTH CASS AVENUE, ARGONNE, ILLINOIS 60439

April 6, 1989

Mr. Robert Fitts  
Program Manager  
Oak Ridge Environmental Survey  
Program  
Environmental Sciences Division  
Oak Ridge National Laboratory  
P.O. Box 2008  
Oak Ridge, TN 37831

Dear Bob,

Per Renee Tucker's letter of March 6, 1989, I am sending you a copy of the SOP that I have been using to determine the Oak Ridge organic data usability.

I trust this is what you need.

Sincerely,



Peter C. Lindahl  
Analytical Chemistry Laboratory  
Chemical Technology Division

PCL:amb

Enclosure NOTE: The enclosure for this letter was DRT-SOP-002 Rev 3 with attachments (see pages D-iii through D-xii).

cc: w/o Encl.  
D. Green  
F. Martino  
M. Steindler (2)  
P. Nelson  
R. Tucker (ORNL)

w/Encl.  
DES File

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TABLE D.1.1 DIRECTORY FOR ANIONS AND CYANIDE QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
4	LL015014F	LL015014F	D.1.2 (D-3)
4	LL015025F	LL015014F	D.1.2 (D-3)
4	LL016015E	LL016015E	D.1.3 (D-4)
4	LL017016E	LL016015E	D.1.3 (D-4)
4	LL018017E	LL018017E	D.1.4 (D-5)
4	LL019018E	LL018017E	D.1.4 (D-5)
4	LL020011F	LL020011F	D.1.5 (D-6)
4	LL020011G	LL020011F	D.1.5 (D-6)
4	LL021012F	LL020011F	D.1.5 (D-6)
4	LL021012G	LL020011F	D.1.5 (D-6)
4	LL025016H	LL020011F	D.1.5 (D-6)
4	LL025016J	LL025016J	D.1.6 (D-7)
4	LL025027G	LL020011F	D.1.5 (D-6)
4	LL025027H	LL025016J	D.1.6 (D-7)

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TABLE D.1.2 LIVERMORE/SANDIA ANIONS AND CYANIDE - SDG NUMBER: LL015014F

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	CALIBRATION VER TRUE LLCVA1252 WATER UG/L	CALIBRATION VER FOUND LLCVA1244 WATER UG/L	BLDG. 141 SUMP LL015014F WATER UG/L	DUPLICATE LL015014F WATER UG/L	DUPLICATE RPD LL015014F %	BLDG. 141 SUMP LL015025F WATER UG/L	MATRIX SPIKE LL015025F WATER UG/L
FLUORIDE NITRATE-N	580 19900	600 21300	20000 24000	20000 25000	0 4	1000 U 5000 U	360 11000
AREA							
QA							
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO							
MS X RECOVERY LL015025F %							
FLUORIDE NITRATE-N							
100 106							

D-3

TABLE D.1.3 LIVERMORE/SANDIA ANIONS AND CYANIDE - SDG NUMBER: LL016015E

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	CALIBRATION VER TRUE LLCVB1263 WATER UG/L	CALIBRATION VER FOUND LLCVB1258 WATER UG/L	BLDG. 141 SUMP LL016015E WATER UG/L	MATRIX SPIKE LL016015E WATER UG/L	MS % RECOVERY LL016015E % 4	BLDG. 141 SUMP LL017016E WATER UG/L	DUPPLICATE LL017016E WATER UG/L 4
CHLORIDE			12000		100	140000	
FLUORIDE	1910	1970	32000	52000	104	12000	12000
NITRATE-N	29900	30800	5700	78000		6200	6200
O-PHOSPHATE-P			21000			5000 U	
SULFATE			44000			21000	
AREA	QA	QA					
D-4	LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	DUPLICATE RPD LL017016E %	INITIAL CAL BLANK LLICB1332 WATER UG/L 4				
CHLORIDE		0	1000 U				
FLUORIDE		0	5000 U				
NITRATE-N							
O-PHOSPHATE-P							
SULFATE							

TABLE D.1.4 LIVERMORE/SANDIA ANIONS AND CYANIDE - SDG NUMBER: LL018017E

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	CALIBRATION	CALIBRATION	INITIAL CAL	BLDG. 151	MATRIX	MS X	BLDG. 151
TYPE OF LOCATION	VER TRUE	VER FOUND	BLANK	TANK	SPIKE	RECOVERY	TANK
SAMPLE NUMBER	LLCVB1265	LLCVB1261	LLICB1334	LL018017E	LL018017E	LL018017E	LL019018E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	UG/L
ENV PROBLEM NO				4	4	4	4
CHLORIDE				80000			290000
FLUORIDE	1910	1910	1000 U	1000	10400	93	2300
NITRATE-N	29900	31800	5000 U	260000 N	350000	129	1300000 N
O-PHOSPHATE-P				8100			5000 U
SULFATE				11000			28000
AREA	QA	QA					
D-5							
LOCATION	DUPLICATE	DUPLICATE					
TYPE OF LOCATION	RPD						
SAMPLE NUMBER	LL019018E	LL019018E					
MATRIX	WATER						
UNITS	UG/L	%					
ENV PROBLEM NO	4	4					
CHLORIDE	2400	4					
FLUORIDE	1300000	0					
NITRATE-N							
O-PHOSPHATE-P							
SULFATE							

TABLE D.1.5 LIVERMORE/SANDIA ANIONS AND CYANIDE - SDG NUMBER: LL020011F

AREA	QA	QA	BLDG. 222	BLDG. 222	BLDG. 222	BLDG. 222	BLDG. 321
LOCATION	CALIBRATION	CALIBRATION	BLDG. 222	BLDG. 222	BLDG. 222	BLDG. 222	TANK
TYPE OF LOCATION	VER TRUE	VER FOUND	TANK	TANK	TANK	TANK	SUMP
SAMPLE NUMBER	LLCVA1255	LLCVA1249	LL021012F	LL021012G	LL020011F	LL020011G	LL025027G
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO			4	4	4	4	4
CYANIDE, TOTAL	225	213	8	3	2 U	2 U	2 U
AREA							
LOCATION		BLDG. 321					
TYPE OF LOCATION		SUMP					
SAMPLE NUMBER		LL025016H					
MATRIX		WATER					
UNITS		UG/L					
ENV PROBLEM NO		4					
CYANIDE, TOTAL		9					

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TABLE D.1.6 LIVERMORE/SANDIA ANIONS AND CYANIDE - SDG NUMBER: LL025016J

AREA	QA	QA	QA	QA	QA	QA	MS % RECOVERY
LOCATION	CALIBRATION	CALIBRATION	BLDG. 321	INITIAL CAL	BLDG. 321	MATRIX SPIKE	
TYPE OF LOCATION	VER TRUE	VER TRUE	SUMP	BLANK	SUMP	WATER	LL025016J
SAMPLE NUMBER	LLCVB1266	LLCVC1271	LL025027H	LLICB1335	LL025016J	WATER	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	%
ENV PROBLEM NO			4		4	4	4
CHLORIDE	1700	1600	1000 U	1000 U	47000		
FLUORIDE	1910	2130	1000 U	1000 U	11000		
NITRATE-N	29900	34800	5000 U	5000 U	5000 U	5000 U	297000 107
O-PHOSPHATE-P	28100	29400	5000 U	5000 U	5000 U	5000 U	
SULFATE	56600	49900	5000 U	5000 U	5000 U	5000 U	

AREA	QA	QA	QA
LOCATION	CONTINUING	CALIBRATION	CALIBRATION
TYPE OF LOCATION	CAL BLANK	VER FOUND	VER FOUND
SAMPLE NUMBER	LLCCB1070	LLCVC1262	LLCVC1269
MATRIX	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L
ENV PROBLEM NO			
CHLORIDE	1000 U	1660	1600
FLUORIDE	1000 U	1920	2240
NITRATE-N	5000 U	32300	37600
O-PHOSPHATE-P	5000 U	28200	30600
SULFATE	5000 U	56800	52400

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TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
1	LL001018C	LL001018C	D.2.2 (D-26)
1	LL001018C	LL001018K	D.2.4 (D-33)
1	LL001018D	LL001018D	D.2.3 (D-31)
1	LL001029C	LL001018C	D.2.2 (D-26)
1	LL001029C	LL001018K	D.2.4 (D-33)
1	LL001029D	LL001018D	D.2.3 (D-31)
1	LL001030C	LL001018C	D.2.2 (D-26)
1	LL001030C	LL001018K	D.2.4 (D-33)
1	LL001030D	LL001018D	D.2.3 (D-30)
1	LL001041F	LL001041F	D.2.5 (D-38)
1	LL001041F	LL001041K	D.2.8 (D-46)
1	LL001041G	LL001041G	D.2.6 (D-42)
1	LL001041H	LL001041H	D.2.7 (D-45)
1	LL002019C	LL001018C	D.2.2 (D-26)
1	LL002019C	LL001018K	D.2.4 (D-33)
1	LL002019D	LL001018D	D.2.3 (D-30)
1	LL002020C	LL001018C	D.2.2 (D-26)
1	LL002020C	LL001018K	D.2.4 (D-33)
1	LL002020D	LL001018D	D.2.3 (D-30)
1	LL002031C	LL001018C	D.2.2 (D-27)
1	LL002031C	LL001018K	D.2.4 (D-33)
1	LL002031D	LL001018D	D.2.3 (D-30)
1	LL003010C	LL003010C	D.2.9 (D-53)
1	LL003010C	LL003010K	D.2.10 (D-59)
1	LL003010D	LL001018D	D.2.3 (D-31)
1	LL003021C	LL003010C	D.2.9 (D-53)
1	LL003021C	LL003010K	D.2.10 (D-59)
1	LL003021D	LL001018D	D.2.3 (D-32)
1	LL003032C	LL003010C	D.2.9 (D-53)
1	LL003032C	LL003010K	D.2.10 (D-59)
1	LL003032D	LL001018D	D.2.3 (D-32)
1	LL003043F	LL003043F	D.2.11 (D-62)
1	LL003043F	LL003043K	D.2.12 (D-72)
1	LL003043G	LL001041G	D.2.6 (D-42)
1	LL004011C	LL001018C	D.2.2 (D-27)
1	LL004011C	LL001018K	D.2.4 (D-33)
1	LL004011D	LL001018D	D.2.3 (D-30)
1	LL004022C	LL001018C	D.2.2 (D-27)
1	LL004022C	LL001018K	D.2.4 (D-33)
1	LL004022D	LL001018D	D.2.3 (D-30)
1	LL004033C	LL001018C	D.2.2 (D-28)
1	LL004033C	LL001018K	D.2.4 (D-33)
1	LL004033D	LL001018D	D.2.3 (D-30)
1	LL005012C	LL003010C	D.2.9 (D-53)
1	LL005012C	LL003010K	D.2.10 (D-59)
1	LL005012D	LL005012D	D.2.13 (D-76)
1	LL005023C	LL003010C	D.2.9 (D-53)
1	LL005023C	LL003010K	D.2.10 (D-59)
1	LL005023D	LL005012D	D.2.13 (D-76)
1	LL005034C	LL003010C	D.2.9 (D-54)
1	LL005034C	LL003010K	D.2.10 (D-59)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
1	LL005034D	LL005012D	D.2.13 (D-77)
1	LL006013C	LL003010C	D.2.9 (D-54)
1	LL006013C	LL003010K	D.2.10 (D-59)
1	LL006013D	LL005012D	D.2.13 (D-76)
1	LL006024C	LL003010C	D.2.9 (D-54)
1	LL006024C	LL003010K	D.2.10 (D-59)
1	LL006024D	LL005012D	D.2.13 (D-76)
1	LL006035C	LL003010C	D.2.9 (D-54)
1	LL006035C	LL003010K	D.2.10 (D-59)
1	LL006035D	LL005012D	D.2.13 (D-77)
1	LL006046F	LL003043F	D.2.11 (D-62)
1	LL006046F	LL003043K	D.2.12 (D-72)
1	LL006046G	LL001041G	D.2.6 (D-42)
1	LL007014C	LL003010C	D.2.9 (D-54)
1	LL007014C	LL003010K	D.2.10 (D-59)
1	LL007014D	LL005012D	D.2.13 (D-77)
1	LL007025C	LL003010C	D.2.9 (D-54)
1	LL007025C	LL003010K	D.2.10 (D-59)
1	LL007025D	LL005012D	D.2.13 (D-77)
1	LL007036C	LL003010C	D.2.9 (D-54)
1	LL007036C	LL003010K	D.2.10 (D-59)
1	LL007036D	LL005012D	D.2.13 (D-77)
1	LL008015C	LL003010C	D.2.9 (D-54)
1	LL008015C	LL003010K	D.2.10 (D-59)
1	LL008015D	LL005012D	D.2.13 (D-77)
1	LL008026C	LL003010C	D.2.9 (D-54)
1	LL008026C	LL003010K	D.2.10 (D-59)
1	LL008026D	LL005012D	D.2.13 (D-77)
1	LL008037C	LL003010C	D.2.9 (D-54)
1	LL008037C	LL003010K	D.2.10 (D-59)
1	LL008037D	LL005012D	D.2.13 (D-77)
1	LL009016C	LL009016C	D.2.14 (D-81)
1	LL009016C	LL009016K	D.2.16 (D-93)
1	LL009016D	LL009016D	D.2.15 (D-90)
1	LL009027C	LL009016C	D.2.14 (D-81)
1	LL009027C	LL009016K	D.2.16 (D-93)
1	LL009027D	LL009016D	D.2.15 (D-90)
1	LL009038C	LL009016C	D.2.14 (D-81)
1	LL009038C	LL009016K	D.2.16 (D-93)
1	LL009038D	LL009016D	D.2.15 (D-91)
1	LL011010C	LL003010K	D.2.10 (D-58)
1	LL011010C	LL011010C	D.2.17 (D-98)
1	LL011010D	LL005012D	D.2.13 (D-78)
1	LL011010D	LL011010D	D.2.18 (D-108)
1	LL011021C	LL003010K	D.2.10 (D-58)
1	LL011021C	LL011010C	D.2.17 (D-98)
1	LL011021D	LL005012D	D.2.13 (D-78)
1	LL011021D	LL011010D	D.2.18 (D-108)
1	LL011032C	LL003010K	D.2.10 (D-58)
1	LL011032C	LL011010C	D.2.17 (D-98)
1	LL011032D	LL005012D	D.2.13 (D-78)
1	LL011032D	LL011010D	D.2.18 (D-108)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
1	SN001019C	SN001019C	D.2.39 (D-168)
1	SN001019D	LL003010K	D.2.10 (D-57)
1	SN001019D	LL011010C	D.2.17 (D-96)
1	SN001020C	SN001019C	D.2.39 (D-168)
1	SN001020D	LL003010K	D.2.10 (D-57)
1	SN001020D	LL011010C	D.2.17 (D-96)
1	SN001031C	SN001019C	D.2.39 (D-169)
1	SN001031D	LL003010K	D.2.10 (D-57)
1	SN001031D	LL011010C	D.2.17 (D-96)
1	SN001042F	LL003043F	D.2.11 (D-67)
1	SN001042F	LL003043K	D.2.12 (D-73)
1	SN001042G	SN001042G	D.2.40 (D-170)
1	SN002010C	SN001019C	D.2.39 (D-169)
1	SN002010D	LL003010K	D.2.10 (D-57)
1	SN002010D	LL011010C	D.2.17 (D-96)
1	SN002021C	SN001019C	D.2.39 (D-169)
1	SN002021D	LL003010K	D.2.10 (D-57)
1	SN002021D	LL011010C	D.2.17 (D-97)
1	SN002032C	SN001019C	D.2.39 (D-169)
1	SN002032D	LL003010K	D.2.10 (D-57)
1	SN002032D	LL011010C	D.2.17 (D-97)
1	SN003011C	SN001019C	D.2.39 (D-168)
1	SN003011D	LL003010K	D.2.10 (D-57)
1	SN003011D	LL011010C	D.2.17 (D-97)
1	SN003022C	SN001019C	D.2.39 (D-168)
1	SN003022D	LL003010K	D.2.10 (D-57)
1	SN003022D	LL011010C	D.2.17 (D-97)
1	SN003033C	SN001019C	D.2.39 (D-168)
1	SN003033D	LL003010K	D.2.10 (D-57)
1	SN003033D	LL011010C	D.2.17 (D-97)
1	SN004012C	LL009016D	D.2.15 (D-91)
1	SN004012D	LL013034K	D.2.26 (D-129)
1	SN004012D	LL028019C	D.2.33 (D-147)
1	SN004023C	LL009016D	D.2.15 (D-91)
1	SN004023D	LL013034K	D.2.26 (D-129)
1	SN004023D	LL028019C	D.2.33 (D-147)
1	SN004034C	LL009016D	D.2.15 (D-91)
1	SN004034D	LL013034K	D.2.26 (D-129)
1	SN004034D	LL028019C	D.2.33 (D-147)
2	LL012011C	LL001041F	D.2.5 (D-36)
2	LL012011C	LL001041K	D.2.8 (D-47)
2	LL012011D	LL012011D	D.2.19 (D-109)
2	LL012011D	LL012033C	D.2.21 (D-113)
2	LL012022B	LL003043F	D.2.11 (D-63)
2	LL012022B	LL003043K	D.2.12 (D-72)
2	LL012022C	LL012022C	D.2.20 (D-111)
2	LL012022C	LL012044D	D.2.22 (D-116)
2	LL012033B	LL003043F	D.2.11 (D-67)
2	LL012033B	LL003043K	D.2.12 (D-73)
2	LL012033C	LL012011D	D.2.19 (D-110)
2	LL012033C	LL012033C	D.2.21 (D-114)
2	LL012044C	LL003043F	D.2.11 (D-64)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
2	LL012044C	LL003043K	D.2.12 (D-73)
2	LL012044D	LL012022C	D.2.20 (D-111)
2	LL012044D	LL012044D	D.2.22 (D-115)
2	LL012055B	LL003043F	D.2.11 (D-68)
2	LL012055B	LL003043K	D.2.12 (D-74)
2	LL012055C	LL012022C	D.2.20 (D-112)
2	LL012055C	LL012055C	D.2.23 (D-117)
2	LL012066B	LL012066B	D.2.24 (D-121)
2	LL012066B	LL012066K	D.2.25 (D-125)
2	LL012066C	LL001041G	D.2.6 (D-41)
2	LL012066C	LL012055C	D.2.23 (D-118)
2	LL012077C	LL001041F	D.2.5 (D-36)
2	LL012077C	LL001041K	D.2.8 (D-47)
2	LL012077D	LL012011D	D.2.19 (D-109)
2	LL012077D	LL012033C	D.2.21 (D-113)
2	LL012088B	LL003043F	D.2.11 (D-62)
2	LL012088B	LL003043K	D.2.12 (D-72)
2	LL012088C	LL012022C	D.2.20 (D-112)
2	LL012088C	LL012055C	D.2.23 (D-117)
2	LL012099B	LL003043F	D.2.11 (D-64)
2	LL012099B	LL003043K	D.2.12 (D-73)
2	LL012099C	LL012011D	D.2.19 (D-110)
2	LL012099C	SN005013J	D.2.41 (D-173)
2	LL012135C	LL003043F	D.2.11 (D-64)
2	LL012135C	LL003043K	D.2.12 (D-73)
2	LL012135D	LL012011D	D.2.19 (D-110)
2	LL012135D	LL012044D	D.2.22 (D-115)
2	LL012146B	LL003043F	D.2.11 (D-68)
2	LL012146B	LL003043K	D.2.12 (D-74)
2	LL012146C	LL012022C	D.2.20 (D-112)
2	LL012146C	LL012055C	D.2.23 (D-117)
2	LL012157B	LL012066B	D.2.24 (D-121)
2	LL012157B	LL012066K	D.2.25 (D-125)
2	LL012157C	LL001041G	D.2.6 (D-41)
2	LL012157C	LL012055C	D.2.23 (D-118)
2	LL012168B	LL003043F	D.2.11 (D-64)
2	LL012168B	LL003043K	D.2.12 (D-73)
2	LL012168C	LL012022C	D.2.20 (D-111)
2	LL012168C	LL012044D	D.2.22 (D-115)
2	LL012179B	LL003043F	D.2.11 (D-68)
2	LL012179B	LL003043K	D.2.12 (D-74)
2	LL012179C	LL012022C	D.2.20 (D-112)
2	LL012179C	LL012055C	D.2.23 (D-117)
2	LL012180B	LL012066B	D.2.24 (D-121)
2	LL012180B	LL012066K	D.2.25 (D-126)
2	LL012180C	LL001041G	D.2.6 (D-42)
2	LL012180C	SN005013J	D.2.41 (D-173)
2	LL012191C	LL001041F	D.2.5 (D-37)
2	LL012191C	LL001041K	D.2.8 (D-47)
2	LL012191D	LL012011D	D.2.19 (D-109)
2	LL012191D	LL012033C	D.2.21 (D-113)
2	LL012204B	LL003043F	D.2.11 (D-62)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
2	LL012204B	LL003043K	D.2.12 (D-72)
2	LL012204C	LL012022C	D.2.20 (D-112)
2	LL012204C	LL012055C	D.2.23 (D-117)
2	LL012215B	LL003043F	D.2.11 (D-64)
2	LL012215B	LL003043K	D.2.12 (D-73)
2	LL012215C	LL012011D	D.2.19 (D-110)
2	LL012215C	LL012033C	D.2.21 (D-114)
2	LL012226C	LL001041F	D.2.5 (D-37)
2	LL012226C	LL001041K	D.2.8 (D-47)
2	LL012226D	LL012011D	D.2.19 (D-109)
2	LL012226D	LL012033C	D.2.21 (D-113)
2	LL012237B	LL003043F	D.2.11 (D-62)
2	LL012237B	LL003043K	D.2.12 (D-72)
2	LL012237C	LL012022C	D.2.20 (D-112)
2	LL012237C	LL012044D	D.2.22 (D-116)
2	LL012248B	LL003043F	D.2.11 (D-64)
2	LL012248B	LL003043K	D.2.12 (D-73)
2	LL012248C	LL012011D	D.2.19 (D-110)
2	LL012248C	LL012033C	D.2.21 (D-114)
2	LL012259C	LL001041F	D.2.5 (D-37)
2	LL012259C	LL001041K	D.2.8 (D-46)
2	LL012259D	LL012011D	D.2.19 (D-110)
2	LL012259D	LL012033C	D.2.21 (D-114)
2	LL012260B	LL003043F	D.2.11 (D-63)
2	LL012260B	LL003043K	D.2.12 (D-72)
2	LL012260C	LL012022C	D.2.20 (D-112)
2	LL012260C	LL012044D	D.2.22 (D-116)
2	LL012271B	LL003043F	D.2.11 (D-64)
2	LL012271B	LL003043K	D.2.12 (D-73)
2	LL012271C	LL012011D	D.2.19 (D-110)
2	LL012271C	LL012044D	D.2.22 (D-115)
2	LL012282C	LL003043F	D.2.11 (D-64)
2	LL012282C	LL003043K	D.2.12 (D-73)
2	LL012282D	LL012022C	D.2.20 (D-111)
2	LL012282D	LL012044D	D.2.22 (D-116)
2	LL012293B	LL003043F	D.2.11 (D-68)
2	LL012293B	LL003043K	D.2.12 (D-74)
2	LL012293C	LL001041G	D.2.6 (D-42)
2	LL012293C	LL012055C	D.2.23 (D-117)
2	LL012306B	LL012066B	D.2.24 (D-121)
2	LL012306B	LL012066K	D.2.25 (D-126)
2	LL012306C	LL001041G	D.2.6 (D-41)
2	LL012306C	LL012055C	D.2.23 (D-118)
2	LL012317C	LL003043F	D.2.11 (D-64)
2	LL012317C	LL003043K	D.2.12 (D-72)
2	LL012317D	LL012022C	D.2.20 (D-111)
2	LL012317D	LL012044D	D.2.22 (D-115)
2	LL012328B	LL003043F	D.2.11 (D-68)
2	LL012328B	LL003043K	D.2.12 (D-74)
2	LL012328C	LL012022C	D.2.20 (D-112)
2	LL012328C	LL012055C	D.2.23 (D-117)
2	LL012339B	LL012066B	D.2.24 (D-121)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
2	LL012339B	LL012066K	D.2.25 (D-125)
2	LL012339C	LL001041G	D.2.6 (D-42)
2	LL012339C	LL012055C	D.2.23 (D-118)
2	LL012679B	LL001041F	D.2.5 (D-37)
2	LL012679B	LL001041K	D.2.8 (D-46)
2	LL012679C	LL012011D	D.2.19 (D-109)
2	LL012679C	LL012033C	D.2.21 (D-113)
2	LL012680B	LL003043F	D.2.11 (D-64)
2	LL012680B	LL003043K	D.2.12 (D-72)
2	LL012680C	LL012011D	D.2.19 (D-110)
2	LL012680C	LL012044D	D.2.22 (D-115)
2	LL012691B	LL001041F	D.2.5 (D-37)
2	LL012691B	LL001041K	D.2.8 (D-47)
2	LL012691C	LL012011D	D.2.19 (D-109)
2	LL012691C	LL012033C	D.2.21 (D-113)
2	LL012704B	LL003043F	D.2.11 (D-63)
2	LL012704B	LL003043K	D.2.12 (D-72)
2	LL012704C	LL012022C	D.2.20 (D-111)
2	LL012704C	LL012044D	D.2.22 (D-116)
2	LL912021B	LL003043F	D.2.11 (D-63)
2	LL912021B	LL003043K	D.2.12 (D-73)
2	LL912021C	LL012011D	D.2.19 (D-110)
2	LL912021C	LL012044D	D.2.22 (D-115)
2	LL912032B	LL003043F	D.2.11 (D-68)
2	LL912032B	LL003043K	D.2.12 (D-74)
2	LL912032C	LL012022C	D.2.20 (D-112)
2	LL912032C	LL012055C	D.2.23 (D-117)
2	LL912043B	LL012066B	D.2.24 (D-121)
2	LL912043B	LL012066K	D.2.25 (D-126)
2	LL912043C	LL015014H	D.2.29 (D-138)
2	SN005013I	LL003043F	D.2.11 (D-67)
2	SN005013I	LL003043K	D.2.12 (D-73)
2	SN005013J	SN005013J	D.2.41 (D-172)
2	SN005013L	SN005013L	D.2.42 (D-174)
2	SN005024I	LL012066B	D.2.24 (D-120)
2	SN005024I	LL012066K	D.2.25 (D-125)
2	SN005024J	SN001042G	D.2.40 (D-170)
2	SN005024J	SN005013J	D.2.41 (D-172)
2	SN005024L	SN005013L	D.2.42 (D-174)
2	SN005035I	LL012066B	D.2.24 (D-120)
2	SN005035I	LL012066K	D.2.25 (D-125)
2	SN005035J	SN001042G	D.2.40 (D-171)
2	SN005035J	SN005013J	D.2.41 (D-172)
2	SN005035L	SN005013L	D.2.42 (D-174)
2	SN005057H	LL003043F	D.2.11 (D-69)
2	SN005057H	LL003043K	D.2.12 (D-74)
2	SN005057I	SN001042G	D.2.40 (D-171)
2	SN005057I	SN005013J	D.2.41 (D-172)
2	SN005057K	SN005013L	D.2.42 (D-174)
3	LL013012C	LL003010K	D.2.10 (D-58)
3	LL013012C	LL011010C	D.2.17 (D-98)
3	LL013023C	LL003010K	D.2.10 (D-58)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
3	LL013023C	LL011010C	D.2.17 (D-98)
3	LL013034C	LL011010C	D.2.17 (D-98)
3	LL013034C	LL013034K	D.2.26 (D-127)
3	SN006014I	LL003043F	D.2.11 (D-67)
3	SN006014I	LL003043K	D.2.12 (D-73)
3	SN006014J	SN001042G	D.2.40 (D-170)
3	SN006014J	SN005013J	D.2.41 (D-172)
3	SN006025I	LL003043F	D.2.11 (D-67)
3	SN006025I	LL003043K	D.2.12 (D-74)
3	SN006025J	SN001042G	D.2.40 (D-170)
3	SN006025J	SN005013J	D.2.41 (D-172)
3	SN006036I	LL003043F	D.2.11 (D-67)
3	SN006036I	LL003043K	D.2.12 (D-74)
3	SN006036J	SN001042G	D.2.40 (D-170)
3	SN006036J	SN005013J	D.2.41 (D-172)
3	SN006047D	SN001042G	D.2.40 (D-170)
3	SN006047H	LL003043F	D.2.11 (D-67)
3	SN006047H	LL003043K	D.2.12 (D-73)
3	SN006047I	SN005013J	D.2.41 (D-172)
4	LL014013E	LL015025E	D.2.30 (D-139)
4	LL014013F	LL001041F	D.2.5 (D-38)
4	LL014013F	LL001041K	D.2.8 (D-47)
4	LL014013G	LL014013G	D.2.27 (D-133)
4	LL014013G	LL015014H	D.2.29 (D-137)
4	LL015014E	LL015025E	D.2.30 (D-139)
4	LL015014G	LL001041F	D.2.5 (D-39)
4	LL015014G	LL001041K	D.2.8 (D-47)
4	LL015014G	LL015014G	D.2.28 (D-136)
4	LL015014H	LL014013G	D.2.27 (D-134)
4	LL015014H	LL015014H	D.2.29 (D-137)
4	LL015025E	LL015025E	D.2.30 (D-139)
4	LL015025G	LL001041F	D.2.5 (D-39)
4	LL015025G	LL001041K	D.2.8 (D-47)
4	LL015025G	LL015014G	D.2.28 (D-136)
4	LL015025H	LL012033C	D.2.21 (D-113)
4	LL016015F	LL012066B	D.2.24 (D-122)
4	LL016015F	LL012066K	D.2.25 (D-126)
4	LL016015F	LL016015F	D.2.31 (D-141)
4	LL016015G	LL014013G	D.2.27 (D-134)
4	LL016015G	LL015014H	D.2.29 (D-137)
4	LL017016F	LL012066B	D.2.24 (D-122)
4	LL017016F	LL012066K	D.2.25 (D-125)
4	LL017016F	LL016015F	D.2.31 (D-141)
4	LL017016G	LL014013G	D.2.27 (D-135)
4	LL017016G	LL015014H	D.2.29 (D-138)
4	LL018017F	LL012066B	D.2.24 (D-122)
4	LL018017F	LL012066K	D.2.25 (D-125)
4	LL018017F	LL016015F	D.2.31 (D-141)
4	LL018017G	LL014013G	D.2.27 (D-135)
4	LL018017G	LL015014H	D.2.29 (D-138)
4	LL019018F	LL012066B	D.2.24 (D-122)
4	LL019018F	LL012066K	D.2.25 (D-125)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
4	LL019018F	LL016015F	D.2.31 (D-141)
4	LL019018G	LL014013G	D.2.27 (D-135)
4	LL019018G	LL015014H	D.2.29 (D-138)
4	LL020011E	LL020011E	D.2.32 (D-143)
4	LL020011H	LL003043F	D.2.11 (D-67)
4	LL020011H	LL003043K	D.2.12 (D-74)
4	LL020011I	LL014013G	D.2.27 (D-134)
4	LL020011I	LL015014H	D.2.29 (D-137)
4	LL021012E	LL020011E	D.2.32 (D-142)
4	LL021012H	LL003043F	D.2.11 (D-67)
4	LL021012H	LL003043K	D.2.12 (D-73)
4	LL021012I	LL014013G	D.2.27 (D-134)
4	LL021012I	LL015014H	D.2.29 (D-137)
4	LL022013G	LL001041F	D.2.5 (D-38)
4	LL022013G	LL001041K	D.2.8 (D-47)
4	LL022013G	LL015014G	D.2.28 (D-136)
4	LL022013H	LL014013G	D.2.27 (D-133)
4	LL022013H	LL015014H	D.2.29 (D-137)
4	LL022024F	LL001041F	D.2.5 (D-38)
4	LL022024F	LL001041K	D.2.8 (D-46)
4	LL022024F	LL015014G	D.2.28 (D-136)
4	LL022024G	LL001041G	D.2.6 (D-42)
4	LL022024G	LL012033C	D.2.21 (D-113)
4	LL024015E	LL020011E	D.2.32 (D-143)
4	LL024015H	LL003043F	D.2.11 (D-67)
4	LL024015H	LL003043K	D.2.12 (D-74)
4	LL024015I	LL014013G	D.2.27 (D-135)
4	LL024015I	LL015014H	D.2.29 (D-137)
4	LL025016E	LL020011E	D.2.32 (D-142)
4	LL025016K	LL012055C	D.2.23 (D-118)
4	LL025016L	LL003043F	D.2.11 (D-68)
4	LL025016L	LL003043K	D.2.12 (D-74)
4	LL025027E	LL020011E	D.2.31 (D-141)
4	LL026017E	LL020011E	D.2.32 (D-142)
4	LL026017H	LL003043F	D.2.11 (D-69)
4	LL026017H	LL003043K	D.2.12 (D-75)
4	LL026017H	LL016015F	D.2.31 (D-141)
4	LL026017I	LL001041G	D.2.6 (D-43)
4	LL026017I	LL012055C	D.2.23 (D-118)
4	SN007015C	LL013034K	D.2.26 (D-130)
4	SN007015C	LL028019C	D.2.33 (D-150)
4	SN007026C	LL013034K	D.2.26 (D-130)
4	SN007026C	LL028019C	D.2.33 (D-150)
4	SN007037C	LL013034K	D.2.26 (D-130)
4	SN007037C	LL028019C	D.2.33 (D-150)
4	SN007048C	LL013034K	D.2.26 (D-130)
4	SN007048C	LL028019C	D.2.33 (D-150)
4	SN007059C	LL013034K	D.2.26 (D-130)
4	SN007059C	LL028019C	D.2.33 (D-150)
4	SN007060C	LL013034K	D.2.26 (D-130)
4	SN007060C	LL028019C	D.2.33 (D-150)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
4	SN008016C	LL013034K	D.2.26 (D-131)
4	SN008016C	LL028019C	D.2.33 (D-151)
4	SN008027C	LL013034K	D.2.26 (D-131)
4	SN008027C	LL028019C	D.2.33 (D-151)
4	SN008038C	LL013034K	D.2.26 (D-131)
4	SN008038C	LL028019C	D.2.33 (D-151)
4	SN008049F	LL012066B	D.2.24 (D-123)
4	SN008049F	LL012066K	D.2.25 (D-125)
4	SN009017C	LL013034K	D.2.26 (D-130)
4	SN009017C	LL028019C	D.2.33 (D-148)
4	SN009028C	LL013034K	D.2.26 (D-130)
4	SN009028C	LL028019C	D.2.33 (D-150)
4	SN009039C	LL013034K	D.2.26 (D-130)
4	SN009039C	LL028019C	D.2.33 (D-150)
4	SN009040C	LL013034K	D.2.26 (D-130)
4	SN009040C	LL028019C	D.2.33 (D-150)
4	SN010010C	LL011010C	D.2.17 (D-102)
4	SN010010C	LL013034K	D.2.26 (D-128)
4	SN010010D	SN010010D	D.2.43 (D-175)
4	SN010021C	LL011010C	D.2.17 (D-102)
4	SN010021C	LL013034K	D.2.26 (D-128)
4	SN010021D	SN010010D	D.2.43 (D-175)
4	SN010032C	LL011010C	D.2.17 (D-102)
4	SN010032C	LL013034K	D.2.26 (D-128)
4	SN010032D	SN010010D	D.2.43 (D-175)
4	SN010043C	LL011010C	D.2.17 (D-102)
4	SN010043C	LL013034K	D.2.26 (D-128)
4	SN010043D	SN010010D	D.2.43 (D-176)
4	SN010054C	LL011010C	D.2.17 (D-102)
4	SN010054C	LL013034K	D.2.26 (D-128)
4	SN010054D	SN010010D	D.2.43 (D-176)
4	SN011011C	LL013034K	D.2.26 (D-130)
4	SN011011C	LL028019C	D.2.33 (D-150)
4	SN011022C	LL013034K	D.2.26 (D-130)
4	SN011022C	LL028019C	D.2.33 (D-151)
4	SN011033C	LL013034K	D.2.26 (D-131)
4	SN011033C	LL028019C	D.2.33 (D-151)
5	LL027109B	LL012066B	D.2.24 (D-120)
5	LL027109B	LL012066K	D.2.25 (D-125)
6	LL028019C	LL013034K	D.2.26 (D-128)
6	LL028019C	LL028019C	D.2.33 (D-145)
6	LL028020C	LL013034K	D.2.26 (D-128)
6	LL028020C	LL028019C	D.2.33 (D-145)
6	LL028031C	LL013034K	D.2.26 (D-128)
6	LL028031C	LL028019C	D.2.33 (D-145)
6	LL028042C	LL013034K	D.2.26 (D-128)
6	LL028042C	LL028019C	D.2.33 (D-146)
6	LL029010C	LL009016C	D.2.14 (D-84)
6	LL029010C	LL009016K	D.2.16 (D-94)
6	LL029021C	LL009016C	D.2.14 (D-84)
6	LL029021C	LL009016K	D.2.16 (D-94)
6	LL029032C	LL009016C	D.2.14 (D-84)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
6	LL029032C	LL009016K	D.2.16 (D-94)
6	LL030013C	LL009016C	D.2.14 (D-82)
6	LL030013C	LL009016K	D.2.16 (D-93)
6	LL030013D	LL009016D	D.2.15 (D-89)
6	LL030024C	LL009016C	D.2.14 (D-82)
6	LL030024C	LL009016K	D.2.16 (D-93)
6	LL030024D	LL009016D	D.2.15 (D-91)
6	LL030035C	LL009016C	D.2.14 (D-82)
6	LL030035C	LL009016K	D.2.16 (D-93)
6	LL030035D	LL009016D	D.2.15 (D-89)
6	LL030046C	LL009016C	D.2.14 (D-82)
6	LL030046C	LL009016K	D.2.16 (D-93)
6	LL030046D	LL009016D	D.2.15 (D-90)
6	LL031014C	LL011010C	D.2.17 (D-101)
6	LL031014C	LL013034K	D.2.26 (D-127)
6	LL031014D	LL031014D	D.2.34 (D-155)
6	LL031025C	LL011010C	D.2.17 (D-101)
6	LL031025C	LL013034K	D.2.26 (D-127)
6	LL031025D	LL031014D	D.2.34 (D-154)
6	LL031036C	LL011010C	D.2.17 (D-101)
6	LL031036C	LL013034K	D.2.26 (D-127)
6	LL031036D	LL031014D	D.2.34 (D-154)
6	LL031047C	LL011010C	D.2.17 (D-101)
6	LL031047C	LL013034K	D.2.26 (D-127)
6	LL031047D	LL031047D	D.2.35 (D-158)
6	LL031058C	LL011010C	D.2.17 (D-102)
6	LL031058C	LL013034K	D.2.26 (D-127)
6	LL031058D	LL031047D	D.2.35 (D-158)
6	LL031069C	LL011010C	D.2.17 (D-102)
6	LL031069C	LL013034K	D.2.26 (D-128)
6	LL031069D	LL031047D	D.2.35 (D-158)
6	LL031070C	LL011010C	D.2.17 (D-101)
6	LL031070C	LL013034K	D.2.26 (D-127)
6	LL031070D	LL031014D	D.2.34 (D-154)
6	LL031081C	LL011010C	D.2.17 (D-101)
6	LL031081C	LL013034K	D.2.26 (D-127)
6	LL031081D	LL031014D	D.2.34 (D-154)
6	LL031092C	LL011010C	D.2.17 (D-101)
6	LL031092C	LL013034K	D.2.26 (D-127)
6	LL031092D	LL031014D	D.2.34 (D-154)
6	LL031105C	LL011010C	D.2.17 (D-101)
6	LL031105C	LL013034K	D.2.26 (D-127)
6	LL031105D	LL031014D	D.2.34 (D-154)
6	LL031116C	LL011010C	D.2.17 (D-101)
6	LL031116C	LL013034K	D.2.26 (D-127)
6	LL031116D	LL031014D	D.2.34 (D-155)
6	LL031127C	LL011010C	D.2.17 (D-101)
6	LL031127C	LL013034K	D.2.26 (D-127)
6	LL031127D	LL031014D	D.2.34 (D-155)
6	LL031149C	LL013034K	D.2.26 (D-127)
6	LL031149C	LL028019C	D.2.33 (D-145)
6	LL031149D	LL031014D	D.2.34 (D-155)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
6	LL031150C	LL011010C	D.2.17 (D-99)
6	LL031150C	LL013034K	D.2.26 (D-127)
6	LL031150D	LL031014D	D.2.34 (D-155)
6	LL031161C	LL011010C	D.2.17 (D-100)
6	LL031161C	LL013034K	D.2.26 (D-127)
6	LL031161D	LL031014D	D.2.34 (D-156)
6	LL033016C	LL003010C	D.2.9 (D-49)
6	LL033016C	LL033016K	D.2.36 (D-159)
6	LL033027C	LL003010C	D.2.9 (D-49)
6	LL033027C	LL033016K	D.2.36 (D-159)
6	LL033038C	LL003010C	D.2.9 (D-49)
6	LL033038C	LL033016K	D.2.36 (D-159)
7	LL034017D	LL013034K	D.2.26 (D-128)
7	LL034017D	LL028019C	D.2.33 (D-146)
7	LL034017E	LL031014D	D.2.34 (D-155)
7	LL034028D	LL013034K	D.2.26 (D-128)
7	LL034028D	LL028019C	D.2.33 (D-146)
7	LL034028E	LL031014D	D.2.34 (D-155)
7	LL034039D	LL013034K	D.2.26 (D-129)
7	LL034039D	LL028019C	D.2.33 (D-146)
7	LL034039E	LL031014D	D.2.34 (D-155)
7	LL034040D	LL013034K	D.2.26 (D-129)
7	LL034040D	LL028019C	D.2.33 (D-146)
7	LL034040E	LL031014D	D.2.34 (D-155)
7	LL034051D	LL013034K	D.2.26 (D-129)
7	LL034051D	LL028019C	D.2.33 (D-146)
7	LL034051E	LL031014D	D.2.34 (D-155)
7	LL034062D	LL013034K	D.2.26 (D-129)
7	LL034062D	LL028019C	D.2.33 (D-147)
7	LL034062E	LL031014D	D.2.34 (D-156)
7	LL034073D	LL013034K	D.2.26 (D-129)
7	LL034073D	LL028019C	D.2.33 (D-147)
7	LL034073E	SN010010D	D.2.43 (D-176)
7	LL034084D	LL013034K	D.2.26 (D-129)
7	LL034084D	LL028019C	D.2.33 (D-147)
7	LL034084E	SN010010D	D.2.43 (D-176)
7	LL034095D	LL013034K	D.2.26 (D-129)
7	LL034095D	LL028019C	D.2.33 (D-147)
7	LL034095E	SN010010D	D.2.43 (D-176)
7	LL034108D	LL013034K	D.2.26 (D-129)
7	LL034108D	LL028019C	D.2.33 (D-147)
7	LL034108E	SN010010D	D.2.43 (D-176)
7	LL034119D	LL013034K	D.2.26 (D-129)
7	LL034119D	LL028019C	D.2.33 (D-147)
7	LL034119E	SN010010D	D.2.43 (D-176)
7	LL034120D	LL013034K	D.2.26 (D-129)
7	LL034120D	LL028019C	D.2.33 (D-147)
7	LL034120E	SN010010D	D.2.43 (D-176)
7	LL034131G	LL012066B	D.2.24 (D-120)
7	LL034131G	LL012066K	D.2.25 (D-125)
7	LL034131H	LL001041G	D.2.6 (D-43)
8	LL035018B	LL011010C	D.2.17 (D-104)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
8	LL035018B	LL013034K	D.2.26 (D-131)
8	LL035029B	LL011010C	D.2.17 (D-104)
8	LL035029B	LL013034K	D.2.26 (D-131)
8	LL035030B	LL011010C	D.2.17 (D-104)
8	LL035030B	LL013034K	D.2.26 (D-131)
8	LL035041B	LL011010C	D.2.17 (D-104)
8	LL035041B	LL013034K	D.2.26 (D-131)
8	LL035052B	LL011010C	D.2.17 (D-104)
8	LL035052B	LL013034K	D.2.26 (D-131)
8	LL035063B	LL011010C	D.2.17 (D-104)
8	LL035063B	LL013034K	D.2.26 (D-131)
9	LL036019C	LL003010K	D.2.10 (D-57)
9	LL036019C	LL011010C	D.2.17 (D-98)
9	LL036019D	LL031047D	D.2.35 (D-158)
9	LL036019D	SN010010D	D.2.43 (D-175)
9	LL036020C	LL003010K	D.2.10 (D-58)
9	LL036020C	LL011010C	D.2.17 (D-98)
9	LL036020D	LL031047D	D.2.35 (D-158)
9	LL036020D	SN010010D	D.2.43 (D-175)
9	LL036031C	LL003010K	D.2.10 (D-58)
9	LL036031C	LL011010C	D.2.17 (D-98)
9	LL036031D	LL031047D	D.2.35 (D-158)
9	LL036031D	SN010010D	D.2.43 (D-175)
9	LL036042C	LL009016C	D.2.14 (D-80)
9	LL036042C	LL009016K	D.2.16 (D-92)
9	LL036042D	LL031047D	D.2.35 (D-157)
9	LL036053C	LL009016C	D.2.14 (D-80)
9	LL036053C	LL009016K	D.2.16 (D-92)
9	LL036053D	LL031047D	D.2.35 (D-157)
9	LL036064C	LL009016C	D.2.14 (D-80)
9	LL036064C	LL009016K	D.2.16 (D-92)
9	LL036064D	LL031047D	D.2.35 (D-157)
9	LL036075C	LL009016C	D.2.14 (D-85)
9	LL036075C	LL009016K	D.2.16 (D-94)
9	LL036075D	LL031047D	D.2.35 (D-157)
9	LL036086C	LL009016C	D.2.14 (D-85)
9	LL036086C	LL009016K	D.2.16 (D-94)
9	LL036086D	LL031047D	D.2.35 (D-157)
9	LL036097C	LL009016C	D.2.14 (D-85)
9	LL036097C	LL009016K	D.2.16 (D-94)
9	LL036097D	LL031047D	D.2.35 (D-157)
9	LL036133C	LL009016C	D.2.14 (D-82)
9	LL036133C	LL009016K	D.2.16 (D-93)
9	LL036133D	LL031047D	D.2.35 (D-157)
9	LL036144C	LL009016C	D.2.14 (D-82)
9	LL036144C	LL009016K	D.2.16 (D-93)
9	LL036144D	LL031047D	D.2.35 (D-157)
9	LL036155C	LL009016C	D.2.14 (D-82)
9	LL036155C	LL009016K	D.2.16 (D-93)
9	LL036155D	LL031047D	D.2.35 (D-158)
9	LL036224F	LL003043F	D.2.11 (D-66)
9	LL036224F	LL003043K	D.2.12 (D-72)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
9	LL036224G	LL001041G	D.2.6 (D-41)
9	LL036224G	LL012044D	D.2.22 (D-116)
9	LL036235C	LL009016C	D.2.14 (D-81)
9	LL036235C	LL009016K	D.2.16 (D-93)
9	LL036235D	LL031047D	D.2.35 (D-157)
10	LL037010C	LL009016C	D.2.14 (D-81)
10	LL037010C	LL009016K	D.2.16 (D-93)
10	LL037010D	LL005012D	D.2.13 (D-78)
10	LL037010D	LL011010D	D.2.18 (D-108)
10	LL037021C	LL009016C	D.2.14 (D-81)
10	LL037021C	LL009016K	D.2.16 (D-93)
10	LL037021D	LL005012D	D.2.13 (D-77)
10	LL037021D	LL011010D	D.2.18 (D-108)
10	LL037032C	LL009016C	D.2.14 (D-81)
10	LL037032C	LL009016K	D.2.16 (D-93)
10	LL037032D	LL005012D	D.2.13 (D-77)
10	LL037032D	LL011010D	D.2.18 (D-108)
10	LL038011C	LL009016C	D.2.14 (D-84)
10	LL038011C	LL009016K	D.2.16 (D-94)
10	LL038011D	LL009016D	D.2.15 (D-89)
10	LL038011D	LL011010D	D.2.18 (D-108)
10	LL038022C	LL009016C	D.2.14 (D-85)
10	LL038022C	LL009016K	D.2.16 (D-94)
10	LL038022D	LL009016D	D.2.15 (D-89)
10	LL038022D	LL011010D	D.2.18 (D-108)
10	LL038033C	LL009016C	D.2.14 (D-85)
10	LL038033C	LL009016K	D.2.16 (D-94)
10	LL038033D	LL009016D	D.2.15 (D-89)
10	LL038033D	LL011010D	D.2.18 (D-108)
10	LL038055C	LL009016C	D.2.14 (D-85)
10	LL038055C	LL009016K	D.2.16 (D-94)
10	LL038055D	LL009016D	D.2.15 (D-89)
10	LL038055D	LL011010D	D.2.18 (D-108)
11	LL039012C	LL003010C	D.2.9 (D-50)
11	LL039012C	LL033016K	D.2.36 (D-159)
11	LL039012D	LL039012D	D.2.37 (D-163)
11	LL039012D	LL042017B	D.2.38 (D-167)
11	LL039023C	LL003010C	D.2.9 (D-51)
11	LL039023C	LL033016K	D.2.36 (D-159)
11	LL039023D	LL039012D	D.2.37 (D-164)
11	LL039023D	LL042017B	D.2.38 (D-167)
11	LL039034C	LL003010C	D.2.9 (D-50)
11	LL039034C	LL033016K	D.2.36 (D-159)
11	LL039034D	LL039012D	D.2.37 (D-164)
11	LL039034D	LL042017B	D.2.38 (D-167)
11	LL039045C	LL003010C	D.2.9 (D-51)
11	LL039045C	LL033016K	D.2.36 (D-159)
11	LL039045D	LL039012D	D.2.37 (D-164)
11	LL039045D	LL042017B	D.2.38 (D-167)
12	LL040015A	LL009016C	D.2.14 (D-85)
12	LL040015A	LL009016K	D.2.16 (D-94)
12	LL040015B	LL001018D	D.2.3 (D-31)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
12	LL040015B	LL011010D	D.2.18 (D-107)
12	LL040026A	LL009016C	D.2.14 (D-85)
12	LL040026A	LL009016K	D.2.16 (D-94)
12	LL040026B	LL001018D	D.2.3 (D-31)
12	LL040026B	LL011010D	D.2.18 (D-107)
12	LL040037A	LL009016C	D.2.14 (D-85)
12	LL040037A	LL009016K	D.2.16 (D-94)
12	LL040037B	LL001018D	D.2.3 (D-31)
12	LL040037B	LL011010D	D.2.18 (D-107)
12	LL041016A	LL009016C	D.2.14 (D-85)
12	LL041016A	LL009016K	D.2.16 (D-92)
12	LL041016B	LL011010D	D.2.18 (D-107)
12	LL041027A	LL009016C	D.2.14 (D-86)
12	LL041027A	LL009016K	D.2.16 (D-92)
12	LL041027B	LL011010D	D.2.18 (D-107)
12	LL041038A	LL009016C	D.2.14 (D-86)
12	LL041038A	LL009016K	D.2.16 (D-92)
12	LL041038B	LL011010D	D.2.18 (D-107)
12	LL042017A	LL009016C	D.2.14 (D-86)
12	LL042017A	LL009016K	D.2.16 (D-94)
12	LL042017B	LL039012D	D.2.37 (D-164)
12	LL042017B	LL042017B	D.2.38 (D-167)
12	LL042028A	LL009016C	D.2.14 (D-86)
12	LL042028A	LL009016K	D.2.16 (D-94)
12	LL042028B	LL039012D	D.2.37 (D-164)
12	LL042028B	LL042017B	D.2.38 (D-167)
12	LL042039A	LL009016C	D.2.14 (D-86)
12	LL042039A	LL009016K	D.2.16 (D-94)
12	LL042039B	LL039012D	D.2.37 (D-164)
12	LL042039B	LL042017B	D.2.38 (D-167)
13	LL044019A	LL003010C	D.2.9 (D-50)
13	LL044019A	LL016015F	D.2.31 (D-140)
13	LL044019A	LL033016K	D.2.36 (D-160)
13	LL044019B	LL039012D	D.2.37 (D-162)
13	LL044019B	LL042017B	D.2.38 (D-166)
13	LL044020A	LL003010C	D.2.9 (D-50)
13	LL044020A	LL016015F	D.2.31 (D-140)
13	LL044020A	LL033016K	D.2.36 (D-160)
13	LL044020B	LL039012D	D.2.37 (D-162)
13	LL044020B	LL042017B	D.2.38 (D-166)
13	LL044031A	LL003010C	D.2.9 (D-51)
13	LL044031A	LL016015F	D.2.31 (D-140)
13	LL044031A	LL033016K	D.2.36 (D-160)
13	LL044031B	LL039012D	D.2.37 (D-162)
13	LL044031B	LL042017B	D.2.38 (D-166)
13	LL044042A	LL003010C	D.2.9 (D-51)
13	LL044042A	LL016015F	D.2.31 (D-140)
13	LL044042A	LL033016K	D.2.36 (D-160)
13	LL044042B	LL039012D	D.2.37 (D-163)
13	LL044042B	LL042017B	D.2.38 (D-167)
13	LL044053A	LL003010C	D.2.9 (D-53)
13	LL044053A	LL016015F	D.2.31 (D-140)

TABLE D.2.1 DIRECTORY FOR METALS, INCLUDING CR+6 QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
13	LL044053A	LL033016K	D.2.36 (D-160)
13	LL044053B	LL039012D	D.2.37 (D-163)
13	LL044053B	LL042017B	D.2.38 (D-167)
13	LL044064A	LL003010C	D.2.9 (D-53)
13	LL044064A	LL016015F	D.2.31 (D-140)
13	LL044064A	LL033016K	D.2.36 (D-160)
13	LL044064B	LL039012D	D.2.37 (D-163)
13	LL044064B	LL042017B	D.2.38 (D-167)
13	LL044075A	LL003010C	D.2.9 (D-50)
13	LL044075A	LL016015F	D.2.31 (D-140)
13	LL044075A	LL033016K	D.2.36 (D-159)
13	LL044075B	LL039012D	D.2.37 (D-163)
13	LL044075B	LL042017B	D.2.38 (D-166)
13	LL044086A	LL003010C	D.2.9 (D-50)
13	LL044086A	LL016015F	D.2.31 (D-140)
13	LL044086A	LL033016K	D.2.36 (D-159)
13	LL044086B	LL039012D	D.2.37 (D-163)
13	LL044086B	LL042017B	D.2.38 (D-166)
13	LL044097A	LL003010C	D.2.9 (D-50)
13	LL044097A	LL016015F	D.2.31 (D-140)
13	LL044097A	LL033016K	D.2.36 (D-160)
13	LL044097B	LL039012D	D.2.37 (D-163)
13	LL044097B	LL042017B	D.2.38 (D-166)
13	LL044100A	LL001041F	D.2.5 (D-36)
13	LL044100A	LL001041K	D.2.8 (D-47)
13	LL044100B	LL016015F	D.2.31 (D-141)
13	LL044100B	LL001041G	D.2.6 (D-43)
	LL044100B	LL012033C	D.2.21 (D-114)

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TABLE D.2.2 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001018C

AREA	M	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LINEAR RANGE ANALYSIS	INTER CHK SOL. A TRUE	INITIAL CAL TRUE A	INITIAL CAL TRUE B	INITIAL CAL TRUE C	LAB CONTROL SAMPLE TRUE	INITIAL CAL FOUND A	
TYPE OF LOCATION	T	LLLRA1520	LLICSI354	LLICV1381	LLICV1407	LLICV1423	LLCS1500	LLICV1362	
SAMPLE NUMBER	H								
MATRIX	O								
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	SOIL MG/KG	WATER UG/L	
ENV PROBLEM NO									
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ALUMINUM	P	150000	508000	100000	990		15200	99000	
ANTIMONY	P	10000			1000		20	U	
ARSENIC	P	20000			1000		680		
BARIUM	P	5000	483		990		430		
BERYLLIUM	P	2800	474		240		1	U	
CADMIUM	P	5000	909		244		1	U	
CALCIUM	P	10000	516000	5000	24900		10500	4530	B
CHROMIUM	P	10000	513		253		17		
COBALT	P	10000	478		237		6.9		
COPPER	P	10000	534		277		265		
IRON	P	20000	203000	100000	995		11200	101000	
LEAD	P	50000	4850		2250		5830		
MAGNESIUM	P	10000	509000	50000	12500		14700	48500	
MANGANESE	P	4000	531	50000	256		91700	48300	
NICKEL	P	25000	916		248		22		
SELENIUM	P	10000			1000		1	U	
SILVER	P	10000	993		254		2	U	
SODIUM	P	10000		100000		500 B	3720	114000	
VANADIUM	P	10000	475		255		18		
ZINC	P	10000	973		1550		425		
X SOLIDS									
AREA	M	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	INITIAL CAL FOUND B	INITIAL CAL FOUND C	INTER CHK SOL. A INIT	INITIAL CAL BLANK	PREP BLANK	PREP BLANK	LAB CONTROL SAMPLE	
TYPE OF LOCATION	T	LLICV1399	LLICV1415	LLICSI346	LLICB1315	LLPB01538	LLPB01539	LLCS1473	SOIL MG/KG
SAMPLE NUMBER	H								
MATRIX	O								
UNITS	D	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	
ENV PROBLEM NO									
Draft - Do Not Cite									
ALUMINUM	P	1060		475000	60 U	60 U	60 U	17100	
ANTIMONY	P	1010			30 U	30 U	30 U	20	U
ARSENIC	P	1010			20 U	20 U	20 U	648	
BARIUM	P	990			2	2	2	421	
BERYLLIUM	P	256		445	0.3 U	0.3 U	0.3 U	1	
CADMIUM	P	247		442	3 U	3 U	3 U	2	U
CALCIUM	P	24800		800	50 U	100 U	100 U	10100	
				450000					

TABLE D.2.2 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001018C

AREA	M	QA	QA	QA	QA	QA	QA	QA	QA					
LOCATION	H	INITIAL CAL FOUND B LLICV1399	O	INITIAL CAL FOUND C LLICV1415	D	INTER CHK SOL. A INIT LLICS1346		INITIAL CAL BLANK LLICB1315	P	PREP BLANK LLPB01538		PREP BLANK LLPB01539		LAB CONTROL SAMPLE LLLCS1473
TYPE OF LOCATION	T			WATER UG/L		WATER UG/L		WATER UG/L		WATER UG/L		WATER UG/L		SOIL MG/KG
SAMPLE NUMBER														
MATRIX														
UNITS														
ENV PROBLEM NO														
CHROMIUM	P	260				484		7 U		7 U		7 U		15
COBALT	P	255				446		7 U		7 U		7 U		7.2
COPPER	P	270				484		4 U		4 U		4 U		255
IRON	P	989				167000		7 U		7 U		7 U		12100
LEAD	P	2160				4000		30 U		30 U		30 U		5270
MAGNESIUM	P	12600				449000		8 U		8.4 B		9.8 B		15100
MANGANESE	P	258				482		2 U		14 B		2.2 B		84000
NICKEL	P	242				790		8 U		8 U		8 U		20
SELENIUM	P	1020				40		6 U		40		40		9
SILVER	P	252				864		310 U		310 U		310 U		30 U
SODIUM	P	276				450		3 U		3 U		3 U		4050
VANADIUM	P	1520				877		2 U		14 B		7.1 B		423
ZINC														
% SOLIDS														

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AREA	M	QA	QA	QA	QA	QA	QA	QA	QA					
LOCATION	H	ARROYO SECO ARROYO LL001018C	O	ARROYO SECO ARROYO LL001029C	D	ARROYO SECO ARROYO LL001030C		ARROYO SECO ARROYO LL002019C	P	ARROYO SECO ARROYO LL002020C		CONTINUING CAL FOUND LLCCV1080		CONTINUING CAL FOUND LLCCV1158
TYPE OF LOCATION	T			SOIL MG/KG		SOIL MG/KG		SOIL MG/KG		SOIL MG/KG		WATER UG/L		WATER UG/L
SAMPLE NUMBER				1		1		1		1				
MATRIX														
UNITS														
ENV PROBLEM NO														
ALUMINUM	P	7780		11700		7810		9400		8030		99500		1070
ANTIMONY	P	4.5 UN		4.5 UN		4.3 UN		4.4 UN		4.2 UN				1010
ARSENIC	P	3 UN		3 UN		2.8 UN		2.9 UN		2.8 UN				1000
BARIUM	P	92		156		141		209		88				989
BERYLLIUM	P	0.24 B		0.4 B		0.29 B		0.33 B		0.25 B				256
CADMIUM	P	0.59 B		0.71 B		0.68 B		0.44 U		0.42 U				248
CALCIUM	P	2510 E		5030 E		11600 E		9290 E		2110 E		4470 B		24900
CHROMIUM	P	33		47		26		33		26				258
COBALT	P	6.4 B		11		8.6		9		6.2 B				253
COPPER	P	14		24		15		19		17				270
IRON	P	14600		20600		13600		18100		16200		99800		989
LEAD	P	8.3 B		22 B		12 B		8.9 B		9.8 B		48500		2160
MAGNESIUM	P	4470		6790		4010		4700		4540		49200		12500
MANGANESE	P	301		1250		650		633		346				258

TABLE D.2.2 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001018C

AREA	METHOD	ARROYO SECO	ARROYO SECO	ARROYO SECO	ARROYO SECO	ARROYO SECO	CONTINUING CAL FOUND	CONTINUING CAL FOUND
LOCATION		ARROYO	ARROYO	ARROYO	ARROYO	ARROYO	LLCCV1080	LLCCV1158
TYPE OF LOCATION		LL001018C	LL001029C	LL001030C	LL002019C	LL002020C	WATER	WATER
SAMPLE NUMBER		SOIL	SOIL	SOIL	SOIL	SOIL	UG/L	UG/L
MATRIX		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG		
UNITS								
ENV PROBLEM NO								
NICKEL	P	41	63	36	36	35		244
SELENIUM		6 UN	6 UN	5.7 UN	5.8 UN	5.6 UN		1010
SILVER	PP	0.9 U	0.91 B	0.85 U	0.87 U	0.84 U		249
SODIUM	PP	126 B	209 B	151 B	320 B	129 B	112000	
VANADIUM	PP	21	32	26	29	23		273
ZINC	P	51	101	60	64	54		1510
% SOLIDS	I	95.1	94.6	97.1	94.8	94		
AREA	METHOD	QA	QA				QA	QA
LOCATION		CONTINUING CAL FOUND	CONTINUING CAL BLANK	ARROYO SECO	RET. BASIN ARROYO	RET. BASIN ARROYO	SERIAL DILUTION	SD % DIFFERENCE
TYPE OF LOCATION		LLCCV1193	LLCCB1001	ARROYO	LL002031C	LL004011C	LL004022C	LL004033C
SAMPLE NUMBER		WATER	WATER	SOIL	SOIL	SOIL	SOIL	
MATRIX		UG/L	UG/L	MG/KG	1	1	1	1
UNITS								
ENV PROBLEM NO								
ALUMINUM	P		60 U	10600	13800	17400	14800	0
ANTIMONY	PP		30 U	4.4 UN	5.1 BN	5.9 BN	23 U	
ARSENIC	PP		20 U	2.9 UN	3.3 UN	3.2 UN	15 U	
BARIUM	PP		2 U	126	230	262	232	0.43
BERYLLIUM	PP		0.3 U	0.4 B	0.5 B	0.63 B	0.5 B	
CADMUM	PP		3 U	0.99	0.5 U	0.48 U	2.3 U	
CALCIUM	PP		100 U	2780 E	4290 E	10700 E	2680	20
CHROMIUM	PP		7 U	63	36	41	38	
COBALT	PP		7 U	11	11	13	11	
COPPER	PP		4 U	74	22	27	24	
IRON	PP		7 U	17200	21300	24800	23600	0.43
LEAD	PP		30 U	53	5 U	8.9 B	23 U	
MAGNESIUM	PP		8 U	5100	5860	7110	6200	2
MANGANESE	PP		2 U	370	494	556	565	1.1
NICKEL	PP		8 U	46	46	50	52	
SELENIUM	PP		40 U	5.9 UN	6.7 UN	6.4 UN	30 U	
SILVER	PP		6 U	2.5	1 U	0.96 U	4.6 U	
SODIUM	PP	513 B	310 U	225 B	364 B	398 B	236 U	
VANADIUM	PP		3 U	29	41	46	41	2.4
ZINC	PP		2 U	135	48	58	53	3.9
% SOLIDS	I			89.4	85.5	84.5	86.1	

TABLE D.2.2 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001018C

AREA	METHOD	RET. BASIN ARROYO LL004033C	QA DUPLICATE SOIL MG/KG	QA DUPLICATE RFD SOIL MG/KG	QA MATRIX SPIKE SOIL MG/KG	QA MS X RECOVERY LL004033C	QA CONTINUING CAL FOUND LLCCV1081 WATER UG/L	QA CONTINUING CAL FOUND LLCCV1159 WATER UG/L
ENV PROBLEM NO		1	1	1	1	1		
ALUMINUM	P	14800	15400	4	16700	21	96900	1020
ANTIMONY	PP	4.6 UN	4.4 U		16	977		
ARSENIC	PP	3 UN	3 U		6.9 B	46		
BARIUM	PP	233	211	9.9	529	97		
BERYLLIUM	PP	0.54 B	0.54 B		8	98		
CADMUM	PP	0.46 U	0.44 U		7.2	95	4350 B	23900
CALCIUM	PP	3330 E	3360	30	3650			245
CHROMIUM	PP	38	37	2.7	66	93		238
COBALT	PP	12	11	1	76	84		255
COPPER	PP	25	22	13	56	82		
IRON	PP	23500	23100	1.7	23900		97200	952
LEAD	PP	8 B	7.1 B		77	91		2060
MAGNESIUM	PP	6080	6120	0.66	6250		47200	12000
MANGANESE	PP	571	495	14	637	87	48100	249
NICKEL	PP	51	47	8.2	115	84		236
SELENIUM	PP	6.1 UN	5.9 U		6.1 U			974
SILVER	PP	0.91 U	0.89 U		6.9	91		233
SODIUM	PP	436 B	383 B		515 B		107000	263
VANADIUM	PP	42	41	2.4	109	88		
ZINC	P	51	54	5.7	123	95		1450
% SOLIDS			86.1	86.1	86.1			

AREA	METHOD	QA CONTINUING CAL FOUND LLCCV1194	QA CONTINUING CAL BLANK LLCCB1002	QA INTER CHK SOL. A FINAL LLICS1338
ENV PROBLEM NO				
ALUMINUM	P		60 U	490000
ANTIMONY	PP		30 U	
ARSENIC	PP		20 U	
BARIUM	PP		2 U	463
BERYLLIUM	PP		0.3 U	460
CADMUM	PP		3 U	837
CALCIUM	P		100 U	469000

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TABLE D.2.2 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001018C

AREA	METHOD	QA CONTINUING CAL FOUND LLCCV1194	QA CONTINUING CAL BLANK LLCCB1002	QA INTER CHK SOL. A FINAL LLICS1338
LOCATION	HOD	WATER UG/L	WATER UG/L	WATER UG/L
TYPE OF LOCATION				
SAMPLE NUMBER				
MATRIX				
UNITS				
ENV PROBLEM NO.				
CHROMIUM	P		7 U	504
COBALT	PP		7 U	464
COPPER	PP		4 U	504
IRON	PP		7 U	172000
LEAD	PP		30 U	4140
MAGNESIUM	PP		8 U	464000
MANGANESE	PP		2 U	504
NICKEL	PP		8 U	822
SELENIUM	PP		40 U	
SILVER	PP		6 U	876
SODIUM	PP	439 B	310 U	
VANADIUM	PP		3 U	460
ZINC	P		2 U	896
X SOLIDS	I			

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TABLE D.2.3 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001018D

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AREA	METHOD	QA LAB CONTROL SAMPLE TRUE LL0700101	QA INITIAL CAL TRUE A LL2AA1001	QA INITIAL CAL FOUND A LL2AA2001	QA INITIAL CAL BLANK 1 LL03A0001	QA LAB CONTROL SAMPLE LL0700101	QA PREP BLANK LL03A0001	QA CONTINUING CAL FOUND LL2AA4001
LOCATION		SOIL MG/KG	UG/L	UG/L	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	UG/L
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ARSENIC	F	680	27	27	0.64 U	716	0.13 U	26
CHROMIUM	F	17	50	51	0.52 U	14	0.1 U	52
LEAD	F	5830	43	43	0.44 U	5930	0.36 B	45
NICKEL	F	22	50	51	2.4 U	18	0.48 U	53
% SOLIDS	I	I						
AREA	METHOD	QA CONTINUING CAL BLANK LL03A1001	QA ARROYO SECO ARROYO LL001030D	QA ARROYO SECO ARROYO LL002019D	QA ARROYO SECO ARROYO LL002020D	QA ARROYO SECO ARROYO LL002031D	QA CONTINUING CAL FOUND LL2AA5001	QA CONTINUING CAL BLANK LL03A2001
LOCATION		SOIL MG/KG	MG/KG	MG/KG	SOIL MG/KG	SOIL MG/KG	UG/L	SOIL MG/KG
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ARSENIC	F	0.64 U	3.2 *N	4.1 *N	1.3 B*N	2.8 *N	48	1.7 B
CHROMIUM	F	0.6 B	43	27	32	53	43	0.44 U
LEAD	F	0.44 U	13	11	24	18	47	2.4 U
NICKEL	F	2.4 U	33	28	40	51		
% SOLIDS	I	I	97.4	94.1	99.3	91.5		
AREA	METHOD	QA INITIAL CAL FOUND A LL2AB2001	QA RET. BASIN ARROYO LL004011D	QA RET. BASIN ARROYO LL004022D	QA RET. BASIN ARROYO LL004033D	QA CONTINUING CAL FOUND LL2AB4001	QA CONTINUING CAL FOUND LL2AB5001	QA CONTINUING CAL BLANK LL03A3001
LOCATION		UG/L	MG/KG	MG/KG	MG/KG	UG/L	UG/L	SOIL MG/KG
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ARSENIC	F	25	3.9 *N	4.6 *N	4.2 *N	27	25	
CHROMIUM	F	51	37	42	42	51	49	
LEAD	F		8.8	9.2	9	42		
NICKEL	F		42	43	44	50		
% SOLIDS	I	I	84.9	84.9	86.7			0.44 U 2.4 U

TABLE D.2.3 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001018D

AREA	METHOD	QA INITIAL CAL FOUND A LL2AC2001	QA INITIAL CAL BLANK 2 LL03B0001	ARROYO SECO	QA CONTINUING CAL FOUND LL2AC4001	QA CONTINUING CAL FOUND LL2AC5001	QA CONTINUING CAL BLANK LL03B4001	QA CONTINUING CAL BLANK LL03B5001
		UG/L	SOIL MG/KG	SOIL MG/KG	UG/L	UG/L	SOIL MG/KG	SOIL MG/KG
ARSENIC	F		0.64 U	3.8 XN	25		0.7 B	0.64 U
CHROMIUM	F		0.7 B	44	53		1 B	0.52 U
LEAD	F	46	0.44 U	16	46		0.44 U	
NICKEL	F	55	2.4 U	48	52	46	2.4 U	2.4 U
% SOLIDS				95.1				

D-31	AREA	METHOD	QA CONTINUING CAL BLANK LL03B6001	QA INITIAL CAL FOUND A LL2AD2001	QA INITIAL CAL BLANK 3 LL03C0001	ARROYO SECO	DUPLICATE	DUPLICATE	QA MATRIX SPIKE LL001029D
			SOIL MG/KG	UG/L	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG
ARSENIC	F		0.64 U	25	0.64 U	3 XN	7.3 X	83	15 N
CHROMIUM	FF		1.1 B	52	0.52 U	36	38	5.4	47
LEAD	F			43	0.44 U	23	24	4.3	31
NICKEL	F					64	61	4.8	78
% SOLIDS					95.2				

	AREA	METHOD	QA MS X RECOVERY LL001029D	QA CONTINUING CAL FOUND LL2AD4001	QA CONTINUING CAL BLANK LL03C7001	CORRAL H CRK ARROYO LL040015B	CORRAL H CRK ARROYO LL040026B	CORRAL H CRK ARROYO LL040037B	TRAILER STG ARROYO LL003010D
			X	UG/L	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG
ARSENIC	F		174	26	0.64 U	5.6 XN	3.8 XN	3.5 XN	1.4 BXN
CHROMIUM	FF			52	0.8 B	55	30	36	44
LEAD	F		93	43	0.5 B	11	6.5	5.7	8.9
NICKEL	F					68	46	48	78
% SOLIDS					97.3	97.7	98.7	93.3	

TABLE D.2.3 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001018D

AREA	METHOD	QA TRAILER STG ARROYO LL003021D	CONTINUING CAL FOUND LL2AD5001	QA CONTINUING CAL BLANK LL03C8001	QA TRAILER STG ARROYO LL003032D	CONTINUING CAL FOUND LL2AE4001	QA CONTINUING CAL BLANK LL03C9001
LOCATION		SOIL MG/KG	UG/L	SOIL MG/KG	SOIL MG/KG	UG/L	SOIL MG/KG
TYPE OF LOCATION							
SAMPLE NUMBER							
MATRIX							
UNITS							
ENV PROBLEM NO.							
ARSENIC	F	3.1 *N 43	49	0.64 U 1 B 0.9 B	2.8 *N 45 9.1 71	46 43	0.7 B 0.8 B
CHROMIUM	F	8.3	42				
LEAD	F	94					
NICKEL					88.8		
% SOLIDS	I	87.9					

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TABLE D.2.4 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001018K

AREA	METHOD	QA LINEAR RANGE ANALYSIS LLLRA1521	QA TRUE A LLICV1382	QA INITIAL CAL WATER UG/L	QA LAB CONTROL SAMPLE TRUE LLLCS1501	QA INITIAL CAL FOUND A WATER UG/L	QA INITIAL CAL BLANK WATER UG/L	QA LAB CONTROL SAMPLE LLICB1316	QA PREP BLANK LLPCB1316
POTASSIUM	FEI	8000		1000 B	8150		1100 B	100 U	10200
X SOLIDS	I I								100
AREA	METHOD	QA PREP BLANK LLPB01541	QA CONTINUING CAL FOUND LLCCV1082	QA CONTINUING CAL BLANK LLCCB1003	ARROYO SECO ARROYO LL001018C	ARROYO SECO ARROYO LL001029C	ARROYO SECO ARROYO LL001030C	ARROYO SECO ARROYO LL002019C	
POTASSIUM	FEI	100		1100 B	100 U	1600	2300	1600	1700
X SOLIDS	I I					95.1	94.6	97.1	94.8
AREA	METHOD	ARROYO SECO ARROYO LL002020C	ARROYO SECO ARROYO LL002031C	RET. BASIN ARROYO LL004011C	RET. BASIN ARROYO LL004022C	RET. BASIN ARROYO LL004033C	DUPPLICATE ARROYO LL004033C	CONTINUING CAL FOUND LLCCV1083 WATER UG/L	QA SOIL MG/KG
POTASSIUM	FEI	1400		1900	2100	3000	2700	2300	1100 B
X SOLIDS	I I	94		89.4	85.5	84.5	86.1	86.1	

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TABLE D.2.4 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001018K

AREA	METHOD	QA DUPLICATE RPD LL004033C %	QA CONTINUING CAL BLANK LLCCB1004 WATER UG/L
POTASSIUM	F E	400	100 U
% SOLIDS			

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TABLE D.2.5 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001041F

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AREA	METHOD	QA LINEAR RANGE ANALYSIS LLLRA1522	QA INTER CHK SOL. A TRUE LLICCS1355	QA INITIAL CAL TRUE A LLICV1383	QA INITIAL CAL TRUE B LLICV1408	QA INITIAL CAL TRUE C LLICV1424	QA LAB CONTROL SAMPLE TRUE LLLCs1502	QA LAB CONTROL SAMPLE TRUE LLICs1503
		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ALUMINUM	P	7500	508000	100000	990		990	970
ANTIMONY	P	10000			1000		1000	990
ARSENIC	P	20000			1000		1000	1000
BARIUM	P	5000	483		990		990	970
BERYLLIUM	P	1500	474		240		240	960
CADMUM	P	5000	909		244		244	940
CALCIUM	PP	10000	516000	5000	24900		24900	1000 B
CHROMIUM	P	10000	513		253		253	1030
COBALT	P	10000	478		237		237	1000
COPPER	P	10000	534		271		271	1030
IRON	P	12000	203000	100000	995		995	1020
LEAD	P	50000	4850		2250		2250	1010
MAGNESIUM	P	12000	509000	50000		5000	12500	1020 B
MANGANESE	P	2500	531	50000	256		256	1020
NICKEL	P	15000	916		248		248	1020
SELENIUM	P	10000			1000		1000	990
SILVER	P	10000	993		254		254	990
SODIUM	P	10000		100000		5000	25300	860 B
VANADIUM	P	10000	475		255		255	1010
ZINC	P	6000	973		1550		1550	1010

## X SOLIDS

AREA	METHOD	QA INITIAL CAL FOUND A LLICV1364	QA INITIAL CAL FOUND C LLICV1416	QA INITIAL CAL FOUND B LLICV1400	QA INITIAL CAL BLANK LLICB1317	QA INTER CHK SOL. A INIT LLICs1347	QA PREP BLANK LLPB01542	QA PREP BLANK LLPB01543
		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ALUMINUM	P	103000		1020	50 U	492000	96 B	106 B
ANTIMONY	P			1020	30 U		30 U	30 U
ARSENIC	P			995	30 U		30 U	30 U
BARIUM	P			974	2 U	441	3.3 B	6.7 B
BERYLLIUM	P			249	0.3 U	445	0.3 U	0.3 U
CADMUM	P			242	2 U	840	2 U	2 U
CALCIUM	P	4900 B		25300	200 U	466000	200 U	200 U

TABLE D.2.5 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001041F

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AREA	METHOD	QA INITIAL CAL FOUND A LLICV1364 WATER UG/L	QA INITIAL CAL FOUND C LLICV1416 WATER UG/L	QA INITIAL CAL FOUND B LLICV1400 WATER UG/L	QA INITIAL CAL BLANK LLICB1317 WATER UG/L	QA INTER CHK SOL. A INIT LLICS1347 WATER UG/L	QA PREP BLANK LLPB01542 WATER UG/L	QA PREP BLANK LLPB01543 WATER UG/L
LOCATION	D							
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
CHROMIUM	P			261	6 U	469	6 U	6 U
COBALT	P			246	3 U	448	3 U	3 U
COPPER	P			252	3 U	481	3 U	3 U
IRON	P	107000		988	20 U	179000	20 U	29 B
LEAD	P			2140	30 U	4080	30 U	30 U
MAGNESIUM	P	50900		4960 B	10 U	470000	10 U	10 U
MANGANESE	P	49300		255	3 U	472	3 U	3 U
NICKEL	P			251	6 U	737	6 U	6 U
SELENIUM	P			1020	40 U	880	40 U	40 U
SILVER	P			241	4 U		4 U	4 U
SODIUM	P	97500		5430	200 U		486 B	423 B
VANADIUM	P			262	4 U	455	4.6 B	4 U
ZINC	P			1480	3 U	888	3 U	8.1 B
% SOLIDS	I	I						
AREA	METHOD	QA LAB CONTROL SAMPLE LLCCV1475 WATER UG/L	FIRING TABLE DITCHES LL044100A WATER UG/L	BLDG. 131 SEWERS LL012011C WATER UG/L	BLDG. 169 SEWERS LL012077C WATER UG/L	CONTINUING CAL FOUND LLCCV1084 WATER UG/L	CONTINUING CAL FOUND LLCCV1160 WATER UG/L	CONTINUING CAL FOUND LLCCV1195 WATER UG/L
LOCATION	D							
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	1160	123 B	348	226	104000	1020	
ANTIMONY	P	987	30 U	30 U	30 U		993	
ARSENIC	P	993	30 UN	30 UN	30 UN		985	
BARIUM	P	1010	6 B	26 B	18 B		953	
BERYLLIUM	P	988	0.3 U	0.3 U	0.3 U		243	
CADMIUM	P	902	2 U	2.3 B	2.4 B		236	
CALCIUM	P	1000 B	868 B	11300	10400	4860 B	24900	
CHROMIUM	P	1010	62	29	15		253	
COBALT	P	987	3 U	3 U	3 U		238	
COPPER	P	980	11 B	104	52		249	
IRON	P	1010	1740	630	1530	104000	970	
LEAD	P	1000	30 U	30 U	34 B		2100	
MAGNESIUM	P	981 B	81 B	1860 B	2820 B	51000		5040
MANGANESE	P	1000	26	35	33	50100	251	

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TABLE D.2.5 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001041F

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	METHOD	LAB CONTROL SAMPLE	FIRING TABLE	BLDG. 131	BLDG. 169	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL FOUND
TYPE OF LOCATION		DITCHES	SEWERS	SEWERS	SEWERS	LLCCV1084	LLCCV1160	LLCCV1195
SAMPLE NUMBER		LL044100A	LL012011C	LL012077C	WATER	WATER	WATER	WATER
MATRIX		WATER	WATER	WATER	UG/L	UG/L	UG/L	UG/L
UNITS		UG/L	UG/L	UG/L	2	2	2	2
ENV PROBLEM NO		13	2					
NICKEL	P	1000	68	19 B	9 B		245	
SELENIUM	P	1010	40 UN	40 UN	40 UN		1010	
SILVER	P	957	4 U	34	53		232	
SODIUM	P	1080 B	200 U	32700	40800	100000		5210
VANADIUM	P	979	4 U	5 B	5.8 B		254	
ZINC	P	997	15 B	165	179		1450	
% SOLIDS	I							
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	METHOD	BLDG. 298	BLDG. 321	BLDG. 322	BLDG. 511	BLDG. 511	SERIAL	DUPPLICATE
TYPE OF LOCATION		SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	DILUTION	
SAMPLE NUMBER		LL012191C	LL012226C	LL012259C	LL012679B	LL012691B	LL012691B	LL012691B
MATRIX		WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		2	2	2	2	2	2	2
ALUMINUM	P	529	220	152 B	50 U	50 U	250 U	57 B
ANTIMONY	P	30 U	30 U	30 U	30 U	30 U	150 U	30 U
ARSENIC	P	30 UN	30 UN	30 UN	30 UN	30 UN	150 U	30 U
BARIUM	P	45 B	23 B	6.5 B	2 U	9.5 B	10 U	2.9 B
BERYLLIUM	P	1.3 B	0.3 U	0.3 U	0.3 U	0.3 U	1.5 U	0.3 U
CADMUM	P	2.7 B	2 B	3.1 B	2 U	2.1 B	10 U	2.6 B
CALCIUM	P	9660	9110	4190 B	200 U	200 U	100 U	200 U
CHROMIUM	P	30	7.2 B	6.6 B	6 U	6.1 B	30 U	6 U
COBALT	P	3 U	3 U	3 U	3 U	3 U	15 U	3 U
COPPER	P	70	58	114	3 U	3 U	15 U	3 U
IRON	P	1660	405	91 B	20 U	20 U	100 U	20 U
LEAD	P	30 U	32 B	30 U	30 U	30 U	150 U	30 U
MAGNESIUM	P	1550 B	1810 B	323 B	10 U	10 U	50 U	10 U
MANGANESE	P	42	24	8.1 B	3 U	3 U	15 U	3 U
NICKEL	P	9.7 B	6 U	65	6 U	6 U	30 U	6.1 B
SELENIUM	P	40 UN	40 UN	40 UN	40 UN	40 UN	200 U	40 U
SILVER	P	339	4 U	4 U	4 U	4 U	20 U	4 U
SODIUM	P	22000	27200	3270 B	200 U	200 U	1000 U	200 U
VANADIUM	P	4 U	4.9 B	4 U	4 U	4 U	20 U	4 U
ZINC	P	148	84	30	6.5 B	6.8 B	15 U	9.8 B
% SOLIDS	I							

TABLE D.2.5 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001041F

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	METHOD	MATRIX SPIKE	MS X RECOVERY	PREP BLANK	PREP BLANK	CONTINUING CAL BLANK	CONTINUING CAL BLANK	CONTINUING CAL FOUND
TYPE OF LOCATION		LL012691B	LL012691B	LLPB01544	LLPB01545	LLCCB1005	LLCCB1006	LLCCV1085
SAMPLE NUMBER	D	WATER UG/L	% 2	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	2410	120	71 B	50 U	50 U	50 U	103000
ANTIMONY	P	569	114	30 U	30 U	30 U	30 U	
ARSENIC	P	122 B	122	30 U	30 U	30 U	30 U	
BARIUM	P	2010	100	200	7.3 B	0.3	0.3	
BERYLLIUM	P	55	110	0.3	0.3	0.3	0.3	
CADMIUM	P	54	104	200	200	200	200	
CALCIUM	P	200 U		600	600	600	600	4840 B
CHROMIUM	P	231	112	600	600	600	600	
COBALT	P	549	110	300	300	300	300	
COPPER	P	272	107	300	8.7 B	300	300	
IRON	P	1070	107	200	77 B	200	200	
LEAD	P	542	108	300	300	300	300	
MAGNESIUM	P	10 U		10	10	10	10	50800
MANGANESE	P	223	111	30	30	30	30	49800
NICKEL	P	440	108	6	6	6	6	
SELENIUM	P	60 B	120	40	40	40	40	
SILVER	P	50	100	4	4	4	4	
SODIUM	P	251 B		444 B	200	200	200	100000
VANADIUM	P	543	109	4	4	4	4	
ZINC	P	216	105	3 U	53	3 U	3 U	

% SOLIDS

AREA	M	QA	QA	QA	BLDG. 231	BLDG. 231	BLDG. 131
LOCATION	T	CONTINUING CAL FOUND	CONTINUING CAL FOUND	LAB CONTROL SAMPLE	ARROYO SECO	BLDG. 231	TANK
TYPE OF LOCATION	H	LLCCV1161	LLCCV1196	LLLCS1476	ARROYO LL001041F	LL022024F	LL022013G
SAMPLE NUMBER	O						
MATRIX	D	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L
UNITS							
ENV PROBLEM NO							
ALUMINUM	P	1030		1150	317 B	129 B	6410 B
ANTIMONY	P	990		999	30 U	30 U	30 U
ARSENIC	P	981		994	30 UN	30 UN	36 BN
BARIUM	P	952		1020	5.3 B	4.3 B	106 B
BERYLLIUM	P	244		1000	0.3 U	0.3 U	237 U
CADMIUM	P	237		908	2.1 B	2.5 B	8.8
CALCIUM	P	25000		1010 B	200 U	200 U	7070 B

TABLE D.2.5 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001041F

AREA	M	QA	QA	QA	LAB CONTROL	ARROYO SECO	BLDG. 231	BLDG. 231	BLDG. 131
LOCATION	E	CONTINUING CAL FOUND	CONTINUING CAL FOUND	SAMPLE	ARROYO	SUMP	SUMP	TANK	
TYPE OF LOCATION	T	LLCCV1161	LLCCV1196	LLCS1476	LL001041F	LL022024F	LL022013G	LL014013F	
SAMPLE NUMBER	H								
MATRIX	D	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO					1	4	4	4	4
CHROMIUM	P	254		1020	349	46	77	293	
COBALT	P	239		1010	3 U	3 U	196	3 U	
COPPER	P	251		983	8.6 B	15 B	1070	822	
IRON	P	970		1020	1740	512	12700	2560	
LEAD	P	2090		1000	30 U	38 U	295	1200	
MAGNESIUM	P		5070	984 B	74 B	69 B	4490 B	51 B	
MANGANESE	P		251	1010	34	14 B	246	19	
NICKEL	P		244	1010	195	63	191	62	
SELENIUM	P		992	1010	40 UN	40 UN	40 UN	40 UN	
SILVER	P		236	985	4 U	4 U	26	5.7 B	
SODIUM	P			5310	1220 B	461 B	588 B	76400	15800
VANADIUM	P		257		998	4 U	4.4 B	70	4 U
ZINC	P		1460		1010	57	32	333	180
X SOLIDS									

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AREA	M	QA	QA	QA	QA	QA	QA	CONTINUING
LOCATION	E	BLDG. 141	BLDG. 141	SERIAL	DUPLICATE	MATRIX	MS X	CAL BLANK
TYPE OF LOCATION	T	SUMP	SUMP	DILUTION	LL015025G	SPIKE	RECOVERY	LLCCB1007
SAMPLE NUMBER	H	LL0150140	LL015025G	LL015025G	LL015025G	LL015025G	LL015025G	WATER
MATRIX	D	WATER	WATER	WATER	WATER	WATER	WATER	UG/L
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO		4	4	4	4	4	4	
ALUMINUM	P	70400		62 B	250 U	50 U	2050	50 U
ANTIMONY	P	500 U		30 U	150 U	30 U	494	30 U
ARSENIC	P	300 UN		30 UN	150 U	30 U	133 B	30 U
BARIUM	P	38 B		3.4 B	10 U	5.5 B	2040	2 U
BERYLLIUM	P	0.52 B		0.3 U	1.5 U	0.3 U	51	0.3 U
CADMIUM	P	29		2 U	10 U	2 U	52	2 U
CALCIUM	P	9320		200 U	1000 U	200 U	200 U	200 U
CHROMIUM	P	48700		9.5 B	30 U	7.6 B	222	6 U
COBALT	P	22 B		3 U	15 U	3 U	484	3 U
COPPER	P	11600		5.4 B	15 U	3.9 B	239	93
IRON	P	6340		58 B	112	55 B	1010	3 U
LEAD	P	2960		31 B	150 U	30 U	560	20 U
MAGNESIUM	P	14800		10 B	50 U	10 U	10 U	30 U
MANGANESE	P	392		4.3 B	15 U	4.3 B	210	10 U

TABLE D.2.5 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001041F

AREA	METHOD	BLDG. 141 SUMP LL015014G	BLDG. 141 SUMP LL015025G	SERIAL DILUTION LL015025G	DUPLICATE WATER UG/L	MATRIX SPIKE LL015025G	MS % RECOVERY LL015025G	CONTINUING CAL BLANK LLCCB1007
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		4	4	4	4	4	4	UG/L
NICKEL	P	475	9 B	30 U	12 B	401	98	6 U
SELENIUM	PP	40 UN	40 UN	200 U	40 U	63 B	126	40 U
SILVER	PP	40 U	4 U	20 U	4 U	53	106	4 U
SODIUM	PP	269000	421 B	1000 U	510 B	200 U		200 U
VANADIUM	PP	4 U	4 U	20 U	4 U	487	97	4 U
ZINC	P	2090	8 B	15 U	9.9 B	211	101	3 U
% SOLIDS								
AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		CONTINUING CAL FOUND LLCCV1086	CONTINUING CAL FOUND LLCCV1162	CONTINUING CAL FOUND LLCCV1197	INTER CHK SOL. A FINAL LLICS1339	WATER UG/L		
ALUMINUM	P	102000	1040		510000			
ANTIMONY	PP		1010					
ARSENIC	PP		995		445			
BARIUM	PP		966		451			
BERYLLIUM	PP		247		841			
CADMIUM	PP		239		475000			
CALCIUM	PP		25400		479			
CHROMIUM	PP		258		459			
COBALT	PP		245		503			
COPPER	PP		253		182000			
IRON	PP	105000	988		4100			
LEAD	PP		2120		485000			
MAGNESIUM	PP	50000	12200	5050	479			
MANGANESE	PP	48700	255		744			
NICKEL	PP		248					
SELENIUM	PP		1000		935			
SILVER	PP		245					
SODIUM	PP	98200	26000	5250	470			
VANADIUM	PP		262		913			
ZINC	P		1490					
% SOLIDS								

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TABLE D.2.6 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001041G

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	METHOD	LAB CONTROL SAMPLE TRUE	INITIAL CAL TRUE A	INITIAL CAL FOUND A	INITIAL CAL BLANK 1	PREP BLANK	LAB CONTROL SAMPLE	BLDG. 222 SEWERS
TYPE OF LOCATION		LL0700102	LL2AA1002	LL2AA2002	LL03A0002	LL03A0002	LL0700102	LL012157C
SAMPLE NUMBER								
MATRIX		WATER	UG/L	UG/L	UG/L	WATER	WATER	WATER
UNITS		UG/L				UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F	100	27	26	0.64 U	0.9 B	103	
BERYLLIUM	FF	25	29	29	0.24 U	0.24 U	24	
CHROMIUM	F	100	20	21	0.3 B	1 B	100	
LEAD	F	101	43	44	0.44 U	0.9 B	101	
NICKEL	F	100	51	49	1.6 U	1.6 U	99	
SELENIUM	FF	25	11	10	0.67 U	0.67 U	24	
SILVER	F	3.7	9.9	10	0.09 U	0.09 U	3.8	
THALLIUM	F	75	75	75	0.49 U	0.49 U	74	
X SOLIDS	I I							

D-41	AREA	M	QA	QA	QA	QA	QA	QA
LOCATION	METHOD	BLDG. 151	BLDG. 331	DUPLICATE	GSA AREA	MATRIX	MS X	CONTINUING
TYPE OF LOCATION		SEWERS	SEWERS		WELLS	SPIKE	RECOVERY	CAL FOUND
SAMPLE NUMBER		LL012066C	LL012306C	LL0362240	LL0362240	LL0362240	LL0362240	LL2AA4002
MATRIX		WATER						
UNITS		UG/L						
ENV PROBLEM NO		2	2	9	9	9	9	
ARSENIC	F							27
BERYLLIUM	FF							30
CHROMIUM	F							20
LEAD	F	13	12					42
NICKEL	FF							48
SELENIUM	F							10
SILVER	FF							10
THALLIUM	F			0.09 U	0.09 U	19	95	76
X SOLIDS	I I							

TABLE D.2.6 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001041G

AREA	METHOD	QA CONTINUING CAL BLANK LL03A1002	BLDG. 511 SEWERS LL012339C	BLDG. 241 SEWERS LL012180C	BLDG. 331 SEWERS LL012293C	ARROYO SECO ARROYO LL001041G	TRAILER STG ARROYO LL003043G	CONTINUING CAL FOUND LL2AA5002
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	UG/L
ARSENIC	F	0.64 U				0.64 U	0.64 U	30
BERYLLIUM	FF	0.24 U				1.3 B	0.17 U	20
CHROMIUM	F	0.3 B				0.44 U	0.44 U	43
LEAD	FF	0.44 U	19	2.8 B	5.6	1.6 U	2.7 B	53
NICKEL	FF	1.6 U						
SELENIUM	FF	0.67 U						
SILVER	FF	0.09 U						
THALLIUM	F	0.49 U						

% SOLIDS	METHOD	QA CONTINUING CAL BLANK LL03A2002	QA LAS POSITAS ARROYO LL006046G	QA DUPLICATE LL006046G	QA MATRIX SPIKE LL006046G	QA MS % RECOVERY LL006046G	QA BLDG. 231 SUMP LL022024G	INITIAL CAL FOUND A LL2AB2002
AREA LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	%	WATER UG/L	UG/L
ARSENIC	F		0.64 U				0.64 U	29
BERYLLIUM	FF	0.24 U				0.24 U		
CHROMIUM	F	0.7 B		1.1 B		7.5 B		
LEAD	FF	0.44 U	0.44 U	3.2 B	41	0.44 U		
NICKEL	FF	1.6 U	3.9 B			20		
SELENIUM	FF							
SILVER	FF							
THALLIUM	F							

% SOLIDS

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TABLE D.2.6 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001041G

AREA	METHOD	QA CONTINUING CAL FOUND LL2AB4002	QA CONTINUING CAL BLANK LL03A3002	QA INITIAL CAL FOUND A LL2AC2002	QA INITIAL CAL BLANK 2 LL03B0002	QA FIRING TABLE DITCHES LL044100B	DUPLICATE WATER UG/L 13	QA DUPLICATE RPD LL044100B
ARSENIC	F	25		28	0.64 U	0.64 U	0.64 U	
BERYLLIUM					0.24 U	0.24 U	0.3 B	
CHROMIUM					60	60	62	
LEAD	F	43	0.44 U	45	0.44 U	9.5	9.3	3.3
NICKEL								2.1
SELENIUM	F					0.67 U	0.67 U	
SILVER	F	10			0.09 U			
THALLIUM	F					0.49 U	0.49 U	
% SOLIDS	I							
D-43	AREA	METHOD	QA MATRIX SPIKE LL044100B	QA MS % RECOVERY LL044100B	QA BLDG. 492 SUMP LL026017I	QA BURN PIT PITS LL034131H	QA CONTINUING CAL BLANK LL03B4002	QA CONTINUING CAL FOUND LL2AC4002
LOCATION								INITIAL CAL BLANK 3 LL03C0002
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX	D	WATER UG/L 13	X 13	WATER UG/L 4	WATER UG/L 7	WATER UG/L 126	WATER UG/L 0.24 U	WATER UG/L 29
UNITS								
ENV PROBLEM NO								
ARSENIC	F	19	95	1.6 B		0.64 U	29	0.64 U
BERYLLIUM		11	110	0.7 B				
CHROMIUM	F	84	120	63				
LEAD	F	32	113	265		0.44 U	46	
NICKEL								
SELENIUM	F	11	110					
SILVER	F	52	104			0.09 U		
THALLIUM	F							
% SOLIDS	I							

TABLE D.2.6 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001041G

AREA	METHOD	QA
LOCATION		CONTINUING
TYPE OF LOCATION		CAL BLANK
SAMPLE NUMBER		LL03C7002
MATRIX		WATER
UNITS		UG/L
ENV PROBLEM NO		
ARSENIC	F	0.64 U
BERYLLIUM	F	
CHROMIUM	F	
LEAD	F	
NICKEL	F	
SELENIUM	F	
SILVER	F	
THALLIUM	F	
% SOLIDS	I	

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TABLE D.2.7 LIVERMORE/SANDIA METALS, INCLUDING CR6+ - SDG NUMBER: LL001041H

AREA	M	QA	QA
LOCATION	T	ARROYO SECO	MATRIX
TYPE OF LOCATION	H	ARROYO	SPIKE
SAMPLE NUMBER	O	LL001041H	LL001041H
MATRIX	D	WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO		1	1
CR6+		5 U	26
X SOLIDS			104

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TABLE D.2.8 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001041K

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AREA	METHOD	QA LINEAR RANGE ANALYSIS	QA TRUE A LLLRA1523	QA INITIAL CAL SAMPLE TRUE LLLCS1504	QA LAB CONTROL WATER UG/L	QA FOUND A WATER UG/L	QA INITIAL CAL BLANK LLLICV1365	QA INITIAL CAL WATER UG/L	QA PREP BLANK LLPB01546	QA PREP BLANK LLPB01547
POTASSIUM	FE	8000		1000 B	10000		1100 B	100 U	100	100
% SOLIDS										
AREA	METHOD	QA LAB CONTROL SAMPLE LLLCS1477	QA ARROYO SECO ARROYO LL001041F	QA BLDG. 231 SUMP LL022024F	QA CONTINUING CAL FOUND LLCCV1087	QA CONTINUING CAL BLANK LLCCB1008	QA PREP BLANK LLPB01549	QA BLDG. 322 SEWERS LL012259C		
POTASSIUM	FE	11000		100 U	200 B	1100 B	100 U	100	29000	
% SOLIDS										
AREA	METHOD	QA BLDG. 511 SEWERS LL012679B	QA CONTINUING CAL FOUND LLCCV1088	QA CONTINUING CAL BLANK LLCCB1009	QA INITIAL CAL FOUND A LLICV1366	QA INITIAL CAL BLANK LLLICB1319	QA PREP BLANK LLPB01548	QA LAB CONTROL SAMPLE LLLCS1478		
POTASSIUM	FE	100 U		1100 B	100 U	1100 B	100 U	100	12000	
% SOLIDS										

TABLE D.2.8 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL001041K

AREA		QA							
M	E	BLDG. 231	BLDG. 141	BLDG. 141	DUPLICATE	BLDG. 131	BLDG. 169	BLDG. 298	
T	H	SUMP	SUMP	SUMP	LL0150250	SEWERS	SEWERS	SEWERS	
O	D	LL0220130	LL0150140	LL0150250	LL0150250	LL012011C	LL012077C	LL012191C	
D	U	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
U	G/L	4	4	4	4	2	2	2	
ENV PROBLEM NO									
POTASSIUM	F E	9300	27000	200 B	200 B	24000	29000	22000	
X SOLIDS									
AREA		QA							
M	E	QA	QA	FIRING TABLE	BLDG. 321	BLDG. 511	DUPLICATE	BLDG. 131	
T	H	CONTINUING	CONTINUING	DITCHES	SEWERS	SEWERS	LL012691B	TANK	
O	D	CAL FOUND	CAL BLANK	LL044100A	LL012226C	LL012691B	LL012691B	LL014013F	
D	U	LLCCV1089	LLCCB1010	WATER	WATER	WATER	WATER	WATER	
U	G/L	WATER	UG/L	UG/L	13	2	2	UG/L	
ENV PROBLEM NO								4	
POTASSIUM	F E	1100 B	100 U	160 B	25000	100 U	100 U	150000	
X SOLIDS									
AREA		QA							
M	E	QA	QA						
T	H	CONTINUING	CONTINUING						
O	D	CAL FOUND	CAL BLANK						
D	U	LLCCV1090	LLCCB1011						
U	G/L	WATER	WATER						
ENV PROBLEM NO									
POTASSIUM	F E	1100 B	100 U						
X SOLIDS									

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TABLE D.2.9 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003010C

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AREA	METHOD	QA LINEAR RANGE ANALYSIS LLLRA1524	QA INTER CHK SOL. A TRUE LLICSI556	QA INITIAL CAL TRUE A LLICV1385	QA INITIAL CAL TRUE B LLICV1409	QA INITIAL CAL TRUE C LLICV1425	QA LAB CONTROL SAMPLE TRUE LLLCS1505	QA INITIAL CAL FOUND A LLICV1367
		UG/L	UG/L	UG/L	UG/L	UG/L	SOIL MG/KG	WATER UG/L
ALUMINUM	P	7500	508000	100000	990		15200	103000
ANTIMONY	P	10000			1000		20 U	
ARSENIC	P	20000			1000		680	
BARIUM	P	5000	483		990		430	
BERYLLIUM	P	1500	474		240		1 U	
CADMUM	P	5000	909		244		1 U	
CALCIUM	P	10000	516000	5000	24900		10500	
CHROMIUM	P	10000	513		253		17	
COBALT	P	10000	478		253		6.9	
COPPER	P	10000	534		277		265	
IRON	P	12000	203000	100000	995		11200	
LEAD	P	50000	4850		2250		5830	
MAGNESIUM	P	12000	509000	50000		5000	14700	50800
MANGANESE	P	2500	531	50000	256		91700	49000
NICKEL	P	15000	916		248		22	
SELENIUM	P	10000			1000		1 U	
SILVER	P	10000	993		254		2 U	
SODIUM	P	10000		100000		5000	3720	100000
VANADIUM	P	10000	475		255		18	
ZINC	P	6000	973		1550		425	
% SOLIDS								

AREA	METHOD	QA INITIAL CAL FOUND B LLICV1401	QA INITIAL CAL FOUND C LLICV1417	QA INTER CHK SOL. A INIT LLICSI348	QA INITIAL CAL BLANK LLICB1320	QA PREP BLANK LLPB01550	QA PREP BLANK LLPB01551	QA LAB CONTROL SAMPLE LLLCS1479
		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	SOIL MG/KG
ALUMINUM	P	1040		498000	50 U	50 U	50 U	15400
ANTIMONY	P	978			30 U	30 U	30 U	5.4 U
ARSENIC	P	948			30 U	30 U	30 U	630
BARIUM	P	983		448	2 U	2 U	2 U	426
BERYLLIUM	P	242		450	0.3 U	0.3 U	0.3 U	0.79
CADMUM	P	238		842	2 U	2 U	2 U	0.77
CALCIUM	P	25500		477000	200 U	200 U	200 U	10400

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TABLE D.2.9 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003010C

AREA	M	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION	METHOD	INITIAL CAL FOUND B	INITIAL CAL FOUND C	INTER CHK SOL. A INIT	INITIAL CAL BLANK	PREP BLANK	PREP BLANK	LAB CONTROL SAMPLE	
TYPE OF LOCATION	HO	LLICV1401	LLICV1417	LLICS1348	LLICB1320	LLPB01550	LLPB01551	SOIL	
SAMPLE NUMBER	OD	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	MG/KG	
MATRIX									
UNITS									
ENV PROBLEM NO									
CHROMIUM	P	256		469	6 U	6 U	6 U	18	
COBALT	P	243		450	3 U	3 U	3 U	8.7	
COPPER	P	261		496	3 U	3.9 B	3 U	252	
IRON	P	987		181000	23 B	37 B	20 B	10600	
LEAD	P	2090		4090	30 U	30 U	30 U	5350	
MAGNESIUM	P		5130	480000	11 B	10 U	10 U	15000	
MANGANESE	P		255	473	3 U	5.3 B	3 U	88300	
NICKEL	P		245	740	6 U	6 U	6 U	16	
SELENIUM	P		938		40 U	40 U	40 U	7.2 U	
SILVER	P		247	896	4 U	4 U	4 U	7.3	
SODIUM	P			5190	200 U	200 U	200 U	4150	
VANADIUM	P	262		457	4 U	4 U	4 U	9.3	
ZINC	P	1490		897	3 U	8.1 B	3.2 B	416	
% SOLIDS	I	I	I						

AREA	M	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION	METHOD	BLDG. 805 DRAINS	BLDG. 805 DRAINS	CONTINUING CAL BLANK	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL FOUND	BLDG. 805 DRAINS	
TYPE OF LOCATION	HO	LL033016C	LL033027C	LLCCB1012	LLCCV1091	LLCCV1163	LLCCV1198	LL033038C	
SAMPLE NUMBER	OD								
MATRIX									
UNITS									
ENV PROBLEM NO									
ALUMINUM	P	12400 XE	10700 XE	50 U	97800	954		13600 XE	
ANTIMONY	P	4.4 UN	32 N	30 U		948		6.1 BN	
ARSENIC	P	4.4 UN	4.3 UN	30 U		943		4.2 UN	
BARIUM	P	206 *	211 *	2 U		998		204 *	
BERYLLIUM	P	0.51 B	0.48 B	0.3 U		243		0.51 B	
CADMIUM	P	16	18	2 U		242		28	
CALCIUM	P	32200 XE	31200 XE	200 U	4810 B	26000		29800 XE	
CHROMIUM	P	44 X	46 X	6 U		255		45 X	
COBALT	P	11	12	6.8 B		248		11	
COPPER	P	1410 NxE	1090 NxE	7.3 B		247		651 NxE	
IRON	P	25200 *	28100 *	20 U	105000	998		28000 *	
LEAD	P	365	870	30 U		2130		403	
MAGNESTUM	P	5560 *	5510 *	10 U	48500		4750 B	6170 *	
MANGANESE	P	552 XE	703 XE	3.7 B	47400	257		564 XE	

TABLE D.2.9 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003010C

AREA	METHOD	BLDG. 805 DRAINS LL033016C	BLDG. 805 DRAINS LL033027C	QA CONTINUING CAL BLANK LLCCB1012	QA CONTINUING CAL FOUND LLCCV1091	QA CONTINUING CAL FOUND LLCCV1163	QA CONTINUING CAL FOUND LLCCV1198	BLDG. 805 DRAINS LL033038C
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L	MG/KG
		6	6					6
NICKEL	P	26 *	26 *	6 U		247		25 *
SELENIUM	P	5.8 UN	5.7 UN	40 U		942		5.6 UN
SILVER	P	8.9	60	13		244		9.3
SODIUM	P	639 B	619 B	225 B	92100		5010	666 B
VANADIUM	P	33 *	32 *	4 U		257		35 *
ZINC	P	1060 Nx	974 Nx	3 U		1460		908 Nx
% SOLIDS	I	98.9	98.9					99.1
AREA	METHOD	865 AREA DITCH LL039012C	865 AREA DITCH LL039034C	FIRING TABLE DITCHES LL044075A	FIRING TABLE DITCHES LL044086A	FIRING TABLE DITCHES LL044097A	FIRING TABLE DITCHES LL044019A	FIRING TABLE DITCHES LL044020A
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
		11	11	13	13	13	13	13
ALUMINUM	P	27100 *E	32700 *E	21800 *E	21000 *E	19800 *E	30300 *E	14100 *E
ANTIMONY	P	7.8 UN	9.1 UN	7.8 BN	6 UN	5.7 UN	5.7 UN	4.2 UN
ARSENIC	P	7.8 UN	9.1 UN	5.9 UN	6 UN	5.7 UN	5.7 UN	4.2 UN
BARIUM	P	254 *	313 *	163 *	179 *	151 *	238 *	114 *
BERYLLIUM	P	1.2 B	1.5	4.8	8.1	6	1.5	0.57 B
CADMUM	P	1.3	1.3 B	1.1	0.4 B	0.66 B	1.1	0.28 U
CALCIUM	P	10400 *E	13600 *E	12100 *E	10600 *E	8240 *E	14400 *E	8070 *E
CHROMIUM	P	31 *	30 *	26 *	22 *	20 *	31 *	19 *
COBALT	P	16	21	12	11	7.5 B	15	7.7
COPPER	P	35 Nx E	37 Nx E	35 Nx E	42 Nx E	40 Nx E	37 Nx E	17 Nx E
IRON	P	31400 *	39800 *	24000 *	22200 *	23500 *	33700 *	19700 *
LEAD	P	9.9 B	27 B	35 B	33 B	29 B	20 B	13 B
MAGNESIUM	P	6610 *	7180 *	7920 *	6980 *	7150 *	9080 *	5870 *
MANGANESE	P	555 *E	630 *E	348 *E	363 *E	420 *E	627 *E	350 *E
NICKEL	P	15 *	16 *	18 *	14 *	13 *	18 *	13 *
SELENIUM	P	10 UN	12 UN	7.9 UN	8 UN	7.6 UN	7.5 UN	5.6 UN
SILVER	P	3.5	6.2	7.4	19	24	2.3	2
SODIUM	P	1380	4850	1600	1650	1230	1870	882
VANADIUM	P	81 *	107 *	58 *	54 *	49 *	83 *	40 *
ZINC	P	472 Nx	200 Nx	122 Nx	162 Nx	80 Nx	91 Nx	210 Nx
% SOLIDS	I	51.5	43.6	64	65.7	72	68.3	88.6

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TABLE D.2.9 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003010C

AREA	METHOD	865 AREA DITCH LL039023C	865 AREA DITCH LL039045C	QA CONTINUING CAL FOUND LLCCV1092	QA CONTINUING CAL FOUND LLCCV1164	QA CONTINUING CAL FOUND LLCCV1199	QA CONTINUING CAL BLANK LLCCB1013	FIRING TABLE DITCHES LL044031A
LOCATION		SOIL MG/KG	SOIL MG/KG	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	SOIL MG/KG
TYPE OF LOCATION		11	11					13
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	11400 XE	15600 XE	100000	1040		50 U	11300 XE
ANTIMONY	P	6 UN	7.8 UN		983		30 U	4.2 UN
ARSENIC	P	6 UN	7.8 UN		944		30 U	4.2 UN
BARIUM	P	91 X	147 X		987		2 U	115 X
BERYLLIUM	P	0.51 B	0.67 B		242		0.3 U	0.49 B
CADMUM	P	0.94 B	0.75 B		240		2 U	0.68 B
CALCIUM	P	7180 XE	10300 XE	4950 B	25800		200 U	5580 XE
CHROMIUM	P	13 X	23 X		253		6 U	19 X
COBALT	P	7.9 B	9.9 B		242		3 U	6.3 B
COPPER	P	36 NXE	27 NXE		257		3 U	20 NXE
IRON	P	18000 X	21300 X	106000	985		20 U	16200 X
LEAD	P	11 B	18 B		2080		30 U	27 B
MAGNESIUM	P	3590 X	3830 X	49800			10 U	4030 X
MANGANESE	P	289 XE	409 XE	48900	254	4870 B	3 U	417 XE
NICKEL	P	8 X	13 X		249		6 U	10 X
SELENIUM	P	8 UN	10 UN		928		40 U	5.6 UN
SILVER	P	2.3	3.1		237		4.4 B	1.8
SODIUM	P	1090	1560	94200			200 U	820
VANADIUM	P	49 X	55 X		257	5160	4 U	36 X
ZINC	P	135 NX	121 NX		1460		3 U	56 NX
X SOLIDS	I	66.2	53.8					98.8

AREA	METHOD	QA FIRING TABLE	QA SERIAL	QA SD % DILUTION	QA DUPLICATE	QA DUPLICATE	QA MATRIX	QA MS % RECOVERY
LOCATION		DITCHES	SERIAL	SD % DILUTION	DUPLICATE	DUPLICATE	SPIKE	LL044064A
TYPE OF LOCATION		LL044042A	LL044064A	LL044064A	LL044064A	LL044064A	LL044064A	LL044064A
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	14600 XE	17800	6.3	18100	4.9		
ANTIMONY	P	4.1 UN	20 U		4.1 U		16	24
ARSENIC	P	4.1 UN	20 U		4.1 U		8.9 B	64
BARIUM	P	232 X	179	1.1	207	13	450	99
BERYLLIUM	P	1	1.2		1.4	0.1	8.8	110
CADMUM	P	0.82	1.3 U		1.2	0.1	8.5	109
CALCIUM	P	11200 XE	6930	4.9	7940	8.5		

TABLE D.2.9 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003010C

AREA	METHOD	FIRING TABLE DITCHES LL044042A	SERIAL DILUTION LL044064A	SD X DIFFERENCE LL044064A	QA	DUPLICATE LL044064A	DUPLICATE RPD SOIL MG/KG	QA	MATRIX SPIKE LL044064A	MS % RECOVERY LL044064A
ENV PROBLEM NO		13	13	13		13	13		13	13
CHROMIUM	P	16 *	26			21	17	53	83	104
COBALT	PP	9.2	9.5			11	1.3	7.9	111	108
COPPER	PP	39 NxE	77	2.5		73	6.3			94
IRON	PP	21600 *	25800	1.5		24600	5.5		103	118
LEAD	PP	16 B	32			28				
MAGNESIUM	PP	4090 *	5770	5.9		5310	14			
MANGANESE	PP	883 *E	428	14		562	12	533	90	109
NICKEL	PP	11 *	15			14	2		5.4	U
SELENIUM	PP	5.5 UN	27 U			5.4 U	0.2	8.8		104
SILVER	PP	1.8	2.7 U			1.9	30			
SODIUM	PP	1100	849			1290	16	120		78
VANADIUM	PP	49 *	65	3		57	30	245		8.8
ZINC	P	63 Nx	226	5.4		177				
% SOLIDS		95.7	95					95		

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AREA	METHOD	QA PREP BLANK LLPB01552	QA PREP BLANK LLPB01553	QA LAB CONTROL SAMPLE LLLCS1480	QA CONTINUING CAL FOUND LLCCV1093	QA CONTINUING CAL FOUND LLCCV1200	QA CONTINUING CAL BLANK LLCCB1014	QA CONTINUING CAL FOUND LLCCV1165
ENV PROBLEM NO		UG/L	UG/L	SOIL MG/KG	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L
ALUMINUM	P	50 U	50 U	16700	97600		50 U	1020
ANTIMONY	PP	30 U	30 U	5.1 U			30	960
ARSENIC	PP	30 U	30 U	621			30	928
BARIUM	PP	2 U	2 U	422			2	966
BERYLLIUM	PP	0.3 U	0.3 U	0.82			0.3	239
CADMIUM	PP	2 U	2 U	0.94			2	238
CALCIUM	PP	200 U	200 U	10500	4830 B		200	25400
CHROMIUM	PP	6 U	6 U	18			6	250
COBALT	PP	3 B	3 U	8.7			3	238
COPPER	PP	6.3 B	6.1 B	251			3	260
IRON	PP	23 B	41 B	11500	103000		20	956
LEAD	PP	30 U	30 U	5250			30	2070
MAGNESIUM	PP	10 U	10 B	15300	48600	4730 B	10	
MANGANESE	P	4.7 B	4.9 B	86900	48700		3	249

TABLE D.2.9 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003010C

D-53	AREA	M	QA	QA	QA	QA	QA	QA	QA	QA
		E	PREP BLANK LLPB01552	PREP BLANK LLPB01553	LAB CONTROL SAMPLE LLLCS1480	CONTINUING CAL FOUND LLCCV1093	CONTINUING CAL FOUND LLCCV1200	CONTINUING CAL BLANK LLCCB1014	CONTINUING CAL FOUND LLCCV1165	
LOCATION	T								UNITS	
TYPE OF LOCATION	H								UNITS	
SAMPLE NUMBER	O								UNITS	
MATRIX	D								UNITS	
ENV PROBLEM NO	P								UNITS	
NICKEL	P	6 U	6 U	17					6 U	244
SELENIUM	P	40 U	40 U	6.7 U					40 U	925
SILVER	P	8.8 B	7 B	7.1					4 U	240
SODIUM	P	271 B	220 B	4070	91900	5020			200 U	
VANADIUM	P	4 U	4 U	11					4 U	260
ZINC	P	3.3 B	7.8 B	415					3 U	1480
% SOLIDS	I	I	I	I	I	I	I	I	I	I
AREA	M									
LOCATION	E									
TYPE OF LOCATION	T	FIRING TABLE DITCHES	FIRING TABLE DITCHES	TRAILER STG ARROYO	TRAILER STG ARROYO	TRAILER STG ARROYO	TRAILER STG ARROYO	LAS POSITAS ARROYO	LAS POSITAS ARROYO	
SAMPLE NUMBER	H	LL044053A	LL044064A	LL003010C	LL003021C	LL003032C	LL005012C	LL005023C		
MATRIX	O	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
UNITS	D	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG		
ENV PROBLEM NO	P	13	13	1	1	1	1	1		
ALUMINUM	P	21400 XE	19000 XE	18800 XE	22100 XE	25400 XE	12600 XE	15600 XE		
ANTIMONY	P	4.2 UN	4 UN	4.3 UN	4.6 UN	4.6 UN	4.1 UN	4.6 UN		
ARSENIC	P	4.2 UN	4 UN	4.3 UN	4.6 UN	4.6 UN	4.1 UN	4.6 UN		
BARIUM	P	204 X	181 X	225 X	253 X	230 X	187 X	239 X		
BERYLLIUM	P	1.5	1.3	0.58 B	0.69 B	0.73 B	0.4 B	0.52 B		
CADMUM	P	1.2	1.1	0.65 B	0.73 B	0.69 B	0.36 B	0.68 B		
CALCIUM	P	8550 XE	7290 XE	3970 XE	5830 XE	5190 XE	5050 XE	5960 XE		
CHROMIUM	P	23 X	25 X	46 X	55 X	58 X	32 X	33 X		
COBALT	P	11	9.7	14	12	13	8.9	10		
COPPER	P	222 NXE	79 NXE	23 NXE	22 NXE	24 NXE	13 NXE	17 NXE		
IRON	P	27600 X	26200 X	24100 X	27500 X	27600 X	14400 X	17400 X		
LEAD	P	21 B	23 B	7.6 B	9.3 B	9.5 B	29	44		
MAGNESIUM	P	5360 X	6130 X	6260 X	6780 X	7430 X	4040 X	4790 X		
MANGANESE	P	528 XE	500 XE	730 XE	610 XE	658 XE	509 XE	570 XE		
NICKEL	P	13 X	16 X	62 X	67 X	67 X	34 X	36 X		
SELENIUM	P	5.6 UN	5.3 UN	5.8 UN	6.1 UN	6.1 UN	5.4 UN	6.2 UN		
SILVER	P	1.8	1.7	1.5	2.6	1.9	1.1 B	2		
SODIUM	P	1520	1320	585 B	1160	1040	1070	1210		
VANADIUM	P	69 X	67 X	48 X	55 X	57 X	33 X	38 X		
ZINC	P	119 NX	239 NX	50 NX	49 NX	53 NX	52 NX	66 NX		
% SOLIDS	I	I	93.4	95	91.5	89.3	88.4	96.6	I	89.4

TABLE D.2.9 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003010C

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AREA	M E T H O D	LAS POSITAS ARROYO LL005034C	LAS POSITAS ARROYO LL006013C	LAS POSITAS ARROYO LL006024C	CONTINUING CAL FOUND LLCCV1094	CONTINUING CAL FOUND LLCCV1166	CONTINUING CAL FOUND LLCCV1201	CONTINUING CAL BLANK LLCCB1015
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		MG/KG	MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L
		1	1	1				
ALUMINUM	P	16600 *E	15500 *E	20800 *E	102000	1050		50 B
ANTIMONY	PP	4.4 UN	4.7 UN	4.4 UN		993		30 U
ARSENIC	PP	4.4 UN	4.7 UN	4.4 UN		967		30 U
BARIUM	PP	237 *	261 *	341 *		974		2 U
BERYLLIUM	PP	0.54 B	0.56 B	0.67 B		249		0.3 UU
CADMIUM	PP	0.47 B	0.47 B	0.57 B		241		2 UU
CALCIUM	PP	5540 *E	3500 *E	4200 *E	5060	25700		200 UU
CHROMIUM	PP	32 *	26 *	34 *		254		6 UU
COBALT	PP	9.7	8.1	9.5		244		3 UU
COPPER	PP	16 N*E	12 N*E	17 N*E		269		4.2 B
IRON	PP	17800 *	18200 *	22900 *	106000	982		53 B
LEAD	PP	31	6.8 B	7.2 B		2100		30 U
MAGNESIUM	PP	4760 *	3790 *	4720 *	50700		5320	25 B
MANGANESE	PP	549 *E	600 *E	629 *E	50500	255		9.2 B
NICKEL	PP	34 *	19 *	26 *		248		6 UU
SELENIUM	PP	5.9 UN	6.3 UN	5.9 UN		990		40 U
SILVER	PP	1.4 B	2	1.8		260		6.6 B
SODIUM	PP	1360	961	1250	95200		5440	275 B
VANADIUM	PP	38 *	38 *	51 *		267		4 UU
ZINC	P	63 N*	36 N*	45 N*		1530		3 U
% SOLIDS	I	89.6	87.9	85				

AREA	M E T H O D	LAS POSITAS ARROYO LL006035C	LAS POSITAS ARROYO LL007014C	LAS POSITAS ARROYO LL007025C	LAS POSITAS ARROYO LL007036C	LAS POSITAS ARROYO LL008015C	LAS POSITAS ARROYO LL008026C	LAS POSITAS ARROYO LL008037C
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		MG/KG						
		1	1	1	1	1	1	1
ALUMINUM	P	15200 *E	15800 *E	16700 *E	14000 *E	14800 *E	14500 *E	16400 *E
ANTIMONY	PP	4.4 UN	4.3 UN	4.5 UN	4.6 UN	4.4 UN	4.5 UN	4.7 UN
ARSENIC	PP	4.4 UN	4.3 UN	4.5 UN	4.6 UN	4.4 UN	4.5 UN	4.7 UN
BARIUM	PP	238 *	265 *	170 *	185 *	254 *	243 *	303 *
BERYLLIUM	PP	0.58 B	0.59 B	0.62 B	0.51 B	0.52 B	0.51 B	0.6 B
CADMIUM	PP	0.49 B	0.29 B	0.46 B	0.6 B	0.4 B	0.31 B	0.54 B
CALCIUM	P	6830 *E	10300 *E	4780 *E	6550 *E	4120 *E	8070 *E	7560 *E

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TABLE D.2.9 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003010C

AREA	METHOD	LAS POSITAS ARROYO SOIL MG/KG						
LOCATION								
TYPE OF LOCATION		ARROYO						
SAMPLE NUMBER		LL006035C	LL007014C	LL007025C	LL007036C	LL008015C	LL008026C	LL008037C
MATRIX		SOIL						
UNITS		MG/KG						
ENV PROBLEM NO		1	1	1	1	1	1	1
CHROMIUM	P	28 X	35 X	40 X	37 X	27 X	25 X	30 X
COBALT	P	9.7	13	13	11	8.3	8.9	10
COPPER	P	14 NXE	25 NXE	26 NXE	20 NXE	17 NXE	21 NXE	74 NXE
IRON	P	18500 X	24200 X	25300 X	22200 X	16600 X	16300 X	19600 X
LEAD	P	7.9 B	9.3 B	10 B	9.4 B	8.8 B	10 B	11 B
MAGNESIUM	P	4010 X	6740 X	6690 X	5580 X	3320 X	3400 X	4140 X
MANGANESE	P	488 XE	594 XE	556 XE	538 XE	342 XE	432 XE	496 XE
NICKEL	P	22 X	40 X	41 X	37 X	17 X	18 X	21 X
SELENIUM	P	5.9 UN	5.7 UN	6 UN	6.2 UN	5.8 UN	6 UN	6.2 UN
SILVER	P	2.5	2.8	4	5.3	3.7	3.7	4.4
SODIUM	P	1030	640 B	578 B	396 B	716 B	590 B	821
VANADIUM	P	38 X	42 X	47 X	41 X	36 X	37 X	42 X
ZINC	P	39 NX	53 NX	57 NX	49 NX	39 NX	41 NX	47 NX
X SOLIDS	I	88.1	85.7	86.8	87.5	85.6	85	84.8

AREA	METHOD	QA SERIAL DILUTION LL008037C	QA SD X DIFFERENCE LL008037C	QA DUPLICATE LL008037C	QA DUPLICATE RPD LL008037C	QA MATRIX SPIKE LL008037C	QA MS X RECOVERY LL008037C	QA CONTINUING CAL FOUND LLCCV1095 WATER UG/L
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	14600	11	9380	54			99400
ANTIMONY	P	23 U		4.4 U		14		19
ARSENIC	P	23 U		4.4 U		11 B		73
BARIUM	P	302	0.33	171	56	568		90
BERYLLIUM	P	0.72 B		0.34 B		8.1		103
CADMUM	P	1.5 U		0.31 B		8		102
CALCIUM	P	6290	17	4660	67			4920 B
CHROMIUM	P	33		17	55	54		83
COBALT	P	21		6.2 B	3.8	79		95
COPPER	P	82	11	11	63	62		-32
IRON	P	19600	0	11100	55			106000
LEAD	P	23 U		4.4 U		80		95
MAGNESIUM	P	3930	5.1	2380	1760			49400
MANGANESE	P	452	8.9	262	62	551		48500

TABLE D.2.9 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL0080310C

AREA	M	QA	QA	QA	QA	QA	QA	QA	CONTINUING
LOCATION	METHOD	SERIAL DILUTION	SD % DIFFERENCE	DUPPLICATE LL008037C	DUPPLICATE RPD LL008037C	MATRIX SOIL MG/KG	MATRIX SPIKE SOIL MG/KG	MS % RECOVERY LL008037C	CAL FOUND LLCCV1095
TYPE OF LOCATION	HOOD	LL008037C	LL008037C	LL008037C	LL008037C	X	X	X	WATER UG/L
SAMPLE NUMBER									
MATRIX	D	SOIL							
UNITS		MG/KG	%	1	1				
ENV PROBLEM NO.		1	1	1	1				
NICKEL	P	22		13	8	89	93		
SELENIUM	PP	31 U		5.9 U		5.8 U			
SILVER	PP	24		2.9	1.5	11	90		
SODIUM	PP	964		457 B	364				93500
VANADIUM	PP	43	2.4	25	17	108	90		
ZINC	P	47	0	25	61	115	93		
% SOLIDS	I	I	84.8		84.8		84.8		
AREA	M	QA	QA	QA	QA				
LOCATION	METHOD	CONTINUING CAL FOUND LLCCV1167	CONTINUING CAL FOUND LLCCV1202	CONTINUING CAL BLANK LLCCB1016	INTER CHK SDL. A FINAL LLICS1340				
TYPE OF LOCATION	HOOD	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L				
SAMPLE NUMBER									
MATRIX	D								
UNITS									
ENV PROBLEM NO.									
ALUMINUM	P	1000		50 U	486000				
ANTIMONY	PP	971		30 U	30 U				
ARSENIC	PP	959		30 U	30 U				
BARIUM	PP	999		2 U	458				
BERYLLIUM	PP	247		0.3 U	468				
CADMUM	PP	245		2 U	880				
CALCIUM	PP	26400		200 U	502000				
CHROMIUM	PP	260		6 U	486				
COBALT	PP	254		9.5 B	479				
COPPER	PP	262		9.6 B	497				
IRON	PP	1010		20 U	185000				
LEAD	PP	2140		30 U	4390				
MAGNESIUM	PP		5130	10 U	469000				
MANGANESE	PP	260		3.8 B	488				
NICKEL	PP	249		6 U	756				
SELENIUM	PP	932		40 U	40 U				
SILVER	PP	260		19	969				
SODIUM	PP		5520	495 B	1380 B				
VANADIUM	PP	274		4 U	488				
ZINC	P	1540		3 U	947				
% SOLIDS	I	I							

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TABLE D.2.10 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003010K

AREA	M E T H O D	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE ANALYSIS	INITIAL CAL TRUE A	LAB CONTROL SAMPLE TRUE	INITIAL CAL FOUND A	INITIAL CAL BLANK	INITIAL CAL	PREP	PREP
TYPE OF LOCATION		LLLRA1525	LLICV1386	LLLCS1506	LLICV1368	LLICB1321	BLANK	BLANK	BLANK
SAMPLE NUMBER									
MATRIX			WATER	SOIL	WATER	WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	MG/KG	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO									
POTASSIUM	IFEI	8000	1000 B	8150	1100 B	100 U	150 B	150 B	150 B
% SOLIDS	I I								
AREA	M E T H O D	QA	QA	QA					QA
LOCATION		LAB CONTROL SAMPLE	CONTINUING CAL FOUND	CONTINUING CAL BLANK	ARROYO SECO	ARROYO SECO	ARROYO SECO	ARROYO SECO	
TYPE OF LOCATION		LLLCS1481	LLCCV1096	LLCCB1017	ARROYS SN001019D	ARROYS SN001020D	ARROYS SN001031D	ARROYS SN002010D	
SAMPLE NUMBER									
MATRIX		SOIL	WATER	WATER	SOIL	SOIL	SOIL	SOIL	
UNITS		MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	
ENV PROBLEM NO									
POTASSIUM	IFEI	9400	1000 B	100 U	2100	2400	1900	3400	
% SOLIDS	I I				99.2	98.9	99.4	68.7	
AREA	M E T H O D								QA
LOCATION		ARROYO SECO ARROYS	ARROYO SECO ARROYS	ARROYO SECO ARROYS	ARROYO SECO ARROYS	ARROYO SECO ARROYS	GSA AREA WELLS	CONTINUING CAL FOUND	
TYPE OF LOCATION		SN002021D	SN002032D	SN003011D	SN003022D	SN003033D	LL036019C	LLCCV1097	
SAMPLE NUMBER									
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	
ENV PROBLEM NO		1	1	1	1	1	1	9	
POTASSIUM	IFEI	2100	1700	1800	2700	2300	5300	1100 B	
% SOLIDS	I I	97.8	98.4	98.4	97.6	98.4	76		

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TABLE D.2.10 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003010K

AREA	M	QA	QA	QA	GSA AREA	GSA AREA	DUPPLICATE	N OF 4TH ST
LOCATION	E	CONTINUING	CONTINUING	CONTINUING	WELLS	WELLS	LL036031C	ARROYO
TYPE OF LOCATION	T	CAL BLANK	CAL FOUND	CAL BLANK	LL036020C	LL036031C	LL036031C	LL011010C
SAMPLE NUMBER	H	LLCCB1018	LLCCV1098	LLCCB1019				
MATRIX	O	WATER	WATER	WATER	SOIL	SOIL	SOIL	SOIL
UNITS	D	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO					9	9	9	1
POTASSIUM	[FE]	100 U	1100 B	100 U	5400	5700	5800	3800
% SOLIDS	I	I			75.2	75.7	75.7	85.7
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	DUPPLICATE	N OF 4TH ST	N OF 4TH ST	BLDG. 612	BLDG. 612	CONTINUING	CONTINUING
TYPE OF LOCATION	T	RPD	ARROYO	ARROYO	DITCH	DITCH	CAL FOUND	CAL BLANK
SAMPLE NUMBER	H	LL036031C	LL011021C	LL011032C	LL013012C	LL013023C	LLCCV1099	LLCCB1020
MATRIX	O	%	SOIL	SOIL	SOIL	SOIL	WATER	WATER
UNITS	D	9	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO		1	1	1	3	3		
POTASSIUM	[FE]	1.7	3300	3100	3700	2700	1100 B	100 U
% SOLIDS	I	I	90.8	85.1	83	89.9		
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	CONTINUING	CONTINUING	PREP	PREP	LAB CONTROL	CONTINUING	CONTINUING
TYPE OF LOCATION	T	CAL FOUND	CAL BLANK	BLANK	BLANK	SAMPLE	CAL FOUND	CAL BLANK
SAMPLE NUMBER	H	LLCCV1100	LLCCB1021	LLPB01556	LLPB01557	LLLCS1482	LLCCV1101	LLCCB1022
MATRIX	O	WATER	WATER	WATER	WATER	SOIL	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	MG/KG	UG/L	UG/L
ENV PROBLEM NO								
POTASSIUM	[FE]	1100 B	100 U	100 U	100 U	9600	1100 B	100 U
% SOLIDS	I	I						

TABLE D.2.10 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003010K

AREA	METHOD	TRAILER STG ARROYO LL003010C	TRAILER STG ARROYO LL003021C	TRAILER STG ARROYO LL003032C	LAS POSITAS ARROYO LL005012C	LAS POSITAS ARROYO LL005023C	LAS POSITAS ARROYO LL005034C	LAS POSITAS ARROYO LL006013C
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		1	1	1	1	1	1	1
POTASSIUM	IFEI	2600	2700	3200	2400	2400	5900	2500
% SOLIDS	I I	91.5	89.3	88.4	96.6	89.4	89.6	87.9
AREA	METHOD	LAS POSITAS ARROYO LL006024C	LAS POSITAS ARROYO LL006035C	LAS POSITAS ARROYO LL007014C	CONTINUING CAL FOUND LLCCV1102	CONTINUING CAL BLANK LLCCB1023	LAS POSITAS ARROYO LL007025C	LAS POSITAS ARROYO LL007036C
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX		SOIL	SOIL	SOIL	WATER	WATER	SOIL	SOIL
UNITS		MG/KG	MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO		1	1	1			1	1
POTASSIUM	IFEI	3200	2500	3100	1100 B	100 U	2700	2500
% SOLIDS	I I	85	88.1	85.7			86.8	87.5
AREA	METHOD	LAS POSITAS ARROYO LL008015C	LAS POSITAS ARROYO LL008026C	CONTINUING CAL FOUND LLCCV1103	CONTINUING CAL BLANK LLCCB1024	LAS POSITAS ARROYO LL008037C	DUPLICATE LL008037C	CONTINUING CAL FOUND LLCCV1104
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX		SOIL	SOIL	WATER	WATER	SOIL	SOIL	WATER
UNITS		MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG	UG/L
ENV PROBLEM NO		1	1			1	1	
POTASSIUM	IFEI	2500	2400	1100 B	100 U	2900	2600	1100 B
% SOLIDS	I I	85.6	85			84.8	84.8	

TABLE D.2.10 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003010K

AREA	METHOD	QA DUPLICATE RPD LL008037C %	QA CONTINUING CAL BLANK LLCCB1025 WATER UG/L 1
POTASSIUM	F E	300	100 U
% SOLIDS			

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TABLE D.2.11 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043F

AREA	M E T H O D	QA LINEAR RANGE ANALYSIS LLLRA1526	QA INTER CHK SOL. A TRUE LLICS1357	QA INITIAL CAL TRUE A LLICV1387	QA INITIAL CAL TRUE B LLICV1410	QA INITIAL CAL TRUE C LLICV1426	QA LAB CONTROL SAMPLE TRUE LLLCS1507	QA LAB CONTROL SAMPLE TRUE LLCS1508
		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ALUMINUM	P	7500	508000	100000	990		970	990
ANTIMONY	P	10000		1000			990	1000
ARSENIC	P	20000		1000			1000	1000
BARIUM	P	5000	483		990		970	990
BERYLLIUM	P	1500	474		240		960	240
CADMUM	P	5000	909		244		940	244
CALCIUM	P	10000	516000		24900	5000	1000 B	24900
CHROMIUM	P	10000	513		253		1030	253
COBALT	P	10000	478		237		1000	237
COPPER	P	10000	534		271		1030	271
IRON	P	12000	203000	100000	995		1020	995
LEAD	P	50000	4850		2250		1010	2250
MAGNESIUM	P	12000	509000	50000		5000	1000 B	12500
MANGANESE	P	2500	531	50000	256		1020	256
NICKEL	P	15000	916		248		1020	248
SELENIUM	P	10000			1000		990	1000
SILVER	P	10000	993		254		990	254
SODIUM	P	10000		100000		5000	860 B	25300
VANADIUM	P	10000	475		255		1010	255
ZINC	P	6000	973		1550		1010	1550
% SOLIDS								
AREA	M E T H O D	QA INITIAL CAL FOUND A LLICV1369	QA INITIAL CAL FOUND B LLICV1402	QA INITIAL CAL FOUND C LLICV1418	QA INITIAL CAL BLANK LLICB1322	QA INTER CHK SOL. A INIT LLICS1349	QA PREP BLANK LLPB01558	QA PREP BLANK LLPB01559
		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ALUMINUM	P	103000	1050		60 U	497000	60 U	60 U
ANTIMONY	P		1010		30 U		30 U	30 U
ARSENIC	P		979		30 U		30 U	30 U
BARIUM	P		986		2 U	455	2.8 B	2 U
BERYLLIUM	P		248		0.3 U	439	0.3 U	0.3 U
CADMUM	P		251		2 U	854	2 U	2 U
CALCIUM	P		27000	4990 B	200 U	494000	200 U	200 U

TABLE D.2.11 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043F

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL FOUND A LLICV1369	INITIAL CAL FOUND B LLICV1402	INITIAL CAL FOUND C LLICV1418	INITIAL CAL BLANK LLICB1322	INITIAL CAL SOL. A INIT LLICS1349	INTER CHK	PREP BLANK LLPB01558	PREP BLANK LLPB01559
TYPE OF LOCATION		WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L
SAMPLE NUMBER									
MATRIX									
UNITS									
ENV PROBLEM NO									
CHROMIUM	P		266		6 U	461	6 U		6 U
COBALT	PP		253		3 U	432	3 U		3 U
COPPER	PP		259		10 U	502	10 U		10 U
IRON	PP	100000	973		20 U	181000	45 B		33 B
LEAD	PP		2150		30 U	4160	30 U		30 U
MAGNESIUM	PP	50800		4970 B	10 U	484000	10 U		10 U
MANGANESE	PP	48100	253		5 U	476	5 U		5 U
NICKEL	PP		243		6 U	820	6 U		6 U
SELENIUM	PP		1040		50 U		50 U		50 U
SILVER	PP		245		6 U	917	6 U		6 U
SODIUM	PP	104000		5080	200 U		200 U		200 U
VANADIUM	PP		271		4 U	456	4 U		4 U
ZINC	P		1490		3 U	914	29		15 B
% SOLIDS	I	I							

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AREA	METHOD	QA	QA	QA	QA	QA	QA	CONTINUING
LOCATION		LAB CONTROL SAMPLE LLLCS1483	TRAILER STG ARROYO LL003043F	LAS POSITAS ARROYO LL006046F	BLDG. 169 SEWERS LL012088B	BLDG. 298 SEWERS LL012204B	BLDG. 321 SEWERS LL012237B	CAL FOUND LLCCV1105
TYPE OF LOCATION		WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	1190	629	98 B	180 B	300	269	100000
ANTIMONY	PP	1060	30 U	30 U	30 U	30 U	30 U	
ARSENIC	PP	1070	30 UN	30 UN	30 UN	30 UN	30 UN	
BARIUM	P	1070	11 B	3.1 B	6.9 B	27 B	25 B	
BERYLLIUM	PP	1040	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
CADMIUM	PP	942	2.6 B	2 U	2.4 B	3 B	3.4 B	
CALCIUM	PP	1030 B	207 B	200 U	7000	8890	9440	
CHROMIUM	PP	1050	18	6 U	6 U	6 U	6 U	
COBALT	PP	1040	3 U	3 U	3 U	3	3 U	
COPPER	P	1010	11 B	10 U	33	42	123	
IRON	PP	1050	528	173	350	608	863	101000
LEAD	P	1040	30 U	30 U	30 U	30 U	34 B	
MAGNESIUM	P	1030 B	160 B	12 B	1110 B	1530 B	1530 B	50900
MANGANESE	P	1040	15 B	5 U	18	29	32	55000

TABLE D.2.11 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043F

AREA	METHOD	QA	LAB CONTROL	TRAILER STG	LAS POSITAS	BLDG. 169	BLDG. 298	BLDG. 321	QA
LOCATION	SAMPLE		ARROYO	ARROYO	SEWERS	SEWERS	SEWERS	SEWERS	CONTINUING
TYPE OF LOCATION	NUMBER		LL003043F	LL006046F	LL012088B	LL012204B	LL012237B	LL012237B	CAL FOUND
MATRIX			WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS			UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO			1	1	2	2	2	2	2
NICKEL	P	1030	12 B	6.6 B	46	8.3 B	21 B		
SELENIUM	P	1090	50 UN	50 UN	50 UN	50 UN	50 UN		
SILVER	P	1000	6 U	6 U	26	98	6 U		
SODIUM	P	1050 B	597 B	292 B	16800	24400	27700		90400
VANADIUM	P	1040	4 U	4 U	4 U	4 U	4 U		
ZINC	P	1060	27 E	3 UE	385 E	134 E	124 E		
% SOLIDS									
AREA	METHOD	QA	QA	QA					
LOCATION	CONTINUING	CONTINUING	CONTINUING		BLDG. 322	BLDG. 511	BLDG. 131	BLDG. 222	
TYPE OF LOCATION	CAL FOUND	CAL FOUND	CAL BLANK		SEWERS	SEWERS	SEWERS	SEWERS	
SAMPLE NUMBER	LLCCV1168	LLCCV1203	LLCCB1026		LL012260B	LL012704B	LL012022B	LL912021B	
MATRIX	WATER	WATER	WATER		WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L		UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO					2	2	2	2	
ALUMINUM	P	1060			60 U	107 B	60 U	528	197 B
ANTIMONY	P	1010			30 U	30 U	30 U	30 U	30 U
ARSENIC	P	991			30 U	30 UN	30 UN	30 UN	30 UN
BARIUM	P	995			2 U	5 B	2 U	39 B	14 B
BERYLLIUM	P	249			0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CADMUM	P	255			2 U	2 U	2 U	2.2 B	2 U
CALCIUM	P	27200	5090	200 U	4250 B	200 U	8580	6450	388 U
CHROMIUM	P	259			6 U	10	6 U	67	63
COBALT	P	252			3 U	3 U	3 U	3 U	3 U
COPPER	P	255			10 U	187	10 U	837	250
IRON	P	968			20 U	174	33 B	765	632 B
LEAD	P	2160			30 U	30 U	30 U	28	13 B
MAGNESIUM	P		4790 B	10 U	347 B	10 U	1330 B	56700	9410
MANGANESE	P	254			5 U	9.8 B	5 U	28 B	47 B
NICKEL	P	249			6 U	124	6.2 B	50 UN	50 UN
SELENIUM	P	1060			50 U	50 UN	50 UN		
SILVER	P	229			6 U	6 U	72		18
SODIUM	P		5040	200 U	3660 B	200 U	56700		
VANADIUM	P	261			4 U	4 U	4 U		
ZINC	P	1460			3 U	42 E	185 E		79 E
% SOLIDS									

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TABLE D.2.11 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043F

AREA	M	BLDG. 511 SEWERS LL012680B	BLDG. 222 SEWERS LL012135C	BLDG. 241 SEWERS LL012168B	BLDG. 511 SEWERS LL012317C	BLDG. 151 SEWERS LL012044C	BLDG. 331 SEWERS LL012282C	CONTINUING CAL FOUND LLCCV1169	QA
LOCATION	T								
TYPE OF LOCATION	H								
SAMPLE NUMBER	O								
MATRIX	D	WATER							
UNITS		UG/L							
ENV PROBLEM NO		2	2	2	2	2	2	2	
ALUMINUM	P	158 B	219	135 B	232	268	278	1040	
ANTIMONY	P	30 U	30 U	30 U	30 UN	30 U	30 U	1020	
ARSENIC	P	30 UN	993						
BARIUM	P	3.3 B	26 B	9.2 B	18 B	15 B	25 B	1000	
BERYLLIUM	P	0.3 U	249						
CADMUM	P	2.3 B	4.4 B	2.7 B	33	3 B	4 B	256	
CALCIUM	P	200 U	8740	6790	6800	8850	11800	27300	
CHROMIUM	P	6 U	18	6 U	12	6.5 B	32	259	
COBALT	P	3 U	3 U	3 U	3 U	3 U	3 U	249	
COPPER	P	10 U	61	27	61	177	1900	259	
IRON	P	127	1090	1060	692	1040	926	971	
LEAD	P	30 U	40 B	30 U	83 B	35 B	30 U	2130	
MAGNESIUM	P	11 B	1330 B	855 B	1080 B	1690 B	2160 B		
MANGANESE	P	5 U	26	18	29	32	27	255	
NICKEL	P	8.3 B	17 B	7.2 B	6.9 B	10 B	9.4 B	250	
SELENIUM	P	50 UN	1060						
SILVER	P	6 U	6 U	6 U	6 U	10	6.1 B	229	
SODIUM	P	415 B	14600	10400	9260	16200	26000		
VANADIUM	P	4 U	4 U	4 U	4 U	4 U	4 U	260	
ZINC	P	4 BE	131 E	30 E	195 E	132 E	278 E	1460	
% SOLIDS	I	I							

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AREA	M	QA	QA	QA	BLDG. 321 SEWERS LL012248B	BLDG. 298 SEWERS LL012215B	BLDG. 322 SEWERS LL012271B	BLDG. 169 SEWERS LL012099B	
LOCATION	T	CONTINUING	CONTINUING	CONTINUING					
TYPE OF LOCATION	H	CAL FOUND	CAL BLANK	CAL FOUND					
SAMPLE NUMBER	O	LLCCV1204	LLCCB1027	LLCCV1106					
MATRIX	D	WATER	WATER	WATER					
UNITS		UG/L	UG/L	UG/L					
ENV PROBLEM NO					2	2	2	2	
ALUMINUM	P		60 U	99700	231	266	69 B	174 B	
ANTIMONY	P		30 U		30 U	30 U	30 U	30 U	
ARSENIC	P		30 U		30 UN	30 UN	30 UN	30 UN	
BARIUM	P		2 U		18 B	42 B	4.9 B	14 B	
BERYLLIUM	P		0.3 U		0.3 U	3.5 B	0.3 U	0.3 U	
CADMUM	P		2 U		2 U	3.6 B	2 U	3.4 B	
CALCIUM	P	5100	200 U		8470	8470	2950 B	8050	

TABLE D.2.11 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043F

AREA	M	QA	QA	QA	BLDG. 321	BLDG. 298	BLDG. 322	BLDG. 169
LOCATION	E	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL FOUND	SEWERS	SEWERS	SEWERS	SEWERS
TYPE OF LOCATION	T	LLCCV1204	LLCCB1027	LLCCV1106	LL012248B	LL012215B	LL012271B	LL012099B
SAMPLE NUMBER	H	WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX	O	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS	D				2	2	2	2
ENV PROBLEM NO								
CHROMIUM	P			6 U	6 U	11	162	6 U
COBALT	P			3 U	3 U	3 U	3 U	3 U
COPPER	P			10 U	124	49	45	66
IRON	P			20 U	471	1060	280	404
LEAD	P			30 U	54 B	30 U	30 U	30 U
MAGNESIUM	P	4780 B		10 U	1520 B	1620 B	221 B	1610 B
MANGANESE	P			5 U	20	29	6.6 B	19
NICKEL	P			6 U	7.2 B	11 B	76	16 B
SELENIUM	P			50 U	50 UN	50 UN	77 BN	50 UN
SILVER	P			6 U	6 U	144	6 U	125
SODIUM	P	5080		200 U	22700	36500	2090 B	31100
VANADIUM	P			4 U	4 U	4 U	4 U	4 U
ZINC	P			3 U	133 E	190 E	26 E	287 E

## X SOLIDS

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	SERIAL DILUTION	SD % DIFFERENCE	DUPLICATE	DUPLICATE	MATRIX SPIKE	MS X RECOVERY	PREP
TYPE OF LOCATION	T	LL012099B	LL012099B	LL012099B	LL012099B	LL012099B	LL012099B	BLANK
SAMPLE NUMBER	H	WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX	O	UG/L	%	UG/L	%	UG/L	%	UG/L
UNITS	D	2	2	2	2	2	2	2
ENV PROBLEM NO								
ALUMINUM	P	300 U		192 B		2510	117	60 U
ANTIMONY	P	150 U		30 U		532	106	30 U
ARSENIC	P	150 U		30 U		134 B	134	30 U
BARIUM	P	17 B		11 B		2010	100	60 B
BERYLLIUM	P	1.5 U		0.3 U		54	108	0.3 U
CADMIUM	P	12		4.5 B		52	97	2 U
CALCIUM	P	8070		8070	20	8190		200 U
CHROMIUM	P	30 U		6 U		219	109	6 U
COBALT	P	15 U		3 U		527	105	3 U
COPPER	P	69		66	0	333	107	10 U
IRON	P	466		413	9	1390	99	40 B
LEAD	P	150 U		30 U		533	107	30 U
MAGNESIUM	P	1620 B	0.62	1610 B		1630 B		10 B
MANGANESE	P	28		19	0	233	107	5

TABLE D.2.11 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043F

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	SERIAL	SD %	DUPLICATE	DUPLICATE	MATRIX	MS %	PREP
TYPE OF LOCATION	T	DILUTION	DIFFERENCE	RPD	LL012099B	SPIKE	RECOVERY	BLANK
SAMPLE NUMBER	H	LL012099B	LL012099B	LL012099B	LL012099B	LL012099B	LL012099B	LLPB01560
MATRIX	O	WATER		WATER		WATER		WATER
UNITS	D	UG/L	x	UG/L	x	UG/L	x	UG/L
ENV PROBLEM NO		2	2	2	2	2	2	
NICKEL	P	30 U		17 B		441	106	6 U
SELENIUM	P	250 U		50 U		61 B	122	50 U
SILVER	P	120		121		173	96	6 U
SODIUM	P	28000	10	32100	3.3	31900		200 U
VANADIUM	P	20 U		4 U	3.2	543	109	4 U
ZINC	P	327	14	304	5.8	504	108	11 B
% SOLIDS	I	I						
AREA	M	QA	QA	QA	QA	QA	QA	GSA AREA
LOCATION	E	PREP	LAB CONTROL	CONTINUING	CONTINUING	CONTINUING	CONTINUING	WELLS
TYPE OF LOCATION	T	BLANK	SAMPLE	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	LL036224F
SAMPLE NUMBER	H	LLPB01561	LLLCSI484	LLCCV1107	LLCCV1170	LLCCV1205	LLCCB1028	WATER
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER	UG/L
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	9
ENV PROBLEM NO								
ALUMINUM	P	60 U	1090	101000	1050		60 U	77 B
ANTIMONY	P	30 U	1060		975		30 U	30 U
ARSENIC	P	30 U	1100		981		30 U	30 UN
BARIUM	P	5 B	1010		970		2 U	2 U
BERYLLIUM	P	0.3 U	255		244		0.3 U	0.3 U
CADMIUM	P	2 U	252		247		2 U	2 U
CALCIUM	P	200 U	27700		26900	4950 B	200 U	200 U
CHROMIUM	P	6 U	268		256		6 U	6 U
COBALT	P	3 U	256		249		3 U	3 U
COPPER	P	10 U	272		260		10 U	10 U
IRON	P	32 B	996	99600	964		20 U	62 B
LEAD	P	30 U	2180		2120		30 U	58 B
MAGNESIUM	P	10 U	13200	50900		5050	10 U	32 B
MANGANESE	P	5 U	260	50500	253		5 U	5.4 B
NICKEL	P	6 U	246		238		6 U	6 U
SELENIUM	P	50 U	1140		1040		50 U	50 UN
SILVER	P	6 U	244		240		6 U	6 U
SODIUM	P	200 U	28000	108000		4910 B	200 U	200 U
VANADIUM	P	4 U	274		266		4 U	4 U
ZINC	P	3.2 B	1530		1480		3 U	112 E
% SOLIDS	I	I						

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TABLE D.2.11 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043F

AREA	METHOD	BLDG. 131 SEWERS LL012033B	BLDG. 913 BLDG 913 SN005013I	ARROYO SECO ARROYOS SN001042F	BLDG. 222 TANK LL021012H	BLDG. 222 TANK LL020011H	BLDG. 298 TANK LL024015H	SPRAY BOOTH SPRAY BOOTH SN006047H
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		UG/L 2	UG/L 2	UG/L 1	UG/L 4	UG/L 4	UG/L 4	UG/L 3
ALUMINUM	P	237	2770	252	428	372	560	60 U
ANTIMONY	PP	30 U	30 U	30 U	30 U	30 U	30 U	30 U
ARSENIC	P	30 UN	30 UN	30 UN	30 UN	31 BN	30 UN	30 UN
BARIUM	P	16 B	43 B	7.5 B	91 B	60 B	29 B	2 U
BERYLLIUM	PP	0.3 U	5.7	0.3 U	0.3 U	0.3 U	164	0.3 U
CADMUM	PP	3.7 B	16	2 U	12	8	4.6 B	2 U
CALCIUM	PP	7390	11000	200 U	7250	7580	6940	200 U
CHROMIUM	P	93	593	6 U	193	160	95	6 U
COBALT	P	3 U	40 B	3 U	32 B	3 U	3 U	3 U
COPPER	PP	329	6370	10 U	279	101	509	10 U
IRON	PP	542	7870	426	5100	8770	910	99 B
LEAD	P	104 B	386	30 U	173 B	110 B	198 B	30 U
MAGNESIUM	P	1300 B	1100 B	66 B	1350 B	1760 B	1040 B	18 B
MANGANESE	P	21	150	7.9 B	48	70	35	5 U
NICKEL	P	25 B	795	8.3 B	63	166	17 B	6.7 B
SELENIUM	PP	50 UN	50 UN	50 UN	50 UN	50 UN	50 UN	50 UN
SILVER	P	18	6 U	6 U	54	13	6 U	6 U
SODIUM	PP	23200	6000	200 U	86700	50100	17600	200 U
VANADIUM	P	4 U	4.1 B	4 U	4.6 B	8 B	4 U	4 U
ZINC	P	135 E	2440 E	22 E	143 E	157 E	202 E	16 BE

## X SOLIDS

AREA	METHOD	SPRAY BOOTH SPRAY BOOTH SN006014I	SPRAY BOOTH SPRAY BOOTH SN006025I	CONTINUING CAL FOUND LLCCV1108	CONTINUING CAL FOUND LLCCV1171	CONTINUING CAL FOUND LLCCV1206	CONTINUING CAL BLANK LLCCB1029	SPRAY BOOTH SPRAY BOOTH SN006036I
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		UG/L 3	UG/L 3	UG/L	UG/L	UG/L	UG/L	UG/L 3
ALUMINUM	P	95 B	117 B	102000	1030		60 U	98 B
ANTIMONY	PP	30 U	30 U		994		30 U	30 U
ARSENIC	P	30 UN	30 UN		989		30 U	30 UN
BARIUM	P	87 B	102 B		969		2 U	94 B
BERYLLIUM	PP	0.3 U	0.3 U		245		0.3 U	0.3 U
CADMUM	PP	3 B	4.3 B		247		2 U	3.2 B
CALCIUM	P	15600	16700		26700	4930 B	200 U	15500

TABLE D.2.11 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043F

AREA	METHOD	SPRAY BOOTH SPRAY BOOTH	SPRAY BOOTH SPRAY BOOTH	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK	SPRAY BOOTH SPRAY BOOTH
LOCATION		SN006014I	SN006025I	LLCCV1108	LLCCV1171	LLCCV1206	LLCCB1029	SN006036I
TYPE OF LOCATION		WATER	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE NUMBER		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
MATRIX		3	3					
UNITS								
ENV PROBLEM NO								
CHROMIUM	P	402	441		251		6 U	388
COBALT	P	3 U	3 U		248		3 U	3 U
COPPER	P	10 U	10 U		259		10 U	10 U
IRON	P	6140	6630	101000		962	20 U	5820
LEAD	P	30 U	30 U		2110		30 U	30 U
MAGNESIUM	P	568 B	602 B	50800		4850 B	10 U	537 B
MANGANESE	P	76	81	50300		253	5 U	76
NICKEL	P	6.1 B	6 B		240		6 U	6 U
SELENIUM	P	50 UN	50 UN		1050		50 UN	50 UN
SILVER	P	6 U	6 U		232		6 U	6 U
SODIUM	P	3790 B	4100 B	108000		4830 B	200 U	3910 B
VANADIUM	P	4 U	4 U		264		4 U	4 U
ZINC	P	158 E	171 E		1470		3 U	158 E
% SOLIDS	I							

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AREA	METHOD	BLDG. 151 SEWERS	BLDG. 511 SEWERS	BLDG. 222 SEWERS	BLDG. 241 SEWERS	BLDG. 222 SEWERS	BLDG. 331 SEWERS	BLDG. 321 SUMP
LOCATION		LL012055B	LL012328B	LL012146B	LL012179B	LL912032B	LL012293B	LL025016L
TYPE OF LOCATION		WATER	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE NUMBER		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
MATRIX		2	2	2	2	2	2	4
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	163 B	151 B	142 B	189 B	1350	173 B	8320
ANTIMONY	P	30 U	30 U	30 U	30 U	78	30 U	100
ARSENIC	P	30 UN	33 BN	30 UN				
BARIUM	P	9.9 B	11 B	13 B	12 B	156 B	14 B	1040
BERYLLIUM	P	0.3 UU	0.3 UU					
CADMIUM	P	2 U	3 B	2 U	2.7 B	6460	9660	8660
CALCIUM	P	9370	6180	7640	9890	6460	25	69
CHROMIUM	P	6 U	6 U	6 U	6 U	6.6 B	3 U	93
COBALT	P	3 U	3 U	3 U	3 U	3 U	3 U	3 U
COPPER	P	47	24 B	31	36	41	626	4330
IRON	P	317	289	230	352	294	360	18500
LEAD	P	30 U	2700					
MAGNESIUM	P	1400 B	621 B	1000 B	1460 B	880 B	1780 B	4770 B
MANGANESE	P	18	16	15 B	21	20	18	472

TABLE D.2.11 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043F

AREA	M	BLDG. 151	BLDG. 511	BLDG. 222	BLDG. 241	BLDG. 222	BLDG. 331	BLDG. 321
LOCATION	T	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SUMP
TYPE OF LOCATION	H	LL012055B	LL012328B	LL012146B	LL012179B	LL912032B	LL012293B	LL025016L
SAMPLE NUMBER	O	WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS		2	2	2	2	2	2	4
ENV PROBLEM NO								
NICKEL	P	6 U	7.2 B	6.5 B	7 B	92	6 U	181
SELENIUM	P	50 UN	50 UN	50 UN	50 UN	50 UN	50 UN	51 BN
SILVER	P	29	6 U	6 U	34	77	36	8.8 B
SODIUM	P	23100	10900	14000	20100	11800	33000	74800
VANADIUM	P	4 U	4 U	4 U	4 U	4 U	4 U	8.8 B
ZINC	P	64 E	72 E	97 E	72 E	63 E	158 E	1470 E
% SOLIDS	I	I	I	I	I	I	I	I
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	T	BLDG. 492	CONTINUING	CONTINUING	CONTINUING	CONTINUING	BLDG. 913	SERIAL
TYPE OF LOCATION	H	SUMP	CAL FOUND	CAL BLANK	CAL FOUND	CAL FOUND	BLDG 913	DILUTION
SAMPLE NUMBER	O	LL026017H	LLCCV1109	LLCCB1030	LLCCV1172	LLCCV1207	SN005057H	SN005057H
MATRIX	D	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		4					2	2
ALUMINUM	P	572	94200	60 U	1020		60 U	300 U
ANTIMONY	P	50 B		30 U	1000		30 U	150 U
ARSENIC	P	30 UN		30 U	960		30 UN	150 U
BARIUM	P	200 B		2 U	985		2 U	10 U
BERYLLIUM	P	0.6 B		0.3 U	235		0.3 U	1.5 U
CADMUM	P	13		2 U	253		2 U	10 U
CALCIUM	P	56500		200 U	25800	4950 B	200 U	1000 U
CHROMIUM	P	76		6 U	239		6 U	30 U
COBALT	P	10 B		3 U	227		3 U	15 U
COPPER	P	74		10 U	259		10 U	50 U
IRON	P	171000	97400	20 U	903		72 B	136
LEAD	P	183 B		30 U	2130		30 U	150 U
MAGNESIUM	P	7000	48700	10 U		4930 B	16 B	50 U
MANGANESE	P	1290	50300	5 U	242		5 U	25 U
NICKEL	P	137		6 U	248		6 U	30 U
SELENIUM	P	50 UN		50 U	1030		50 UN	250 U
SILVER	P	6 U		6 U	242		6 U	30 U
SODIUM	P	104000	94600	200 U		4790 B	200 U	1000 U
VANADIUM	P	7.5 B		4 U	275		4 U	20 U
ZINC	P	8610 E		3 U	1490		11 BE	15 U
% SOLIDS	I	I	I	I	I	I	I	I

TABLE D.2.11 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043F

AREA	METHOD	QA DUPLICATE	QA MATRIX SPIKE	QA MS % RECOVERY	QA CONTINUING CAL FOUND	QA CONTINUING CAL FOUND	QA CONTINUING CAL FOUND	QA CONTINUING CAL BLANK
LOCATION		SN005057H	SN005057H	SN005057H	LLCCV1110	LLCCV1173	LLCCV1208	LLCCB1031
TYPE OF LOCATION		WATER	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE NUMBER		UG/L	UG/L	%	UG/L	UG/L	UG/L	UG/L
MATRIX		2	2	2				
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	60 U	2070	103	95400	1030		60 U
ANTIMONY	P	30 U	476	95		989		30 U
ARSENIC	P	30 U	110 B	110		960		30 U
BARIUM	P	2 U	1970	98		984		2 U
BERYLLIUM	PP	0.3 U	50	100		237		0.3 U
CADMUM	PP	2.3 B	52	104		251		2 U
CALCIUM	PP	200 U	200 U			25900	4950 B	200 U
CHROMIUM	PP	6 U	196	98		240		6 U
COBALT	P	3 U	446	89		228		3 U
COPPER	P	10 U	251	100		264		10 U
IRON	P	74 B	953	88	98200	915		20 U
LEAD	P	30 U	499	100		2150		30 U
MAGNESIUM	P	21 B	18 B		49100		5010	10 U
MANGANESE	PP	5 U	201	100	50700	245		5 U
NICKEL	PP	7 B	426	106		243		6 U
SELENIUM	PP	50 U	66 B	132		1020		50 U
SILVER	PP	6 U	50	100		248		6 U
SODIUM	PP	200 U	200 U		95300	280		200 U
VANADIUM	P	4 U	489	98		1520		4 U
ZINC	P	9.1 B	228	108				3 U
X SOLIDS								

AREA	METHOD	QA
LOCATION		INTER CHK
TYPE OF LOCATION		SOL. A FINAL
SAMPLE NUMBER		LLICS1341
MATRIX		WATER
UNITS		UG/L
ENV PROBLEM NO		

ALUMINUM	P	466000
ANTIMONY	PP	
ARSENIC	PP	454
BARIUM	PP	418
BERYLLIUM	P	860
CADMUM	P	472000
CALCIUM		

TABLE D.2.11 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043F

AREA	M E T H O D	QA
LOCATION		INTER CHK
TYPE OF LOCATION		SOL. A FINAL
SAMPLE NUMBER		LLICCS1341
MATRIX		WATER
UNITS		UG/L
ENV PROBLEM NO		
CHROMIUM	P	435
COBALT	P	407
COPPER	P	507
IRON	P	173000
LEAD	P	4210
MAGNESIUM	P	469000
MANGANESE	P	458
NICKEL	P	827
SELENIUM		
SILVER	P	951
SODIUM	P	
VANADIUM	P	475
ZINC	P	927
% SOLIDS	I	I

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TABLE D.2.12 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043K

AREA	METHOD	QA LINEAR RANGE ANALYSIS LLLRA1527	QA INITIAL CAL TRUE A LLICV1388	QA LAB CONTROL SAMPLE TRUE LLCS1509	QA PREP BLANK LLPB01562	QA PREP BLANK LLPB01563	QA LAB CONTROL SAMPLE LLCS1485	QA INITIAL CAL FOUND A LLICV1370
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L
POTASSIUM	F/E	8000	1000 B	.10000	100 U	100 U	9100	1000 B
% SOLIDS								
AREA	METHOD	QA INITIAL CAL BLANK LLICB1323	TRAILER STG ARROYO LL003043F	LAS POSITAS ARROYO LL006046F	GSA AREA WELLS LL036224F	BLDG. 322 SEWERS LL012260B	BLDG. 511 SEWERS LL012704B	BLDG. 169 SEWERS LL012088B
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L
POTASSIUM	F/E	100 U	200 B	100	100 U	4000 B	100 U	27000
% SOLIDS								
AREA	METHOD	QA BLDG. 298 SEWERS LL012204B	BLDG. 321 SEWERS LL012237B	BLDG. 131 SEWERS LL012022B	CONTINUING CAL FOUND LLCCV1111	CONTINUING CAL BLANK LLCCB1032	BLDG. 511 SEWERS LL012680B	BLDG. 511 SEWERS LL012317C
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L
POTASSIUM	F/E	24000	18000	20000	1000 B	100 U	100 U	6100
% SOLIDS								

TABLE D.2.12 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043K

AREA	METHOD	BLDG. 222 SEWERS LL912021B	BLDG. 222 SEWERS LL012135C	BLDG. 241 SEWERS LL012168B	QA CONTINUING CAL FOUND LLCCV1112	QA CONTINUING CAL BLANK LLCCB1033	BLDG. 151 SEWERS LL012044C	BLDG. 331 SEWERS LL012282C
POTASSIUM	FEI	11000	11000	14000	1000 B	100 U	23000	14000
% SOLIDS	I	I	I	I	I	I	I	I
AREA	METHOD	BLDG. 322 SEWERS LL012271B	BLDG. 131 SEWERS LL012033B	BLDG. 321 SEWERS LL012248B	BLDG. 298 SEWERS LL012215B	QA CONTINUING CAL FOUND LLCCV1113	CONTINUING CAL BLANK LLCCB1034	BLDG. 169 SEWERS LL012099B
POTASSIUM	FEI	1800 B	26000	18000	22000	1000 B	100 U	23000
% SOLIDS	I	I	I	I	I	I	I	I
AREA	METHOD	QA DUPLICATE RPD LL012099B	QA DUPLICATE BLDG 913 LL012099B	BLDG. 913 ARROYOS SN005013I	ARROYO SECO TANK SN001042F	BLDG. 222 TANK LL021012H	SPRAY BOOTH SPRAY BOOTH SN006047H	SPRAY BOOTH SPRAY BOOTH SN006014I
POTASSIUM	FEI	22000	1000	1300 B	100	4500 B	100 U	760 B
% SOLIDS	I	I	I	I	I	I	I	I

TABLE D.2.12 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043K

AREA	M	QA	QA	QA	QA	QA	QA
LOCATION	H	SPRAY BOOTH	SPRAY BOOTH	CONTINUING	CONTINUING	BLDG. 222	BLDG. 298
TYPE OF LOCATION	O	SPRAY BOOTH	SPRAY BOOTH	CAL FOUND	CAL BLANK	TANK	PREP
SAMPLE NUMBER	D	SN006025I	SN006036I	LLCCV1114	LLCCB1035	LL020011H	BLANK
MATRIX		WATER	WATER	WATER	WATER	WATER	LLPB01564
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	WATER
ENV PROBLEM NO		3	5			4	UG/L
POTASSIUM	IFE	760 B	760 B	1000 B	100 U	10000	12000
% SOLIDS							100 U
AREA	M	QA	QA	QA	QA	QA	QA
LOCATION	H	PREP	LAB CONTROL	CONTINUING	CONTINUING	BLDG. 151	BLDG. 222
TYPE OF LOCATION	O	BLANK	SAMPLE	CAL FOUND	CAL BLANK	SEWERS	SEWERS
SAMPLE NUMBER	D	LLPB01565	LLLCS1486	LLCCV1115	LLCCB1036	LL012055B	LL012146B
MATRIX		WATER	WATER	WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO					2	2	2
POTASSIUM	IFE	100 U	10000	1000 B	100 U	25000	760 B
% SOLIDS							12000
AREA	M	QA	QA	QA	QA	QA	QA
LOCATION	H	BLDG. 241	BLDG. 222	BLDG. 331	BLDG. 321	BLDG. 913	DUPLICATE
TYPE OF LOCATION	O	SEWERS	SEWERS	SEWERS	SUMP	BLDG 913	CONTINUING
SAMPLE NUMBER	D	LL012179B	LL912032B	LL012293B	LL025016L	SN005057H	CAL FOUND
MATRIX		WATER	WATER	WATER	WATER	WATER	LLCCV1116
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	WATER
ENV PROBLEM NO		2	2	2	4	2	UG/L
POTASSIUM	IFE	14000	14000	15000	6300	100 U	100 U
% SOLIDS							1000 B

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**TABLE D.2.12 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL003043K**

AREA	METHOD	QA	BLDG. 492	SUMP	WATER	WATER
LOCATION		CONTINUING				
TYPE OF LOCATION		CAL BLANK				
SAMPLE NUMBER		LLCCB1037				
MATRIX		WATER				
UNITS		UG/L				
ENV PROBLEM NO			4			
POTASSIUM	FEI	100 U	21000			
% SOLIDS	I	I				

TABLE D.2.13 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL005012D

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AREA	M E	QA						
LOCATION	T H	LAB CONTROL	INITIAL CAL	INITIAL CAL	INITIAL CAL	DUPLICATE	LAS POSITAS	MATRIX
TYPE OF LOCATION	O D	SAMPLE TRUE	TRUE A	FOUND A	BLANK 1	LL005012D	ARROYO	SPIKE
SAMPLE NUMBER		LL0700103	LL2AA1003	LL2AA2003	LL03A0003		LL005012D	LL005012D
MATRIX		SOIL		SOIL	SOIL		SOIL	SOIL
UNITS		MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO					1	1	1	1
ARSENIC	F	680	27	25	0.61 U	2.7	2	9.4
CHROMIUM	F	17	50	49	2.2 B	26 *	20 *	31
LEAD	F	5830	43	41	0.44 U	24	20 N	34 N
NICKEL	F	22	50	53	2.4 U	37	34	88
% SOLIDS							95.2	
AREA	M E	QA						
LOCATION	T H	PREP	DUPLICATE	MS %	LAS POSITAS	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION	O D	BLANK	RPD	RECOVERY	ARROYO	CAL FOUND	CAL FOUND	CAL BLANK
SAMPLE NUMBER		LL03A0003	LL005012D	LL005012D	LL005023D	LL2AA4003	LL2AA5003	LL03A1003
MATRIX		SOIL			SOIL			SOIL
UNITS		MG/KG	%	%	MG/KG	UG/L	UG/L	MG/KG
ENV PROBLEM NO			1	1	1			
ARSENIC	F	0.12 U	30	93	2.6	25	25	0.61 U
CHROMIUM	F	0.52 B	26		30 *	52	53	2 B
LEAD	F	0.24 B	4.5	133	42 N	41		0.44 U
NICKEL	F	0.48 U	7.9		43	54	50	2.5 B
% SOLIDS					89.7			
AREA	M E	QA						
LOCATION	T H	CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL	LAB CONTROL	LAS POSITAS	LAS POSITAS
TYPE OF LOCATION	O D	CAL BLANK	CAL BLANK	FOUND A	BLANK 2	SAMPLE	ARROYO	ARROYO
SAMPLE NUMBER		LL03A2003	LL03A3003	LL2AB2003	LL03B0003	LL0700103	LL006013D	LL006024D
MATRIX		SOIL	SOIL		SOIL	SOIL	SOIL	SOIL
UNITS		MG/KG	MG/KG	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO					1	1	1	1
ARSENIC	F	0.61 U	0.61 U		0.61 U	603	2.9	3.7
CHROMIUM	F	1.6 B		50	1.5 B	13	22 *	25 *
LEAD	F			47	1.4 U	5710	5.1 N	5.8 N
NICKEL	F	2.4 U		53	2.4 U	19	28	38
% SOLIDS							86.6	84.2

TABLE D.2.13 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL005012D

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AREA	METHOD	QA CONTINUING CAL FOUND LL2AB4003	QA CONTINUING CAL BLANK LL03B4003	LAS POSITAS ARROYO LL006035D	LAS POSITAS ARROYO LL007014D	LAS POSITAS ARROYO LL007025D	LAS POSITAS ARROYO LL007036D	LAS POSITAS ARROYO LL008015D
LOCATION		UG/L	MG/KG	1	1	1	1	1
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ARSENIC	F	26	0.7 B	2.5	4	4.2	3.8	2.4
CHROMIUM	FF	45	1.1 B	21 *	38 *	33 *	36 *	21 *
LEAD	FF	45	0.44 U	5.8 N	8.2 N	8.7 N	7.1 N	5.5 N
NICKEL	F	49	2.4 U	26	64	64	40	21
% SOLIDS	I			87.2	85.5	87.2	87.4	86.1
AREA	METHOD	QA CONTINUING CAL FOUND LL2AB5003	QA CONTINUING CAL BLANK LL03B5003	INITIAL CAL FOUND A LL2AC2003	LAS POSITAS ARROYO LL008026D	LAS POSITAS ARROYO LL008037D	QA CONTINUING CAL FOUND LL2AC4003	QA CONTINUING CAL FOUND LL2AC5003
LOCATION		UG/L	MG/KG	UG/L	MG/KG	1	UG/L	UG/L
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ARSENIC	F		1.3 B	25	2.4	2.5	26	25
CHROMIUM	FFF	50	2.9 B	51	23 *	24 *	55	53
LEAD	FF	43	0.44 U	53	5.8 N	5.7 N	43	52
NICKEL	F				21	24	51	52
% SOLIDS	I				84.8	84		
AREA	METHOD	QA CONTINUING CAL BLANK LL03B6003	QA INITIAL CAL FOUND A LL2AD2002	LAS POSITAS ARROYO LL005034D	INITIAL CAL BLANK 3 LL03C0003	STP OVERFLOW POND LL037021D	STP OVERFLOW POND LL037032D	CONTINUING CAL FOUND LL2AD4002
LOCATION		UG/L	MG/KG	1	MG/KG	10	10	UG/L
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ARSENIC	F	0.9 B		2.6	0.61 U	0.96 B	1.7 B	27
CHROMIUM	F			30 *	0.7 B	30 *	33 *	
LEAD	FF	0.44 U	46	32 N	0.44 U	9.6 N	6.6 N	40
NICKEL	F			48	2.4 U	34	32	53
% SOLIDS	I			84.6		99.2	98.9	

TABLE D.2.13 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL005012D

AREA	METHOD	QA CONTINUING CAL BLANK LL03C7003	QA CONTINUING CAL BLANK LL03C8003	QA CONTINUING CAL BLANK LL03C9003	QA INITIAL CAL FOUND A LL2AE2002	QA INITIAL CAL BLANK 4 LL03D0001	N OF 4TH ST ARROYO LL011010D	N OF 4TH ST ARROYO LL011032D
LOCATION		SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	UG/L	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ARSENIC	F	0.61 U					5.1	4.2
CHROMIUM	FF	1.4 B					46 *	34 *
LEAD	F	0.44 U					49 N	62 N
NICKEL	F	2.4 U	2.4 U	2.4 U	28	36	34	
% SOLIDS	I				40	0.44 U	84.2	89.3
AREA	METHOD	QA STP OVERFLOW POND LL037010D	QA CONTINUING CAL FOUND LL2AE4002	QA CONTINUING CAL BLANK LL03D1001	QA N OF 4TH ST ARROYO LL011021D	QA CONTINUING CAL FOUND LL2AE5002	QA CONTINUING CAL BLANK LL03D1101	
LOCATION		SOIL MG/KG	UG/L	SOIL MG/KG	N OF 4TH ST ARROYO LL011021D	CONTINUING CAL FOUND LL2AE5002	CONTINUING CAL BLANK LL03D1101	
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO		10						
ARSENIC	F	1.9			28			
CHROMIUM	FF	29 *				7.6		
LEAD	F	5.1 N			41	47 *		
NICKEL	F	19				88 N		
% SOLIDS	I		99.2			48		
						40	0.44 U	
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TABLE D.2.14 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016C

AREA	METHOD	QA LINEAR RANGE ANALYSIS	QA INTER CHK SOL. A TRUE LLICSI1358	QA INITIAL CAL TRUE A LLICVI1389	QA INITIAL CAL TRUE B LLICVI1411	QA INITIAL CAL TRUE C LLICVI1427	QA LAB CONTROL SAMPLE TRUE LLLCI1510	QA INITIAL CAL FOUND A LLICVI1371
LOCATION		UG/L	UG/L	UG/L	UG/L	UG/L	SOIL MG/KG	WATER UG/L
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	7500	508000	100000	990		15200	102000
ANTIMONY	PP	10000		1000	20 U			
ARSENIC	PP	20000		1000	680			
BARIUM	P	5000	483		990			
BERYLLIUM	P	1500	474		430			
CADMUM	P	5000	909		240			
CALCIUM	P	10000	516000	5000	244			
CHROMIUM	P	10000	513	24900			10500	4760 B
COBALT	P	10000	478		253			
COPPER	P	10000	534		237			
IRON	P	12000	203000	100000	271			
LEAD	P	50000	4850		995		11200	105000
MAGNESIUM	P	12000	509000	50000	2250		5830	
MANGANESE	P	2500	531	50000		5000	14700	49900
NICKEL	P	15000	916		256		91700	46900
SELENIUM	P	10000			248			
SILVER	P	10000	993		1000			
SODIUM	P	10000			254			
VANADIUM	P	10000		100000		5000	3720	107000
ZINC	P	6000	475		255		18	
X SOLIDS			973		1550		425	

AREA	METHOD	QA INITIAL CAL FOUND C LLICVI1419	QA INITIAL CAL BLANK LLICB1324	QA INITIAL CAL FOUND B LLICVI1403	QA INTER CHK SOL. A INIT LLICSI1350	QA PREP BLANK LLPB01566	QA PREP BLANK LLPB01567	QA LAB CONTROL SAMPLE LLLCI1487
LOCATION		UG/L	UG/L	UG/L	UG/L	WATER UG/L	WATER UG/L	SOIL MG/KG
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P		50 U	1030	513000	50 U	117 B	17900
ANTIMONY	PP		30 U	977		30 U	30 U	4.9 U
ARSENIC	PP		30 U	1040		30 U	30 U	715
BARIUM	P		2 U	984	457	2 U	3 B	429
BERYLLIUM	P		0.3 U	255	477	0.3 U	0.3 U	0.88
CADMUM	P		2 U	246	879	2 U	2 U	1
CALCIUM	P		200 U	26200	502000	200 U	200 U	10900

TABLE D.2.14 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016C

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AREA	METHOD	QA INITIAL CAL FOUND C LLICV1419	QA INITIAL CAL BLANK LLICB1324	QA INITIAL CAL FOUND B LLICV1403	QA INTER CHK SOL. A INIT LLICS1350	QA PREP BLANK LLPB01566	QA PREP BLANK LLPB01567	QA LAB CONTROL SAMPLE LLLCS1487
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
CHROMIUM	P			6 U	266	493	6 U	6 U
COBALT	P			3 U	254	470	3 U	8.4
COPPER	P			3 U	268	492	3.6 B	261
IRON	P			20 U	999	187000	20 U	12300
LEAD	P			30 U	2210	4340	33 U	5480
MAGNESIUM	P			10 U		487000	10 U	15900
MANGANESE	P			3 U	258	495	4.2 B	88800
NICKEL	P			6 U	249	786	6 U	19
SELENIUM	P			40 U	1070	942	40 U	66 U
SILVER	P			4 U	260		40 U	7.1
SODIUM	P			200 U		200	200 U	3810
VANADIUM	P			4 U	270	485	4 U	15
ZINC	P			3 U	1530	938	3 U	442
% SOLIDS	I	I	I	I	I	I	I	I
AREA	METHOD	GSA AREA WELLS LL036042C	GSA AREA WELLS LL036053C	GSA AREA WELLS LL036064C	CONTINUING CAL FOUND LLCCV1117	CONTINUING CAL FOUND LLCCV1174	CONTINUING CAL FOUND LLCCV1209	CONTINUING CAL BLANK LLCCB1038
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	21400 *E	31500 *E	26100 *E	104000	1090	50 U	50 U
ANTIMONY	P	4.7 UN	6.1 BN	4.6 UN	1040	1080	30 U	30 U
ARSENIC	P	4.7 UN	5 UN	4.6 UN		1010	2 U	2 U
BARIUM	P	136 *	171 *	299 *		262	0.3	0.3
BERYLLIUM	P	1.1	1.5	1.1		249	200	200
CADMUM	P	0.39 B	0.65 B	0.31 U	4930 B	26900	6 U	6 U
CALCIUM	P	15300 *	12100 *	13800 *		273	3 U	3 U
CHROMIUM	P	21 N*	29 N*	31 N*		259	3 U	3 U
COBALT	P	14	13	12		279	20 U	20 U
COPPER	P	31 E	40 E	26 E		1040	30 U	30 U
IRON	P	25500 *	33300 *	30200 *	108000	2260	5440	10 U
LEAD	P	19 B	20 B	18 B		271	3 U	3 U
MAGNESIUM	P	9760 *E	12800 *E	9450 *E	51300			
MANGANESE	P	360 *E	291 *E	707 *E	50200			

TABLE D.2.14 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016C

AREA	METHOD	GSA AREA WELLS LL036042C	GSA AREA WELLS LL036053C	GSA AREA WELLS LL036064C	QA CONTINUING CAL FOUND LLCCV1117	QA CONTINUING CAL FOUND LLCCV1174	QA CONTINUING CAL FOUND LLCCV1209	QA CONTINUING CAL BLANK LLCCB1038
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		MG/KG	MG/KG	MG/KG	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L
NICKEL	P	13 X	14 X	17 X		255		6 U
SELENIUM	PP	6.2 UN	6.7 UN	6.2 UN		1100		40 U
SILVER	P	0.96 B	0.88 B	1.9		274		4 U
SODIUM	PP	1200	916	783	108000		5420	200 U
VANADIUM	PP	69	81	85		280		4 U
ZINC	P	73 X	81 X	82 X		1600		3 U
% SOLIDS	I	83.1	82.3	85.1				
AREA	METHOD	GSA AREA WELLS LL036235C	STP OVERFLOW POND LL037010C	STP OVERFLOW POND LL037021C	STP OVERFLOW POND LL037032C	LAS POSITAS ARROYO LL009016C	LAS POSITAS ARROYO LL009027C	LAS POSITAS ARROYO LL009038C
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		MG/KG	MG/KG	MG/KG	MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG
ALUMINUM	P	20000 X	7840 X	12400 X	16200 X	17800 X	23100 X	19100 X
ANTIMONY	PP	4.8 UN	3.8 UN	3.9 UN	3.9 UN	4.3 UN	4.2 BN	4.8 BN
ARSENIC	PP	45 N	3.8 UN	3.9 UN	3.9 UN	4.3 UN	4.1 UN	3.7 UN
BARIUM	PP	183 X	73 X	132 X	192 X	199 X	257 X	220 X
BERYLLIUM	PP	0.81	0.25 B	0.5 B	0.61 B	0.57 B	0.75	0.64
CADMUM	PP	0.32 U	0.26 U	0.26 U	0.35 B	0.28 U	0.41 B	0.24 U
CALCIUM	PP	9860 X	2870 X	15100 X	17000 X	3360 X	4110 X	3320 X
CHROMIUM	PP	31 NX	23 NX	27 NX	38 NX	41 NX	46 NX	39 NX
COBALT	PP	9.7	5.5 B	8.7	10	11	13	11
COPPER	PP	22 E	16 E	30 E	26 E	21 E	26 E	21 E
IRON	PP	26600 X	16000 X	20200 X	25300 X	23400 X	28900 X	24500 X
LEAD	PP	28 B	6.3 B	10 B	14 B	13 B	13 B	10 B
MAGNESIUM	PP	7580 XE	4970 XE	8630 XE	8980 XE	4800 XE	6050 XE	5060 XE
MANGANESE	PP	716 XE	400 XE	556 XE	539 XE	580 XE	734 XE	529 XE
NICKEL	PP	18 X	21 X	24 X	31 X	37 X	47 X	36 X
SELENIUM	PP	68 N	5.1 UN	5.2 UN	5.2 UN	5.7 UN	5.5 UN	4.9 UN
SILVER	PP	1.9	1.4	1.3	2	1.6	2.1	1.6
SODIUM	PP	1510	898	951	586 B	189 B	222 B	212 B
VANADIUM	PP	73	25	31	45	45	50	45
ZINC	P	144 X	36 X	68 X	69 X	60 X	119 X	59 X
% SOLIDS	I	85.3	99.6	98.5	99.1	97.3	93.8	97.9

TABLE D.2.14 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016C

AREA	M	GSA AREA WELLS LL036133C	GSA AREA WELLS LL036144C	GSA AREA WELLS LL036155C	CONTINUING CAL FOUND LLCCV1118	CONTINUING CAL FOUND LLCCV1210	CONTINUING CAL FOUND LLCCV1175	CONTINUING CAL BLANK LLCCB1039
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	T H O D	MG/KG	MG/KG	MG/KG	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L
		9	9	9				
ALUMINUM	P	24200 *	26800 *	28900 *	101000		1090	50 U
ANTIMONY	P	4 UN	5 BN	4.1 UN			1050	40 U
ARSENIC	P	4 UN	4.1 UN	4.1 UN			1070	30 U
BARIUM	P	261 *	290 *	328 *			1010	20 U
BERYLLIUM	P	0.97	1.1	1.1			264	0.3 N
CADMUM	P	0.27 U	0.45 B	0.27 U			252	200 U
CALCIUM	P	9710 *	11400 *	7840 *	4900 B		27100	200 U
CHROMIUM	P	34 Nx	38 Nx	38 Nx			273	6 U
COBALT	P	12	13	13			261	3 U
COPPER	P	26 E	28 E	27 E			281	3 U
IRON	P	30000 *	31700 *	32400 *	103000		1040	20 U
LEAD	P	14 B	20 B	15 B			2210	30 U
MAGNESIUM	P	9040 *E	10100 *E	8970 *E	50700	5270		10 U
MANGANESE	P	727 *E	740 *E	748 *E	49100		271	3 U
NICKEL	P	20 *	24 *	20 *			256	6 U
SELENIUM	P	5.4 UN	5.5 UN	5.4 UN			1060	40 U
SILVER	P	2	2.9	2.4			274	4 U
SODIUM	P	868	585 B	846	105000	5530		200 U
VANADIUM	P	81	86	86			278	4 U
ZINC	P	82 *	94 *	77 *			1590	3 U
% SOLIDS	I	89.7	87.8	88.7				

AREA	M	N OF 875 CULVERT LL030013C	N OF 875 CULVERT LL030024C	N OF 875 CULVERT LL030035C	N OF 875 CULVERT LL030046C	DUPLICATE RPD LL030046C	DUPLICATE RPD LL030046C	MATRIX SPIKE LL030046C
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	T H O D	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	%	MG/KG
		6	6	6	6	6	6	6
ALUMINUM	P	21700 *	16700 *	26300 *	21300 *	20300	4.8	21100
ANTIMONY	P	4.3 UN	3.9 UN	4.8 UN	4.4 UN	4.4 U		21
ARSENIC	P	32 BN	3.9 UN	4.8 UN	4.4 UN	4.4 U		11 B
BARIUM	P	200 *	181 *	285 *	231 *	286		548
BERYLLIUM	P	0.84	0.63 B	0.99	0.86	0.87	0.01	8.6
CADMUM	P	1.1	1.5	0.75 B	0.74	0.88	0.14	8.5
CALCIUM	P	8850 *	18100 *	8370 *	8660 *	9100	5	8980

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TABLE D.2.14 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016C

AREA	M	N OF 875 CULVERT LL030013C	N OF 875 CULVERT LL030024C	N OF 875 CULVERT LL030035C	N OF 875 CULVERT LL030046C	QA	QA	QA
LOCATION	E	MG/KG	MG/KG	MG/KG	MG/KG	DUPLICATE LL030046C	DUPLICATE LL030046C	MATRIX SPIKE LL030046C
TYPE OF LOCATION	T	6	6	6	6	%	%	SOIL MG/KG
SAMPLE NUMBER	H							
MATRIX	O							
UNITS	D							
ENV PROBLEM NO								
CHROMIUM	P	32 Nx	34 Nx	41 Nx	37 Nx	31	18	58
COBALT	P	10	9.1	13	11	11	0	80
COPPER	P	34 E	46 E	34 E	33 E	29	13	61
IRON	P	26500 x	23000 x	30900 x	26700 x	26600	0.38	26800
LEAD	P	62	73	50	30	27 B	3	101
MAGNESIUM	P	8450 xE	7270 xE	9000 xE	7780 xE	7940	2	7960
MANGANESE	P	638 xE	673 xE	690 xE	627 xE	966	43	738
NICKEL	P	19 x	19 x	27 x	20 x	20	0	88
SELENIUM	P	55 BN	5.3 UN	6.3 UN	5.9 UN	5.8 U		5.8 U
SILVER	P	1.7	1.6	3.1	2.6	2.6	0	10
SODIUM	P	1130	422 B	581 B	1110	1060	50	1180
VANADIUM	P	64	52	67	65	65	0	139
ZINC	P	183 x	156 x	117 x	108 x	107	0.93	181
% SOLIDS		93.5	94.2	89.2	94.5	94.5		94.5
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	MS % RECOVERY LL030046C	SERIAL DILUTION LL030046C	SD x DIFFERENCE LL030046C	PREP BLANK LLPB01568	PREP BLANK LLPB01569	LAB CONTROL SAMPLE LLLC51488	CONTINUING CAL FOUND LLCCV1119
TYPE OF LOCATION	T	6	6	6	UG/L	WATER UG/L	SOIL MG/KG	WATER UG/L
SAMPLE NUMBER	H							
MATRIX	O							
UNITS	D							
ENV PROBLEM NO								
ALUMINUM	P		19800	7	50 U	65 B	15800	93500
ANTIMONY	P	29	22 U		30 U	30 U	5.9 U	
ARSENIC	P	73	23 B		30 U	30 U	737	
BARIUM	P	109	231	0	2 U	2.2 B	426	
BERYLLIUM	P	106	0.84		0.3 U	0.3 U	0.87	
CADMIUM	P	106	1.5 U		2 U	2.2 U	0.4 U	
CALCIUM	P		8270	4.5	200 U	200 U	10400	5000
CHROMIUM	P	72	37		6 U	6 U	17	
COBALT	P	95	14		3 U	4.3 U	8.9	
COPPER	P	78	37	12	3 U	7.8 U	243	
IRON	P		27100	1.5	21 B	26 B	11200	99900
LEAD	P	97	22 U		30 U	30 U	5340	
MAGNESIUM	P		7840	0.77	10 U	10 U	15000	49200
MANGANESE	P		587	6.4	3 U	3.1 B	89800	51300

TABLE D.2.14 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016C

AREA	METHOD	QA MS % RECOVERY LL030046C	QA SERIAL DILUTION LL030046C	QA SD % DIFFERENCE LL030046C	QA PREP BLANK LLPB01568	QA PREP BLANK LLPB01569	QA LAB CONTROL SAMPLE LLLCS1488	QA CONTINUING CAL FOUND LLCCV1119
LOCATION		% 6	SOIL MG/KG 6	% 6	WATER UG/L	WATER UG/L	SOIL MG/KG	WATER UG/L
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
NICKEL	P	93	17		6 U	6 U	17	
SELENIUM	P		38 B		40 U	40 U	79 U	
SILVER	P	101	8.9		4 U	11	8	
SODIUM	P		956		200 U	371 B	4700	
VANADIUM	P	101	67	3.1	4 U	4 U	12	
ZINC	P	100	108	0	3 U	3 U	405	
% SOLIDS	I	I	94.5					
AREA	METHOD	QA CONTINUING CAL FOUND LLCCV1176	QA CONTINUING CAL FOUND LLCCV1211	QA CONTINUING CAL BLANK LLCCB1040	875/878 CULVERT LL029010C	875/878 CULVERT LL029021C	875/878 CULVERT LL029032C	STP MAIN POND LL038011C
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	1010		50 U	11700 *	20900 *	17400 *	6720 *
ANTIMONY	P	1020		30 U	4.2 UN	7.4 BN	6 BN	9.6 UN
ARSENIC	P	1080		30 U	13 BN	4.4 UN	4.4 UN	9.6 UN
BARIUM	P	995		2 U	184 *	273 *	414 *	128 *
BERYLLIUM	P	253		0.3 UU	0.49 B	0.86	0.78	0.33 B
CADMIUM	P	256		2 U	3.9	1.3	5.7	0.64 U
CALCIUM	P	25800		200 U	5660 *	5760 *	6970 *	20300 *
CHROMIUM	P	256		6 UU	40 NX	32 NX	43 NX	40 NX
COBALT	P	250		3 UU	7.6	11	11	3.4 B
COPPER	P	257		3 UU	80 E	36 E	95 E	27 E
IRON	P	982		20 UU	18900 *	24800 *	23700 *	10500 *
LEAD	P	2160		30 UU	113	36	204	19 B
MAGNESIUM	P		4640 B	10 UU	5280 *E	6680 *E	6340 *E	6440 *E
MANGANESE	P	261		3 UU	909 *E	874 *E	9520 *E	251 *E
NICKEL	P	256		6 UU	24 *	25 *	34 *	7.3 BX
SELENIUM	P	1050		40 UU	15 BN	5.9 UN	5.8 UN	13 UN
SILVER	P	231		4 UU	0.56 U	1.2 B	2.1	5.2
SODIUM	P	245		200 UU	677 B	821	1060	2370
VANADIUM	P		5810	4 UU	36	48	51	29
ZINC	P	1440		3 UU	352 *	112 *	477 *	120 *
% SOLIDS	I	I			91.2	88.1	91.3	42.4

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TABLE D.2.14 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016C

AREA	M	STP MAIN POND LL038022C	STP MAIN POND LL038033C	STP MAIN POND LL038055C	GSA AREA WELLS LL036075C	GSA AREA WELLS LL036086C	GSA AREA WELLS LL036097C	QA CONTINUING CAL FOUND LLCCV1120 WATER UG/L
	E	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	
	T	10	10	10	9	9	9	
D-85	P	8890 X	7360 X	8250 X	6010 X	16300 X	20000 X	98100
	PP	7.5 UN	8 UN	5.7 UN	5.1 BN	4.6 UN	4.8 UN	
	PP	7.5 UN	8 UN	5.7 UN	4.4 UN	4.6 UN	4.8 UN	
	PP	237 X	115 X	132 X	95 X	161 X	209 X	
	PP	0.36 B	0.35 B	0.38 B	0.22 B	0.84	0.96	
	PP	0.5 U	0.57 B	0.38 U	0.5 B	0.31 U	0.32 U	
	PP	17900 X	17200 X	17100 X	3010 X	12000 X	8760 X	5030
	PP	30 NX	35 NX	22 NX	12 NX	25	25 NX	
	PP	5.3 B	4.8 B	5.6 B	3.5 B	11	11	
	PP	23 E	22 E	13 E	10 E	23 E	22 E	
	PP	17000 X	12200 X	13800 X	9840 X	22600 X	25400 X	102000
	PP	12 B	14 B	8.5 B	4.4 U	13 B	14 B	
	PP	8330 XE	7500 XE	6590 XE	2980 XE	8270 XE	10400 XE	50600
	PP	390 XE	340 XE	304 XE	223 XE	571 XE	602 XE	50900
	PP	11 X	9.7 BX	9.7 X	12 X	20 X	18 X	
	PP	10 UN	11 UN	7.6 UN	5.9 UN	6.2 UN	6.4 UN	
	PP	3.1	4.6	2.4	0.95 B	2.2	1.6	
	PP	2390	1840	1300	236 B	463 U	958	97100
	PP	38	35	44	20	57	73	
	P	105 X	72 X	53 X	33 X	58 X	532 X	
	X SOLIDS		48.9	49.6	65.9	97	85	86.5

AREA	M	QA	QA	QA	CORRAL H CRK				
LOCATION	E	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK	ARROYO	ARROYO	ARROYO	ARROYO	DITCH
TYPE OF LOCATION	H	LLCCV1177	LLCCV1212	LLCCB1041	LL040015A	LL040026A	LL040037A	LL041016A	
SAMPLE NUMBER	O								
MATRIX	D	WATER	WATER	WATER	SOIL	SOIL	SOIL	SOIL	
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO					12	12	12	12	12
D-85	P	1090			50 U	20200 X	11800 X	11400 X	6760 X
	PP	1040			30 U	4.3 UN	4.2 UN	4.1 UN	4 UN
	PP	1080			30 U	35 BN	4.2 UN	4.1 UN	4 UN
	PP	1020			2 U	231 X	120 X	91 X	73 X
	PP	261			0.3 U	0.76	0.37 B	0.37 B	0.25 B
	PP	256			2 U	0.37 B	0.28 U	0.28 U	0.27 U
	P	26700			200 U	30500 X	7150 X	13800 X	6420 X

TABLE D.2.14 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016C

AREA	METHOD	QA CONTINUING CAL FOUND LLCCV1177	QA CONTINUING CAL FOUND LLCCV1212	QA CONTINUING CAL BLANK LLCCB1041	CORRAL H CRK ARROYO LL040015A	CORRAL H CRK ARROYO LL040026A	CORRAL H CRK ARROYO LL040037A	CORRAL H CRK DITCH LL041016A
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		WATER UG/L	WATER UG/L	WATER UG/L	SOIL MG/KG 12	SOIL MG/KG 12	SOIL MG/KG 12	SOIL MG/KG 12
CHROMIUM	P	267		6 U	47 Nx	31 Nx	31 Nx	21 Nx
COBALT	P	253		3 U	11	7.4	8	5 B
COPPER	P	264		3 U	34 E	19 E	19 E	12 E
IRON	P	1020		20 U	31900 x	21300 x	22400 x	15300 x
LEAD	P	2170		30 U	24 B	7.7 B	4.2 B	7 B
MAGNESIUM	P			10 U	10500 xE	7570 xE	7310 xE	4310 xE
MANGANESE	P			5 U	666 xE	532 xE	624 xE	292 xE
NICKEL	P			6 U	44 x	41 x	36 x	18 x
SELENIUM	P	268		40 U	39 BN	5.6 UN	5.5 UN	5.3 UN
SILVER	P	259		4 U	0.57 U	0.75 B	1.1 B	0.94 B
SODIUM	P	1040		264 B	1070	591 B	523 B	323 B
VANADIUM	P	237		5850	46	31	30	27
ZINC	P	260		3 U	74 x	43 x	46 x	32 x
		1510				97.6	98.5	98.9
% SOLIDS								99.7
AREA	METHOD	CORRAL H CRK DITCH LL041027A	CORRAL H CRK DITCH LL041038A	CORRAL H CRK CREEK LL042017A	CORRAL H CRK CREEK LL042028A	MATRIX SPIKE LL042039A	MS % RECOVERY LL042039A	CORRAL H CRK CREEK LL042039A
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		SOIL MG/KG 12	SOIL MG/KG 12	SOIL MG/KG 12	SOIL MG/KG 12	SOIL MG/KG 12	x	SOIL MG/KG 12
ALUMINUM	P	6380 x	26700 x	6070 x	5360 x	6520		4710 x
ANTIMONY	P	4.3 UN	4.3 UN	7.4 BN	4 UN	31	46	4.2 UN
ARSENIC	P	4.3 UN	4.3 UN	4.1 UN	4 UN	14 B	34	9.2 BN
BARIUM	P	85 x	646 x	85 x	76 x	356	112	53 x
BERYLLIUM	P	0.23 B	1.4	0.23 B	0.19 B	7.5	107	0.2 B
CADMIUM	P	0.28 U	0.37 B	0.57 B	0.27 U	7.4	109	0.28 U
CALCIUM	P	7620 x	29000 x	7200 x	16600 x	6400		32500 x
CHROMIUM	P	20 Nx	30 Nx	17 Nx	16 Nx	51	144	12 Nx
COBALT	P	4.4 B	24	4.2 B	3.5 B	70	98	3.1 B
COPPER	P	11 E	38 E	13 E	10 E	45	100	11 E
IRON	P	14200 x	28100 x	13600 x	11700 x	14500		10600 x
LEAD	P	4.9 B	16 B	9 B	4 U	68	93	5 B
MAGNESIUM	P	4080 xE	10200 xE	4030 xE	4000 xE	4780		3580 xE
MANGANESE	P	251 xE	201 xE	257 xE	383 xE	847		433 xE

TABLE D.2.14 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016C

AREA	M E T H O D	CORRAL H CRK	CORRAL H CRK	CORRAL H CRK	CORRAL H CRK	MATRIX	QA	QA	CORRAL H CRK
LOCATION	DITCH	DITCH	CREEK	CREEK	SPIKE	MS X	RECOVERY	CREEK	
TYPE OF LOCATION	LL041027A	LL041038A	LL042017A	LL042028A	LL042039A	LL042039A		LL042039A	
SAMPLE NUMBER									
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL				
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG				
ENV PROBLEM NO	12	12	12	12	12	X	12	12	
NICKEL	P	18 X	29 X	18 X	17 X	93	119	12 X	
SELENIUM	P	5.7 UN	5.7 UN	5.4 UN	5.3 UN	5.4 U	87	5.9 BN	
SILVER	P	0.57 U	0.58 B	0.54 U	0.53 U	7.3	107	0.56 U	
SODIUM	P	354 B	1960	573 B	534 B	263 B		160 B	
VANADIUM	P	28	83	26	20	87	103	17	
ZINC	P	30 X	66 X	34 X	30 X	103	115	25 X	
% SOLIDS	I	99.7	96.3	98.3	99.6	99.4		99.4	
AREA	M E T H O D	QA	QA	QA	QA	QA	QA	QA	
LOCATION	SERIAL	SD X	DUPLICATE	DUPLICATE	CONTINUING	CONTINUING	CONTINUING	CONTINUING	
TYPE OF LOCATION	DILUTION	DIFFERENCE	LL042039A	LL042039A	CAL FOUND	CAL FOUND	CAL FOUND	CAL FOUND	
SAMPLE NUMBER	LL042039A	LL042039A		LL042039A	LLCCV1121	LLCCV1178	LLCCV1123		
MATRIX	SOIL	SOIL		SOIL	WATER	WATER	WATER		
UNITS	MG/KG	MG/KG		MG/KG	UG/L	UG/L	UG/L		
ENV PROBLEM NO	12	12		12					
ALUMINUM	P	4410	6.4	7360	44	98800	1030		
ANTIMONY	P	21 U		4.1 U			1040		
ARSENIC	P	21 U		4.1 U			1050		
BARIUM	P	54	1.9	77	24		991		
BERYLLIUM	P	0.21 U		0.2 B			256		
CADMUM	P	1.4 U		0.28 U			250		
CALCIUM	P	30500	6.2	5370	143	4890 B	26500		
CHROMIUM	P	11		21	55		263		
COBALT	P	2.1 U		4.6 B			250		
COPPER	P	10		13	2		262		
IRON	P	10300	2.8	17300	48	101000	1010		
LEAD	P	21 U		4.1 U			2160		
MAGNESIUM	P	3190	11	4890	31	50100		4970 B	
MANGANESE	P	353	18	531	20	49900	263		
NICKEL	P	10		22	10		255		
SELENIUM	P	28 U		5.5 U			1040		
SILVER	P	2.8 U		0.55 U			242		
SODIUM	P	190 B		371 B		96600	263		
VANADIUM	P	14		23	6			5750	
ZINC	P	23	8	36	36		1510		
% SOLIDS	I	99.4		99.4					

TABLE D.2.14 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016C

AREA	M	QA	QA
LOCATION	T	CONTINUING	INTER CHK
TYPE OF LOCATION	H	CAL BLANK	SOL. A FINAL
SAMPLE NUMBER	O	LLCCB1042	LLICS1342
MATRIX	D	WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
ALUMINUM	P	50 U	499000
ANTIMONY	P	30 U	
ARSENIC	P	30 U	
BARIUM	P	2 U	451
BERYLLIUM	P	0.3 U	471
CADMUM	P	2 U	867
CALCIUM	P	200 U	495000
CHROMIUM	P	6 U	478
COBALT	P	3 U	456
COPPER	P	3 U	485
IRON	P	20 U	183000
LEAD	P	30 U	4210
MAGNESIUM	P	10 U	483000
MANGANESE	P	3 U	496
NICKEL	P	6 U	778
SELENIUM	P	40 U	
SILVER	P	4 U	898
SODIUM	P	200 U	
VANADIUM	P	4 U	468
ZINC	P	3 U	916
% SOLIDS			

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TABLE D.2.15 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016D

AREA	M	QA	QA	QA	QA	QA	QA	QA	STP MAIN
LOCATION	T	LAB CONTROL	INITIAL CAL	INITIAL CAL	INITIAL CAL	PREP	LAB CONTROL	POND	
TYPE OF LOCATION	E	SAMPLE TRUE	TRUE A	FOUND A	BLANK 1	BLANK	SAMPLE	LL038011D	
SAMPLE NUMBER	H	LL0700104	LL2AA1004	LL2AA2004	LL03A0004	LL03A0004	SAMPLE	LL0700104	
MATRIX	O	SOIL	UG/L	UG/L	SOIL	SOIL	SOIL	SOIL	
UNITS	D	MG/KG			MG/KG	MG/KG	MG/KG	MG/KG	
ENV PROBLEM NO									10
ARSENIC	F	680	27	26	0.61 U	0.12 U	628	1 B	
BERYLLIUM	F	1 U	7.3	7.4	0.13 U	0.03 U	0.72 B		
CHROMIUM	F	17	50	54	0.9 B	0.78 B	11	34	
LEAD	F	5830	43	42	0.43 U	0.09 U	5230	9.8	
NICKEL	F	22	50	52	2.4 U	0.48 U	20	14 *	
% SOLIDS									44.3
AREA	M	QA	QA	QA	QA	QA	QA	QA	
LOCATION	T	STP MAIN	CONTINUING	CONTINUING	STP MAIN	STP MAIN	N OF 875	DUPLICATE	
TYPE OF LOCATION	E	POND	CAL FOUND	CAL BLANK	POND	POND	CULVERT		
SAMPLE NUMBER	H	LL038022D	LL2AA4004	LL03A1004	LL038033D	LL038055D	LL030013D	LL030013D	
MATRIX	O	SOIL	UG/L	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	D	MG/KG		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	
ENV PROBLEM NO		10			10	10	6	6	
ARSENIC	F	0.94 B	26	0.61 U	1.3 B	0.95 B	0.63 B	0.72 B	
BERYLLIUM	F		7.6	0.13 U					
CHROMIUM	F	28	51	0.52 U	32	28			
LEAD	F	10	41	0.43 U	9.7	12	38	38	
NICKEL	F	15 *	51	2.4 U	22 *	13 *			
% SOLIDS	I	I	45.4		44.7	62.9	94.1		
AREA	M	QA	QA	QA	QA	QA	QA	QA	
LOCATION	T	DUPLICATE	MATRIX	MS X	CONTINUING	CONTINUING	N OF 875	INITIAL CAL	
TYPE OF LOCATION	E	RPD	SPIKE	RECOVERY	CAL FOUND	CAL BLANK	CULVERT	FOUND A	
SAMPLE NUMBER	H	LL030013D	LL030013D	LL030013D	LL2AA5004	LL03A2004	LL030035D	LL2AB2004	
MATRIX	O	%	%	%	UG/L	UG/L	UG/L	UG/L	
UNITS	D	6	6	6					
ENV PROBLEM NO									
ARSENIC	F			1.7	113	7.5	0.13 U	26	
BERYLLIUM	F					49	0.52 U	6.8	
CHROMIUM	F			0	53	43	0.43 U		
LEAD	F						43		

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TABLE D.2.15 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016D

AREA	METHOD	QA DUPLICATE RPD LL030013D	QA MATRIX SPIKE LL030013D	QA MS % RECOVERY LL030013D	QA CONTINUING CAL FOUND LL2AA5004	QA CONTINUING CAL BLANK LL03A2004	QA N OF 875 CULVERT LL030035D	QA INITIAL CAL FOUND A LL2AB2004
LOCATION	D							
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO		% 6	MG/KG 6	% 6	UG/L	MG/KG 6	MG/KG 6	UG/L
NICKEL	F							54
% SOLIDS	I						90.9	
AREA	METHOD	QA CONTINUING CAL BLANK LL03A3004	QA CONTINUING CAL FOUND LL2AB4004	QA CONTINUING CAL FOUND LL2AB5004	QA INITIAL CAL FOUND A LL2AC2004	QA INITIAL CAL BLANK 2 LL03B0004	QA N OF 875 CULVERT LL030046D	QA LAS POSITAS ARROYO LL009016D
LOCATION	D							
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO		SOIL MG/KG	UG/L	UG/L	UG/L	SOIL MG/KG	SOIL MG/KG 6	SOIL MG/KG 1
ARSENIC	F		26	27		0.9 B		3.4
BERYLLIUM	FFF		7.1			0.13 U	0.71 B	
CHROMIUM	FFF	0.52 U	49	49	51	0.9 B		35
LEAD	FFF	0.43 U	45		42	0.43 U	23	6.9
NICKEL	F		51	49		2.4 U		36 *
% SOLIDS	I						94.6	97.6
AREA	METHOD	QA DUPLICATE RPD LL009016D	QA DUPLICATE RPD LL009016D	QA MATRIX SPIKE LL009016D	QA MS % RECOVERY LL009016D	QA LAS POSITAS ARROYO LL009027D	QA CONTINUING CAL FOUND LL2AC4004	QA CONTINUING CAL BLANK LL03B4004
LOCATION	D							
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO		SOIL MG/KG	% 1	1	% 1	SOIL MG/KG 1	UG/L	SOIL MG/KG
ARSENIC	F	3.5		2.9	9.6	82	4	0.9 B
BERYLLIUM	FFF	37		5.6	39	105	43	0.13 U
CHROMIUM	FFF	8.5		20	17	106	9.7	0.7 B
LEAD	F	46		24	45	118	48 *	0.43 U
% SOLIDS	I						91.9	2.4 U

TABLE D.2.15 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016D

AREA	METHOD	LAS POSITAS	ARROYO SECO	ARROYO SECO	QA	QA	QA	QA
LOCATION		ARROYO	ARROYOS	ARROYOS	CONTINUING	CONTINUING	ARROYO SECO	CONTINUING
TYPE OF LOCATION		LL009038D	SN004012C	SN004023C	CAL FOUND	CAL BLANK	ARROYOS	CAL FOUND
SAMPLE NUMBER					LL2AC5004	LL03B5004	SN004034C	LL2AD4003
MATRIX		SOIL	SOIL	SOIL		SOIL	SOIL	
UNITS		MG/KG	MG/KG	MG/KG	UG/L	MG/KG	MG/KG	UG/L
ENV PROBLEM NO		1	1	1			1	
ARSENIC	F	3.4	4.6	3.9		0.61 U	2.8	
BERYLLIUM	FF	43	43	28			23	
CHROMIUM	FF	8	8.3	5.8	44	0.43 U	4.9	
LEAD	F	41 *	44 *	29 *		2.4 U	27 *	45
NICKEL								
% SOLIDS	I	97.9	90.6	94.9			96.9	
AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	INITIAL CAL	INITIAL CAL	N OF 875	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK	FOUND A	BLANK 3	CULVERT	CAL FOUND	CAL BLANK	CAL BLANK
SAMPLE NUMBER		LL03B6004	LL2AE2003	LL03C0004	LL030024D	LL2AE4003	LL03C7004	LL03C7004
MATRIX		SOIL	UG/L	SOIL	SOIL	UG/L	SOIL	SOIL
UNITS		MG/KG		MG/KG	MG/KG		MG/KG	MG/KG
ENV PROBLEM NO					6			
ARSENIC	F				0.58 B			
BERYLLIUM	FF							
CHROMIUM	FF	0.43 U	42	0.43 U	64	42	0.43 U	
LEAD	F	2.4 U						
NICKEL								
% SOLIDS	I				93.3			

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TABLE D.2.16 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016K

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE ANALYSIS	INITIAL CAL TRUE A	LAB CONTROL SAMPLE TRUE	INITIAL CAL FOUND A	PREP BLANK	PREP BLANK	LAB CONTROL SAMPLE
TYPE OF LOCATION		LLRRA1529	LLICV1390	LLLCS1511	LLICV1372	LLPB01570	LLPB01571	LLLCS1489
SAMPLE NUMBER			WATER UG/L	SOIL MG/KG	WATER UG/L	WATER UG/L	WATER UG/L	SOIL MG/KG
MATRIX								
UNITS								
ENV PROBLEM NO								
POTASSIUM	IFEI	8000	1000 B	8150	1000 B	130 B	130 B	8700
% SOLIDS								
AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CORRAL H CRK DITCH
TYPE OF LOCATION		LLCCV1122	LLCCB1045	LLCCV1123	LLCCB1046	LLCCV1124	LLCCB1047	LL041016A
SAMPLE NUMBER			WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	SOIL MG/KG
MATRIX								
UNITS								
ENV PROBLEM NO								12
POTASSIUM	IFEI	1000 B	100 U	1100 B	100 U	1000 B	100 U	1200
% SOLIDS								99.7
AREA	METHOD	QA	QA	QA	QA	GSA AREA	GSA AREA	GSA AREA
LOCATION		CORRAL H CRK DITCH	CORRAL H CRK DITCH	CONTINUING CAL FOUND	CONTINUING CAL BLANK	WELLS	WELLS	WELLS
TYPE OF LOCATION		LL041027A	LL041038A	LLCCV1125	LLCCB1048	LL036042C	LL036053C	LL036064C
SAMPLE NUMBER				WATER UG/L	WATER UG/L	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG
MATRIX						9	9	9
UNITS								
ENV PROBLEM NO		12	12					
POTASSIUM	IFEI	1100	2900	1000 B	100 U	2900	4200	3500
% SOLIDS		99.7	96.3			83.1	82.3	85.1

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TABLE D.2.16 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016K

AREA	M	E	GSA AREA	STP OVERFLOW POND	STP OVERFLOW POND	STP OVERFLOW POND	LAS POSITAS ARROYO	LAS POSITAS ARROYO	QA
LOCATION	T	H	WELLS	POND	POND	POND	ARROYO	ARROYO	CONTINUING CAL FOUND
TYPE OF LOCATION	O	D	LL036235C	LL037010C	LL037021C	LL037032C	LL009016C	LL009027C	LLCCV1126
SAMPLE NUMBER									
MATRIX			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS			MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	
ENV PROBLEM NO			9	10	10	10	1	1	
POTASSIUM		FEI	2800	1500	3200	3400	2700	2900	1100 B
% SOLIDS			85.3	99.6	98.5	99.1	97.3	93.8	
AREA	M	E	QA						
LOCATION	T	H	CONTINUING	LAS POSITAS	GSA AREA	GSA AREA	GSA AREA	N OF 875	N OF 875
TYPE OF LOCATION	O	D	CAL BLANK	ARROYO	WELLS	WELLS	WELLS	CULVERT	CULVERT
SAMPLE NUMBER			LLCCB1049	LL009038C	LL036133C	LL036144C	LL036155C	LL030013C	LL030024C
MATRIX			WATER	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS			UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO				1	9	9	9	6	6
POTASSIUM		FEI	100 U	2500	3100	2900	3300	2600	2100
% SOLIDS				97.9	89.7	87.8	88.7	93.5	94.2
AREA	M	E	QA	QA	QA	QA	QA	QA	QA
LOCATION	T	H	N OF 875	N OF 875	DUPLICATE	CONTINUING	DUPLICATE	CONTINUING	PREP
TYPE OF LOCATION	O	D	CULVERT	CULVERT	CAL FOUND	CAL FOUND	RPD	CAL BLANK	BLANK
SAMPLE NUMBER			LL030035C	LL030046C	LL030046C	LLCCV1127	LL030046C	LLCCB1043	LLPB01572
MATRIX			SOIL	SOIL	SOIL	WATER	X	WATER	WATER
UNITS			MG/KG	MG/KG	MG/KG	UG/L	6	UG/L	UG/L
ENV PROBLEM NO			6	6	6				
POTASSIUM		FEI	4100	3500	3500	1100 B	0	100 U	100 U
% SOLIDS			89.2	94.5	94.5				

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TABLE D.2.16 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL009016K

AREA	M E	QA						
LOCATION	T H	PREP	875/878	875/878	875/878	STP MAIN	STP MAIN	STP MAIN
TYPE OF LOCATION	O D	BLANK	CULVERT	CULVERT	CULVERT	POND	POND	POND
SAMPLE NUMBER		LLPB01573	LL029010C	LL029021C	LL029032C	LL038011C	LL038022C	LL038033C
MATRIX		WATER	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS		UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO			6	6	6	10	10	10
POTASSIUM	F E	100 U	1700	3600	2900	1900	2000	2200
% SOLIDS			91.2	88.1	91.3	42.4	48.9	49.6
AREA	M E				QA	QA		
LOCATION	T H	STP MAIN	GSA AREA	GSA AREA	GSA AREA	CONTINUING	CONTINUING	CORRAL H CRK
TYPE OF LOCATION	O D	POND	WELLS	WELLS	WELLS	CAL FOUND	CAL BLANK	ARROYO
SAMPLE NUMBER		LL038055C	LL036075C	LL036086C	LL036097C	LLCCV1128	LLCCB1044	LL040015A
MATRIX		SOIL	SOIL	SOIL	SOIL	WATER	WATER	SOIL
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L	MG/KG
ENV PROBLEM NO		10	9	9	9			12
POTASSIUM	F E	2000	780	2600	3000	1100 B	100 U	3100
% SOLIDS		65.9	97	85	86.5			97.6
AREA	M E				QA	QA		
LOCATION	T H	CORRAL H CRK	DUPLICATE	DUPLICATE				
TYPE OF LOCATION	O D	ARROYO	ARROYO	CREEK	CREEK	CREEK	RPD	LL042039A
SAMPLE NUMBER		LL040026A	LL040037A	LL042017A	LL042028A	LL042039A	LL042039A	LL042039A
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	%
ENV PROBLEM NO		12	12	12	12	12	12	12
POTASSIUM	F E	1700	1600	1100	940	750	1200	450
% SOLIDS		98.5	98.9	98.3	99.6	99.4	99.4	

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TABLE D.2.17 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010C

AREA	METHOD	QA LINEAR RANGE ANALYSIS LLLRA1530	QA INTER CHK SOL. A TRUE LLICSV1359	QA WATER UG/L	QA INITIAL CAL TRUE A LLICV1391	QA WATER UG/L	QA INITIAL CAL TRUE B LLICV1412	QA WATER UG/L	QA INITIAL CAL TRUE C LLICV1428	QA WATER UG/L	QA LAB CONTROL SAMPLE TRUE LLLCS1512	QA OIL MG/KG	QA LAB CONTROL SAMPLE TRUE LLLCS1513	SOIL MG/KG
D-05	P	7500	508000	100000	990				5000	10	15200			
	P	10000			1000					6.6	20 U			
	P	20000			1000					10	680			
	P	5000	483		990					1	430			
	P	1500	474		240					10	U			
	P	5000	909		244					10	U			
	P	10000	516000		24900				5000	10	10500			
	P	10000	513		253					10	17			
	P	10000	478		237					10	6.9			
	P	10000	534		271					10	265			
	P	12000	203000	100000	995					10	11200			
	P	50000	4850		2250					10	5830			
	P	12000	509000	50000						10	14700			
	P	2500	531	50000	256					10	91700			
	P	15000	916		248					10	22			
	P	10000			1000					10	1			
	P	10000	993		254					10	2			
	P	10000			100000					10	3720			
	P	10000	475		255					10	18			
	P	6000	973		1550					10	425			
X SOLIDS														

AREA	METHOD	QA INITIAL CAL FOUND A LLICV1373	QA INITIAL CAL FOUND B LLICV1404	QA INITIAL CAL FOUND C LLICV1420	QA BLANK WATER UG/L	QA INITIAL CAL BLANK WATER UG/L	QA INTER CHK SOL. A INIT LLICB1325	QA PREP BLANK WATER UG/L	QA PREP BLANK WATER UG/L
D-05	P	101000	1080		60 U	500000	75 B	70 B	
	P		1020		30 U		30 U	30 U	
	P	986			30 U		30 U	30 U	
	P	989			2 U	452	2.5 B	2 B	
	P	251			0.3 U	445	0.3 U	0.3 U	
	P	243			2 U	855	2 U	2 U	
	P	26300	4850 B	200 U	487000	200 U	200 U	200 U	200 U

TABLE D.2.17 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010C

AREA	METHOD	QA INITIAL CAL FOUND A LLICV1373	QA INITIAL CAL FOUND B LLICV1404	QA INITIAL CAL FOUND C LLICV1420	QA INITIAL CAL BLANK LLICB1325	QA INITIAL CAL SOL. A INIT LLICS1351	QA PREP BLANK LLPB01574	QA PREP BLANK LLPB01575	
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	D WATER UG/L	262 247 261 988 103000 2200 5100 49300 48800 256 244 1050 247 98500 5240 200 269 1540	262 247 261 988 103000 2200 5100 49300 48800 256 244 1050 247 98500 5240 200 269 1540	262 247 261 988 103000 2200 5100 49300 48800 256 244 1050 247 98500 5240 200 269 1540	6 U 3 U 10 U 20 U 30 U 10 U 5 U 6 U 50 U 6 U 6 U 6 U 6 U 3 U	464 434 495 183000 4270 480000 476 817 911 458 921	6 U 3 U 10 U 29 B 30 U 10 U 5 U 6 U 50 U 6 U 6 U 6 U 6 U 3 U	6 U 3 U 10 U 29 B 30 U 10 U 5 U 6 U 50 U 6 U 6 U 6 U 6 U 3 U	6 U 3 U 10 U 96 B 30 U 24 B 5 U 6 U 50 U 6 U 6 U 200 U 4 U 3 U

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AREA	METHOD	QA LAB CONTROL SAMPLE LLLCSI490	ARROYO SECO ARROYOS SN001019D	ARROYO SECO ARROYOS SN001020D	ARROYO SECO ARROYOS SN001031D	ARROYO SECO ARROYOS SN002010D	CONTINUING CAL FOUND LLCCV1129	CONTINUING CAL FOUND LLCCV1179
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	D SOIL MG/KG	17500 5.7 U 642 424 0.83 1.3 10600 1.1 U 5 262 11800 5340 16000 96000	8660 * 4.8 BN 4 UN 4 UN 0.33 B 0.68 5460 * 28 E 6.6 B 16 17300 * 8.2 B 4520 468 *	10200 * 4 UN 4 UN 367 0.37 B 0.72 5300 * 26 E 7.1 17 18100 * 7.4 B 4710 1890 *	7720 * 4.3 BN 3.8 UN 113 0.32 B 0.66 5020 * 25 E 5.3 B 17 17800 * 8.1 B 4350 315 *	16700 * 9.2 BN 5.8 UN 248 0.59 B 1 4770 * 37 E 9.1 B 45 22500 * 27 B 5080 602 *	100000 1020 985 985 247 246 26200 258 244 251 966 102000 2170 49500 51200	1050 985 985 247 246 26200 258 244 251 966 102000 2170 49500 51200

TABLE D.2.17 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010C

AREA	M	QA	LAB CONTROL	ARROYO SECO	ARROYO SECO	ARROYO SECO	ARROYO SECO	QA	QA
LOCATION	E		SAMPLE	ARROYOS	ARROYOS	ARROYOS	ARROYOS	CONTINUING	CONTINUING
TYPE OF LOCATION	T		LLLCI1490	SN001019D	SN001020D	SN001031D	SN002010D	CAL FOUND	CAL FOUND
SAMPLE NUMBER	H		SOIL	SOIL	SOIL	SOIL	SOIL	LLCCV1129	LLCCV1179
MATRIX	O		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	WATER	WATER
UNITS	D			1	1	1	1	UG/L	UG/L
ENV PROBLEM NO									
NICKEL	P		22	36 NX	43 NX	34 NX	43 NX		249
SELENIUM	P		9.5 U	6.7 UN	6.7 UN	6.4 UN	9.6 UN		1030
SILVER	P		5.9	0.8 U	1.1 B	0.77 U	1.2 U		232
SODIUM	P		3350	172 B	204 B	160 B	629 B	96200	
VANADIUM	P		11	30	31	26	46		255
ZINC	P		431	43	44	37	265		1470
% SOLIDS	I	I		99.2	98.9	99.4	68.7		
AREA	M	QA	QA	CONTINUING	CONTINUING	ARROYO SECO	ARROYO SECO	ARROYO SECO	ARROYO SECO
LOCATION	E			CAL FOUND	CAL BLANK	ARROYOS	ARROYOS	ARROYOS	ARROYOS
TYPE OF LOCATION	T			LLCCV1214	LLCCB1050	SN002021D	SN002032D	SN003011D	SN003022D
SAMPLE NUMBER	H			WATER	WATER	SOIL	SOIL	SOIL	SOIL
MATRIX	O			UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
UNITS	D					1	1	1	1
ENV PROBLEM NO									
ALUMINUM	P			60 U	9350 X	7690 X	6930 X	10400 X	8730 X
ANTIMONY	P			30 U	6.2 BN	4.1 UN	5.6 BN	4.2 UN	4.1 UN
ARSENIC	P			30 U	4.2 UN	4.1 UN	4.3 UN	4.2 UN	4.1 UN
BARIUM	P			2 U	175	173	97	155	142
BERYLLIUM	P			0.3 U	0.38 B	0.31 B	0.26 B	0.39 B	0.34 B
CADMIUM	P			2 U	0.81	0.53 B	0.75	0.7	0.59 B
CALCIUM	P			4820 B	200 U	2890 X	3640 X	3020 X	3600 X
CHROMIUM	P				6 U	23 E	20 E	23 E	28 E
COBALT	P				3 U	6.6 B	9.8	5.2 B	6.6 B
COPPER	P				10 U	15	14	19	26
IRON	P				20 U	15700 X	14800 X	15700 X	18800 X
LEAD	P				30 U	8.5 B	7.4 B	7.5 B	11 B
MAGNESIUM	P				4840 B	10 U	3520	3910	4350
MANGANESE	P					5 U	443 X	619 X	503 X
NICKEL	P					6 U	32 NX	33 NX	39 NX
SELENIUM	P					50 U	7 UN	6.8 UN	7.2 UN
SILVER	P					6 U	0.84 U	0.93 B	1.2 B
SODIUM	P					5050	200 U	301 B	230 B
VANADIUM	P						4 U	31	25
ZINC	P						3 U	42	40
% SOLIDS	I	I					97.8	98.4	98.4
								97.6	98.4

TABLE D.2.17 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010C

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AREA	M	E	T	H	O	D	N OF 4TH ST		N OF 4TH ST		N OF 4TH ST		BLDG. 612	BLDG. 612	CONTINUING	QA	QA
							ARROYO	ARROYO	ARROYO	ARROYO	DITCH	DITCH	CAL FOUND	CAL FOUND			
LOCATION	LL011010C	LL011021C	LL011032C	LL013012C	LL013023C								LLCCV1130	WATER	WATER	CONTINUING	CONTINUING
TYPE OF LOCATION							SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	UG/L	UG/L	CAL FOUND	CAL FOUND
SAMPLE NUMBER							MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L	LLCCV1130	WATER
MATRIX																	WATER
UNITS							1	1	1	3	3	3	3				UG/L
ENV PROBLEM NO																	
ALUMINUM	P	17400	*	12100	*	12000	*	31300	*	12200	*	96800					
ANTIMONY	PP	5 BN		4.5 UN		5.7 BN		4.6 UN		4.7 UN							
ARSENIC	PP	4.5 UN		4.5 UN		4.4 UN		4.6 UN		4.7 UN							
BARIUM	PP	220		171		146		272		175							
BERYLLIUM	PP	0.57 B		0.4 B		0.4 B		0.92		0.48 B							
CADMUM	PP	1.1		1.7		2		1.1		0.67 B							4960 B
CALCIUM	PP	4320 *		4260 *		3920 *		5070 *		3320 *							
CHROMIUM	PP	43 E		32 E		34 E		57 E		32 E							
COBALT	PP	8.7		9.3		7.8		10		9.9							
COPPER	PP	30		31		42		22		19							
IRON	PP	25700 *		23500 *		21900 *		31700 *		16500 *		98700					
LEAD	PP	26 B		58		84		8.8 B		11 B							
MAGNESIUM	PP	6160		5110		5830		5780		3440		49600					4560 B
MANGANESE	PP	572 *		645 *		654 *		628 *		578 *		52700					
NICKEL	PP	56 NX		47 NX		45 NX		67 NX		39 NX							
SELENIUM	PP	7.5 UN		7.5 UN		7.4 UN		7.6 UN		7.8 UN							
SILVER	PP	1.6		1.4 B		1.6		0.98 B		0.94 U							
SODIUM	PP	205 B		234 B		177 B		396 B		200 B		93000					5180
VANADIUM	PP	37		29		33		59		38							
ZINC	P	159		355		445		51		33							
% SOLIDS	I	I	85.7		90.8		85.1		83		89.9						

AREA	M	E	T	H	O	D	QA		QA		GSA AREA		GSA AREA		GSA AREA		QA
							CONTINUING	CAL BLANK	CONTINUING	CAL FOUND	BLDG. 612	DITCH	WELLS	WELLS	WELLS	WELLS	SERIAL
LOCATION	LLCCB1051	LLCCV1180	LL013034C	LL036019C	LL036020C	LL036031C	LL036031C	LL036031C	LL036031C	LL036031C	LL036031C	LL036031C	LL036031C	LL036031C	LL036031C	LL036031C	DILUTION
TYPE OF LOCATION																	
SAMPLE NUMBER																	
MATRIX																	
UNITS																	
ENV PROBLEM NO																	
ALUMINUM	P	60 U		1010		10400 *		26100 *		24200 *		20600 *		5.1 UN		20100	
ANTIMONY	PP	30 U		992		4.5 UN		5 UN		5.5 UN		5.1 UN		5.1 UN		25 U	
ARSENIC	PP	30 U		949		4.5 UN		5 UN		5.5 UN		5.1 UN		5.1 UN		25 U	
BARIUM	PP	2 U		971		153		142		401		118		118		126	
BERYLLIUM	PP	0.3 U		245		0.45 B		1.5		1.5		1.4		1.4		1.4	
CADMUM	PP	2.3 B		235		0.48 B		1.3		0.97		0.91		0.91		1.7 U	
CALCIUM	P	200 U		25100		3000 *		17700 *		23500 *		29200 *		29200 *		29600	

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TABLE D.2.17 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010C

AREA	METHOD	QA CONTINUING CAL BLANK LLCCB1051 WATER UG/L	QA CONTINUING CAL FOUND LLCCV1180 WATER UG/L	BLDG. 612 DITCH LL013034C SOIL MG/KG 3	GSA AREA WELLS LL036019C SOIL MG/KG 9	GSA AREA WELLS LL036020C SOIL MG/KG 9	GSA AREA WELLS LL036031C SOIL MG/KG 9	QA SERIAL DILUTION LL036031C SOIL MG/KG 9
CHROMIUM	P	6 U	254	31 E	24 E	18 E	19 E	21
COBALT	PP	3 U	245	11	15	14	15	12
COPPER	PP	10 U	259	19	52	47	46	50
IRON	PP	20 U	956	15600 X	30800 X	27900 X	23800 X	25800
LEAD	PP	30 U	2140	8.4 B	12 B	15 B	14 B	25 U
MAGNESIUM	PP	10 U		3230	13000	12100	11300	11800
MANGANESE	PP	5 U	248	650 X	366 X	1200 X	1230 X	1150
NICKEL	PP	6 U	235	34 NX	26 NX	32 NX	37 NX	35
SELENIUM	PP	50 U	1040	7.5 UN	8.4 UN	9.2 UN	8.4 UN	42 U
SILVER	PP	6 U	247	1.3 B	1.8	2.4	2.6	5.5
SODIUM	PP	200 U		187 B	1220	1000	1130	754 B
VANADIUM	PP	4 U	264	43	62	69	50	53
ZINC	P	3 U	1500	33	86	80	69	73
% SOLIDS				87.6	76	75.2	75.7	75.7
AREA	METHOD	QA SD X DIFFERENCE LL036031C	QA DUPLICATE LL036031C	QA DUPLICATE RPD LL036031C	QA MATRIX SPIKE LL036031C	QA MS X RECOVERY LL036031C	QA LAB CONTROL SAMPLE LLLCS1491	QA GSA AREA GSA AREA LL031150C
ALUMINUM	P	2.4	27600	29	24100	15	18	16700
ANTIMONY	PP		5.3 U		10 B	59	6 U	9290 X
ARSENIC	PP		5.3 U		413	88	643	4.3 UN
BARIUM	PP	6.8	110	8	9.9	101	448	4.3 UN
BERYLLIUM	PP		1.5	0.1	9.2	99	0.9	165
CADMIUM	PP		0.88 B	0.03			0.85	0.49 B
CALCIUM	PP	1.4	22100	28	11800		10800	1.1
CHROMIUM	PP		23	19	53	100	1.2 U	23 E
COBALT	PP		13	2	88	87	5.5	6 B
COPPER	PP		47	2.2	81	83	261	26
IRON	PP	8.4	29300	21	25700	90	5580	26 B
LEAD	PP		12 B				12200	15800 X
MAGNESIUM	PP	4.4	12300	8.5	11600	90	15900	5290
MANGANESE	PP	6.5	807	42	377		99200	520 X

TABLE D.2.17 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010C

AREA	METHOD	QA SD % DIFFERENCE	QA DUPLICATE LL036031C	QA DUPLICATE RPD LL036031C	QA MATRIX SPIKE LL036031C	QA MS % RECOVERY LL036031C	QA LAB CONTROL SAMPLE LLLCS1491	GSA AREA GSA AREA LL031150C
LOCATION		% 9		% 9		% 9	SOIL MG/KG	SOIL MG/KG
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
NICKEL	P		30	7	97	71	21	25 NX
SELENIUM	PP		8.9 U		8.4 U		9.9 U	7.2 UN
SILVER	PP		2.8	0.2	10	88	8.6	2.4
SODIUM	PP		1390	260	1290		2940	704 B
VANADIUM	PP	6	59	17	128	93	13	40
ZINC	P	5.8	79	14	162	111	446	87
% SOLIDS	I	I	75.7		75.7			91.4
AREA	METHOD	QA GSA AREA GSA AREA LL031161C	QA PREP BLANK LLPB01576	QA PREP BLANK LLPB01577	QA CONTINUING CAL FOUND LLCCV1131	QA CONTINUING CAL FOUND LLCCV1181	QA CONTINUING CAL FOUND LLCCV1216	QA CONTINUING CAL BLANK LLCCB1052
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	10200 X	60 U	60 U	95100	997		60 U
ANTIMONY	PP	4.4 UN	30 U	30 U		998		30 U
ARSENIC	PP	4.4 UN	30 U	30 U		968		30 U
BARIUM	PP	170	2 U	2 U		990		2 U
BERYLLIUM	PP	0.5 B	0.3 U	0.3 U		248		0.3 U
CADMIUM	PP	1	2 U	2 U		239		2 U
CALCIUM	PP	8130 X	200 U	200 U		25600	4730 B	200 U
CHROMIUM	PP	24 E	6 U	6 U		260		6 U
COBALT	PP	6.5 B	3 U	3 U		248		3 U
COPPER	PP	25	10 U	10 U		261		10 U
IRON	PP	17200 X	22 B	23 B	98700	983		200 U
LEAD	PP	27 B	30 U	30 U		2170		30 U
MAGNESIUM	PP	5250	10 U	10 U	49000		4980 B	10 U
MANGANESE	PP	485 X	5 U	5 U	52700	254		5 U
NICKEL	PP	26 NX	6 U	6 U		238		6 U
SELENIUM	PP	7.3 UN	50 U	50 U		1050		50 U
SILVER	PP	2.1	6 U	6 U		254		6 U
SODIUM	PP	831	200 U	200 U	88600		4910 B	200 U
VANADIUM	PP	43	4 U	4 U		271		4 U
ZINC	P	85	3 U	3 U		1520		3 U
% SOLIDS	I	I	93.2					

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TABLE D.2.17 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010C

AREA	M	GSA AREA						
LOCATION	T	GSA AREA						
TYPE OF LOCATION	H	LL031105C	LL031116C	LL031127C	LL031070C	LL031081C	LL031092C	LL031014C
SAMPLE NUMBER	O							
MATRIX	D	SOIL						
UNITS		MG/KG						
ENV PROBLEM NO		6	6	6	6	6	6	6
ALUMINUM	P	11500 *	10500 *	10900 *	12400 *	10500 *	16800 *	16100 *
ANTIMONY	P	4.2 UN	4.2 UN	4.1 UN	4.2 UN	4.1 UN	5 BN	4.2 UN
ARSENIC	P	4.2 UN	4.2 UN	4.1 UN	4.2 UN	4.1 UN	4.3 UN	4.2 UN
BARIUM	P	172	151	198	122	157	254	301
BERYLLIUM	P	0.52 B	0.51 B	0.52 B	0.59 B	0.53 B	0.78	0.8
CADMUM	P	1.3	1	1.1	1.5	1.8	1.3	0.74
CALCIUM	P	12100 *	11000 *	11800 *	11800 *	11100 *	11800 *	8900 *
CHROMIUM	P	28 E	25 E	24 E	24 E	28 E	28 E	26 E
COBALT	P	7.6	7.2	6.4 B	7.2	7.9	8.4	9.4
COPPER	P	43	42	44	380	36	32	92
IRON	P	20200 *	18100 *	19300 *	18000 *	18600 *	22800 *	22200 *
LEAD	P	28	18 B	18 B	23 B	53	29	13 B
MAGNESIUM	P	6820	5980	6020	5660	5720	7570	7670
MANGANESE	P	635 *	513 *	685 *	457 *	621 *	648 *	684 *
NICKEL	P	31 NX	31 NX	30 NX	27 NX	27 NX	27 NX	29 NX
SELENIUM	P	7 UN	7 UN	6.9 UN	7 UN	6.9 UN	7.1 UN	7 UN
SILVER	P	1.5	1.5	1.5	1.6	1.9	1.5	1.7
SODIUM	P	861	761	692 U	1120	967	763	882
VANADIUM	P	53	51	51	53	51	65	58
ZINC	P	71	65	72	133	128	203	68
% SOLIDS	I	97.7	98	97.6	98.3	98.8	98.2	97.6

AREA	M	GSA AREA	GSA AREA	GSA AREA	CONTINUING	CONTINUING	CONTINUING	CONTINUING
LOCATION	T	GSA AREA	GSA AREA	GSA AREA	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK
TYPE OF LOCATION	H	LL031025C	LL031036C	LL031047C	LLCCV1132	LLCCV1182	LLCCV1217	LLCCB1053
SAMPLE NUMBER	O							
MATRIX	D	SOIL	SOIL	SOIL	WATER	WATER	WATER	WATER
UNITS		MG/KG	MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		6	6	6				
ALUMINUM	P	17000 *	16500 *	14700 *	96000	1010	60 U	
ANTIMONY	P	4.2 UN	4.3 UN	4.2 UN		1030	30 U	
ARSENIC	P	4.2 UN	4.3 UN	4.2 UN		954	30 U	
BARIUM	P	281	286	193		980	30 U	
BERYLLIUM	P	0.83	0.81	0.68 B		247	0.3 U	
CADMUM	P	0.91	0.78	0.65 B		238	2 U	
CALCIUM	P	13200 *	9400 *	7630 *		25500	4790 B	200 U

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TABLE D.2.17 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010C

AREA	METHOD	GSA AREA GSA AREA LL031025C	GSA AREA GSA AREA LL031036C	GSA AREA SOIL MG/KG	GSA AREA SOIL MG/KG	CONTINUING CAL FOUND LLCCV1132	CONTINUING CAL FOUND LLCCV1182	CONTINUING CAL FOUND LLCCV1217	CONTINUING CAL BLANK LLCCB1053
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		6	6	6	UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L
CHROMIUM	P	27 E	28 E	26 E		260			6 U
COBALT	PP	10	9.4	7.2		248			3 U
COPPER	PP	24	23	19		263			10 U
IRON	PP	23400 *	22800 *	22300 *	98400	979			20 U
LEAD	PP	12 B	16 B	14 B		2180		5090	30 U
MAGNESIUM	PP	8290	7350	6060	49500	253			10 U
MANGANESE	PP	682 *	638 *	572 *	53200	239			5 U
NICKEL	PP	30 Nx	27 Nx	24 Nx		1060			6 U
SELENIUM	PP	7 UN	7.1 UN	7 UN		253			50 U
SILVER	PP	1.6	2.1	1.7				4920 B	6 U
SODIUM	PP	934	1000	1280	91700	271			200 U
VANADIUM	PP	60	64	64					4 U
ZINC	P	67	65	71		1520			3 U
% SOLIDS	I	97.5	97.3	98.3					

AREA	METHOD	GSA AREA GSA AREA LL031058C	GSA AREA GSA AREA LL031069C	SANDIA CROSS INACTIVE SIT SN010010C	SANDIA CROSS INACTIVE SIT SN010021C	SANDIA CROSS INACTIVE SIT SN010032C	SANDIA CROSS INACTIVE SIT SN010043C	SANDIA CROSS INACTIVE SIT SN010054C
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		6	6	4	4	4	4	4
ALUMINUM	P	14900 *	15400 *	13600 *	12700 *	9770 *	12900 *	10100 *
ANTIMONY	PP	4.1 UN	4.2 UN	4.1 UN	4.1 UN	4.1 UN	4.1 UN	4.1 UN
ARSENIC	PP	4.1 UN	4.2 UN	4.1 UN	4.1 UN	4.1 UN	8.8 BN	4.1 UN
BARIUM	PP	196	260	189	199	192	422	158
BERYLLIUM	PP	0.65 B	0.68 B	0.44 B	0.42 B	0.38 B	0.75	0.4 B
CADMUM	PP	0.93	0.72	0.64 B	0.95	1.7	4.7	9.3
CALCIUM	PP	7240 *	9180 *	4600 *	4390 *	3320 *	168000 *	15400 *
CHROMIUM	PP	25 E	25 E	40 E	38 E	36 E	42 E	54 E
COBALT	PP	7.7	7.4	9	9.9	8.2	4.9 B	5.7 B
COPPER	PP	19	21	23	25	22	40	40
IRON	PP	21000 *	20900 *	22400 *	20900 *	17300 *	15100 *	18500 *
LEAD	PP	14 B	11 B	15 B	44	12 B	33	69
MAGNESIUM	P	5880	6340	6350	5750	4700	10700	4660
MANGANESE	P	584 *	643 *	627 *	589 *	493 *	484 *	323 *

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TABLE D.2.17 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010C

AREA	M	GSA AREA	GSA AREA	SANDIA CROSS				
LOCATION	T	GSA AREA	GSA AREA	INACTIVE SIT				
TYPE OF LOCATION	H	LL031058C	LL031069C	SN010010C	SN010021C	SN010032C	SN010043C	SN010054C
SAMPLE NUMBER	O							
MATRIX	D	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		6	6	4	4	4	4	4
NICKEL	P	23 NX	23 NX	52 NX	132 NX	45 NX	41 NX	68 NX
SELENIUM		6.9 UN	7.1 UN	6.9 UN	6.8 UN	6.8 UN	6.9 UN	6.9 UN
SILVER	P	1 B	1 B	1.2 B	0.87 B	0.82 U	4	3.6
SODIUM	P	1230	1250	192 B	245 B	133 B	687 U	473 B
VANADIUM	P	64	59	37	36	35	64	33
ZINC	P	68	69	89	96	168	457	1900
% SOLIDS	I	97.8	98.2	98.1	99	99	98.4	99.4
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	T	SERIAL	SD X	DUPLICATE	DUPLICATE	MATRIX	MS X	CONTINUING
TYPE OF LOCATION	H	DILUTION	DIFFERENCE	SN010054C	SN010054C	SN010054C	RECOVERY	CAL FOUND
SAMPLE NUMBER	O	SN010054C	SN010054C	SN010054C	SN010054C	SN010054C	SN010054C	LLCCV1133
MATRIX	D	SOIL	SOIL	SOIL	SOIL	SOIL	%	WATER
UNITS		MG/KG	%	MG/KG	%	MG/KG	%	UG/L
ENV PROBLEM NO		4	4	4	4	4	4	
ALUMINUM	P	9190	9	9520	5.9	10100		93100
ANTIMONY	P	21 U		4.6 B		22		31
ARSENIC	P	21 U		4.1 U		8.5 B		61
BARIUM	P	165	4.4	191	19	438		100
BERYLLIUM	P	0.35 B		0.38 B		7.3		99
CADMIUM	P	10		9.4	1.1	17		110
CALCIUM	P	15700	1.9	17200	11	16400		
CHROMIUM	P	61	13	52	3.8	77		82
COBALT	P	4.9 B		6.1 B		68		89
COPPER	P	42		38	5.1	71		89
IRON	P	19500	5.4	16800	9.6	17300		97100
LEAD	P	87		68	1	129		86
MAGNESIUM	P	4600	1.3	4250	9.2	4350		48100
MANGANESE	P	336	4	552	52	477		51800
NICKEL	P	74	8.8	64	6.1	128		86
SELENIUM	P	34 U		6.8 U		6.8 U		
SILVER	P	6		3.3	0.3	11		106
SODIUM	P	337 B		490 B		530 B		86800
VANADIUM	P	32	3	31	2	98		93
ZINC	P	1810	4.7	1570	19	1720		
% SOLIDS	I	99.4		99.4		99.4		

TABLE D.2.17 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010C

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AREA	METHOD	QA CONTINUING CAL FOUND LLCCV1183 WATER UG/L	QA CONTINUING CAL FOUND LLCCV1218 WATER UG/L	QA CONTINUING CAL BLANK LLCCB1054 WATER UG/L	QA PREP BLANK LLPB01578 WATER UG/L	QA PREP BLANK LLPB01579 WATER UG/L	QA LAB CONTROL SAMPLE LLLCS1492 OIL MG/KG	QA DIESEL TANKR TANKS LL035018B OIL MG/KG 8
ALUMINUM	P	1020		60 U	107 B	60 U	9.9	0.34 U
ANTIMONY	PP	995		30 U	30 U	30 U	0.58	0.17 U
ARSENIC	PP	952		30 U	30 U	30 U	9.3	0.011 U
BARIUM	PP	974		2 U	4.7 B	2 U		0.0017 U
BERYLLIUM	PP	245		0.3 U	0.3 U	0.3 U		0.011 U
CADMUM	PP	236		2 U	2 U	2 U		1.1 U
CALCIUM	PP	25500	4760 B	200 U	200 U	200 U	11	0.034 U
CHROMIUM	PP	257		6 U	6 U	6 U	9.9	0.017 U
COBALT	PP	245		3 U	3 U	3 U		0.057 U
COPPER	PP	259		10 U	16 B	10 U	10	0.28 B
IRON	PP	966		20 U	53 B	32 B		0.17 U
LEAD	PP	2130		30 U	30 U	30 U	9.8	0.17 B
MAGNESIUM	PP	5000		10 U	30 B	14 B	10	0.028 U
MANGANESE	PP	250		5 U	5 U	5 U	9.7	0.034 U
NICKEL	PP	234		6 U	6 U	6 U	4.3	0.28 U
SELENIUM	PP	1040		50 U	50 U	50 U	1.8	0.034 U
SILVER	PP	247		6 U	6 U	6 U		1.1 UE
SODIUM	PP	4830 B		200 U	292 B	200 U	14	0.023 U
VANADIUM	PP	266		4 U	4 U	4 U	9.9	0.098 B
ZINC	P	1490		3 U	27	7 B	10	
% SOLIDS							100	

AREA	METHOD	DIESEL TANKR TANKS LL035029B	DIESEL TANKR TANKS LL035030B	DIESEL TANKR TANKS LL035041B	DIESEL TANKR TANKS LL035052B	DIESEL TANKR TANKS LL035063B	SERIAL DILUTION LL035063B	SD % DIFFERENCE LL035063B
ALUMINUM	P	0.34 U	0.34 U	0.34 U	0.87 B	1.4	1.7 U	0.85 U
ANTIMONY	PP	0.17 U	0.17 U	0.17 U	0.18 U	0.17 U	0.5 B	0.85 U
ARSENIC	PP	0.17 U	0.17 U	0.25 B	0.33 B	0.18 B	0.13 B	
BARIUM	PP	0.027 B	0.012 B	0.063 B	0.1 B	0.017 U	0.0085 U	0.12
BERYLLIUM	PP	0.0017 U	0.0017 U	0.0017 U	0.0018 U	0.0017 U	24 B	24 B
CADMUM	PP	0.011 U	0.011 U	0.044	0.092	0.15		
CALCIUM	P	1.1 U	1.1 U	7 B	14 B	24 B		

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TABLE D.2.17 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010C

AREA	METHOD	DIESEL TANKR TANKS LL035029B	DIESEL TANKR TANKS LL035030B	DIESEL TANKR TANKS LL035041B	DIESEL TANKR TANKS LL035052B	DIESEL TANKR TANKS LL035063B	SERIAL DILUTION LL035063B	QA	QA
LOCATION		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	SD %	DIFFERENCE
TYPE OF LOCATION		8	8	8	8	8	8		LL035063B
SAMPLE NUMBER								%	8
MATRIX		OIL	OIL	OIL	OIL	OIL	OIL		
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG		
ENV PROBLEM NO									
CHROMIUM	P	0.034 U	0.034 U	0.063	0.089	0.14	0.17 U		
COBALT	P	0.017 U	0.017 U	0.017 U	0.018 U	0.017 U	0.085 U		
COPPER	P	0.097 B	0.082 B	0.27	0.46	0.68	0.75		
IRON	P	0.38 B	0.36 B	21	42	82	80	2.4	
LEAD	P	0.17 U	0.17 U	1.1 B	2	3.4	3.2		
MAGNESIUM	P	0.2 B	0.32 B	1.4 B	2.9 B	4.7 B	4.9 B	4.3	
MANGANESE	P	0.029 U	0.028 U	0.31	0.6	1	1.1		
NICKEL	P	0.034 U	0.034 U	0.087 B	0.11 B	0.19 B	0.18 B		
SELENIUM	P	0.29 U	0.28 U	0.29 U	0.3 U	0.28 U	1.4 U		
SILVER	P	0.066	0.034 U	0.083	0.087	0.034 U	0.17 U		
SODIUM	P	1.8 BE	1.1 UE	50 E	96 E	161 E	182	13	
VANADIUM	P	0.023 U	0.023 U	0.023 U	0.024 U	0.023 U	0.11 U		
ZINC	P	0.093 B	0.13	1.1	2.3	3.9	3.8	2.6	
% SOLIDS		100	100	100	100	100	100		

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION		DUPLICATE	DUPLICATE	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	INTER CHK
TYPE OF LOCATION		RPD	LL035063B	CAL FOUND	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	SOL. A FINAL
SAMPLE NUMBER		LL035063B	LL035063B	LLCCV1134	LLCCV1184	LLCCV1219	LLCCB1055	LLCCB1055	LLICS1343
MATRIX		OIL	OIL	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		8	8						
ALUMINUM	P	0.99 B	0.41	95800	908			60 U	452000
ANTIMONY	P	0.17 U			964			30 U	
ARSENIC	P	0.53 B			918			30 U	
BARIUM	P	0.13 B			952			2 U	438
BERYLLIUM	P	0.0017 U			240			0.3 U	428
CADMUM	P	0.14	6.9		231			2 U	817
CALCIUM	P	0.24 B			24900	4580 B	200 U	460000	
CHROMIUM	P	0.19	0.05		252			6 U	448
COBALT	P	0.017 U			243			3 U	417
COPPER	P	0.67	0.01		251			10 U	474
IRON	P	73	12	96100	941			20 U	169000
LEAD	P	3.4	0		2110			30 U	4090
MAGNESIUM	P	4.3 B			49200		4790 B	10 U	456000
MANGANESE	P	1	0	52800	246			5 U	461

TABLE D.2.17 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010C

AREA	METHOD	QA DUPLICATE	QA RPD	QA CONTINUING	QA CAL FOUND	QA CONTINUING	QA CAL FOUND	QA CONTINUING	QA CAL BLANK	INTER CHK SOL. A FINAL
LOCATION		LL035063B	LL035063B	LLCCV1134	LLCCV1184	LLCCV1219	LLCCB1055	LLCCB1055	LLICCS1343	
TYPE OF LOCATION				WATER	WATER	WATER	WATER	WATER	WATER	
SAMPLE NUMBER				UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
MATRIX	D	OIL	X							
UNITS		MG/KG	8							
ENV PROBLEM NO.										
NICKEL	P	0.15 B			229			6 U		780
SELENIUM	PP	0.28 U			1010			50 U		
SILVER	PP	0.035 B			246			7.7 B		897
SODIUM	PP	161	0	92700			4760 B		200 U	
VANADIUM	PP	0.023 U			261			4 U		458
ZINC	P	3.8	2.6		1470			3 U		886
% SOLIDS	I	I	100							

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TABLE D.2.18 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010D

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LAB CONTROL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CONTINUING	CONTINUING	LAB CONTROL
TYPE OF LOCATION	T	SAMPLE TRUE	TRUE A	BLANK I	FOUND A	CAL BLANK	CAL FOUND	SAMPLE
SAMPLE NUMBER	H	LL0700105	LL2AA1005	LL03A0005	LL2AA2005	LL03A1005	LL2AA4005	LL0700105
MATRIX	O	SOIL	SOIL	SOIL	SOIL	SDIL	SDIL	SOIL
UNITS	D	MG/KG	UG/L	MG/KG	UG/L	MG/KG	UG/L	MG/KG
ENV PROBLEM NO								
<b>MERCURY</b>	<b> CV </b>	<b>19</b>	<b>10</b>	<b>0.01 U</b>	<b>10</b>	<b>0.01 U</b>	<b>10</b>	<b>18</b>
<b>% SOLIDS</b>	<b>   </b>							
AREA	M	QA		QA	QA		QA	QA
LOCATION	E	PREP	CORRAL H CRK	CORRAL H CRK	CONTINUING	CONTINUING	CORRAL H CRK	CORRAL H CRK
TYPE OF LOCATION	T	BLANK	DITCH	DITCH	CAL BLANK	CAL FOUND	DITCH	ARROYO
SAMPLE NUMBER	H	LL03A0005	LL041016B	LL041027B	LL03A2005	LL2AA5005	LL041038B	LL040015B
MATRIX	O	SOIL	SOIL	SOIL	SOIL	UG/L	SOIL	SOIL
UNITS	D	MG/KG	MG/KG	MG/KG	MG/KG		MG/KG	MG/KG
ENV PROBLEM NO			12	12			12	12
<b>MERCURY</b>	<b> CV </b>	<b>0.003 U</b>	<b>0.47</b>	<b>0.03 B</b>	<b>0.01 U</b>	<b>10</b>	<b>0.05</b>	<b>0.1</b>
<b>% SOLIDS</b>	<b>   </b>		<b>100</b>	<b>100</b>			<b>97</b>	<b>97</b>
AREA	M		QA	QA	QA	QA	QA	QA
LOCATION	E	CORRAL H CRK	CORRAL H CRK	DUPLICATE	DUPLICATE	MATRIX	MS %	CONTINUING
TYPE OF LOCATION	T	ARROYO	ARROYO	RPD	RPD	SPIKE	RECOVERY	CAL BLANK
SAMPLE NUMBER	H	LL040026B	LL040037B	LL040037B	LL040037B	LL040037B	LL040037B	LL03A3005
MATRIX	O	SOIL	SOIL	SOIL	X	SOIL	X	SOIL
UNITS	D	MG/KG	MG/KG	MG/KG	12	MG/KG	12	MG/KG
ENV PROBLEM NO		12	12	12		12		12
<b>MERCURY</b>	<b> CV </b>	<b>0.1</b>	<b>0.05</b>	<b>0.05</b>	<b>0</b>	<b>0.27</b>	<b>100</b>	<b>0.01 U</b>
<b>% SOLIDS</b>	<b>   </b>	<b>98</b>	<b>99</b>					

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TABLE D.2.18 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL011010D

AREA	METHOD	QA CONTINUING CAL FOUND LL2AB4005 UG/L	STP OVERFLOW POND LL037010D SOIL MG/KG 10	STP OVERFLOW POND LL037021D SOIL MG/KG 10	STP OVERFLOW POND LL037032D SOIL MG/KG 10	STP MAIN POND LL038011D SOIL MG/KG 10	STP MAIN POND LL038022D SOIL MG/KG 10	STP MAIN POND LL038033D SOIL MG/KG 10
MERCURY	[CV]	10	0.04 B	0.05	0.03 B	0.2	0.24	0.15
% SOLIDS	[ ]		99	99	99	44	45	45

AREA	METHOD	QA CONTINUING CAL BLANK LL03B4005 SOIL MG/KG	QA CONTINUING CAL FOUND LL2AB5005 UG/L	STP MAIN POND LL038055D SOIL MG/KG 10	N OF 4TH ST ARROYO LL011010D SOIL MG/KG 1	N OF 4TH ST ARROYO LL011021D SOIL MG/KG 1	N OF 4TH ST ARROYO LL011032D SOIL MG/KG 1	CONTINUING CAL BLANK LL03B5005 SOIL MG/KG
MERCURY	[CV]	0.01 U	10	0.07	0.15	2.3	0.65	0.01 U
% SOLIDS	[ ]			63	84	92	89	

AREA	METHOD	QA CONTINUING CAL FOUND LL2AC4005 UG/L
MERCURY	[CV]	10
% SOLIDS	[ ]	

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TABLE D.2.19 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012011D

AREA	M E T H O D	QA LAB CONTROL SAMPLE TRUE LL0700106 WATER UG/L	QA INITIAL CAL TRUE A LL2AA1006 UG/L	QA INITIAL CAL FOUND A LL2AA2006 UG/L	QA INITIAL CAL BLANK 1 LL03A0006 WATER UG/L	QA PREP BLANK LL03A0006 WATER UG/L	QA LAB CONTROL SAMPLE LL0700106 WATER UG/L	BLDG. 321 SEWERS LL012226D WATER UG/L 2
LEAD	IF	50	43	43	0.44 U	0.5 B	46	22
% SOLIDS	I	I						
AREA	M E T H O D			QA	QA			QA
LOCATION		BLDG. 169	BLDG. 131	CONTINUING	CONTINUING	BLDG. 511	BLDG. 511	DUPLICATE
TYPE OF LOCATION		SEWERS	SEWERS	CAL FOUND	CAL BLANK	SEWERS	SEWERS	
SAMPLE NUMBER		LL012077D	LL012011D	LL2AA4006	LL03A1006	LL012691C	LL012679C	
MATRIX		WATER	WATER	UG/L	WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO		2	2		2	2	2	2
LEAD	IF	6.8	13	43	0.44 U	0.44 U	0.5 B	0.5 B
% SOLIDS	I	I						
AREA	M E T H O D			QA	QA	QA	QA	QA
LOCATION		MATRIX	MS X	BLDG. 298	CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL
TYPE OF LOCATION		SPIKE	RECOVERY	SEWERS	CAL FOUND	CAL BLANK	FOUND A	BLANK 2
SAMPLE NUMBER		LL012679C	LL012679C	LL012191D	LL2AA5006	LL03A2006	LL2AB2006	LL03B0006
MATRIX		WATER	X	WATER	UG/L	WATER	UG/L	WATER
UNITS		UG/L	2	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		2	2	2				
LEAD	IF	20	98	9.6	39	0.44 U	40	0.44 U
% SOLIDS	I	I						

TABLE D.2.19 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012011D

AREA	M	BLDG. 322 SEWERS LL012259D	BLDG. 131 SEWERS LL012033C	BLDG. 321 SEWERS LL012248C	QA CONTINUING CAL FOUND LL2AB4006	QA CONTINUING CAL BLANK LL03B4006	BLDG. 298 SEWERS LL012215C	BLDG. 322 SEWERS LL012271C	
LOCATION	E				UG/L		WATER	WATER	
TYPE OF LOCATION	T				2		UG/L	UG/L	
SAMPLE NUMBER	H								
MATRIX	O								
UNITS	D								
ENV PROBLEM NO									
LEAD	I	F	2.4 B	77	29	45	0.44 U	8.4	7.1
% SOLIDS	I	I							
AREA	M				QA	QA	QA	QA	
LOCATION	E	BLDG. 169 SEWERS LL012099C	BLDG. 222 SEWERS LL912021C	CONTINUING CAL FOUND LL2AB5006	CONTINUING CAL BLANK LL03B5006	BLDG. 222 SEWERS LL012135D	CONTINUING CAL FOUND LL2AC4006	CONTINUING CAL BLANK LL03B6006	
TYPE OF LOCATION	T								
SAMPLE NUMBER	H								
MATRIX	O								
UNITS	D								
ENV PROBLEM NO									
LEAD	I	F	6.1	10	42	0.44 U	26	42	0.44 U
% SOLIDS	I	I							
AREA	M	QA	QA		QA	QA			
LOCATION	E	INITIAL CAL FOUND A LL2AD2004	INITIAL CAL BLANK 3 LL03C0005	BLDG. 511 SEWERS LL012680C	CONTINUING CAL FOUND LL2AD4004	CONTINUING CAL BLANK LL03C7005			
TYPE OF LOCATION	T								
SAMPLE NUMBER	H								
MATRIX	O								
UNITS	D								
ENV PROBLEM NO									
LEAD	I	F	39	0.44 U	0.6 B	40	0.44 U		
% SOLIDS	I	I							

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TABLE D.2.20 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012022C

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LAB CONTROL	INITIAL CAL	INITIAL CAL	INITIAL CAL	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION	T	SAMPLE TRUE	TRUE A	FOUND A	BLANK 1	BLANK	CAL FOUND	CAL BLANK
SAMPLE NUMBER	H	LL0700107	LL2AA1007	LL2AA2007	LL03A0007	LL03A0007	LL2AA4007	LL03A1007
MATRIX	O	WATER	UG/L	UG/L	WATER	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO.								
LEAD	I	F	50	43	42	0.44 U	0.6 B	43
% SOLIDS		I	I					0.44 U
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	INITIAL CAL	INITIAL CAL	LAB CONTROL	BLDG. 241	BLDG. 511	BLDG. 151	BLDG. 331
TYPE OF LOCATION	T	FOUND A	BLANK 2	SAMPLE	SEWERS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	H	LL2AB2007	LL03B0007	LL0700107	LL012168C	LL012317D	LL012044D	LL012282D
MATRIX	O	WATER	UG/L	WATER	UG/L	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO.					2	2	2	2
LEAD	I	F	41	0.44 U	52	9.6	88	28
% SOLIDS		I	I					8.7
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	BLDG. 131	CONTINUING	CONTINUING	BLDG. 511	DUPLICATE	MATRIX	MS %
TYPE OF LOCATION	T	SEWERS	CAL FOUND	CAL BLANK	SEWERS	LL012704C	SPIKE	RECOVERY
SAMPLE NUMBER	H	LL012022C	LL2AB4007	LL03B4007	LL012704C	LL012704C	LL012704C	LL012704C
MATRIX	O	WATER	UG/L	WATER	WATER	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO.		2			2	2	2	2
LEAD	I	F	9.6	42	0.44 U	0.6 B	0.6 B	20
% SOLIDS		I	I					97

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TABLE D.2.20 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012022C

AREA	METHOD	BLDG. 322 SEWERS LL012260C	BLDG. 321 SEWERS LL012237C	QA CONTINUING CAL FOUND LL2AB5007	QA CONTINUING CAL BLANK LL03B5007	QA INITIAL CAL FOUND A LL2AC2007	QA INITIAL CAL BLANK 3 LL03C0006	BLDG. 298 SEWERS LL012204C
LOCATION	TYPE OF LOCATION	BLDG. 322 SEWERS LL012260C	BLDG. 321 SEWERS LL012237C	CONTINUING CAL FOUND LL2AB5007	CONTINUING CAL BLANK LL03B5007	INITIAL CAL FOUND A LL2AC2007	INITIAL CAL BLANK 3 LL03C0006	BLDG. 298 SEWERS LL012204C
SAMPLE NUMBER	MATRIX	WATER	WATER	UG/L	UG/L	UG/L	WATER	WATER
UNITS	ENV PROBLEM NO.	2	2				UG/L	UG/L
LEAD		IF	2.4 B	27	43	0.44 U	44	0.44 U
% SOLIDS		I	I					11
AREA	METHOD	BLDG. 169 SEWERS LL012088C	BLDG. 151 SEWERS LL012055C	BLDG. 511 SEWERS LL012328C	BLDG. 222 SEWERS LL012146C	QA CONTINUING CAL FOUND LL2AC4007	QA CONTINUING CAL BLANK LL03C7006	BLDG. 241 SEWERS LL012179C
LOCATION	TYPE OF LOCATION	BLDG. 169 SEWERS LL012088C	BLDG. 151 SEWERS LL012055C	BLDG. 511 SEWERS LL012328C	BLDG. 222 SEWERS LL012146C	CONTINUING CAL FOUND LL2AC4007	CONTINUING CAL BLANK LL03C7006	BLDG. 241 SEWERS LL012179C
SAMPLE NUMBER	MATRIX	WATER	WATER	UG/L	UG/L	UG/L	WATER	WATER
UNITS	ENV PROBLEM NO.	UG/L	UG/L	2	2	2	UG/L	UG/L
LEAD		IF	10	5.8	12	5.5	42	0.44 U
% SOLIDS		I	I					4.1 B
AREA	METHOD	BLDG. 222 SEWERS LL912032C	QA CONTINUING CAL FOUND LL2AC5007	QA CONTINUING CAL BLANK LL03C8006				
LOCATION	TYPE OF LOCATION	BLDG. 222 SEWERS LL912032C	CONTINUING CAL FOUND LL2AC5007	CONTINUING CAL BLANK LL03C8006				
SAMPLE NUMBER	MATRIX	WATER	UG/L	WATER				
UNITS	ENV PROBLEM NO.	UG/L	2	UG/L				
LEAD		IF	3.5 B	46	0.44 U			
% SOLIDS		I	I					

TABLE D.2.21 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012033C

AREA	METHOD	QA LAB CONTROL SAMPLE TRUE LL0700108	QA INITIAL CAL TRUE A LL2AA1008	QA INITIAL CAL BLANK 1 LL03A0008	QA INITIAL CAL FOUND A LL2AA2008	QA CONTINUING CAL BLANK LL03A1008	QA CONTINUING CAL FOUND LL2AA4008	QA LAB CONTROL SAMPLE LL0700108
MATRIX UNITS		WATER UG/L	UG/L	WATER UG/L	UG/L	WATER UG/L	UG/L	WATER UG/L
MERCURY	ICV	18	10	0.01 U	10	0.01 U	10	18
% SOLIDS								
AREA	METHOD	BLDG. 231 SUMP LL022024G	BLDG. 141 SUMP LL015025H	BLDG. 321 SEWERS LL012226D	BLDG. 169 SEWERS LL012077D	QA CONTINUING CAL BLANK LL03A2008	QA CONTINUING CAL FOUND LL2AA5008	BLDG. 131 SEWERS LL012011D
TYPE OF LOCATION		WATER UG/L	UG/L	WATER UG/L	UG/L	WATER UG/L	UG/L	WATER UG/L
SAMPLE NUMBER		4	4	2	2			2
MATRIX								
UNITS								
ENV PROBLEM NO								
MERCURY	ICV	0.02 B	0.02 B	0.27	0.49	0.01 U	10	0.31
% SOLIDS								
AREA	METHOD	BLDG. 511 SEWERS LL012691C	DUPPLICATE LL012691C	MATRIX SPIKE LL012691C	MS X RECOVERY LL012691C	BLDG. 511 SEWERS LL012679C	BLDG. 298 SEWERS LL012191D	CONTINUING CAL BLANK LL03A3008
TYPE OF LOCATION		WATER UG/L	WATER UG/L	WATER UG/L	X 2	WATER UG/L	WATER UG/L	WATER UG/L
SAMPLE NUMBER		2	2	2		2	2	
MATRIX								
UNITS								
ENV PROBLEM NO								
MERCURY	ICV	0.03 B	0.03 B	1.1	107	0.03 B	0.83	0.01 U
% SOLIDS								

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TABLE D.2.21 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012033C

AREA	M	QA						QA
LOCATION	T	CONTINUING	BLDG. 322	FIRING TABLE	BLDG. 131	BLDG. 321	BLDG. 298	PREP
TYPE OF LOCATION	E	CAL FOUND	SEWERS	DITCHES	SEWERS	SEWERS	SEWERS	BLANK
SAMPLE NUMBER	H	LL2AB4008	LL012259D	LL044100B	LL012033C	LL012248C	LL012215C	LL03A0008
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO			2	13	2	2	2	
MERCURY	CV	10	0.03 B	0.03 B	0.33	0.07 B	0.21	0.03 B
% SOLIDS								
AREA	M	QA	QA	QA				
LOCATION	T	CONTINUING	CONTINUING	CONTINUING				
TYPE OF LOCATION	E	CAL BLANK	CAL FOUND	CAL BLANK				
SAMPLE NUMBER	H	LL03B4008	LL2AB5008	LL03B5008				
MATRIX	O	WATER	UG/L	WATER				
UNITS	D	UG/L	UG/L	UG/L				
ENV PROBLEM NO								
MERCURY	CV	0.01 U	10	0.01 U				
% SOLIDS								

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TABLE D.2.22 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012044D

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LAB CONTROL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CONTINUING	CONTINUING	LAB CONTROL
TYPE OF LOCATION	T	SAMPLE TRUE	TRUE A	BLANK 1	FOUND A	CAL BLANK	CAL FOUND	SAMPLE
SAMPLE NUMBER	H	LL0700109	LL2AA1009	LL03A0009	LL2AA2009	LL03A1009	LL2AA4009	LL0700109
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO.								
MERCURY	CV	18	10	0.01 U	10	0.01 U	10	18
% SOLIDS		1	1					
AREA	M		QA	QA	QA	QA	QA	QA
LOCATION	E	BLDG. 322	BLDG. 222	CONTINUING	CONTINUING	BLDG. 511	DUPLICATE	MATRIX
TYPE OF LOCATION	T	SEWERS	SEWERS	CAL BLANK	CAL FOUND	SEWERS	SEWERS	SPIKE
SAMPLE NUMBER	H	LL012271C	LL912021C	LL03A2009	LL2AA5009	LL012680C	LL012680C	LL012680C
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO.		2	2			2	2	2
MERCURY	CV	0.02 B	0.05 B	0.01 U	10	0.02 B	0.02 B	1
% SOLIDS		1	1					
AREA	M	QA		QA	QA	QA	QA	QA
LOCATION	E	MS X	BLDG. 222	BLDG. 241	BLDG. 511	CONTINUING	CONTINUING	BLDG. 151
TYPE OF LOCATION	T	RECOVERY	SEWERS	SEWERS	SEWERS	CAL BLANK	CAL FOUND	SEWERS
SAMPLE NUMBER	H	LL012680C	LL012135D	LL012168C	LL012317D	LL03A3009	LL2AB4009	LL012044D
MATRIX	O	X	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	D	2	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO.		2	2	2	2			2
MERCURY	CV	97	0.51	0.12 B	0.05 B	0.01 U	9.9	0.05 B
% SOLIDS		1	1					

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TABLE D.2.22 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012044D

AREA	M	BLDG. 331	BLDG. 131	BLDG. 511	GSA AREA	QA	QA	BLDG. 322
LOCATION	E	SEWERS	SEWERS	SEWERS	WELLS	CONTINUING	CONTINUING	SEWERS
TYPE OF LOCATION	T	LL012282D	LL012022C	LL012704C	LL036224G	CAL BLANK	CAL FOUND	LL012260C
SAMPLE NUMBER	H					LL03B4009	LL2AB5009	
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		2	2	2	9			2
MERCURY	CV	0.25	7.9	0.02 B	0.02 B	0.01 U	10	0.03 B
% SOLIDS								
AREA	M		QA	QA	QA			
LOCATION	E	BLDG. 321	PREP	CONTINUING	CONTINUING			
TYPE OF LOCATION	T	SEWERS	BLANK	CAL BLANK	CAL FOUND			
SAMPLE NUMBER	H	LL012237C	LL03A0009	LL03B5009	LL2AC4008			
MATRIX	O	WATER	WATER	WATER				
UNITS	D	UG/L	UG/L	UG/L				
ENV PROBLEM NO		2						
MERCURY	CV	0.06 B	0.02 B	0.01 U	9.8			
% SOLIDS								

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TABLE D.2.23 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012055C

AREA	METHOD	QA LAB CONTROL SAMPLE TRUE LL0700110 WATER UG/L	QA INITIAL CAL TRUE A LL2AA1010 WATER UG/L	QA INITIAL CAL BLANK 1 LL03A0010 WATER UG/L	QA INITIAL CAL FOUND A LL2AA2010 WATER UG/L	QA PREP BLANK LL03A0010 WATER UG/L	QA CONTINUING CAL BLANK LL03A1010 WATER UG/L	QA CONTINUING CAL FOUND LL2AA4010 UG/L
MERCURY	ICVI	18	10	0.01 U	9.9	0.02 B	0.01 U	9.9
% SOLIDS	I	I						
AREA	METHOD	QA LAB CONTROL SAMPLE LL0700110 WATER UG/L	BLDG. 298 SEWERS LL012204C WATER 2	BLDG. 169 SEWERS LL012088C WATER 2	BLDG. 151 SEWERS LL012055C WATER 2	BLDG. 511 SEWERS LL012328C WATER 2	QA CONTINUING CAL BLANK LL03A2010 WATER UG/L	QA CONTINUING CAL FOUND LL2AA5010 UG/L
MERCURY	ICVI	18	1.1	0.06 B	0.05 B	0.04 B	0.01 U	9.7
% SOLIDS	I	I						
AREA	METHOD	BLDG. 222 SEWERS LL012146C WATER UG/L	BLDG. 241 SEWERS LL012179C WATER UG/L	BLDG. 222 SEWERS LL912032C WATER UG/L	MATRIX SPIKE LL912032C WATER UG/L	DUPLICATE RPD LL912032C WATER UG/L	DUPLICATE RPD LL912032C WATER UG/L	BLDG. 331 SEWERS LL012293C WATER UG/L
MERCURY	ICVI	0.22	0.05 B	85	164	85	0	0.11 B
% SOLIDS	I	I						

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TABLE D.2.23 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012055C

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AREA	M	QA	QA	QA	BLDG. 321	BLDG. 492	BLDG. 222	BLDG. 151	BLDG. 331
LOCATION	E	CONTINUING	CONTINUING	CONTINUING	SUMP	SUMP	SEWERS	SEWERS	SEWERS
TYPE OF LOCATION	T	CAL BLANK	CAL FOUND	CAL FOUND	LL025016K	LL026017I	LL012157C	LL012066C	LL012306C
SAMPLE NUMBER	O	LL03A3010	LL2AB4010	LL2AB4010			LL012157C	LL012066C	LL012306C
MATRIX	D	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO					4	4	2	2	2
MERCURY	CV	0.01 U	9.8	0.27		0.08 B	0.16 B	0.06 B	0.15 B
% SOLIDS									
AREA	M	QA	QA	QA					
LOCATION	E	BLDG. 511	CONTINUING	CONTINUING	CONTINUING				
TYPE OF LOCATION	T	SEWERS	CAL BLANK	CAL FOUND	CAL BLANK				
SAMPLE NUMBER	O	LL012339C	LL03B4010	LL2AB5010	LL03B5010				
MATRIX	D	WATER	WATER	WATER	WATER				
UNITS		UG/L	UG/L	UG/L	UG/L				
ENV PROBLEM NO		2							
MERCURY	CV	0.18 B	0.01 U	9.8		0.01 U			
% SOLIDS									

TABLE D.2.24 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012066B

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LINEAR RANGE ANALYSIS	INTER SOL. A	INTER CHK	INITIAL CAL	INITIAL CAL	INITIAL CAL	LAB CONTROL
TYPE OF LOCATION	H	LLRRA1531	LLICCS1360	TRUE A	TRUE A	TRUE B	TRUE C	SAMPLE TRUE
SAMPLE NUMBER	O			LLICV1392	LLICV1413	LLICV1429	LLICV1514	
MATRIX	D			WATER	WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ALUMINUM	P	7500	508000	100000	990		990	1000
ANTIMONY	P	10000			1000		1000	1010
ARSENIC	P	20000			1000		1000	1010
BARIUM	P	5000	483		990		990	1010
BERYLLIUM	P	1500	474		240		240	254
CADMIUM	P	5000	909		244		244	256
CALCIUM	P	10000	516000		24900	5000	24900	26400
CHROMIUM	P	10000	513		253		253	264
COBALT	P	10000	478		237		237	251
COPPER	P	10000	534		271		271	262
IRON	P	12000	203000	100000	995		995	999
LEAD	P	50000	4850		2250		2250	2260
MAGNESIUM	P	12000	509000	50000		5000	12500	
MANGANESE	P	2500	531	50000	256		256	262
NICKEL	P	15000	916		248		248	253
SELENIUM	P	10000			1000		1000	1050
SILVER	P	10000	993		254		254	243
SODIUM	P	10000		100000		5000	25300	
VANADIUM	P	10000	475		255		255	258
ZINC	P	6000	973		1550		1550	1500

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	INITIAL CAL	INITIAL CAL	INITIAL CAL	INTER CHK	PREP	PREP	LAB CONTROL
TYPE OF LOCATION	H	FOUND C	FOUND C	FOUND A	SOL. A INIT	BLANK	BLANK	SAMPLE
SAMPLE NUMBER	O	LLICV1421	LLICV1421	LLICB1326	LLICV1374	LLICS1352	LLPB01580	LLLCs1493
MATRIX	D	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ALUMINUM	P		60 U	103000	507000	60 U	60 U	1040
ANTIMONY	P		30 U			30 U	30 U	1010
ARSENIC	P		30 U			30 U	30 U	1010
BARIUM	P		2 U		460	29 B	29 B	994
BERYLLIUM	P		0.3 U		447	0.3 U	0.3 U	249
CADMIUM	P		2 U		876	2 U	2 U	249
CALCIUM	P	4970 B	200 U		478000	200 U	200 U	26000

TABLE D.2.24 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012066B

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	INITIAL CAL FOUND C	INITIAL CAL BLANK	INITIAL CAL FOUND A	INTER CHK SOL. A INIT	PREP BLANK	PREP BLANK	LAB CONTROL SAMPLE
TYPE OF LOCATION	H	LLICV1421	LLICB1326	LLICV1374	LLICS1352	LLPB01580	LLPB01581	LLLCs1493
SAMPLE NUMBER	O	WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
CHROMIUM	P		6 U		461	6 U	6 U	257
COBALT	P		3 U		432	3 U	3 U	244
COPPER	P		10 U		480	10 U	10 U	254
IRON	P		20 U	103000	181000	56 B	32 B	978
LEAD	P		30 U		4390	30 U	30 U	2230
MAGNESIUM	P		10 U	51000	488000	10 U	15 B	11700
MANGANESE	P		5 U	49600	482	5 U	5 U	253
NICKEL	P		6 U		848	6 U	6 U	249
SELENIUM	P		50 U		853	50 U	50 U	1100
SILVER	P		6 U		853	6 U	6 U	219
SODIUM	P		200 U	102000		200 U	200 U	20300
VANADIUM	P		4 U		432	4 U	4 U	246
ZINC	P		3 U		895	27	15 B	1470
% SOLIDS								
AREA	M					QA	QA	QA
LOCATION	E	BLDG. 913	BLDG. 913	BLDG. 514	BURN PIT	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL FOUND
TYPE OF LOCATION	H	BLDG 913	BLDG 913	WASTE	PITS	LLCCV1135	LLCCB1056	LLCCV1185
SAMPLE NUMBER	O	SN005024I	SN005035I	LL027109B	LL034131G	WATER	WATER	WATER
MATRIX	D	WATER	WATER	WATER	WATER	UG/L	UG/L	UG/L
UNITS		UG/L	UG/L	UG/L	UG/L			
ENV PROBLEM NO		2	2	5	7			
ALUMINUM	P	1820	951	76 B	60 U	105000	60 U	1080
ANTIMONY	P	30 U	30 U	30 U	30 U		30 U	1000
ARSENIC	P	30 U	30 U	30 U	30 U		30 U	1010
BARIUM	P	38 B	39 B	4.2 B	3.5 B		2 U	975
BERYLLIUM	P	5 B	4.8 B	0.3 U	0.3 U		0.3 U	246
CADMIUM	P	12	12	2 U	2 U		2 U	242
CALCIUM	P	9930	10300	202 B	200 U		200 U	26000
CHROMIUM	P	409	128	6 U	6 U		6 U	263
COBALT	P	34 B	30 B	3 U	3 U		3 U	248
COPPER	P	5020	4170	10 U	10 U		10 U	261
IRON	P	6530	5460	172	136	102000	20 U	964
LEAD	P	336	307	30 U	30 U		30 U	2190
MAGNESIUM	P	979 B	1010 B	32 B	11 B	51300	10 U	
MANGANESE	P	141	116	5 U	5 U	49900	5 U	249

TABLE D.2.24 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012066B

AREA	M	BLDG. 913	BLDG. 913	BLDG. 514	BURN PIT	QA	QA	QA
LOCATION	T	BLDG 913	BLDG 913	WASTE	PITS	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION	H	SN005024I	SN005035I	LL027109B	LL034131G	CAL FOUND	CAL BLANK	CAL FOUND
SAMPLE NUMBER	O					LLCCV1135	LLCCB1056	LLCCV1185
MATRIX	D	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		2	2	5	7			
NICKEL	P	595	343	6.2 B	6 U		6 U	242
SELENIUM	P	50 U	50 U	50 U	50 U		50 U	1040
SILVER	P	6 U	6 U	6 U	6 U		6 U	244
SODIUM	P	4710 B	4940 B	200 U	200 U	105000	200 U	
VANADIUM	P	4 U	4 U	4 U	4 U		4 U	265
ZINC	P	2130	2080	5.6 B	9.8 B		3 U	1490
% SOLIDS	I							
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	T	CONTINUING	BLDG. 222	BLDG. 151	BLDG. 331	BLDG. 511	BLDG. 241	BLDG. 222
TYPE OF LOCATION	H	CAL FOUND	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	O	LLCCV1220	LL012157B	LL012066B	LL012306B	LL012339B	LL012180B	LL912043B
MATRIX	D	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		2	2	2	2	2	2	2
ALUMINUM	P		209	181 B	187 B	332	149 B	248
ANTIMONY	P	30 U	30 U	30 U	30 U	30 U	30 U	30 U
ARSENIC	P	30 U	30 U	30 U	35 B	30 U	30 U	30 U
BARIUM	P	15 B	24 B	14 B	12 B	13 B	16 B	
BERYLLIUM	P	0.83 B	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CADMIUM	P	2 U	2 B	2.7 B	5.3	2 U	2 U	2 U
CALCIUM	P	4810 B	7650	8680	7520	6250	9010	6030
CHROMIUM	P	6 U	6 U	6 U	6 U	6 U	6 U	6 U
COBALT	P	3 U	3 U	3 U	3 U	3 U	3 U	3 U
COPPER	P	31	106	272	36	38	66	
IRON	P	458	382	376	493	512	512	235
LEAD	P	30 U	30 U	30 U	30 B	30 U	30 U	30 U
MAGNESIUM	P	5020	1140 B	1910 B	1260 B	626 B	1870 B	864 B
MANGANESE	P	20	21	18	20	22	15 B	
NICKEL	P	8.4 B	7.6 B	6.3 B	7.2 B	6.2 B	39 B	
SELENIUM	P	50 U	50 U	50 U	50 U	50 U	50 U	50 U
SILVER	P	6 U	6 U	6 U	6 U	6 U	6 U	189
SODIUM	P	4580 B	6500	25300	15900	7430	24200	7810
VANADIUM	P	4 U	4 U	4 U	4 U	4 U	4 U	4 U
ZINC	P	97	97	123	152	101	57	
% SOLIDS	I							

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TABLE D.2.24 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012066B

AREA	M	BLDG. 141	BLDG. 141	BLDG. 151	CONTINUING	CONTINUING	CONTINUING	CONTINUING
LOCATION	E	SUMP	SUMP	TANK	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK
TYPE OF LOCATION	T	LL016015F	LL017016F	LL018017F	LLCCV1136	LLCCV1186	LLCCV1221	LLCCB1057
SAMPLE NUMBER	H	WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX	O	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS	D	4	4	4				
ENV PROBLEM NO								
ALUMINUM	P	953	1010	472	108000	1120		60 U
ANTIMONY	P	30 U	30 U	30 U		1020		30 U
ARSENIC	P	30 U	30 U	33 B		1030		30 U
BARIUM	P	10 B	105 B	80 B		988		2 U
BERYLLIUM	P	0.3 U	0.3 U	0.3 U		250		0.3 U
CADMIUM	P	4.7 B	4.6 B	19		244		2 U
CALCIUM	P	4960 B	6040	4830 B		26400	4870 B	200 U
CHROMIUM	P	1050	166	15		267		6 U
COBALT	P	3 U	3 U	3 U		251		3 U
COPPER	P	5030	6350	322		267		10 U
IRON	P	3550	2910	867	104000	976		20 U
LEAD	P	1630	3310	146 B		2220		30 U
MAGNESIUM	P	386 B	731 B	923 B	53100		5020	10 U
MANGANESE	P	37	32	44	52100			5 U
NICKEL	P	168	17 B	143		242		6 U
SELENIUM	P	50 U	50 UU	50 U		1070		50 U
SILVER	P	6 U	6 U	6 U		242		6 U
SODIUM	P	12500	366000	50800	111000		4510 B	200 U
VANADIUM	P	4 U	4 U	4 U		268		4 U
ZINC	P	326	1670	1790		1520		3 U

% SOLIDS

AREA	M	QA	QA	QA	QA	QA	QA	
LOCATION	E	BLDG. 151	SERIAL	SD %	DUPLICATE	DUPLICATE	MATRIX	
TYPE OF LOCATION	T	TANK	DILUTION	DIFFERENCE	LL019018F	LL019018F	SPIKE	
SAMPLE NUMBER	H	LL019018F	LL019018F	LL019018F	LL019018F	LL019018F	LL019018F	
MATRIX	O	WATER	WATER	%	WATER	WATER	WATER	
UNITS	D	UG/L	UG/L	4	UG/L	UG/L	UG/L	
ENV PROBLEM NO		4	4	4	4	4	4	
ALUMINUM	P	711	837		674	37	2980	113
ANTIMONY	P	30 U	150 U		30 U		508	102
ARSENIC	P	32 B	150 U		30 U		123 B	91
BARIUM	P	123 B	129 B	4.9	123 B		2130	100
BERYLLIUM	P	0.3 U	1.5 U		0.3 U		53	106
CADMIUM	P	12	16		13	1	64	104
CALCIUM	P	7130	7160		7010	120	6780	

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TABLE D.2.24 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012066B

AREA	M	QA	QA	QA	QA	QA	QA
LOCATION	E	SERIAL	SD %	DUPLICATE	DUPLICATE	MATRIX	MS %
TYPE OF LOCATION	T	DILUTION	DIFFERENCE	RPD	LL019018F	SPIKE	RECOVERY
SAMPLE NUMBER	H	LL019018F	LL019018F	LL019018F	LL019018F	LL019018F	LL019018F
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		4	4	4	4	4	4
CHROMIUM	P	27	30 U	27	0	244	108
COBALT	P	3 U	15 U	3 U	0	492	98
COPPER	P	362	377	357	1.4	597	94
IRON	P	1980	2140	2000	1	2910	93
LEAD	P	84 B	150 U	98 B	0	580	99
MAGNESIUM	P	1740 B	1810 B	1710 B	0	1660 B	0
MANGANESE	P	44	53	44	0	254	105
NICKEL	P	62	66	63	1	462	100
SELENIUM	P	50 U	250 U	50 U	0	56 B	112
SILVER	P	6 U	30 U	6 U	0	47	94
SODIUM	P	52100	47400	51700	0.77	50700	0
VANADIUM	P	4 U	20 U	4 U	0	508	102
ZINC	P	1550	1560	1530	1.3	1700	75

## % SOLIDS

AREA	M	QA	QA	QA	QA	QA	QA
LOCATION	E	EXP BURN PIT	CONTINUING	CONTINUING	CONTINUING	CONTINUING	INTER CHK
TYPE OF LOCATION	T	INACTIVE SIT	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	SOL. A FINAL
SAMPLE NUMBER	H	SN008049F	LLCCV1137	LLCCV1187	LLCCV1222	LLCCB1058	LLICCS1344
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		4					
ALUMINUM	P	86 B	107000	1180	0	60 U	511000
ANTIMONY	P	30 U	1070	0	0	30 U	0
ARSENIC	P	30 U	1030	0	0	30 U	0
BARIUM	P	4 B	1000	0	0	2 U	454
BERYLLIUM	P	0.3 U	254	0	0	0.3 U	444
CADMIUM	P	2.4 B	248	0	0	2.3 B	845
CALCIUM	P	200 U	26600	4870 B	200 U	200 U	482000
CHROMIUM	P	6 U	265	0	0	6 U	465
COBALT	P	3 U	250	0	0	3 U	434
COPPER	P	10 U	270	0	0	10 U	495
IRON	P	338	105000	992	0	20 U	181000
LEAD	P	30 U	2200	0	0	30 U	4240
MAGNESIUM	P	24 B	52600	4990 B	10 U	10 U	492000
MANGANESE	P	5 U	51700	260	0	5 U	474

TABLE D.2.24 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012066B

AREA	METHOD	QA EXP BURN PIT INACTIVE SIT	QA CONTINUING CAL FOUND	QA CONTINUING CAL FOUND	QA CONTINUING CAL FOUND	QA CONTINUING CAL BLANK	QA INTER CHK SOL. A FINAL
LOCATION	D	SN008049F	LLCCV1137	LLCCV1187	LLCCV1222	LLCCB1058	LLICs1344
TYPE OF LOCATION		WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE NUMBER		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
MATRIX							
UNITS							
ENV PROBLEM NO		4					
NICKEL	P	13 B		254		6 U	819
SELENIUM	P	50 U		1060		50 U	
SILVER	P	6 U		243		6 U	907
SODIUM	P	200 U	109000		4560 B	200 U	
VANADIUM	P	4 U		270		4 U	459
ZINC	P	13 B		1530		3 U	909
X SOLIDS	I						

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TABLE D.2.25 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012066K

AREA	M E T H O D	QA LINEAR RANGE ANALYSIS TRUE A LLLRA1532 WATER UG/L	QA INITIAL CAL TRUE LLICV1393 WATER UG/L	QA LAB CONTROL SAMPLE TRUE LLLCS1515 WATER UG/L	QA INITIAL CAL FOUND A LLICV1375 WATER UG/L	QA INITIAL CAL BLANK LLICB1327 WATER UG/L	QA PREP BLANK LLPB01582 WATER UG/L	QA PREP BLANK LLPB01583 WATER UG/L
POTASSIUM	F E	8000	1000 B	25100	1000 B	100 U	100	100
X SOLIDS								
AREA	M E T H O D	QA LAB CONTROL SAMPLE BLDG. 913 BLDG 913 SN005024I WATER UG/L	QA BLDG. 913 BLDG 913 SN005035I WATER UG/L	QA BLDG. 514 WASTE LL027109B WATER UG/L	QA BURN PIT PITS LL034131G WATER UG/L	QA BLDG. 511 SENERS LL012339B WATER UG/L	QA CONTINUING CAL FOUND LLCCV1138 WATER UG/L	QA
POTASSIUM	F E	24000	1300 B	1400 B	100 U	160 B	7600	1000 B
X SOLIDS								
AREA	M E T H O D	QA CONTINUING CAL BLANK LLCCB1059 WATER UG/L	QA BLDG. 141 SUMP LL017016F WATER UG/L	QA BLDG. 151 TANK LL018017F WATER UG/L	QA BLDG. 151 TANK LL019018F WATER UG/L	QA EXP BURN PIT INACTIVE SIT SEWERS SN008049F WATER UG/L	QA BLDG. 222 SEWERS LL012157B WATER UG/L	QA BLDG. 151 SEWERS LL012066B WATER UG/L
POTASSIUM	F E	100 U	2900 B	5800	6500	100 U	9400	29000
X SOLIDS								

TABLE D.2.25 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL012066K

AREA	METHOD	BLDG. 331 SEWERS LL012306B	BLDG. 241 SEWERS LL012180B	BLDG. 222 SEWERS LL912043B	QA CONTINUING CAL FOUND LLCCV1139	QA CONTINUING CAL BLANK LLCCB1060	BLDG. 141 SUMP LL016015F	QA DUPLICATE LL019018F
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
POTASSIUM	F/E	16000	29000	13000	1000 B	100 U	36000	6300
% SOLIDS								
AREA	METHOD	QA						
LOCATION		DUPLICATE						
TYPE OF LOCATION		RPD						
SAMPLE NUMBER		LL019018F						
MATRIX		%						
UNITS		4						
ENV PROBLEM NO								
POTASSIUM	F/E	200						
% SOLIDS								

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TABLE D.2.26 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL013034K

AREA	M	QA	QA	QA	QA	QA	QA	
LOCATION	E	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	LAB CONTROL	LAB CONTROL	BLDG. 612
TYPE OF LOCATION	T	ANALYSIS	TRUE A	TRUE A	TRUE A	SAMPLE TRUE	SAMPLE TRUE	DITCH
SAMPLE NUMBER	H	LLRRA1533	LLICV1394	LLICV1395	LLICV1396	LLCS1516	LLCS1517	LL013034C
MATRIX	O	WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS	D	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO								3
POTASSIUM	IFE	8000	1000 B	1000 B	1000 B	8150	8150	2300
% SOLIDS	I							87.6
AREA	M							
LOCATION	E	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA
TYPE OF LOCATION	T	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA
SAMPLE NUMBER	H	LL031149C	LL031150C	LL031161C	LL031105C	LL031116C	LL031127C	LL031070C
MATRIX	O	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	D	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		6	6	6	6	6	6	6
POTASSIUM	IFE	1700	1900	2000	2000	2700	2000	2500
% SOLIDS	I	92.3	91.4	93.2	97.7	98	97.6	98.3
AREA	M							
LOCATION	E	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA
TYPE OF LOCATION	T	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA
SAMPLE NUMBER	H	LL031081C	LL031092C	LL031014C	LL031025C	LL031036C	LL031047C	LL031058C
MATRIX	O	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	D	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		6	6	6	6	6	6	6
POTASSIUM	IFE	2900	3800	3300	3100	3400	2700	2700
% SOLIDS	I	98.8	98.2	97.6	97.5	97.3	98.3	97.8

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TABLE D.2.26 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL013034K

AREA	METHOD	GSA AREA GSA AREA LL031069C	SANDIA CROSS INACTIVE SIT SN010010C	SANDIA CROSS INACTIVE SIT SN010021C	SANDIA CROSS INACTIVE SIT SN010032C	SANDIA CROSS INACTIVE SIT SN010043C	SANDIA CROSS INACTIVE SIT SN010054C	DUPLICATE SN010054C	
LOCATION									
TYPE OF LOCATION									
SAMPLE NUMBER									
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	
ENV PROBLEM NO		6	4	4	4	4	4	4	
POTASSIUM	FEI	2900	3000	3400	2400	2400	2600	2400	
% SOLIDS		98.2	98.1	99	99	98.4	99.4	99.4	
AREA	METHOD	QA DUPLICATE RPD SN010054C	QA FOUND A LLICV1376	QA INITIAL CAL BLANK LLICB1328	QA INITIAL CAL BLANK LLPB01584	QA PREP BLANK LLPB01585	QA PREP BLANK WATER UG/L	QA LAB CONTROL SAMPLE LLLCS1495	QA CONTINUING CAL FOUND LLCCV1140
LOCATION									
TYPE OF LOCATION									
SAMPLE NUMBER									
MATRIX									
UNITS									
ENV PROBLEM NO		% 4	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	
POTASSIUM	FEI	200	1100 B	100 U	100 U	100	9900	1100 B	
% SOLIDS									
AREA	METHOD	QA CONTINUING CAL BLANK LLCCB1061	BLDG. 321 DRUMRACKS LL028019C	BLDG. 321 DRUMRACKS LL028020C	BLDG. 321 DRUMRACKS LL028031C	BLDG. 321 DRUMRACKS LL028042C	BURN PIT PITS LL034017D	BURN PIT PITS LL034028D	
LOCATION									
TYPE OF LOCATION									
SAMPLE NUMBER									
MATRIX									
UNITS									
ENV PROBLEM NO		WATER UG/L	SOIL MG/KG 6	SOIL MG/KG 6	SOIL MG/KG 6	SOIL MG/KG 6	SOIL MG/KG 7	SOIL MG/KG 7	
POTASSIUM	FEI	100 U	3400	3000	3300	4200	3200	4200	
% SOLIDS			86.3	91.5	86.3	86	96.1	95.2	

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TABLE D.2.26 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL013034K

AREA	METHOD	BURN PIT PITS LL034039D	BURN PIT PITS LL034040D	BURN PIT PITS LL034051D	QA CONTINUING CAL FOUND LLCCV1141	QA CONTINUING CAL BLANK LLCCB1062	QA CONTINUING CAL FOUND LLCCV1142	QA CONTINUING CAL BLANK LLCCB1063
POTASSIUM	FEI	3300	2900	3200	1100 B	100 U	1100 B	100 U
% SOLIDS		97.7	96.1	96.8				
AREA	METHOD	BURN PIT PITS LL034062D	BURN PIT PITS LL034073D	BURN PIT PITS LL034084D	BURN PIT PITS LL034095D	BURN PIT PITS LL034108D	BURN PIT PITS LL034119D	BURN PIT PITS LL034120D
POTASSIUM	FEI	3500	4100	4300	4200	3600	3100	3200
% SOLIDS		96.6	96.7	96.7	96.9	97.5	97.5	97.2
AREA	METHOD	ARROYO SECO ARROYOS SN004012D	ARROYO SECO ARROYOS SN004023D	ARROYO SECO ARROYOS SN004034D	DUPLICATE SN004034D	CONTINUING CAL FOUND LLCCV1143	DUPLICATE RPD SN004034D	CONTINUING CAL BLANK LLCCB1064
POTASSIUM	FEI	1500	1400	1900	1800	1100 B	100	100 U
% SOLIDS		88.3	95.3	97.6	97.6			

TABLE D.2.26 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL013034K

AREA	METHOD	QA						
LOCATION		INITIAL CAL FOUND A	INITIAL CAL BLANK	PREP BLANK	PREP BLANK	LAB CONTROL SAMPLE	CONTINUING CAL FOUND	CONTINUING CAL BLANK
TYPE OF LOCATION		LLICV1377	LLICB1329	LLPB01586	LLPB01587	LLCS1496	LLCCV1144	LLCCB1065
SAMPLE NUMBER								
MATRIX		WATER	WATER	WATER	WATER	SOIL	WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	UG/L	UG/L
ENV PROBLEM NO								
POTASSIUM	[FE]	1100 B	100 U	180 B	150 B	11000	1100 B	100 U
% SOLIDS								
AREA	METHOD	OLD FIRE TRA INACTIVE SIT SN009017C	OLD FIRE TRA INACTIVE SIT SN009028C	OLD FIRE TRA INACTIVE SIT SN009039C	OLD FIRE TRA INACTIVE SIT SN009040C	NAVY LANDFIL INACTIVE SIT SN007015C	NAVY LANDFIL INACTIVE SIT SN007026C	NAVY LANDFIL INACTIVE SIT SN007037C
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX		SOIL						
UNITS		MG/KG						
ENV PROBLEM NO		4	4	4	4	4	4	4
POTASSIUM	[FE]	2800	3700	4300	3100	3100	2500	4000
% SOLIDS		90.3	92.7	93.4	93.7	87.6	87.2	83.1
AREA	METHOD	QA	QA					
LOCATION		NAVY LANDFIL INACTIVE SIT SN007048C	NAVY LANDFIL INACTIVE SIT SN007059C	NAVY LANDFIL INACTIVE SIT SN007060C	CONTINUING CAL FOUND LLCCV1145	CONTINUING CAL BLANK LLCCB1066	OLD PAINT ST INACTIVE SIT SN011011C	OLD PAINT ST INACTIVE SIT SN011022C
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX		SOIL	SOIL	SOIL	WATER	WATER	SOIL	SOIL
UNITS		MG/KG	MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO		4	4	4			4	4
POTASSIUM	[FE]	2300	2400	2300	1100 B	100 U	3200	3000
% SOLIDS		98.4	82.6	98.7			87.5	91.9

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TABLE D.2.26 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL013034K

AREA	METHOD	OLD PAINT ST INACTIVE SIT SN011033C	EXP BURN PIT INACTIVE SIT SN008016C	EXP BURN PIT INACTIVE SIT SN008027C	EXP BURN PIT INACTIVE SIT SN008038C	CONTINUING CAL BLANK LLCCB1067	CONTINUING CAL FOUND LLCCV1146	DUPLICATE SN008038C
POTASSIUM	FEI	3200	3500	3600	4000	100 U	1100 B	3600
% SOLIDS		92.9	92.7	88.3	91.1			91.1
AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION	CONTINUING CAL FOUND LLCCV1147	DUPPLICATE RPD SN008038C	CONTINUING CAL BLANK LLCCB1068	INITIAL CAL FOUND A LLICV1378	INITIAL CAL BLANK LLICB1330	PREP BLANK LLPB01588	PREP BLANK LLPB01589	
TYPE OF LOCATION	WATER UG/L	X 4	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L	
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
POTASSIUM	FEI	1100 B	11	100 U	1100 B	100 U	150 B	100
% SOLIDS								
AREA	METHOD						QA	
LOCATION	DIESEL TANKR TANKS LL035018B	DIESEL TANKR TANKS LL035029B	DIESEL TANKR TANKS LL035030B	DIESEL TANKR TANKS LL035041B	DIESEL TANKR TANKS LL035052B	DIESEL TANKR TANKS LL035063B	DIESEL TANKR TANKS LL035063B	DUPPLICATE
TYPE OF LOCATION	OIL MG/KG	OIL MG/KG	OIL MG/KG	OIL MG/KG	OIL MG/KG	OIL MG/KG	OIL MG/KG	
SAMPLE NUMBER	8	8	8	8	8	8	8	
MATRIX								
UNITS								
ENV PROBLEM NO								
POTASSIUM	FEI	0.86 B	0.87 B	0.86 B	0.87 B	1.8 B	2 B	2 B
% SOLIDS		100	100	100	100	100	100	100

TABLE D.2.26 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL013034K

AREA	METHOD	QA CONTINUING CAL FOUND LLCCVII148 WATER UG/L	QA CONTINUING CAL BLANK LLCCB1069 WATER UG/L
POTASSIUM	[FE]	1100 B	100 U
% SOLIDS			

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TABLE D.2.27 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL014013G

AREA	METHOD	QA LAB CONTROL SAMPLE TRUE LL0700111	QA INITIAL CAL TRUE A LL2AA1011	QA INITIAL CAL FOUND A LL2AA2011	QA INITIAL CAL BLANK I LL03A0011	BLDG. 231 SUMP LL022013H	BLDG. 131 TANK LL014013G	QA CONTINUING CAL FOUND LL2AA4011
% SOLIDS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ARSENIC	F	50	27	26	0.64 U	1.4 B	7.6 B	27
BERYLLIUM	FF	100	29	29	0.24 U	225		27
CHROMIUM	FF	50	20	21	0.17 U	49	194	19
LEAD	FF	50	43	46	0.44 U	319	1310	45
NICKEL	FF	50	51	50	1.6 U	180	67	50
SILVER	FF	3.7	9.9	10	0.09 U		0.9 B	10
SODIUM	F							
AREA	METHOD	QA CONTINUING CAL FOUND LL2AA5011	QA CONTINUING CAL BLANK LL03A1011	QA CONTINUING CAL BLANK LL03A2011	QA CONTINUING CAL BLANK LL03A3011	QA CONTINUING CAL BLANK LL03A4011	QA INITIAL CAL FOUND A LL2AB2011	QA INITIAL CAL BLANK 2 LL03B0011
% SOLIDS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ARSENIC	F		0.64 U				28	0.64 U
BERYLLIUM	FF	28	0.24 U	0.24 U			28	0.24 U
CHROMIUM	FF		0.17 U				21	0.4 B
LEAD	FF	45	0.44 U	0.9 B	0.44 U	0.44 U		0.44 U
NICKEL	FF	51	1.6 U	1.6 U	1.6 U			1.6 U
SILVER	F		0.09 U				10	0.1 B
SODIUM								0.09 U
% SOLIDS								

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TABLE D.2.27 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL014013G

AREA	METHOD	QA LAB CONTROL SAMPLE LL0700111	QA PREP BLANK LL03A0011	QA CONTINUING CAL FOUND LL2AB4011	QA CONTINUING CAL FOUND LL2AB5011	QA CONTINUING CAL BLANK LL03B4011	QA CONTINUING CAL BLANK LL03B5011	QA INITIAL CAL BLANK 3 LL03C0007
ENV PROBLEM NO		WATER UG/L	WATER UG/L	UG/L	UG/L	WATER UG/L	WATER UG/L	WATER UG/L
ARSENIC	F	49	0.64 U	27	27	0.64 U	0.64 U	0.64 U
BERYLLIUM	FFF	104	0.24 U	27	27	0.24 U	0.24 U	
CHROMIUM	FFF	48	1.2 B	22		0.2 B		0.5 B
LEAD	FFF	55	1.4 B	47	44	0.44 U		
NICKEL	FFF	51	1.6 UU	49		1.6 UU		1.9 B
SILVER	FFF	3.8	0.09 U	10		0.09 U		0.09 U
SODIUM	F							
% SOLIDS	I	I						
AREA	METHOD	QA INITIAL CAL FOUND A LL2AC2009	QA CONTINUING CAL BLANK LL03C7007	BLDG. 141 SUMP LL015014H	BLDG. 222 TANK LL021012I	BLDG. 222 TANK LL020011I	BLDG. 141 SUMP LL016015G	QA CONTINUING CAL FOUND LL2AC4009
ENV PROBLEM NO		UG/L	WATER UG/L	UG/L	UG/L	UG/L	WATER UG/L	UG/L
ARSENIC	F	25	0.64 U	0.8 B	4.1 B	7.1 B	2.7 B	24
BERYLLIUM	FFF	19	0.3 U	44000	106	158	0.24 U	
CHROMIUM	FFF	44		2950	172	113	1190	22
LEAD	FFF	54	1.9 B	441	49	157	1700	47
NICKEL	FFF	9.9	0.09 U				157	54
SILVER	F							9.9
SODIUM								
% SOLIDS	I	I						

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TABLE D.2.27 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL014013G

AREA	METHOD	QA CONTINUING CAL BLANK LL03C8007	QA INITIAL CAL FOUND A LL2AD2005	QA CONTINUING CAL BLANK LL03C9007	BLDG. 141 SUMP WATER UG/L	BLDG. 151 TANK WATER UG/L	QA DUPLICATE LL018017G	QA DUPLICATE RPD LL018017G
ENV PROBLEM NO		UG/L	UG/L	UG/L	4	4	4	4
ARSENIC	F				1 B 0.24 U	1.4 B 0.24 U	0.64 U	
BERYLLIUM	FFF				20 190	14	0.24 U	
CHROMIUM	FFF	1.4 B		0.9 B	3400	163	14	
LEAD	FFF				14	149	176	7.6
NICKEL	FFF	51				0.3 B	160	7.1
SILVER	FFF		9.2				0.2 B	
SODIUM	F							0

% SOLIDS

AREA	METHOD	QA MATRIX SPIKE LL018017G	QA MS % RECOVERY LL018017G	BLDG. 151 TANK LL019018G	BLDG. 298 TANK LL024015I	QA CONTINUING CAL FOUND LL2AD4005	QA CONTINUING CAL BLANK LL03C1007
ENV PROBLEM NO		UG/L	%	UG/L	UG/L	UG/L	UG/L
ARSENIC	F	18	83	1 B	0.8 B		
BERYLLIUM	FFF	3.9	78	0.24 U	145		
CHROMIUM	FFF	33	95	23		21	
LEAD	FFF	199		86	212		0.9 B
NICKEL	FFF	190	102	32	19	48	
SILVER	FFF	5.1	96			9.3	
SODIUM	F						

% SOLIDS

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TABLE D.2.28 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL015014G

AREA	METHOD	QA	QA	QA	QA	BLDG. 231	BLDG. 231	BLDG. 141
LOCATION		CALIBRATION	INITIAL CAL	CALIBRATION	CALIBRATION	SUMP	SUMP	SUMP
TYPE OF LOCATION		VER TRUE	BLANK	VER FOUND	VER FOUND	LL022024F	LL022013G	LL015014G
SAMPLE NUMBER		LLCVA1253	LLICB1331	LLCVA1245	LLCVA1246			
MATRIX		WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO						4	4	4
URANIUM, TOTAL		16100	1 U	16400	16200	1 U	18	1 U
% SOLIDS								
AREA	METHOD							
LOCATION		BLDG. 141						
TYPE OF LOCATION		SUMP						
SAMPLE NUMBER		LL015025G						
MATRIX		WATER						
UNITS		UG/L						
ENV PROBLEM NO		4.						
URANIUM, TOTAL		1 U						
% SOLIDS								

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TABLE D.2.29 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL015014H

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LAB CONTROL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CONTINUING	PREP	CONTINUING
TYPE OF LOCATION	T	SAMPLE TRUE	TRUE A	BLANK 1	FOUND A	CAL BLANK	BLANK	CAL FOUND
SAMPLE NUMBER	H	LL0700112	LL2AA1012	LL03A0012	LL2AA2012	LL03A1012	LL03A0012	LL2AA4012
MATRIX	O	WATER	UG/L	WATER	UG/L	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
MERCURY	CV	18	10	0.01 U	9.8	0.01 U	0.04 B	9.8
% SOLIDS								
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LAB CONTROL	BLDG. 231	BLDG. 131	BLDG. 141	CONTINUING	CONTINUING	BLDG. 222
TYPE OF LOCATION	T	SAMPLE	SUMP	TANK	SUMP	CAL BLANK	CAL FOUND	TANK
SAMPLE NUMBER	H	LL0700112	LL022013H	LL0140130	LL015014H	LL03A2012	LL2AA5012	LL021012I
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		4	4	4	4	4	4	4
MERCURY	CV	17	0.36	2.6	0.11 B	0.01 U	10	23
% SOLIDS								
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	BLDG. 222	BLDG. 298	BLDG. 141	DUPLICATE	MATRIX	MS X	CONTINUING
TYPE OF LOCATION	T	TANK	TANK	SUMP	SPIKE	RECOVERY	RECOVERY	CAL BLANK
SAMPLE NUMBER	H	LL020011I	LL024015I	LL016015G	LL016015G	LL016015G	LL016015G	LL03A3012
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	x	UG/L
ENV PROBLEM NO		4	4	4	4	4	4	UG/L
MERCURY	CV	6.2	3	0.07 B	0.07 B	1.1	96	0.01 U
% SOLIDS								

TABLE D.2.29 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL015014H

AREA	METHOD	QA	BLDG. 222 SEWERS	BLDG. 141 SUMP	BLDG. 151 TANK	BLDG. 151 TANK	QA	QA
LOCATION		CONTINUING					CONTINUING	CONTINUING
TYPE OF LOCATION		CAL FOUND					CAL BLANK	CAL FOUND
SAMPLE NUMBER		LL2AB4012	LL912043C	LL017016G	LL018017G	LL019018G	LL03B4012	LL2AB5012
MATRIX			WATER	WATER	WATER	WATER		
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO			2	4	4	4		
MERCURY	CVI	9.9	2.1	0.05 B	3	9.9	0.01 U	9.8
% SOLIDS		1 1						
AREA	METHOD	QA						
LOCATION		CONTINUING						
TYPE OF LOCATION		CAL BLANK						
SAMPLE NUMBER		LL03B5012						
MATRIX			WATER					
UNITS		UG/L						
ENV PROBLEM NO								
MERCURY	CVI	0.01 U						
% SOLIDS		1 1						

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TABLE D.2.30 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL015025E

AREA	METHOD	QA INITIAL CAL TRUE A LL2AA1013 UG/L	QA INITIAL CAL BLANK 1 LL03A0013 WATER UG/ML	QA CONTINUING CAL BLANK LL03A1013 WATER UG/ML	QA INITIAL CAL FOUND A LL2AA2013 UG/L	BLDG. 131 TANK LL014013E WATER UG/ML 4	BLDG. 141 SUMP LL015014E WATER UG/ML 4	QA DUPLICATE LL015014E WATER UG/ML 4
TOC		4.1	0.1	0.1	4.3	6.2	26	26
% SOLIDS								
AREA	METHOD	QA DUPLICATE RPD LL015014E %	QA MATRIX SPIKE LL015014E %	QA MS % RECOVERY LL015014E %	QA BLDG. 141 SUMP LL015025E %	QA CONTINUING CAL BLANK LL03A2013 %	QA CONTINUING CAL FOUND LL2AA4013 %	
TOC		0	16	105	0.6	0.2	3.9	
% SOLIDS								

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TABLE D.2.31 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL016015F

AREA	M	QA						
LOCATION	E	CALIBRATION	CALIBRATION	CALIBRATION	INITIAL CAL	CALIBRATION	CALIBRATION	CALIBRATION
TYPE OF LOCATION	T	VER TRUE	VER TRUE	VER TRUE	BLANK	VER FOUND	VER FOUND	VER FOUND
SAMPLE NUMBER	H	LLCVA1254	LLCVB1264	LLCVC1270	LLICB1333	LLCVA1247	LLCVA1248	LLCVB1259
MATRIX	O	WATER						
UNITS	D	UG/L						
ENV PROBLEM NO								
URANIUM, TOTAL		16100	50	590	1 U	16500	16400	49
% SOLIDS								
AREA	M	QA	QA	QA	FIRING TABLE	FIRING TABLE	FIRING TABLE	FIRING TABLE
LOCATION	E	CALIBRATION	CALIBRATION	CALIBRATION	DITCHES	DITCHES	DITCHES	DITCHES
TYPE OF LOCATION	T	VER FOUND	VER FOUND	VER FOUND	LL044075A	LL044086A	LL044097A	LL044019A
SAMPLE NUMBER	H	LLCVB1260	LLCVC1267	LLCVC1268	SOIL	SOIL	SOIL	SOIL
MATRIX	O	WATER	WATER	WATER	MG/KG	MG/KG	MG/KG	MG/KG
UNITS	D	UG/L	UG/L	UG/L	13	13	13	13
ENV PROBLEM NO								
URANIUM, TOTAL		50	552	545	59	81	95	6.1
% SOLIDS					64	65.7	72	68.3
AREA	M	FIRING TABLE	DUPLICATE	DUPLICATE				
LOCATION	E	DITCHES	DITCHES	DITCHES	DITCHES	DITCHES	RPD	RPD
TYPE OF LOCATION	T	LL044020A	LL044031A	LL044042A	LL044053A	LL044064A	LL044064A	LL044064A
SAMPLE NUMBER	H							
MATRIX	O	SOIL						
UNITS	D	MG/KG						
ENV PROBLEM NO		13	13	13	13	13	13	13
URANIUM, TOTAL		7.9	3	8	7.9	9.6	11	14
% SOLIDS		88.6	98.8	95.7	93.4	95		

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TABLE D.2.31 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL016015F

AREA	METHOD	FIRING TABLE	BLDG. 321	BLDG. 492	BLDG. 141	BLDG. 141	BLDG. 151	BLDG. 151	
LOCATION		DITCHES	SUMP	SUMP	SUMP	SUMP	TANK	TANK	
TYPE OF LOCATION		LL044100A	LL025016L	LL026017H	LL016015F	LL017016F	LL018017F	LL019018F	
SAMPLE NUMBER									
MATRIX		WATER	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO		13	4	4	4	4	4	4	
URANIUM, TOTAL			1 U	1 U	1 U	1 U	2	1 U	1 U
X SOLIDS			1	1					

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TABLE D.2.32 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL020011E

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	T	INITIAL CAL	INITIAL CAL	CONTINUING	INITIAL CAL	BLDG. 321	DUPLICATE	DUPLICATE
TYPE OF LOCATION	H	TRUE A	BLANK 1	CAL BLANK	FOUND A	SUMP	RPD	RPD
SAMPLE NUMBER	O	LL2AA1014	LL03A0014	LL03A1014	LL2AA2014	LL025027E	LL025027E	LL025027E
MATRIX	D	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		UG/L	UG/ML	UG/ML	UG/L	4	UG/ML	%
ENV PROBLEM NO						4		4
TOC		4.1	0.1	0.1	4.2	0.5	0.5	0
% SOLIDS								
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	T	BLDG. 321	DUPLICATE	DUPLICATE	BLDG. 492	DUPLICATE	DUPLICATE	MATRIX
TYPE OF LOCATION	H	SUMP	RPD	LL025016E	LL026017E	LL026017E	LL026017E	SPIKE
SAMPLE NUMBER	O	LL025016E	LL025016E	LL025016E	WATER	WATER	LL026017E	LL026017E
MATRIX	D	WATER	WATER	WATER	UG/ML	UG/ML	WATER	WATER
UNITS		UG/ML	UG/ML	%	4	4	UG/ML	UG/ML
ENV PROBLEM NO		4	4	4	4	4	4	4
TOC		249	255	2.4	880	874	0.7	12
% SOLIDS								
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	T	MS %	CONTINUING	CONTINUING	CONTINUING	BLDG. 222	DUPLICATE	DUPLICATE
TYPE OF LOCATION	H	RECOVERY	CAL BLANK	CAL BLANK	CAL FOUND	TANK	RPD	RPD
SAMPLE NUMBER	O	LL026017E	LL03A2014	LL03A3014	LL2AA4014	LL021012E	LL021012E	LL021012E
MATRIX	D	%	WATER	WATER	UG/L	WATER	WATER	WATER
UNITS		4	UG/ML	UG/ML		4	UG/ML	UG/ML
ENV PROBLEM NO						4		%
TOC		107	0.2	0.1	4.1	31	32	3.2
% SOLIDS								

TABLE D.2.32 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL020011E

AREA	METHOD	QA BLDG. 222 TANK LL020011E WATER UG/ML 4	QA DUPLICATE RPD LL020011E WATER UG/ML 4	QA DUPLICATE RPD LL020011E WATER UG/ML 4	QA BLDG. 298 TANK LL024015E WATER UG/ML 4	QA DUPLICATE RPD LL024015E WATER UG/ML 4	QA DUPLICATE RPD LL024015E WATER UG/ML 4	QA MATRIX SPIKE LL024015E WATER UG/ML 4
TOC		62	62	0	767	777	1.3	12
% SOLIDS								
AREA	METHOD	QA MS % RECOVERY LL024015E %	QA CONTINUING CAL BLANK LL03B4013 WATER UG/ML 4	QA CONTINUING CAL FOUND LL2AA5014 UG/L				
TOC		111	0.2	4				
% SOLIDS								

TABLE D.2.33 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL028019C

AREA	M	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LINEAR RANGE	INTER CHK	INITIAL CAL	INITIAL CAL	INITIAL CAL	LAB CONTROL	SAMPLE TRUE	INITIAL CAL
TYPE OF LOCATION	T	ANALYSIS	SOL. A TRUE	TRUE A	TRUE B	TRUE C	FOUND A	LLCS1518	LLICV1379
SAMPLE NUMBER	H	LLLRA1534	LLICS1361	LLICV1397	LLICV1414	LLICV1430	WATER	SOIL	WATER
MATRIX	O	WATER	UG/L	WATER	UG/L	WATER	UG/L	MG/KG	UG/L
UNITS	D								
ENV PROBLEM NO									
ALUMINUM	P	7500	508000	100000	990	15200	20	U	102000
ANTIMONY	P	10000			1000		680		
ARSENIC	P	20000			1000		430		
BARIUM	P	5000	483		990		1	U	
BERYLLIUM	P	1500	474		240				
CADMIUM	P	5000	909		244		1	U	
CALCIUM	P	10000	516000		24900	5000	10500		
CHROMIUM	P	10000	513		253		17		
COBALT	P	10000	478		237		6.9		
COPPER	P	10000	534		271		265		
IRON	P	12000	203000	100000	995		11200		103000
LEAD	P	50000	4850		2250		5830		
MAGNESIUM	P	12000	509000	50000		5000	14700		50600
MANGANESE	P	2500	531	50000	256		91700		49900
NICKEL	P	15000	916		248		22		
SELENIUM	P	10000			1000		1	U	
SILVER	P	10000	993		254		2	U	
SODIUM	P	10000		100000		5000	3720		97900
VANADIUM	P	10000	475		255		18		
ZINC	P	6000	973		1550		425		

X SOLIDS

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	INITIAL CAL	INITIAL CAL	INITIAL CAL	INTER CHK	PREP	PREP	LAB CONTROL
TYPE OF LOCATION	T	FOUND B	FOUND C	BLANK	SOL. A INIT	BLANK	BLANK	SAMPLE
SAMPLE NUMBER	H	LLICV1406	LLICV1422	LLICB1336	LLICS1353	LLPB01590	LLPB01591	LLCS1497
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER	SOIL
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG
ENV PROBLEM NO								
ALUMINUM	P	1070		60 U	496000	60 U	60 U	16600
ANTIMONY	P	993		50 U		50 U	50 U	9.2 U
ARSENIC	P	1030		60 U		60 U	60 U	625
BARIUM	P	995		2 U	462	2 U	2 U	428
BERYLLIUM	P	242		0.3 U	446	0.3 U	0.3 U	0.8
CADMIUM	P	235		2 U	844	2 U	2 U	1.1
CALCIUM	P	26200	4970 B	200 U	486000	200 U	200 U	10400

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TABLE D.2.33 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL028019C

AREA	M E T H O D	QA FOUND B LLICV1406 WATER UG/L	QA FOUND C LLICV1422 WATER UG/L	QA INITIAL CAL BLANK LLICB1336 WATER UG/L	QA INTER CHK SOL. A INIT LLICS1353 WATER UG/L	QA PREP BLANK LLPB01590 WATER UG/L	QA PREP BLANK LLPB01591 WATER UG/L	QA LAB CONTROL SAMPLE LLLCS1497 SOIL MG/KG
CHROMIUM	P	256		6 U	444	6 U	6 U	1.1 U
COBALT	P	242		3 U	417	3 U	3 U	4.9
COPPER	P	263		10 U	507	10 U	10 U	252
IRON	P	954		20 U	181000	24 B	43 B	12000
LEAD	P	2230		50 U	4230	50 U	50 U	5250
MAGNESIUM	P		5000	10 U	489000	12 B	10 U	15600
MANGANESE	P	248		5 U	465	5 U	5 U	97900
NICKEL	P	230		6 U	814	6 U	6 U	22
SELENIUM	P	1040		60 U		60 U	60 U	11 U
SILVER	P	244		6 U	891	6 U	6 U	5.8
SODIUM	P		5130	200 U		200 U	200 U	3140
VANADIUM	P	264		4 U	448	4 U	4 U	11
ZINC	P	1510		3 U	913	3 U	5 B	409

## % SOLIDS

AREA	M E T H O D	QA GSA AREA GSA AREA LL031149C SOIL MG/KG	QA BLDG. 321 DRUMRACKS LL028019C SOIL MG/KG	QA BLDG. 321 DRUMRACKS LL028020C SOIL MG/KG	QA BLDG. 321 DRUMRACKS LL028031C SOIL MG/KG	QA CONTINUING CAL BLANK LLCCB1071 WATER UG/L	QA CONTINUING CAL FOUND LLCCV1149 WATER UG/L	QA CONTINUING CAL FOUND LLCCV1188 WATER UG/L
ALUMINUM	P	8110	11100	11200	10700	60 U	95300	1020
ANTIMONY	P	7 UN	8 UN	7 UN	7.3 UN	50 U		1030
ARSENIC	P	8.4 UN	9.6 UN	8.4 UN	8.8 UN	60 U		1030
BARIUM	P	130 N	173 N	158 N	212 N	2 U		1030
BERYLLIUM	P	0.38 B	0.38 B	0.34 B	0.37 B	0.3 U		249
CADMUM	P	0.92	2.3	0.58 B	0.75	2 U		244
CALCIUM	P	11200	4910	10500	6330	200 U		26600
CHROMIUM	P	16 E	34 E	32 E	30 E	6 U		266
COBALT	P	4.7 Bx	12 x	7 Bx	7 Bx	3 U		254
COPPER	P	21 N	54 N	24 N	30 N	10 U		270
IRON	P	13900 x	19800 x	19800 x	19000 x	20 U	100000	1010
LEAD	P	18 Bx	54 x	14 Bx	32 x	50 U		2270
MAGNESIUM	P	4390	5120	5550	4650	10 U	49400	
MANGANESE	P	346 E	579 E	547 E	521 E	5 U	51900	266

TABLE D.2.33 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL028019C

AREA	M	GSA AREA	BLDG. 321	BLDG. 321	BLDG. 321	QA	QA	QA
LOCATION	E	GSA AREA	DRUMRACKS	DRUMRACKS	DRUMRACKS	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION	T	LL031149C	LL028019C	LL028020C	LL028031C	CAL BLANK	CAL FOUND	CAL FOUND
SAMPLE NUMBER	H	SOIL	SOIL	SOIL	SOIL	WATER	WATER	WATER
MATRIX	O	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L	UG/L
UNITS	D	6	6	6	6			
ENV PROBLEM NO								
NICKEL	P	19 NxE	42 NxE	45 NxE	38 NxE	6 U		242
SELENIUM	PP	8.4 UN	9.6 UN	8.4 UN	8.8 UN	60 U		1070
SILVER	PP	1.1 B	3.3	1.1 B	1.1 B	6 U		255
SODIUM	PP	605 B	197 B	178 B	174 B	200 U	99100	
VANADIUM	PP	31 E	28 E	26 E	29 E	4 U		279
ZINC	P	101 Nx	391 Nx	59 Nx	77 Nx	3 U		1580
% SOLIDS	I	92.3	86.3	91.5	86.3			

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AREA	M	QA	BLDG. 321	BURN PIT				
LOCATION	E	CONTINUING	DRUMRACKS	PITS	PITS	PITS	PITS	PITS
TYPE OF LOCATION	T	CAL FOUND	LL028042C	LL034017D	LL034028D	LL034039D	LL034040D	LL034051D
SAMPLE NUMBER	H	WATER	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
MATRIX	O	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
UNITS	D	6	7	7	7	7	7	7
ENV PROBLEM NO								
ALUMINUM	P	15700	17300	22400	17400	20000	21400	7.3 UN
ANTIMONY	PP	7.8 UN	7 UN	7.1 UN	7 UN	6.6 UN	8 UN	8.7 UN
ARSENIC	PP	9.3 UN	8.4 UN	8.5 UN	8.4 UN	120 N	132 N	
BARIUM	PP	218 N	157 N	226 N	524 N			
BERYLLIUM	PP	0.49 B	0.84	1.1	2.8	0.99		1
CADMIUM	PP	1.1	2	3.2	2.2	1.1		1.3
CALCIUM	P	4350	10500	16000	9890	11800	10400	
CHROMIUM	PP	42 E	20 E	29 E	34 E	19 E	21 E	
COBALT	PP	9.4 *	12 *	22 *	9.5 *	9.3 *	10 *	
COPPER	PP	26 N	355 N	738 N	64 N	33 N	70 N	
IRON	PP	24400 *	28900 *	36800 *	45900 *	26100 *	27700 *	
LEAD	P	11 BX	31 *	39 *	167 *	13 BX	12 BX	
MAGNESIUM	PP	5750	8300	11000	8250	10900	10500	
MANGANESE	PP	605 E	617 E	802 E	618 E	446 E	336 E	
NICKEL	PP	53 NxE	26 NxE	46 NxE	41 NxE	18 NxE	20 NxE	
SELENIUM	PP	9.3 UN	8.4 UN	8.5 UN	8.4 UN	8 UN	8.7 UN	
SILVER	PP	1.6	3.1	4.5	3.2	2.2	2.2	
SODIUM	P	161 B	1340	2020	1130	2110	2210	
VANADIUM	PP	42 E	65 E	72 E	64 E	85 E	88 E	
ZINC	P	58 Nx	1250 Nx	313 Nx	350 Nx	95 Nx	96 Nx	
% SOLIDS	I	86	96.1	95.2	97.7	96.1	96.8	

TABLE D.2.33 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL028019C

AREA	M	BURN PIT PITS LL034062D	BURN PIT PITS LL034073D	BURN PIT PITS LL034084D	BURN PIT PITS LL034095D	QA CAL FOUND LLCCV1150	QA CAL FOUND LLCCV1189	QA CAL FOUND LLCCV1224
LOCATION	METHOD	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	WATER UG/L	WATER UG/L	WATER UG/L
TYPE OF LOCATION		7	7	7	7			
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	22700	26400	25900	25000	93800	958	
ANTIMONY	P	6.9 UN	11 N	7 UN	7 UN		991	
ARSENIC	P	8.3 UN	8.3 UN	8.4 UN	8.4 UN		993	
BARIUM	P	132 N	1190 N	775 N	676 N		985	
BERYLLIUM	P	1.1	1.1	1.1	1.1		240	
CADMIUM	P	1.3	2	1.5	2.4		234	
CALCIUM	P	10200	16400	15300	16000		25900	4830 B
CHROMIUM	P	23 E	24 E	24 E	25 E		256	
COBALT	P	12 X	14 X	14 X	12 X		245	
COPPER	P	43 N	613 N	224 N	374 N		267	
IRON	P	28900 X	28200 X	31100 X	28100 X	96900	966	
LEAD	P	14 BX	39 X	63 X	54 X		2190	
MAGNESIUM	P	10800	11500	11400	11200	48000		5160
MANGANESE	P	448 E	543 E	608 E	604 E	49800	246	
NICKEL	P	20 NXE	33 NXE	36 NXE	25 NXE		231	
SELENIUM	P	8.3 UN	8.3 UN	8.4 UN	8.4 UN		998	
SILVER	P	2	3	2.5	2.5		258	
SODIUM	P	2260	2190	2060	1990	100000		5300
VANADIUM	P	89 E	86 E	86 E	85 E		275	
ZINC	P	102 Nx	262 Nx	158 Nx	226 Nx		1550	
X SOLIDS	I	96.6	96.7	96.7	96.9			

AREA	M	QA	BURN PIT PITS LL034108D	BURN PIT PITS LL034119D	BURN PIT PITS LL034120D	ARROYO SECO ARROYOS SN004012D	ARROYO SECO ARROYOS SN004023D	ARROYO SECO ARROYOS SN004034D
LOCATION	METHOD	CAL BLANK	WATER UG/L	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG
TYPE OF LOCATION			7	7	7	1	1	1
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	60 U	20100	17200	16700	7250	7630	7550
ANTIMONY	P	50 U	6.9 UN	6.8 UN	6.9 UN	7.6 BN	7.1 UN	6.9 UN
ARSENIC	P	60 U	8.3 UN	8.2 UN	8.3 UN	9 UN	8.6 UN	8.3 UN
BARIUM	P	2 U	478 N	445 N	382 N	90 N	89 N	94 N
BERYLLIUM	P	0.3 U	1.1	0.94	1.4	0.22 B	0.22 B	0.25 B
CADMIUM	P	2 U	1.9	2.8	1.7	0.9	0.85	0.87
CALCIUM	P	200 U	12200	11400	10700	2140	2290	2900

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TABLE D.2.33 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL028019C

AREA	M	QA	CONTINUING	BURN PIT	BURN PIT	BURN PIT	ARROYO SECO	ARROYO SECO	ARROYO SECO
LOCATION	T		CAL BLANK	PITS	PITS	PITS	ARROYOS	ARROYOS	ARROYOS
TYPE OF LOCATION	H		LLCCB1072	LL034108D	LL034119D	LL034120D	SN004012D	SN004023D	SN004034D
SAMPLE NUMBER	O		WATER	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
MATRIX	D		UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
UNITS				7	7	7	1	1	1
ENV PROBLEM NO									
CHROMIUM	P		6 U	31 E	36 E	34 E	25 E	25 E	23 E
COBALT	P		3 U	12 X	11 X	11 X	5 B*	7.2 X	5.5 B*
COPPER	P		10 U	256 N	191 N	57 N	16 N	24 N	16 N
IRON	P		20 U	37500 X	60900 X	35700 X	14800 X	17400 X	17600 X
LEAD	P		50 U	36 X	28 X	37 X	7.5 UX	7.1 UX	7.4 B*
MAGNESIUM	P		10 U	9950	8190	8260	4610	5080	4610
MANGANESE	P		5 U	671 E	726 E	1100 E	304 E	459 E	437 E
NICKEL	P		6 U	38 NxE	45 NxE	40 NxE	43 NxE	36 NxE	36 NxE
SELENIUM	P		60 U	8.3 UN	8.2 UN	8.3 UN	9 UN	8.6 UN	8.3 UN
SILVER	P		6 U	3.3	3.3	3.1	1.3 B	1.4 B	1.1 B
SODIUM	P		200 U	1420	1250	1130	99 B	135 B	76 B
VANADIUM	P		4 U	76 E	65 E	66 E	25 E	24 E	26 E
ZINC	P		3 U	253 Nx	273 Nx	292 Nx	77 Nx	48 Nx	37 Nx
% SOLIDS	I	I		97.5	97.5	97.2	88.3	95.3	97.6

AREA	M	QA	QA	QA	QA	QA	QA	OLD FIRE TRA
LOCATION	T	SERIAL	SD %	DUPLICATE	DUPLICATE	MATRIX	MS %	INACTIVE SIT
TYPE OF LOCATION	H	DILUTION	DIFFERENCE	SN004034D	RPD	SPIKE	RECOVERY	SN009017C
SAMPLE NUMBER	O	SN004034D	SN004034D	SN004034D	SN004034D	SN004034D	SN004034D	SN009017C
MATRIX	D	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS		MG/KG	%	MG/KG	%	MG/KG	%	MG/KG
ENV PROBLEM NO		1	1	1	1	1	1	4
ALUMINUM	P	6860	9.1	7660	1.4	7330		18500
ANTIMONY	P	35 U		6.9 U		28	41	7.4 UN
ARSENIC	P	42 U		8.3 U		10 B	71	8.9 UN
BARIUM	P	99	5.3	112	18	537	163	249 N
BERYLLIUM	P	0.21 U		0.25 B		7.1	101	0.6 B
CADMUM	P	1.4 U		0.98	0.11	7.5	97	0.76
CALCIUM	P	2840	2.1	2700	200	4020		3520
CHROMIUM	P	25		27	16	49	96	45 E
COBALT	P	3 B		5.5 B		71	96	9.6 X
COPPER	P	17		15	1	45	85	28 N
IRON	P	18300	4	17700	0.57	16100		26300
LEAD	P	35 U		6.9 U		73	96	10 B*
MAGNESIUM	P	5030	9.1	4590	0.43	5140		5220
MANGANESE	P	369	16	444	1.6	1520		681 E

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TABLE D.2.35 LIVERMORE/SANDIA METALS, INCLUDING CR+6 -- SDG NUMBER: LL028019C

AREA	M	QA	QA	QA	QA	QA	QA	OLD FIRE TRA
LOCATION	E	SERIAL	SD X	DUPLICATE	DUPLICATE	MATRIX	MS X	INACTIVE SIT
TYPE OF LOCATION	T	DILUTION	DIFFERENCE	RPD	SN004034D	SPIKE	RECOVERY	SN009017C
SAMPLE NUMBER	H	SN004034D	SN004034D	SOIL	SN004034D	SOIL	SN004034D	SOIL
MATRIX	O	SOIL	SOIL	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
UNITS	D	MG/KG	X	1	1	1	1	4
ENV PROBLEM NO								
NICKEL	P	38		36	0	103	99	51 NxE
SELENIUM	P	42 U		8.3 U		8.1 U		8.9 UN
SILVER	P	4.2 U		1.1 B		8.6		1.6
SODIUM	P	139 U		99 B		96 B		225 B
VANADIUM	P	24		28	2	93	99	48 E
ZINC	P	2.8		40	7.8	109	106	60 Nx
% SOLIDS	I	I	97.6		97.6		97.6	90.3
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	CONTINUING	CONTINUING	CONTINUING	CONTINUING	PREP	PREP	LAB CONTROL
TYPE OF LOCATION	T	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	BLANK	BLANK	SAMPLE
SAMPLE NUMBER	H	LLCCV1151	LLCCV1190	LLCCV1225	LLCCB1073	LLPB01592	LLPB01593	LLLCI1498
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER	SOIL
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG
ENV PROBLEM NO								
ALUMINUM	P	93900	970		60 U	65 B	60 U	17600
ANTIMONY	P		993		50 U	50 U	50 U	9.3 U
ARSENIC	P		983		60 U	60 U	60 U	623
BARIUM	P		979		2 U	16 B	20 B	435
BERYLLIUM	P		237		0.3 U	0.3 U	0.3 U	0.83
CADMIUM	P		234		2 U	3.1 B	2 U	1.4
CALCIUM	P		25600	4850 B	200 U	200 U	200 U	10800
CHROMIUM	P		250		6 U	6 U	6 U	1.1 U
COBALT	P		240		3 U	3 U	3 U	4.7
COPPER	P		261		10 U	10 B	11 B	269
IRON	P	97400	950		20 U	24	27 B	11800
LEAD	P		2160		50 U	50 U	50 U	5360
MAGNESIUM	P	48400		4920 B	10 U	10 U	10 U	15700
MANGANESE	P	51000	242		5 U	5 U	5 U	97200
NICKEL	P		232		6 U	8 B	6 U	21
SELENIUM	P		994		60 U	60 U	60 U	11 U
SILVER	P		245		6 U	6 U	6 U	7.1
SODIUM	P	101000		5250	200 U	200 U	200 U	3370
VANADIUM	P		261		4 U	4 U	4 U	13
ZINC	P		1500		3 U	3 U	3 U	449
% SOLIDS	I	I						

TABLE D.2.33 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL028019C

AREA	METHOD	OLD FIRE TRA INACTIVE SIT SN009028C	OLD FIRE TRA INACTIVE SIT SN009039C	OLD FIRE TRA INACTIVE SIT SN009040C	NAVY LANDFIL INACTIVE SIT SN007015C	NAVY LANDFIL INACTIVE SIT SN007026C	NAVY LANDFIL INACTIVE SIT SN007037C	NAVY LANDFIL INACTIVE SIT SN007048C
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		SOIL MG/KG						
		4	4	4	4	4	4	4
ALUMINUM	P	16900	14200	12400	18700	19800	23400	11800
ANTIMONY	PP	7.1 UN	7.6 UN	7.1 UN	7.7 UN	7.1 UN	7.6 UN	7 UN
ARSENIC	PP	8.5 UN	9.1 UN	8.5 UN	9.3 UN	8.5 UN	9.1 UN	8.4 UN
BARIUM	PP	224 N	210 N	190 N	291 N	364 N	302 N	180 N
BERYLLIUM	PP	0.52 B	0.46 B	0.41 B	0.61 B	0.68 B	0.77	0.36 B
CADMUM	PP	0.93	0.8	0.84	1.1	0.95	1.5	0.75
CALCIUM	PP	2900	2580	2440	6690	4080	7880	3760
CHROMIUM	PP	38 E	36 E	50 E	77 E	74 E	90 E	48 E
COBALT	PP	9.1 X	9.9 X	7.8 X	14 X	13 X	14 X	13 X
COPPER	PP	23 N	23 N	21 N	37 N	32 N	42 N	24 N
IRON	PP	20600 X	19000 X	17100 X	28000 X	29200 X	37200 X	19600 X
LEAD	PP	12 BX	7.8 BX	7.1 UX	12 BX	11 BX	11 BX	7.7 BX
MAGNESIUM	PP	4230	3590	3490	11200	8120	16100	6890
MANGANESE	PP	593 E	673 E	542 E	909 E	712 E	967 E	670 E
NICKEL	PP	48 NXE	38 NXE	43 NXE	114 NXE	122 NXE	134 NXE	103 NXE
SELENIUM	PP	8.5 UN	9.1 UN	8.5 UN	9.3 UN	8.5 UN	9.1 UN	8.4 UN
SILVER	PP	1.7	1.4 B	1.7	2.2	2.1	2.5	2.5
SODIUM	PP	332 B	382 B	287 B	229 B	304 B	351 B	147 B
VANADIUM	PP	44 E	43 E	39 E	46 E	49 E	52 E	34 E
ZINC	P	45 NX	35 NX	31 NX	59 NX	51 NX	76 NX	55 NX
% SOLIDS	I	92.7	93.4	93.7	87.6	87.2	83.1	98.4
AREA	METHOD	QA						
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		NAVY LANDFIL INACTIVE SIT SN007059C	NAVY LANDFIL INACTIVE SIT SN007060C	OLD PAINT ST INACTIVE SIT SN011011C	CONTINUING CAL FOUND LLCCV1152	CONTINUING CAL FOUND LLCCV1191	CONTINUING CAL FOUND LLCCV1226	CONTINUING CAL BLANK LLCCB1074
		SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	WATER UG/L	WATER UG/L	WATER UG/L	WATER UG/L
		4	4	4				
ALUMINUM	P	12600	12400	11700	93400	984		60 U
ANTIMONY	PP	8.1 UN	7 UN	7.3 UN		1000		50 U
ARSENIC	PP	9.7 UN	8.3 UN	8.8 UN		990		60 U
BARIUM	PP	186 N	169 N	382 N		979		22 U
BERYLLIUM	PP	0.37 B	0.4 B	0.38 B		236		0.3 U
CADMUM	PP	1.1	1.1	2.9		234		2.7 B
CALCIUM	P	4160	3850	5260		25600	4840 B	200 U

TABLE D.2.33 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL028019C

AREA	METHOD	NAVY LANDFIL INACTIVE SIT SN007059C	NAVY LANDFIL INACTIVE SIT SN007060C	OLD PAINT ST INACTIVE SIT SN011011C	CONTINUING CAL FOUND LLCCV1152	QA	QA	QA	QA
LOCATION		SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	WATER UG/L		CONTINUING CAL FOUND LLCCV1191	CONTINUING CAL FOUND LLCCV1226	CONTINUING CAL BLANK LLCCB1074
TYPE OF LOCATION		4	4	4	UG/L		WATER UG/L	WATER UG/L	WATER UG/L
SAMPLE NUMBER									
MATRIX									
UNITS									
ENV PROBLEM NO									
CHROMIUM	P	65 E	56 E	40 E			255		
COBALT	P	14 X	12 X	8.3 X			243		
COPPER	P	44 N	27 N	100 N			262		
IRON	P	22800 X	20900 X	18000 X	96600		950		
LEAD	P	12 BX	9.6 BX	277 X			2180		
MAGNESIUM	P	8880	7790	3920	48100			5080	
MANGANESE	P	906 E	662 E	485 E	50900		243		
NICKEL	P	129 NxE	121 NxE	43 NxE			236		
SELENIUM	P	9.7 UN	8.3 UN	8.8 UN			977		
SILVER	P	2.5	2.9	2.1			252		
SODIUM	P	138 B	154 B	392 B	98800		270		
VANADIUM	P	37 E	35 E	38 E			5340		
ZINC	P	71 Nx	63 Nx	418 Nx			1510		
% SOLIDS	I	82.6	98.7	87.5					

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AREA	METHOD	OLD PAINT ST INACTIVE SIT SN011022C	OLD PAINT ST INACTIVE SIT SN011033C	EXP BURN PIT INACTIVE SIT SN008016C	EXP BURN PIT INACTIVE SIT SN008027C	EXP BURN PIT INACTIVE SIT SN008038C	SERIAL DILUTION SN008038C	SD % DIFFERENCE SN008038C
LOCATION		SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	X 4
TYPE OF LOCATION		4	4	4	4	4	4	4
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
ALUMINUM	P	11100	10700	17600	18600	17100	17200	0.58
ANTIMONY	P	7 UN	6.9 UN	7.3 UN	7.8 UN	6.9 UN	32 U	
ARSENIC	P	8.3 UN	8.3 UN	8.8 UN	9.3 UN	8.3 UN	39 U	
BARIUM	P	192 N	172 N	357 N	438 N	322 N	343	
BERYLLIUM	P	0.36 B	0.34 B	0.52 B	0.86	0.49 B	0.43 B	6.5
CADMIUM	P	1.1	0.87	4.5	10	2.1	3.6	
CALCIUM	P	2930	2470	8160	9730	6820	6940	
CHROMIUM	P	34 E	31 E	68 E	85 E	66 E	73	
COBALT	P	7.8 X	7.4 X	18 X	17	27 X	25	
COPPER	P	24 N	19 N	271 N	402 N	78 N	86	
IRON	P	17200 X	16100 X	55300 X	59100 X	34200 X	36400	
LEAD	P	28 X	8.1 BX	188 X	323 X	376 X	404	
MAGNESIUM	P	3830	3640	9960	8780	8900	9510	
MANGANESE	P	563 E	506 E	919 E	896 E	693 E	643	

TABLE D.2.33 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL028019C

AREA	M E T H O D							QA	QA
		OLD PAINT ST INACTIVE SIT	OLD PAINT ST INACTIVE SIT	EXP BURN PIT INACTIVE SIT	EXP BURN PIT INACTIVE SIT	EXP BURN PIT INACTIVE SIT	SERIAL SN008038C	SD % SN008038C	
LOCATION							DILUTION		
TYPE OF LOCATION									
SAMPLE NUMBER									
MATRIX									
UNITS									
ENV PROBLEM NO		SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	% 4	% 4
NICKEL	P	38 NxE	37 NxE	198 NxE	1930 NxE	131 NxE	145		
SELENIUM	P	8.3 UN	8.3 UN	8.8 UN	9.3 UN	8.3 UN	39	U	11
SILVER	P	1.8	1.6	9.6	9.4	5.1	7.4		
SODIUM	P	193 B	190 B	499 B	503 B	426 B	434 B		
VANADIUM	P	38 E	37 E	46 E	49 E	43 E	50		16
ZINC	P	60 Nx	31 Nx	516 Nx	3910 Nx	216 Nx	195		9.7
% SOLIDS	I	91.9	92.9	92.7	88.3	91.1	91.1		
D-152	AREA	M E T H O D	QA	QA	QA	QA	QA	QA	QA
	LOCATION		DUPLICATE	DUPLICATE	MATRIX	MS % RECOVERY	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION			RPD	SN008038C	SPIKE SN008038C	SN008038C	CAL FOUND LLCCV1153	CAL FOUND LLCCV1192	CAL FOUND LLCCV1227
SAMPLE NUMBER					SOIL MG/KG	SOIL MG/KG	WATER UG/L	WATER UG/L	WATER UG/L
MATRIX					X 4	X 4			
UNITS									
ENV PROBLEM NO									
ALUMINUM	P	17100	0	18500		97500	995		
ANTIMONY	P	7.1 U		17	23		981		
ARSENIC	P	8.5 U		8.8 U			1010		
BARIUM	P	297	8.1	610	98		980		
BERYLLIUM	P	0.49 B		8	103		241		
CADMIUM	P	2.1	0	9.4	100		228		
CALCIUM	P	7300	6.8	9590			26200	4640 B	
CHROMIUM	P	56	16	92	90		265		
COBALT	P	15	12	85	79		253		
COPPER	P	88	12	180	276		274		
IRON	P	27300	22	32200		98600	985		
LEAD	P	208	58	312			2250		
MAGNESIUM	P	8020	10	9160		48700		5380	
MANGANESE	P	656	5.5	741		49800	249		
NICKEL	P	100	27	183	71		227		
SELENIUM	P	8.5 U		8.8 U			994		
SILVER	P	4.6	0.5	13	108		290		
SODIUM	P	425 B		472 B		108000		5500	
VANADIUM	P	43	0	125	112		295		
ZINC	P	270	22	338	167		1610		
% SOLIDS	I	91.1		91.1					

TABLE D.2.33 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL028019C

AREA	METHOD	QA CONTINUING CAL BLANK LLCCB1075 WATER UG/L	QA INTER CHK SOL. A FINAL LLICS1345 WATER UG/L
ALUMINUM	P	60	477000
ANTIMONY	P	50	
ARSENIC	P	60	
BARIUM	P	2	457
BERYLLIUM	P	0.3	443
CADMUM	P	2	795
CALCIUM	P	200	484000
CHROMIUM	P	6	469
COBALT	P	3	442
COPPER	P	10	526
IRON	P	20	176000
LEAD	P	50	4360
MAGNESIUM	P	10	469000
MANGANESE	P	5	470
NICKEL	P	6	769
SELENIUM	P	60	
SILVER	P	6	1100
SODIUM	P	227	
VANADIUM	B	4	518
ZINC	P	3	978
X SOLIDS	I		

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TABLE D.2.34 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL031014D

AREA	METHOD	QA LAB CONTROL SAMPLE TRUE LL0700113	QA INITIAL CAL TRUE A LL2AA1015	QA INITIAL CAL FOUND A LL2AA2015	QA INITIAL CAL BLANK 1 LL03A0015	QA PREP BLANK LL03A0015	GSA AREA GSA AREA LL031025D	GSA AREA GSA AREA LL031036D
BERYLLIUM LEAD	F	1 U 5830	7.3 43	7.5 40	0.13 U 0.44 U	0.03 U 0.28 B	0.58 B 10	0.95 8.8
% SOLIDS	I						97.4	97.1
AREA	METHOD	QA CONTINUING CAL FOUND LL2AA4015	QA CONTINUING CAL BLANK LL03A1015	GSA AREA GSA AREA LL031070D	QA DUPLICATE LL031070D	QA DUPLICATE RPD LL031070D	GSA AREA SPIKE LL031070D	GSA AREA MS % RECOVERY LL031070D
BERYLLIUM LEAD	F	7.9 39	0.13 U 0.44 U	0.43 B 33	0.42 B 27	20	2.1 44	104 124
% SOLIDS	I			98.4				
AREA	METHOD	QA CONTINUING CAL FOUND LL2AA5015	QA CONTINUING CAL BLANK LL03A2015	QA INITIAL CAL FOUND A LL2AB2013	QA INITIAL CAL BLANK 2 LL03B0014	GSA AREA GSA AREA LL031081D	GSA AREA GSA AREA LL031092D	GSA AREA GSA AREA LL031105D
BERYLLIUM LEAD	F	7.8 39	0.13 U 0.6 B	7 40	1.1 B 0.44 U	0.75 B 31	0.6 B 23	0.5 B 35
% SOLIDS	I					98.8	98.1	91.1

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TABLE D.2.34 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL031014D

AREA		QA		QA		QA		BURN PIT	
LOCATION	METHOD	GSA AREA	GSA AREA	CONTINUING	CONTINUING	GSA AREA	GSA AREA	PITS	
TYPE OF LOCATION		GSA AREA	GSA AREA	CAL FOUND	CAL BLANK	GSA AREA	GSA AREA	LL034017E	
SAMPLE NUMBER		LL031116D	LL031127D	LL2AB4013	LL03B4014	LL031149D	LL031150D	SOIL	
MATRIX		SOIL	SOIL	UG/L	SOIL	SOIL	SOIL	MG/KG	
UNITS		MG/KG	MG/KG		MG/KG	MG/KG	MG/KG	MG/KG	
ENV PROBLEM NO		6	6		6	6	6	7	
BERYLLIUM	F	0.36	0.35	7.2	0.13	0.38	0.38	0.83	
LEAD	F	B 16	B 23	40	U 0.44	B 22	B 24	B 24	
% SOLIDS	I	98.1	98			93.1	92.7	95.8	
AREA		QA		QA		QA		QA	
LOCATION	METHOD	BURN PIT	BURN PIT	BURN PIT	BURN PIT	CONTINUING	CONTINUING	INITIAL CAL	
TYPE OF LOCATION		PITS	PITS	PITS	PITS	CAL FOUND	CAL BLANK	FOUND A	
SAMPLE NUMBER		LL034028E	LL034039E	LL034040E	LL034051E	LL2AB5013	LL03B5014	LL2AC2010	
MATRIX		SOIL	SOIL	SOIL	SOIL	UG/L	SOIL	UG/L	
UNITS		MG/KG	MG/KG	MG/KG	MG/KG		MG/KG		
ENV PROBLEM NO		7	7	7	7		7	7	
BERYLLIUM	F	1.2	0.93	0.75	0.92	7	0.13	7	
LEAD	F					40	U 0.44	42	
% SOLIDS	I	95.7	97.4	96.3	96.5				
AREA		QA		QA		QA		QA	
LOCATION	METHOD	INITIAL CAL	LAB CONTROL	GSA AREA	CONTINUING	CONTINUING	CONTINUING	CONTINUING	
TYPE OF LOCATION		BLANK 3	SAMPLE	GSA AREA	CAL FOUND	CAL BLANK	CAL FOUND	CAL BLANK	
SAMPLE NUMBER		LL03C0008	LL0700113	LL031014D	LL2AC4010	LL03C7008	LL2AC5010	LL03C8008	
MATRIX		SOIL	SOIL	SOIL	UG/L	SOIL	UG/L	SOIL	
UNITS		MG/KG	MG/KG	MG/KG		MG/KG		MG/KG	
ENV PROBLEM NO				6					
BERYLLIUM	F	0.13	0.77	0.71	7.1	0.13	7.2	0.13	
LEAD	F	U 0.44	B 5150	B 16	40	U 0.44	44	U 0.44	
% SOLIDS	I			97.5					

TABLE D.2.34 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL031014D

AREA	METHOD	QA INITIAL CAL FOUND A LL2AD2006	QA INITIAL CAL BLANK 4 LL03D0002	GSA AREA LL031161D	BURN PIT PITS LL034062E	QA CONTINUING CAL FOUND LL2AD4006	QA CONTINUING CAL BLANK LL03D1002	QA CONTINUING CAL BLANK LL03D1102
TYPE OF LOCATION		UG/L	MG/KG	SOIL MG/KG 6	SOIL MG/KG 7	UG/L	SOIL MG/KG	SOIL MG/KG
SAMPLE NUMBER								
MATRIX								
UNITS								
ENV PROBLEM NO								
BERYLLIUM	F	42	0.44 U	0.3 B 7.3	0.84 B	42	0.44 U	0.9 B
LEAD	F							
% SOLIDS	I	I		91.2	96.3			

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TABLE D.2.35 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL031047D

AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LAB CONTROL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CONTINUING	CONTINUING	LAB CONTROL
TYPE OF LOCATION	T	SAMPLE TRUE	TRUE A	BLANK 1	FOUND A	CAL BLANK	CAL FOUND	SAMPLE
SAMPLE NUMBER	H	LL0700114	LL2AA1016	LL03A0016	LL2AA2016	LL03A1016	LL2AA4016	LL0700114
MATRIX	O	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	D	MG/KG	UG/L	MG/KG	UG/L	MG/KG	UG/L	MG/KG
ENV PROBLEM NO								
MERCURY	CVI	19	10	0.01 U	10	0.01 U	10	20
% SOLIDS	I	I						
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	PREP	GSA AREA	GSA AREA	CONTINUING	CONTINUING	GSA AREA	GSA AREA
TYPE OF LOCATION	T	BLANK	WELLS	WELLS	CAL BLANK	CAL FOUND	WELLS	WELLS
SAMPLE NUMBER	H	LL03A0016	LL036075D	LL036086D	LL03A2016	LL2AA5016	LL036097D	LL036042D
MATRIX	O	SOIL	SOIL	SOIL	SOIL	UG/L	SOIL	SOIL
UNITS	D	MG/KG	MG/KG	MG/KG	MG/KG		MG/KG	MG/KG
ENV PROBLEM NO		9	9	9	9		9	9
MERCURY	CVI	0.003 U	0.06 N	0.02 BN	0.01 U	10	0.02 BN	0.03 BN
% SOLIDS	I	I	97	84		86		83
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	GSA AREA	GSA AREA	GSA AREA	GSA AREA	CONTINUING	CONTINUING	GSA AREA
TYPE OF LOCATION	T	WELLS	WELLS	WELLS	WELLS	CAL BLANK	CAL FOUND	WELLS
SAMPLE NUMBER	H	LL036053D	LL036064D	LL036235D	LL036133D	LL03A3016	LL2AB4014	LL036144D
MATRIX	O	SOIL	SOIL	SOIL	SOIL	SOIL	UG/L	SOIL
UNITS	D	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG		MG/KG
ENV PROBLEM NO		9	9	9	9	9		9
MERCURY	CVI	0.03 BN	0.02 BN	0.02 BN	0.03 BN	0.01 U	9.9	0.03 BN
% SOLIDS	I	I	81	85	87	90		90

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TABLE D.2.35 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL031047D

AREA	M E T H O D	GSA AREA WELLS LL036155D	GSA AREA GSA AREA LL031047D	GSA AREA GSA AREA LL031058D	GSA AREA GSA AREA LL031069D	QA DUPLICATE LL031069D	QA CONTINUING CAL BLANK LL03B4015	QA CONTINUING CAL FOUND LL2AB5014
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX	D	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		9	6	6	6	6	6	UG/L
MERCURY	CV	0.01 BN	0.02 BN	0.03 BN	0.05 N	0.02 B	0.01 U	10
% SOLIDS		88	98	98	98			
AREA	M E T H O D	QA MATRIX SPIKE LL031069D	QA MS % RECOVERY LL031069D	GSA AREA WELLS LL036019D	GSA AREA WELLS LL036020D	GSA AREA WELLS LL036031D	QA CONTINUING CAL FOUND LL2AC4011	QA CONTINUING CAL BLANK LL03B5017
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX	D	SOIL	%	SOIL	SOIL	SOIL	UG/L	SOIL
UNITS		MG/KG	6	MG/KG	9	MG/KG	9	MG/KG
ENV PROBLEM NO		6	6	9	9	9		
MERCURY	CV	0.69	305	2.5 N	0.09 N	0.03 BN	11	0.01 U
% SOLIDS				75	75	76		

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TABLE D.2.36 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL033016K

AREA	M	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LINEAR RANGE	INITIAL CAL	LAB CONTROL	PREP	PREP	INITIAL CAL	INITIAL CAL	
TYPE OF LOCATION	T	ANALYSIS	TRUE A	SAMPLE TRUE	BLANK	BLANK	FOUND A	BLANK	
SAMPLE NUMBER	H	LLLRA1535	LLICV1398	LLCS1519	LLPB01594	LLPB01595	LLICV1380	LLICB1337	
MATRIX	O	WATER	WATER	SOIL	WATER	WATER	WATER	WATER	
UNITS	D	UG/L	UG/L	MG/KG	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO									
POTASSIUM		[FEI]	8000	1000 B	8150	130 B	150 B	1000 B	100 U
% SOLIDS									
AREA	M	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LAB CONTROL	CONTINUING	CONTINUING	CONTINUING	CONTINUING	BLDG. 805	BLDG. 805	
TYPE OF LOCATION	T	SAMPLE	CAL FOUND	CAL BLANK	CAL FOUND	CAL BLANK	DRAINS	DRAINS	
SAMPLE NUMBER	H	LLCS1499	LLCCV1154	LLCCB1076	LLCCV1155	LLCCB1077	LL033016C	LL033027C	
MATRIX	O	SOIL	WATER	WATER	WATER	WATER	SOIL	SOIL	
UNITS	D	MG/KG	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	
ENV PROBLEM NO							6	6	
POTASSIUM		[FEI]	11000	1000 B	100 U	1000 B	100 U	2200	1900
% SOLIDS								98.9	98.9
AREA	M								
LOCATION	E	BLDG. 805	865 AREA	865 AREA	865 AREA	865 AREA	FIRING TABLE	FIRING TABLE	
TYPE OF LOCATION	T	DRAINS	DITCH	DITCH	DITCH	DITCH	DITCHES	DITCHES	
SAMPLE NUMBER	H	LL033038C	LL039012C	LL039023C	LL039034C	LL039045C	LL044075A	LL044086A	
MATRIX	O	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	D	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	
ENV PROBLEM NO		6	11	11	11	11	13	13	
POTASSIUM		[FEI]	2300	4000	1500	4000	2500	2900	3300
% SOLIDS			99.1	51.5	66.2	43.6	55.8	64	65.7

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TABLE D.2.36 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL033016K

AREA	M	QA	QA	FIRING TABLE				
LOCATION	E	DITCHES	CONTINUING	CAL FOUND	CAL BLANK	DITCHES	DITCHES	DITCHES
TYPE OF LOCATION	T	LL044097A	LLCCV1156	LLCCB1078	LL044019A	LL044020A	LL044031A	LL044042A
SAMPLE NUMBER	H	SOIL	WATER	UG/L	UG/L	SOIL	SOIL	SOIL
MATRIX	O	MG/KG	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
UNITS	D	13				13	13	13
ENV PROBLEM NO								
POTASSIUM	F E	2700	1000 B	100 U	3700	2300	1600	2100
% SOLIDS		72			68.3	88.6	98.8	95.7
AREA	M	QA						
LOCATION	E	FIRING TABLE	FIRING TABLE	DUPLICATE	CONTINUING	DUPLICATE	CONTINUING	CONTINUING
TYPE OF LOCATION	T	DITCHES	DITCHES	LL044064A	CAL FOUND	RPD	CAL BLANK	CAL BLANK
SAMPLE NUMBER	H	LL044053A	LL044064A	LL044064A	LLCCV1157	LL044064A	LLCCB1079	LLCCB1079
MATRIX	O	SOIL	SOIL	SOIL	WATER	X	WATER	WATER
UNITS	D	MG/KG	MG/KG	MG/KG	UG/L	13	UG/L	UG/L
ENV PROBLEM NO		13	13	13				
POTASSIUM	F E	3100	2500	2600	1000 B	100	100	100 U
% SOLIDS		93.4	95					

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TABLE D.2.37 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL039012D

AREA	METHOD	QA LAB CONTROL SAMPLE TRUE LL0700115	QA INITIAL CAL TRUE A LL2AA1017	QA INITIAL CAL FOUND A LL2AA2017	QA INITIAL CAL BLANK 1 LL03A0017	QA LAB CONTROL SAMPLE LL0700115	QA CONTINUING CAL FOUND LL2AA4017	QA CONTINUING CAL FOUND LL2AA5017
		SOIL MG/KG	UG/L	UG/L	SOIL MG/KG	SOIL MG/KG	UG/L	UG/L
ARSENIC	F	680	27	27	0.61 U	632	28	27
BERYLLIUM	FF	1 U	7.3	7.6	0.13 U	0.7 B	7.2	6.8
CHROMIUM	FF	17	50	51	0.9 B	8.6	48	
LEAD	F	5830	43	43	0.43 U	5520	45	
NICKEL	FF	22	50	53	2.4 U	18	51	49
SELENIUM	FF		11	10	0.85 U	0.35 B	10	
THALLIUM	F	3.8	25	26	0.47 U	3.7	26	26
<hr/>								
X SOLIDS								
AREA	METHOD	QA CONTINUING CAL BLANK LL03A1017	QA CONTINUING CAL BLANK LL03A2017	QA CONTINUING CAL BLANK LL03A3017	QA INITIAL CAL FOUND A LL2AB2015	QA INITIAL CAL BLANK 2 LL03B0016	QA PREP BLANK LL03A0017	QA CONTINUING CAL FOUND LL2AB4015
		SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	UG/L	SOIL MG/KG	SOIL MG/KG	UG/L
ARSENIC	F	0.61 U	0.61 U	0.61 U		0.61 U	0.14 B	25
BERYLLIUM	FF	0.13 U	0.13 U		7.2	0.13 U	0.03 U	7
CHROMIUM	FF	0.52 U			51	0.52 U	0.1 U	52
LEAD	F	0.43 U			40	0.43 U	0.18 B	40
NICKEL	F	2.4 U	2.4 U	2.4 U		2.4 U	0.48 U	52
SELENIUM	FF	0.85 U			10	0.85 U	0.42 B	10
THALLIUM	F	1.3 B	0.74 U	0.74 U		0.74 U	0.28 B	26
<hr/>								
X SOLIDS								

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TABLE D.2.37 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL039012D

AREA	M	QA	QA	QA	QA	QA	QA	QA	FIRING TABLE
LOCATION	E	CONTINUING	CONTINUING	CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL	DITCHES	
TYPE OF LOCATION	T	CAL FOUND	CAL BLANK	CAL BLANK	CAL BLANK	FOUND A	BLANK 3		
SAMPLE NUMBER	H	LL2AB5015	LL03B4016	LL03B5016	LL03B6016	LL2AC2012	LL03C0009		
MATRIX	O	SOIL	SOIL	SOIL	SOIL		SOIL		
UNITS	D	UG/L	MG/KG	MG/KG	MG/KG	UG/L	MG/KG	SOIL	
ENV PROBLEM NO								MG/KG	
ARSENIC	F	25	0.61 U	0.61 U		27	0.61 U	1.3 B	
BERYLLIUM	F	6.5	0.13 U	0.13 U				0.51 B	
CHROMIUM	F	48	0.52 U	0.52 U	0.52 U			17 NX	
LEAD	F		0.43 U			43	0.43 U	23 NX	
NICKEL	F		2.4 U			52			
SELENIUM	F		1 B			10	0.85 U	0.23 B	
THALLIUM	F		0.74 U			26		0.56 B	
% SOLIDS	I	I						68.5	
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AREA	M		QA	QA	QA	QA	QA	QA	
LOCATION	E	FIRING TABLE	FIRING TABLE	DUPLICATE	DUPLICATE	MATRIX	MS %	CONTINUING	
TYPE OF LOCATION	T	DITCHES	DITCHES		RPD	SPIKE	RECOVERY	CAL FOUND	
SAMPLE NUMBER	H	LL044020B	LL044031B	LL044031B	LL044031B	LL044031B	LL044031B	LL2AC4012	
MATRIX	O	SOIL	SOIL	SOIL		SOIL			
UNITS	D	MG/KG	MG/KG	MG/KG	%	MG/KG	%	UG/L	
ENV PROBLEM NO		13	13	13	13	13	13		
ARSENIC	F	0.84 B	0.94 B	1.3 B		7.3	85	27	
BERYLLIUM	F	0.54 B	0.15 B	0.5 B		1.9	92		
CHROMIUM	F	14 NX	11 NX	20	56	19 N	216	48	
LEAD	F	10 NX	19 NX	40	71	42 N	247	46	
NICKEL	F							52	
SELENIUM	F	0.12 U	0.05 U	0.15 U		0.95	89	10	
THALLIUM	F	0.12 B	0.29 B	0.1 B		11	115	25	
% SOLIDS	I	I	88.3	99.1					

TABLE D.2.37 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL039012D

AREA	M E T H O D	QA	FIRING TABLE						QA	
			CONTINUING CAL BLANK LL03C7009	DITCHES LL044075B	FIRING TABLE	DITCHES LL044086B	FIRING TABLE	DITCHES LL044097B	FIRING TABLE	CONTINUING CAL FOUND LL2AC5012
SAMPLE NUMBER	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	UG/L
ENV PROBLEM NO			13	13	13	13	13	13	13	
ARSENIC	F	0.61 U	1.3 B	1.2 B	1.2 B	1.1 B	1.1 B	1.1 B	1.1 B	
BERYLLIUM	F		2.7	1.9	4.2	1.1	1.1	1.2		
CHROMIUM	F	0.6 B	23 NX	20 NX	19 NX	17 NX	17 NX	18 NX		
LEAD	F	0.43 U	38 NX	46 NX	35 NX	25 NX	25 NX	26 NX		45
NICKEL	F									51
SELENIUM	F	0.85 U	0.27 U	0.21 B	0.18 U	0.16 U	0.16 U	0.16 U		
THALLIUM	F		1 B	0.68 B	0.44 B	0.26 B	0.26 B	0.2 B		
% SOLIDS			59.4	69.7	67.5	96.5	96.5	93.5		

D-163	AREA	M E T H O D	QA	QA	FIRING TABLE			865 AREA DITCH LL039012D	QA	QA	QA
					CONTINUING CAL BLANK LL03C8009	INITIAL CAL FOUND A LL2AD2007	DITCHES LL044064B				
SAMPLE NUMBER	SOIL MG/KG	UG/L	SOIL MG/KG	SOIL MG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO			13	11							
ARSENIC	F	0.61 U	26	1 B	12	25	25	26			
BERYLLIUM	F	0.7 B	53	1.2	16 NX	62 NX	54	54		0.52 U	
CHROMIUM	F	0.43 U	0.43 U	24 NX	24 NX	27 NX	46			0.43 U	
LEAD	F					20 N					
NICKEL	F	0.9 B	10	0.15 U	0.2 B		10	10	11		
SELENIUM	F										
THALLIUM	F										
% SOLIDS			95.1	49.1							

TABLE D.2.37 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL039012D

AREA	METHOD	QA INITIAL CAL FOUND A LL2AE2004	QA INITIAL CAL BLANK 4 LL03D0003	865 AREA DITCH LL039023D	865 AREA DITCH LL039034D	865 AREA DITCH LL039045D	QA CONTINUING CAL FOUND LL2AE4004	QA CONTINUING CAL BLANK LL03D1003
SAMPLE NUMBER		UG/L	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	UG/L	SOIL MG/KG
MATRIX								
UNITS								
ENV PROBLEM NO								
ARSENIC	F			2.8	1.4 B	1.7 B		
BERYLLIUM	F							
CHROMIUM	F			22 Nx	15 Nx	21 Nx		
LEAD	F	43	0.43 U	16 Nx	7.7 Nx	9.9 Nx	55	
NICKEL	F			17 N	18 N	22 N	47	0.43 U
SELENIUM	F							
THALLIUM	F							
% SOLIDS	I	I		59.7	51.4	46.4		
AREA	METHOD	QA CORRAL H CRK DUPLICATE CREEK LL042017B	QA DUPLICATE RPD LL042017B	QA MATRIX SPIKE LL042017B	QA MS % RECOVERY LL042017B	QA CORRAL H CRK CREEK LL042028B	QA CORRAL H CRK CREEK LL042039B	
LOCATION		CORRAL H CRK DUPLICATE CREEK LL042017B	DUPLICATE RPD LL042017B	MATRIX SPIKE LL042017B	MS % RECOVERY LL042017B	CORRAL H CRK CREEK LL042028B	CORRAL H CRK CREEK LL042039B	
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX	D	SOIL MG/KG	SOIL MG/KG	%	MG/KG	SOIL MG/KG	SOIL MG/KG	
UNITS		12	12	12	12	12	12	12
ENV PROBLEM NO								
ARSENIC	F	2.8	3	6.9	8.6	85	1.9	2.3
BERYLLIUM	F							
CHROMIUM	F	15 Nx	17	13	20	147	15 Nx	16 Nx
LEAD	F	3.7 Nx	4	7.8	13	109	3.6 Nx	4 Nx
NICKEL	F	19 N	21 N	10	29 N	147	18 N	23 N
SELENIUM	F							
THALLIUM	F							
% SOLIDS	I	I	98.6				99.7	99.5

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TABLE D.2.37 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL039012D

<b>AREA</b>	<b>METHOD</b>	<b>QA</b>	<b>QA</b>
LOCATION	CONTINUING	CONTINUING	
TYPE OF LOCATION	CAL FOUND	CAL BLANK	
SAMPLE NUMBER	LL2AE5004	LL03D1103	
MATRIX	SOIL		
UNITS	UG/L	MG/KG	
ENV PROBLEM NO.			
 <b>ARSENIC</b>	 <b>F</b>		
<b>BERYLLIUM</b>	 <b>F</b>		
<b>CHROMIUM</b>	 <b>F</b>		
<b>LEAD</b>	 <b>F</b>		
<b>NICKEL</b>	 <b>F</b>		
<b>SELENIUM</b>	 <b>F</b>		
<b>THALLIUM</b>	 <b>F</b>		
 <b>X SOLIDS</b>	 <b>F</b>		

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TABLE D.2.38 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL042017B

AREA	M E	QA	QA	QA	QA	QA	QA	QA
LOCATION	T H	LAB CONTROL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CONTINUING	CONTINUING	LAB CONTROL
TYPE OF LOCATION	O D	SAMPLE TRUE	TRUE A	BLANK 1	FOUND A	CAL BLANK	CAL FOUND	SAMPLE
SAMPLE NUMBER		LL0700116	LL2AA1018	LL03A0018	LL2AA2018	LL03A1018	LL2AA4018	LL0700116
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS		MG/KG	UG/L	MG/KG	UG/L	MG/KG	UG/L	MG/KG
ENV PROBLEM NO								
MERCURY	CV	19	10	0.01 U	10	0.01 U	9.9	18
% SOLIDS								
AREA	M E	QA		QA	QA	QA	QA	QA
LOCATION	T H	PREP	FIRING TABLE	FIRING TABLE	CONTINUING	CONTINUING	FIRING TABLE	DUPLICATE
TYPE OF LOCATION	O D	BLANK	DITCHES	DITCHES	CAL BLANK	CAL FOUND	DITCHES	
SAMPLE NUMBER		LL03A0018	LL044019B	LL044020B	LL03A2018	LL2AA5018	LL044031B	LL044031B
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	UG/L	MG/KG	MG/KG
ENV PROBLEM NO			13	13			13	13
MERCURY	CV	0.003 U	0.02 B	0.02 B	0.01 U	9.5	0.02 B	0.02 B
% SOLIDS			69	88			99	
AREA	M E	QA	QA			QA	QA	QA
LOCATION	T H	MATRIX	MS %	FIRING TABLE	FIRING TABLE	FIRING TABLE	CONTINUING	CONTINUING
TYPE OF LOCATION	O D	SPIKE	RECOVERY	DITCHES	DITCHES	DITCHES	CAL BLANK	CAL FOUND
SAMPLE NUMBER		LL044031B	LL044031B	LL044075B	LL044086B	LL044097B	LL03A3018	LL2AB4016
MATRIX		SOIL	%	SOIL	SOIL	SOIL	SOIL	
UNITS		MG/KG	13	MG/KG	MG/KG	MG/KG	MG/KG	UG/L
ENV PROBLEM NO				13	13	13		
MERCURY	CV	0.21	95	0.05	0.05	0.05	0.01 U	9.7
% SOLIDS				59	70	68		

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TABLE D.2.38 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: LL042017B

AREA	METHOD	FIRING TABLE DITCHES	FIRING TABLE DITCHES	FIRING TABLE DITCHES	865 AREA DITCH	865 AREA DITCH	865 AREA DITCH	QA
LOCATION		LL044042B	LL044053B	LL044064B	LL039012D	LL039023D	LL039034D	CONTINUING CAL BLANK
TYPE OF LOCATION		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	LL03B4017
SAMPLE NUMBER		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	SOIL
MATRIX		13	13	13	11	11	11	MG/KG
UNITS								
ENV PROBLEM NO								
MERCURY	ICV	0.03 B	0.03 B	0.02 B	0.1	0.1	0.03 B	0.01 U
% SOLIDS	I	97	94	95	49	60	51	
AREA	METHOD	QA				QA	QA	
LOCATION		CONTINUING CAL FOUND	865 AREA DITCH	CORRAL H CRK CREEK	CORRAL H CRK CREEK	CORRAL H CRK CREEK	CONTINUING CAL FOUND	CONTINUING CAL BLANK
TYPE OF LOCATION		LL2AB5016	LL039045D	LL042017B	LL042028B	LL042039B	LL2AC4013	LL03B5017
SAMPLE NUMBER		UG/L	SOIL	SOIL	SOIL	SOIL	UG/L	SOIL
MATRIX			MG/KG	12	12	12		MG/KG
UNITS								
ENV PROBLEM NO								
MERCURY	ICV	9.7	0.04	0.04 B	0.06	0.14	9.8	0.01 U
% SOLIDS	I		46	99	100	100		

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TABLE D.2.39 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: SN001019C

AREA	METHOD	QA LAB CONTROL SAMPLE TRUE LL0700117	QA INITIAL CAL TRUE A LL2AA1019	QA INITIAL CAL FOUND A LL2AA2019	QA INITIAL CAL BLANK 1 LL03A0019	QA PREP BLANK LL03A0019	QA LAB CONTROL SAMPLE LL0700117	ARROYO SECO ARROYOS SN003011C
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		MG/KG	UG/L	UG/L	MG/KG	MG/KG	SOIL MG/KG	SOIL MG/KG
ARSENIC	F	680	27	25	0.61 U	0.12 U	629	9
CHROMIUM	F	17	50	52	0.7 B	0.18 B	11	40
LEAD	F	5830	43	42	0.43 U	0.1 B	5690	7.7 N
NICKEL	F	22	50	51	2.4 U	0.48 U	20	38
% SOLIDS								98.5
AREA	METHOD	QA CONTINUING CAL FOUND LL2AA4019	QA CONTINUING CAL BLANK LL03A1019	QA ARROYO SECO ARROYOS SN003022C	QA ARROYO SECO ARROYOS SN003033C	QA ARROYO SECO ARROYOS SN001019C	QA DUPLICATE SN001019C	QA DUPLICATE RPD SN001019C
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		UG/L	MG/KG	1	1	1	1	% 1
ARSENIC	F	26	0.61 U	3.5	3.8	3.3	3	9.5
CHROMIUM	F	50	0.52 U	31	31	30	27	10
LEAD	F	42	0.43 U	11 N	14 N	8.9 N	9.4	5.5
NICKEL	F	45	2.4 U	42	35	33	30	9.5
% SOLIDS				98.6	98.6	99.3		
AREA	METHOD	QA MATRIX SPIKE SN001019C	QA MS % RECOVERY SN001019C	QA CONTINUING CAL FOUND LL2AA5019	QA CONTINUING CAL BLANK LL03A2019	QA ARROYO SECO ARROYOS SN001020C	QA CONTINUING CAL BLANK LL03A3019	QA CONTINUING CAL FOUND LL2AB4017
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO		MG/KG	% 1	UG/L	MG/KG	MG/KG	MG/KG	UG/L
ARSENIC	F	11	96	27	0.61 U	3.1	0.61 U	28
CHROMIUM	F	33	79	47	0.52 U	24	0.52 U	52
LEAD	F	25 N	168	43	0.43 U	7.5 N	0.43 U	43
NICKEL	F	38		51	2.4 U	27	2.4 U	48
% SOLIDS						99.1		

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TABLE D.2.39 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: SN001019C

AREA LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	METHOD	QA	QA	ARROYO SECO	ARROYO SECO	ARROYO SECO	ARROYO SECO	CONTINUING
		INITIAL CAL FOUND A LL2AC2014	INITIAL CAL BLANK 2 LL03B0018	ARROYOS SN002010C	ARROYOS SN002021C	ARROYOS SN002032C	ARROYOS SN001031C	CAL FOUND LL2AC4014
		UG/L	UG/L	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	SOIL MG/KG	UG/L
ARSENIC	F	26	0.61 U	3.7	2.9	3	3	25
CHROMIUM	F	52	0.6 B	40	33	29	24	50
LEAD	F	41	0.43 U	16 N	9.4 N	7.7 N	5.2 N	40
NICKEL	F	51	2.4 U	36	32	34	30	51
X SOLIDS	I	I		70.1	97.9	98.5	99.6	
AREA LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	METHOD	QA	CONTINUING					
			CAL BLANK LL03B4018					
			SOIL MG/KG					
ARSENIC	F		0.61 U					
CHROMIUM	F		0.7 B					
LEAD	F		0.43 U					
NICKEL	F		2.4 U					
X SOLIDS	I	I						

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TABLE D.2.40 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: SN001042G

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA	ARROYO SECO
LOCATION		LAB CONTROL SAMPLE TRUE	INITIAL CAL TRUE A	INITIAL CAL FOUND A	INITIAL CAL BLANK 1	PREP BLANK	LAB CONTROL SAMPLE	ARROYOS	
TYPE OF LOCATION		LL0700118	LL2AA1020	LL2AA2020	LL03A0020	LL03A0020	LL0700118	SN001042G	
SAMPLE NUMBER									
MATRIX		WATER			WATER		WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO								1	
ARSENIC	F	50	27	26	0.64 U	0.6 B	49	0.64 U	
CHROMIUM	F	50	20	22	0.7 B	1.4 B	55	4 B	
LEAD	F	50	43	41	0.44 U	1.6 U	49	0.9 B	
NICKEL	F	50	51	50	1.6 U	1.6 U	51	5.4 B	
% SOLIDS	I								
AREA	METHOD	QA	QA	QA	QA	QA	QA	QA	DUPPLICATE
LOCATION		SPRAY BOOTH	SPRAY BOOTH	CONTINUING	CONTINUING	SPRAY BOOTH	DUPLICATE	DUPPLICATE	
TYPE OF LOCATION		SPRAY BOOTH	SPRAY BOOTH	CAL FOUND	CAL BLANK	SPRAY BOOTH	RPD	RPD	
SAMPLE NUMBER		SN006047D	SN006014J	LL2AA4020	LL03A1020	SN006025J	SN006025J	SN006025J	
MATRIX		WATER	WATER		WATER	WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO		3	3			3	3	3	
ARSENIC	F			25	0.64 U	0.64 U	0.64 U		
CHROMIUM	F			22	1.2 B	447	440		
LEAD	F	1.2 B	12	43	0.44 U	12	12		
NICKEL	F			51	1.6 U	9 B	9.5 B	1.6	
% SOLIDS	I							0	
AREA	METHOD	QA	QA	QA	QA	QA	QA	QA	CONTINUING
LOCATION		MATRIX SPIKE	MS % RECOVERY	SPRAY BOOTH	BLDG. 913	CONTINUING	CONTINUING	CONTINUING	
TYPE OF LOCATION		SN006025J	SN006025J	SPRAY BOOTH	BLDG 913	CAL FOUND	CAL BLANK	CAL FOUND	
SAMPLE NUMBER				SN006036J	SN005024J	LL2AA5020	LL03A2020	LL2AB4018	
MATRIX		WATER		WATER	WATER		WATER		
UNITS		UG/L	%	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO		3	3	3	2				
ARSENIC	F	20	100						
CHROMIUM	F	465	90						
LEAD	F	32	100	12	319	19	0.44 U	22	
NICKEL	F	42	83			39	1.6 U	44	
						51		49	
% SOLIDS	I								

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TABLE D.2.40 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: SN001042G

AREA	METHOD	QA CONTINUING CAL BLANK LL03A3020	QA INITIAL CAL FOUND A LL2AC2015	QA INITIAL CAL BLANK 2 LL03B0019	BLDG. 913 BLDG 913 SN005035J	BLDG. 913 BLDG 913 SN005057I	QA CONTINUING CAL FOUND LL2AC4015	QA CONTINUING CAL BLANK LL03B4019
ARSENIC	F	0.17 U						
CHROMIUM	F	0.44 U						
LEAD	F	1.6 U	40	0.44 U	37	2.1 B		
NICKEL	F		54	1.6 U	273	0.44 U	39	0.44 U
% SOLIDS	I						54	1.6 U
AREA	METHOD	QA INITIAL CAL FOUND A LL2AD2008	QA INITIAL CAL BLANK 3 LL03C0010	QA CONTINUING CAL FOUND LL2AD4008	QA CONTINUING CAL BLANK LL03C7010	QA CONTINUING CAL FOUND LL2AD5008	QA CONTINUING CAL BLANK LL03C8010	QA CONTINUING CAL BLANK WATER
ARSENIC	F							
CHROMIUM	F							
LEAD	F	51	1.9 B	48	1.9 B	50	1.6 U	
NICKEL	F							
% SOLIDS	I							

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TABLE D.2.41 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: SN005013J

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AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LAB CONTROL	INITIAL CAL	INITIAL CAL	INITIAL CAL	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION	T	SAMPLE TRUE	TRUE A	BLANK 1	FOUND A	BLANK	CAL BLANK	CAL FOUND
SAMPLE NUMBER	H	LL0700119	LL2AA1021	LL03A0021	LL2AA2021	LL03A0021	LL03A1021	LL2AA4021
MATRIX	O	WATER	UG/L	WATER	UG/L	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
MERCURY	CV	18	10	0.01 U	10	0.03 B	0.01 U	10
% SOLIDS								
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	LAB CONTROL	BLDG. 913	SPRAY BOOTH	SPRAY BOOTH	SPRAY BOOTH	CONTINUING	CONTINUING
TYPE OF LOCATION	T	SAMPLE	BLDG 913	SPRAY BOOTH	SPRAY BOOTH	SPRAY BOOTH	CAL BLANK	CAL FOUND
SAMPLE NUMBER	H	LL0700119	SN005013J	SN006047I	SN006014J	SN006025J	LL03A2021	LL2AA5021
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO			2	3	3	3		
MERCURY	CV	18	0.04 B	0.02 B	0.55	0.59	0.01 U	10
% SOLIDS								
AREA	M	QA	QA	QA	QA	QA	QA	QA
LOCATION	E	SPRAY BOOTH	BLDG. 913	BLDG. 913	BLDG. 913	DUPLICATE	CONTINUING	CONTINUING
TYPE OF LOCATION	T	SPRAY BOOTH	BLDG 913	BLDG 913	BLDG 913	DUPLICATE	CAL BLANK	CAL FOUND
SAMPLE NUMBER	H	SN006036J	SN005024J	SN005035J	SN005057I	SN005057I	LL03A3021	LL2AB4019
MATRIX	O	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	D	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		3	2	2	2	2		
MERCURY	CV	0.57	0.04 B	0.06 B	0.04 B	0.03 B	0.01 U	10
% SOLIDS								

**TABLE D.2.41 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: SN005013J**

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	MATRIX	MS X RECOVERY	BLDG. 241	BLDG. 169	CONTINUING CAL BLANK	CONTINUING CAL FOUND	CONTINUING CAL BLANK
TYPE OF LOCATION	SPIKE	SN005057I	SEWERS LL012180C	SEWERS LL012099C	LL03B4020	LL2AB5019	LL03B5020
SAMPLE NUMBER							
MATRIX							
UNITS							
ENV PROBLEM NO							
MERCURY	ICVI	1.2	113	0.14 B	1	0.01 U	10
% SOLIDS	1	1					

TABLE D.2.42 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: SN005013L

AREA	M E T H O D	QA	QA	QA	QA	QA	BLDG. 913	
LOCATION		BLDG. 913	DUPLICATE	BLDG. 913	DUPLICATE	MATRIX	BLDG. 913	
TYPE OF LOCATION		BLDG 913		BLDG 913		SPIKE	BLDG 913	
SAMPLE NUMBER	H O D	SN005013L	SN005013L	SN005024L	SN005024L	SN005024L	SN005024L	
MATRIX		WATER	WATER	WATER	WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO		2	2	2	2	%	2	
CR6+		10 U	10 U	10 U	10 U	43	43	10 U
% SOLIDS								
AREA	M E T H O D	QA	QA	QA	QA	QA	BLDG. 913	
LOCATION		DUPLICATE	MATRIX	MS %	BLDG. 913	DUPLICATE	BLDG 913	
TYPE OF LOCATION		SPIKE	RECOVERY	SN005035L	BLDG 913		SN005057K	
SAMPLE NUMBER	H O D	SN005035L	SN005035L	SN005035L	SN005057K		WATER	
MATRIX		WATER	WATER	WATER	WATER		WATER	
UNITS		UG/L	UG/L	%	UG/L		UG/L	
ENV PROBLEM NO		2	2	2	2		2	
CR6+		10 U	43	43	10 U	10 U		
% SOLIDS								

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TABLE D.2.43 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: SN010010D

AREA	M	QA	QA	QA	QA	QA	QA	GSA AREA
LOCATION	E	LAB CONTROL	INITIAL CAL	INITIAL CAL	INITIAL CAL	PREP	LAB CONTROL	WELLS
TYPE OF LOCATION	T	SAMPLE TRUE	TRUE A	FOUND A	BLANK I	BLANK	SAMPLE	LL036019D
SAMPLE NUMBER	H	LL0700120	LL2AA1022	LL2AA2022	LL03A0022	LL03A0022	LL0700120	SOIL
MATRIX	O	SOIL			SOIL	SOIL	SOIL	SOIL
UNITS	D	MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO								9
BERYLLIUM	F		1 U	7.3	7.1	0.13 U	0.03 U	0.83 B
LEAD	F		5830	43	42	0.43 U	0.42 B	4930
SILVER	F		2 U	15	14	0.1 U	0.02 B	0.09 B
								0.05 B
X SOLIDS	I							74.9
AREA	M	QA	QA	QA			QA	
LOCATION	E	DUPLICATE	MATRIX	MS X	GSA AREA	GSA AREA	SANDIA CROSS	DUPPLICATE
TYPE OF LOCATION	T	SPIKE	SPIKE	RECOVERY	WELLS	WELLS	INACTIVE SIT	SN010010D
SAMPLE NUMBER	H	LL036019D	LL036019D	LL036019D	LL036020D	LL036031D	SN010010D	SOIL
MATRIX	O	SOIL	SOIL		SOIL	SOIL	SOIL	SOIL
UNITS	D	MG/KG	MG/KG	X	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		9	9	9	9	9	4	4
BERYLLIUM	F		0.05 B	1	86	0.05 B	0.02 B	34 Nx
LEAD	F							12 x
SILVER	F							
X SOLIDS	I				75.3	75.8	97.9	
AREA	M	QA	QA	QA	QA	QA	SANDIA CROSS	SANDIA CROSS
LOCATION	E	DUPLICATE	MATRIX	MS X	CONTINUING	CONTINUING	INACTIVE SIT	INACTIVE SIT
TYPE OF LOCATION	T	RPD	SPIKE	RECOVERY	CAL FOUND	CAL BLANK	SN010021D	SN010032D
SAMPLE NUMBER	H	SN010010D	SN010010D	SN010010D	LL2AA4022	LL03A1022	SOIL	SOIL
MATRIX	O	%	SOIL		UG/L	MG/KG	MG/KG	MG/KG
UNITS	D	4	MG/KG	X	4	4	4	4
ENV PROBLEM NO			4	4				
BERYLLIUM	F		96	26 N	-83	7.5	0.13 U	32 Nx
LEAD	F					41	0.5 B	7.6 Nx
SILVER	F					15	0.1 U	
X SOLIDS	I						99.2	98.9

TABLE D.2.43 LIVERMORE/SANDIA METALS, INCLUDING CR+6 - SDG NUMBER: SN010010D

AREA	M	QA	QA	QA	QA	QA	QA
LOCATION	E	SANDIA CROSS INACTIVE SIT	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL BLANK	INITIAL CAL FOUND A	INITIAL CAL BLANK 2
TYPE OF LOCATION	T	SN010043D	LL2AA5022	LL03A2022	LL03A3022	LL2AB2020	LL03B0021
SAMPLE NUMBER	H						
MATRIX	O	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	D	MG/KG	UG/L	MG/KG	MG/KG	UG/L	MG/KG
ENV PROBLEM NO		4					4
BERYLLIUM	F		7.9	0.13 U	0.13 U		
LEAD	F	16 Nx	40	0.7 B		43	0.43 U
SILVER	F					14	0.1 U
% SOLIDS	I	98.4					99.4
AREA	M	QA	QA	QA			
LOCATION	E	BURN PIT PITS	DUPLICATE LL034073E	MATRIX SPIKE	MS % RECOVERY	BURN PIT PITS	BURN PIT PITS
TYPE OF LOCATION	T	LL034073E	LL034073E	LL034073E	LL034073E	LL034084E	LL034095E
SAMPLE NUMBER	H						
MATRIX	O	SOIL	SOIL	SOIL	%	SOIL	SOIL
UNITS	D	MG/KG	MG/KG	MG/KG	7	MG/KG	MG/KG
ENV PROBLEM NO		7	7	7	7	7	7
BERYLLIUM	F	0.88 B	1	1.9	106	0.98 B	0.98 B
LEAD	F						
SILVER	F						1.1
% SOLIDS	I	96.1				95.7	96.4
							97.3
AREA	M	QA	QA				
LOCATION	E	BURN PIT PITS	BURN PIT PITS	CONTINUING CAL FOUND	CONTINUING CAL BLANK		
TYPE OF LOCATION	T	LL034119E	LL034120E	LL2AB4020	LL03B4021		
SAMPLE NUMBER	H						
MATRIX	O	SOIL	SOIL				
UNITS	D	MG/KG	MG/KG	UG/L			
ENV PROBLEM NO		7	7				
BERYLLIUM	F	0.79 B	2	7.1			
LEAD	F			42	0.43 U		
SILVER	F			14	0.1 U		
% SOLIDS	I	97.4	97				

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**Table D.2.44. Livermore/Sandia Metals QC Data — Linear Range**

SDGs: LL001018C LL001041F LL003010C LL003043F LL009016C LL011010C  
LL012066B LL028019C

ANALYTE	CONCENTRATION UG/L
Aluminum	7500
Antimony	10000
Arsenic	20000
Barium	5000
Beryllium	1500
Cadmium	5000
Calcium	10000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	12000
Lead	50000
Magnesium	12000
Manganese	2500
Mercury	
Nickel	15000
Potassium	
Selenium	10000
Silver	10000
Sodium	10000
Thallium	
Vanadium	10000
Zinc	6000

**Table D.2.44. Livermore/Sandia Metals QC Data — Linear Range  
(continued)**

SDGs: LL001018C LL001041F LL003010C LL003043F LL009016C LL011010C  
LL012066B LL028019C

ANALYTE	CONCENTRATION UG/L
Aluminum	800000
Antimony	
Arsenic	
Barium	
Beryllium	
Cadmium	
Calcium	900000
Chromium	
Cobalt	
Copper	
Iron	800000
Lead	
Magnesium	500000
Manganese	200000
Mercury	
Nickel	
Potassium	
Selenium	
Silver	
Sodium	500000
Thallium	
Vanadium	
Zinc	

**Table D.2.45. Livermore/ Sandia Metals QC Data Interelement Correction Factors**

SDGs using these Interelement Correction Factors: LL001018C LL001041F LL003010C LL003043F  
 LL009016C LL0011010C LL012066B LL028019C

INTERELEMENT CORRECTION FACTORS FOR:				
ANALYTE	AL	CA	FE	MG
Aluminum				
Antimony				
Arsenic				
Barium			1.206E-5	
Beryllium				
Cadmium	7.714E -6		1.148E-4	
Calcium				
Chromium			9.083E-5	
Cobalt			6.972E-5	
Copper		4.414E-6	6.377E-5	
Iron				1.157E-5
Lead				
Magnesium	7.711E-6		6.939E-5	4.573E-5
Manganese				1.157E-5
Mercury				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Vanadium		4.986E-6	1.028E-4	
Zinc			5.216E-5	

**Table D.2.45. Livermore/Sandia Metals QC Data Interelement Correction Factors  
(continued)**

SDGs using these Interelement Correction Factors: LL001018C LL001041F LL003010C LL003043F  
LL009016C LL0011010C LL012066B LL028019C

ANALYTE	INTERELEMENT CORRECTION FACTORS FOR:			
	BA	CD	CO	CR
Aluminum				
Antimony				1.620E-2
Arsenic				1.620E-2
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium	1.721E-5			
Cobalt	7.850E-4	1.370E-4		
Copper				
Iron		1.832E-3		
Lead				
Magnesium				
Manganese				
Mercury				
Nickel	3.030E-4		3.570E-3	
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Vanadium	3.146E-5			2.237E-4
Zinc				

**Table D.2.45. Livermore/Sandia Metals QC Data Interelement Correction Factors  
(continued)**

SDGs using these Interelement Correction Factors: LL001018C LL001041F LL003010C LL003043F  
LL009016C LL0011010C LL012066B LL028019C

ANALYTE	INTELEMENT CORRECTION FACTORS FOR:			
	CU	MN	NI	TI
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium	3.260E-4			
Cobalt		3.220E-4		
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Mercury				
Nickel	5.750E-5			
Potassium				
Selenium				
Silver	1.458E-3			
Sodium				
Thallium				
Vanadium	3.874E-3			
Zinc		3.874E-3		

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TABLE D.3.1 DIRECTORY FOR OIL AND GREASE QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
4	LL025016G	LL025016G	D.3.2 (D-185)
6	LL029010E	LL029010E	D.3.3 (D-186)
6	LL029021E	LL029010E	D.3.3 (D-186)
6	LL029032E	LL029010E	D.3.3 (D-186)
6	LL030013E	LL029010E	D.3.3 (D-186)
6	LL030024E	LL029010E	D.3.3 (D-186)
6	LL030035E	LL029010E	D.3.3 (D-186)
6	LL030046E	LL029010E	D.3.3 (D-186)
6	LL031014E	LL031014E	D.3.4 (D-187)
6	LL031025E	LL031014E	D.3.4 (D-187)
6	LL031036E	LL031014E	D.3.4 (D-187)
6	LL031047E	LL031014E	D.3.4 (D-187)
6	LL031058E	LL031014E	D.3.4 (D-187)
6	LL031069E	LL031014E	D.3.4 (D-187)
6	LL031070E	LL031070E	D.3.5 (D-188)
6	LL031081E	LL031070E	D.3.5 (D-188)
6	LL031092E	LL031070E	D.3.5 (D-188)
6	LL031105E	LL031070E	D.3.5 (D-188)
6	LL031116E	LL031070E	D.3.5 (D-188)
6	LL031127E	LL031070E	D.3.5 (D-188)
6	LL031149E	LL031149E	D.3.6 (D-189)
6	LL031150E	LL031149E	D.3.6 (D-189)
6	LL031161E	LL031149E	D.3.6 (D-189)
6	LL032015C	LL032015C	D.3.7 (D-190)
6	LL032026C	LL032015C	D.3.7 (D-190)
6	LL032037C	LL032015C	D.3.7 (D-190)
6	LL032071C	LL032015C	D.3.7 (D-190)
6	LL032082C	LL032015C	D.3.7 (D-190)
6	LL032093C	LL032015C	D.3.7 (D-190)
6	LL032106C	LL032106C	D.3.8 (D-191)
6	LL032117C	LL032106C	D.3.8 (D-191)
6	LL032128C	LL032106C	D.3.8 (D-191)
6	LL032139C	LL032139C	D.3.9 (D-192)
6	LL032140C	LL032139C	D.3.9 (D-192)
6	LL032151C	LL032139C	D.3.9 (D-192)
6	LL032253F	LL025016G	D.3.2 (D-185)
10	LL037010E	LL037010E	D.3.10 (D-193)
10	LL037021E	LL037010E	D.3.10 (D-193)
10	LL037032E	LL037010E	D.3.10 (D-193)

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TABLE D.3.2 LIVERMORE/SANDIA OIL AND GREASE - SDG NUMBER: LL025016G

AREA	QA	QA	BLDG. 321	DRUM RACK
LOCATION	CALIBRATION	CALIBRATION	BLDG. 321	DRUM RACK
TYPE OF LOCATION	VER TRUE	VER FOUND	SUMP	SUMP
SAMPLE NUMBER	LLCVA1256	LLCVA1250	LL025016G	LL032253F
MATRIX	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO			4	6
OIL AND GREASE	32000	35800	122000	2000

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TABLE D.3.3 LIVERMORE/SANDIA OIL AND GREASE - SDG NUMBER: LL029010E

AREA	N OF 875 CULVERT	N OF 875 CULVERT	N OF 875 CULVERT	N OF 875 CULVERT	875/878 CULVERT	875/878 CULVERT	875/878 CULVERT
LOCATION TYPE OF LOCATION	CULVERT	CULVERT	CULVERT	CULVERT	CULVERT	CULVERT	CULVERT
SAMPLE NUMBER	LL030013E	LL030024E	LL030035E	LL030046E	LL029010E	LL029021E	LL029032E
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO	6	6	6	6	6	6	6
OIL AND GREASE	1000	500	2000	1100	400	2600	300

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TABLE D.3.4 LIVERMORE/SANDIA OIL AND GREASE - SDG NUMBER: LL031014E

AREA	GSA AREA GSA AREA LL031014E	GSA AREA GSA AREA LL031025E	GSA AREA GSA AREA LL031036E	GSA AREA GSA AREA LL031047E	GSA AREA GSA AREA LL031058E	GSA AREA GSA AREA LL031069E
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	SOIL MG/KG <u>6</u>	SOIL MG/KG <u>6</u>	SOIL MG/KG <u>6</u>	SOIL MG/KG <u>6</u>	SOIL MG/KG <u>6</u>	SOIL MG/KG <u>6</u>
OIL AND GREASE	13400	13500	14600	700	900	1200

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TABLE D.3.5 LIVERMORE/SANDIA OIL AND GREASE - SDG NUMBER: LL031070E

AREA

LOCATION	GSA AREA					
TYPE OF LOCATION	GSA AREA					
SAMPLE NUMBER	LL031105E	LL031116E	LL031127E	LL031070E	LL031081E	LL031092E
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO	6	6	6	6	6	6
OIL AND GREASE	11300	4600	3000	40500	3500	400

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TABLE D.3.6 LIVERMORE/SANDIA OIL AND GREASE - SDG NUMBER: LL031149E

AREA	QA	QA	QA	QA			
LOCATION	GSA AREA	GSA AREA	GSA AREA	DUPPLICATE	DUPPLICATE	MATRIX	MS %
TYPE OF LOCATION	GSA AREA	GSA AREA	GSA AREA	RPD	LL031161E	SPIKE	RECOVERY
SAMPLE NUMBER	LL031149E	LL031150E	LL031161E	LL031161E	LL031161E	LL031161E	LL031161E
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	%	MG/KG	MG/KG
ENV PROBLEM NO	6	6	6	6	6	6	6
OIL AND GREASE	2700	2400	2500	2600	3.9	4360	139

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TABLE D.3.7 LIVERMORE/SANDIA OIL AND GREASE - SDG NUMBER: LL032015C

AREA	DRUM RACK SUMP					
LOCATION TYPE OF LOCATION	LL032015C	LL032026C	LL032037C	LL032071C	LL032082C	LL032093C
SAMPLE NUMBER						
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO.	6	6	6	6	6	6
OIL AND GREASE	700	700	300	3800	5200	3900

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TABLE D.3.8 LIVERMORE/SANDIA OIL AND GREASE - SDG NUMBER: LL032106C

AREA	QA	QA	QA	QA
LOCATION	DUPLICATE	DUPLICATE	MATRIX	MS %
TYPE OF LOCATION	DRUM RACK	DRUM RACK	SPIKE	RECOVERY
SAMPLE NUMBER	SUMP	SUMP	LL032128C	LL032128C
MATRIX	LL032106C	LL032117C	LL032128C	LL032128C
SOIL	DRUM RACK	DRUM RACK	SOIL	SOIL
UNITS	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO	6	6	6	6
OIL AND GREASE	600	600	500	620
			21	2100
				121

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TABLE D.3.9 LIVERMORE/SANDIA OIL AND GREASE - SDG NUMBER: LL032139C

AREA	QA	QA	QA	QA
LOCATION	DRUM RACK	DRUM RACK	DRUM RACK	DUPLICATE
TYPE OF LOCATION	SUMP	SUMP	SUMP	DUPLICATE
SAMPLE NUMBER	LL032139C	LL032140C	LL032151C	RPD
MATRIX	SOIL	SOIL	SOIL	MATRIX
UNITS	MG/KG	MG/KG	MG/KG	SPIKE
ENV PROBLEM NO	6	6	6	LL032151C
OIL AND GREASE	1500	2500	1400	MS % RECOVERY
			1200	LL032151C
			15	SOIL
			3040	MG/KG
				x
				6

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TABLE D.3.10 LIVERMORE/SANDIA OIL AND GREASE - SDG NUMBER: LL037010E

AREA	QA	QA	QA	QA			
LOCATION	STP OVERFLOW	STP OVERFLOW	STP OVERFLOW	DUPLICATE	DUPLICATE	MATRIX	MS %
TYPE OF LOCATION	POND	POND	POND		RPD	SPIKE	RECOVERY
SAMPLE NUMBER	LL037010E	LL037021E	LL037032E	LL037032E	LL037032E	LL037032E	LL037032E
MATRIX	SOIL	SOIL	SOIL	SOIL		SOIL	
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	%	MG/KG	%
ENV PROBLEM NO	10	10	10	10	10	10	10
OIL AND GREASE	100	200	100	100	0	1560	113

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TABLE D.4.1 DIRECTORY FOR HIGH EXPLOSIVES QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
7	LL034017C	LL034017C	D.4.2 (D-197)
7	LL034028C	LL034017C	D.4.2 (D-197)
7	LL034039C	LL034017C	D.4.2 (D-197)
7	LL034040C	LL034017C	D.4.2 (D-197)
7	LL034051C	LL034017C	D.4.2 (D-197)
7	LL034062C	LL034017C	D.4.2 (D-197)
7	LL034073C	LL034017C	D.4.2 (D-197)
7	LL034084C	LL034017C	D.4.2 (D-197)
7	LL034095C	LL034017C	D.4.2 (D-197)
7	LL034108C	LL034017C	D.4.2 (D-197)
7	LL034119C	LL034017C	D.4.2 (D-197)
7	LL034120C	LL034017C	D.4.2 (D-197)
7	LL034131F	LL034017C	D.4.2 (D-197)

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TABLE D.4.2 LIVERMORE/SANDIA HIGH EXPLOSIVES - SDG NUMBER: LL034017C

AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034017C	BURN PIT PITS LL034028C	BURN PIT PITS LL034039C	BURN PIT PITS LL034040C	BURN PIT PITS LL034051C	BURN PIT PITS LL034062C	BURN PIT PITS LL034073C
	7	7	7	7	7	7	7
HMX	5.9	10	40	11	9.1	13	143 E
RDX	0.92 J	1.6 J	9	2 J	2.3	2	17
TETRYL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TNT	1 U	1 U	1 U	1 U	1 U	1 U	11
2,4-DNT	1 U	1 U	1 U	1 U	1 U	1 U	0.31 J
2,6-DNT	0.5 U						

QA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034084C	BURN PIT PITS LL034095C	BURN PIT PITS LL034108C	BURN PIT PITS LL034119C	BURN PIT PITS LL034120C	BURN PIT PITS LL034131F	MATRIX SPIKE LL034028C
	7	7	7	7	7	7	7
HMX	99 E	115 E	226 E	229 E	161 E	0.3 U	20
RDX	30	17	15	24	21	0.2 U	3.7
TETRYL	1 U	1 U	1 U	1 U	1 U	0.1 U	1 U
TNT	16	13	8.1	3.1	1.4	0.08 U	7.7
2,4-DNT	1 U	0.24 J	0.2 J	1 U	1 U	0.06 U	1 U
2,6-DNT	0.5 U	0.1 U	0.5 U				

AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	QA MS X RECOVERY LL034028C	QA MATRIX SPIKE LL034040C	QA MS X RECOVERY LL034040C				
	7	7	7				
HMX	161	28	124				
RDX	159	5	109				
TETRYL		1 U					

TABLE D.4.2 LIVERMORE/SANDIA HIGH EXPLOSIVES - SDG NUMBER: LL034017C

AREA	QA	QA	QA
LOCATION	MS %	MATRIX	MS %
TYPE OF LOCATION	RECOVERY	SPIKE	RECOVERY
SAMPLE NUMBER	LL034028C	LL034040C	LL034040C
MATRIX		SOIL	
UNITS	x	UG/G	x
<u>ENV PROBLEM NO</u>	7	7	7
TNT	122	17	120
2,4-DNT		1 U	
2,6-DNT		0.5 U	

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TABLE D.5.1 DIRECTORY FOR PCB'S &amp; OTHER EXTRACTABLES QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
1	LL001018B	LL101	D.5.3 (D-204)
1	LL001029B	LL101	D.5.3 (D-204)
1	LL001030B	LL101	D.5.3 (D-204)
1	LL002019B	LL101	D.5.3 (D-204)
1	LL002020B	LL101	D.5.3 (D-205)
1	LL002031B	LL101	D.5.3 (D-205)
1	LL003010B	LL101	D.5.3 (D-202)
1	LL003021B	LL101	D.5.3 (D-204)
1	LL003032B	LL101	D.5.3 (D-203)
1	LL005012B	LL101	D.5.3 (D-203)
1	LL005023B	LL101	D.5.3 (D-203)
1	LL005034B	LL101	D.5.3 (D-202)
1	LL006013B	LL202	D.5.4 (D-208)
1	LL006024B	LL202	D.5.4 (D-208)
1	LL006035B	LL202	D.5.4 (D-208)
1	LL007014B	LL101	D.5.3 (D-203)
1	LL007025B	LL101	D.5.3 (D-203)
1	LL007036B	LL101	D.5.3 (D-203)
1	LL008015B	LL202	D.5.4 (D-207)
1	LL008026B	LL202	D.5.4 (D-207)
1	LL008037B	LL202	D.5.4 (D-208)
1	LL009016B	LL202	D.5.4 (D-210)
1	LL009027B	LL202	D.5.4 (D-210)
1	LL009038B	LL202	D.5.4 (D-210)
1	LL011010B	LL202	D.5.4 (D-209)
1	LL011021B	LL202	D.5.4 (D-209)
1	LL011032B	LL202	D.5.4 (D-209)
1	SN001019B	LL202	D.5.4 (D-209)
1	SN001020B	LL202	D.5.4 (D-209)
1	SN001031B	LL202	D.5.4 (D-210)
1	SN004012B	LL202	D.5.4 (D-208)
1	SN004023B	LL202	D.5.4 (D-209)
1	SN004034B	LL202	D.5.4 (D-209)
8	LL035018A	LL035018A	D.5.2 (D-201)
8	LL035029A	LL035018A	D.5.2 (D-201)
8	LL035030A	LL035018A	D.5.2 (D-201)
8	LL035041A	LL035018A	D.5.2 (D-201)
8	LL035052A	LL035018A	D.5.2 (D-201)
8	LL035063A	LL035018A	D.5.2 (D-201)
9	LL036155Z	LL202	D.5.4 (D-210)
10	LL038011Z	LL202	D.5.4 (D-211)

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TABLE D.5.2 LIVERMORE/SANDIA PCBs & OTHER EXTRACTABLES - SDG NUMBER: LL035018A

AREA	QA	QA	DIESEL TANKR				
LOCATION	CALIBRATION	CALIBRATION	TANKS	TANKS	TANKS	TANKS	TANKS
TYPE OF LOCATION	VER TRUE	VER FOUND	LL035018A	LL035029A	LL035030A	LL035041A	LL035052A
SAMPLE NUMBER	LLCVA1257	LLCVA1251					
MATRIX	OIL	OIL	OIL	OIL	OIL	OIL	OIL
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO			8	8	8	8	8
PCBS	500	511	2 U	2 U	2 U	2 U	2 U
ACTUAL(ALLOWED) EXTRACT TIME							
AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	DIESEL TANKR	MATRIX	MS X	MATRIX	MS X		
TYPE OF LOCATION	TANKS	SPIKE	RECOVERY	SPIKE	RECOVERY		
SAMPLE NUMBER	LL035063A	LL035018A	LL035018A	LL035018A	LL035018A		
MATRIX	OIL	OIL	X	OIL	X		
UNITS	MG/KG	MG/KG	8	8	8		
ENV PROBLEM NO	8	8	8	8	8		
PCBS	2 U	9.2	99	1.8	97		
ACTUAL(ALLOWED) EXTRACT TIME							

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TABLE D.5.3 LIVERMORE/SANDIA PCBs &amp; OTHER EXTRACTABLES - SDG NUMBER: LL101

D-202

AREA	QA	QA	QA	QA	QA	TRAILER STG	LAS POSITAS
LOCATION	EVAL A TUNED	EVAL B TUNED	EVAL B TUNED	RSD	EVAL C TUNED	ARROYO	ARROYO
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CALIBRATION		CALIBRATION	LL003010B	LL005034B
SAMPLE NUMBER	LL111187	LL111187	LL111187	LL111187	LL111187	SOIL	SOIL
MATRIX						UG/KG	UG/KG
UNITS	CF	%	CF	%	CF	1	1
ENV PROBLEM NO							
ALDRIN	1780000		3890000	39.02	4040000	8.6 J	8.5 J
ALPHA CHLORDANE						86 U	85 U
ALPHA-BHC						8.6 U	8.5 U
AROCLO-1016						86 U	85 U
AROCLO-1221						86 U	85 U
AROCLO-1232						86 U	85 U
AROCLO-1242						86 U	85 U
AROCLO-1248						86 U	85 U
AROCLO-1254						170 U	170 U
AROCLO-1260						170 U	170 U
BETA-BHC						25 B	23 B
COMBINED		3.1					
DBC	0		0	0	0		
DELTA-BHC						8.6 J	8.5 U
DIELDRIN						17 U	17 U
ENDOSULFAN I						8.6 U	8.5 U
ENDOSULFAN II						17 U	17 U
ENDOSULFAN SULFATE						17 U	17 U
ENDRIN	1520000	0	4100000	46.17	4150000	17 U	17 U
ENDRIN KETONE						17 U	17 U
GAMMA CHLORDANE						86 U	85 U
GAMMA-BHC (LINDANE)						8.6 U	8.5 U
HEPTACHLOR						8.6 U	8.5 U
HEPTACHLOR EPOXIDE						8.6 U	8.5 U
METHOXYPHOR						86 U	85 U
MIREX	2110000		5090000	41.08	4810000	170 U	170 U
TOXAPHENE						17 U	17 U
4,4'-DDD						17 U	17 U
4,4'-DDE						17 U	17 U
4,4'-DDT	807000	4.3	2190000	46.7	2260000	17 U	17 U
SURR 1(MIR) %RECOVERY						87	71
ACTUAL(ALLOWED) EXTRACT TIME						6(14 D)	6(14 D)

TABLE D.5.3 LIVERMORE/SANDIA PCBs &amp; OTHER EXTRACTABLES - SDG NUMBER: LL101

AREA	QA							
	LAS POSITAS ARROYO LL007036B	CONT. CAL X BREAKDOWN LL111287	LAS POSITAS ARROYO LL005023B	LAS POSITAS ARROYO LL007025B	TRAILER STG ARROYO LL003032B	LAS POSITAS ARROYO LL005012B	LAS POSITAS ARROYO LL007014B	
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ALDRIN	8.6 J		8.6 J	8.6 J	8.6 J	8.3 U	8.7 U	
ALPHA CHLORDANE	86 U		86 U	86 U	86 U	83 U	87 U	
ALPHA-BHC	8.6 U		8.6 U	8.6 U	8.6 U	8.3 U	8.7 U	
AROCLOR-1016	86 U		86 U	86 U	86 U	83 U	87 U	
AROCLOR-1221	86 U		86 U	86 U	86 U	83 U	87 U	
AROCLOR-1232	86 U		86 U	86 U	86 U	83 U	87 U	
AROCLOR-1242	86 U		86 U	86 U	86 U	83 U	87 U	
AROCLOR-1248	86 U		86 U	86 U	86 U	83 U	87 U	
AROCLOR-1254	170 U		170 U					
AROCLOR-1260	170 U		170 U					
BETA-BHC	28 B		22 B	23 B	21 B	8.3 J	37 B	
COMBINED		0						
DBC								
DELTA-BHC	8.6 J		8.6 U	8.6 J	8.6 U	8.3 U	8.7 U	
DIELDRIN	17 U		17 U					
ENDOSULFAN I	8.6 U		8.6 U	8.6 U	8.6 U	8.3 U	8.7 U	
ENDOSULFAN II	17 U		17 U					
ENDOSULFAN SULFATE	17 U		17 U					
ENDRIN	17 U		17 U					
ENDRIN KETONE	17 U		17 U					
GAMMA CHLORDANE	86 U		86 U	86 U	86 U	83 U	87 U	
GAMMA-BHC (LINDANE)	8.6 U		8.6 U	8.6 U	8.6 U	8.3 U	8.7 U	
HEPTACHLOR	8.6 U		8.6 U	8.6 U	8.6 U	8.3 U	8.7 U	
HEPTACHLOR EPOXIDE	8.6 U		8.6 U	8.6 U	8.6 U	8.3 U	8.7 U	
METHOXYCHLOR	86 U		86 U	86 U	86 U	83 U	87 U	
MIREX								
TOXAPHENE	170 U		170 U					
4,4'-DDD	17 U		17 U					
4,4'-DDE	17 U		17 U					
4,4'-DDT	17 U	0	17 U					
SURR 1(MIR) %RECOVERY	71		75	60	60	76	88	
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)		6(14 D)					

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TABLE D.5.3 LIVERMORE/SANDIA PCBs &amp; OTHER EXTRACTABLES - SDG NUMBER: LL101

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AREA	QA				QA			
	CONT. CAL % BREAKDOWN	TRAILER STG ARROYO LL003021B	ARROYO SECO ARROYO LL001018B	ARROYO SECO ARROYO LL001029B	ARROYO SECO ARROYO LL001030B	CONT. CAL % BREAKDOWN	ARROYO SECO ARROYO LL002019B	
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ALDRIN		8.7 J						
ALPHA CHLORDANE		87 U	84 U	84 U	82 U		85 U	
ALPHA-BHC		8.7 U	8.4 U	8.4 U	8.2 U		8.5 U	
AROCLOL-1016		87 U	84 U	84 U	82 U		85 U	
AROCLOL-1221		87 U	84 U	84 U	82 U		85 U	
AROCLOL-1232		87 U	84 U	84 U	82 U		85 U	
AROCLOL-1242		87 U	84 U	84 U	82 U		85 U	
AROCLOL-1248		87 U	84 U	84 U	82 U		85 U	
AROCLOL-1254		170 U	170 U	170 U	160 U		170 U	
AROCLOL-1260		170 U	170 U	170 U	160 U		170 U	
BETA-BHC		80 B	8.4 U	8.4 U	8.2 U		8.5 U	
COMBINED	17					0		
DBC								
DELTA-BHC		8.7 J	8.4 U	8.4 U	8.2 U		8.5 U	
DIELDRIN		17 U						
ENDOSULFAN I		8.7 U	8.4 U	8.4 U	8.2 U		8.5 U	
ENDOSULFAN II		17 U	17 U	17 U	16 U		17 U	
ENDOSULFAN SULFATE		17 U	17 U	17 U	16 U		17 U	
ENDRIN	0	17 U				0		
ENDRIN KETONE		17 U	17 U	17 U	16 U		17 U	
GAMMA CHLORDANE		87 U	84 U	84 U	82 U		85 U	
GAMMA-BHC (LINDANE)		8.7 U						
HEPTACHLOR		8.7 U						
HEPTACHLOR EPOXIDE		8.7 U	8.4 U	8.4 U	8.2 U		8.5 U	
METHOXYCHLOR		87 U	84 U	84 U	82 U		85 U	
MIREX								
TOXAPHENE		170 U	170 U	170 U	160 U		170 U	
4,4'-DDD		17 U	17 U	17 U	16 U		17 U	
4,4'-DDE		17 U	17 U	17 U	16 U		17 U	
4,4'-DDT	17	17 U				0		
SURR 1(MIR) %RECOVERY		153	0	0	0		80	
ACTUAL(ALLOWED) EXTRACT TIME		6(14 D)	3(14 D)	3(14 D)	3(14 D)		4(14 D)	

TABLE D.5.3 LIVERMORE/SANDIA PCBs &amp; OTHER EXTRACTABLES - SDG NUMBER: LL101

AREA	QA	QA	QA	QA	QA	QA
LOCATION	ARROYO SECO	ARROYO SECO	MATRIX SPIKE	MS % RECOVERY	RPD	MATRIX SPIKE
TYPE OF LOCATION	ARROYO	ARROYO	LL002031B	LL002031B	LL002031B	DUPLICATE
SAMPLE NUMBER	LL002020B	LL002031B	SOIL	SOIL	SOIL	LL002031B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	X	X	UG/KG
ENV PROBLEM NO	1	1	1	1	1	1
ALDRIN						
ALPHA CHLORDANE						
ALPHA-BHC	82 U	86 U	23 U	0 *	200 *	32 U
AROCLOR-1016	8.2 U	8.6 U	8.6 U			8.6 U
AROCLOR-1221	82 U	86 U	86 U			86 U
AROCLOR-1232	82 U	86 U	86 U			86 U
AROCLOR-1242	82 U	86 U	86 U			86 U
AROCLOR-1248	82 U	86 U	86 U			86 U
AROCLOR-1254	82 U	86 U	86 U			86 U
AROCLOR-1260	160 U	270	170 J			170 U
BETA-BHC	160 U	350	200			170 U
COMBINED	8.2 U	8.6 U	8.6 U			8.6 U
DBC						
DELTA-BHC						
DIELDRIN	8.2 U	8.6 U	8.6 U			8.6 U
ENDOSULFAN I	8.2 U	8.6 U	70	0 *	0	95 U
ENDOSULFAN II	16 U	17 U	17 J			8.6 U
ENDOSULFAN SULFATE	16 U	17 U	17 U			17 J
ENDRIN						17 U
ENDRIN KETONE	16 U	17 U	64	0 *	200 *	91 U
GAMMA CHLORDANE	82 U	86 U	17 U			17 U
GAMMA-BHC (LINDANE)			86 U			86 U
HEPTACHLOR			10			12
HEPTACHLOR EPOXIDE	8.2 U	8.6 U	12	12 *	200 *	0
METHOXYCHLOR	82 U	86 U	86 U	0 *	0	17
MIREX			86 U			8.6 U
TOXAPHENE						86 U
4,4'-DDD	160 U	170 U	170 U			170 U
4,4'-DDE	16 U	17 U	17 J			17 J
4,4'-DDT	16 U	17 U	17 U			17 U
SURR 1(MIR) %RECOVERY	78	90	65			74
ACTUAL ALLOWED EXTRACT TIME	4(14 D)	4(14 D)	4(14 D)			4(14 D)

TABLE D.5.3 LIVERMORE/SANDIA PCBs &amp; OTHER EXTRACTABLES - SDG NUMBER: LL101

AREA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO.	METHOD BLANK LL000000 SOIL UG/KG	CONT. CAL % BREAKDOWN LL111387 %
ALDRIN	8 U	
ALPHA CHLORDANE	80 U	
ALPHA-BHC	8 U	
AROCLOL-1016	80 U	
AROCLOL-1221	80 U	
AROCLOL-1232	80 U	
AROCLOL-1242	80 U	
AROCLOL-1248	80 U	
AROCLOL-1254	160 U	
AROCLOL-1260	160 U	
BETA-BHC	28 B	
COMBINED		12
DBC		
DELTA-BHC	8 U	
DIELDRIN	16 J	
ENDOSULFAN I	8 U	
ENDOSULFAN II	16 U	
ENDOSULFAN SULFATE	16 U	
ENDRIN	16 U	0
ENDRIN KETONE	16 U	
GAMMA CHLORDANE	80 U	
GAMMA-BHC (LINDANE)	8 U	
HEPTACHLOR	8 U	
HEPTACHLOR EPOXIDE	8 U	
METHOXYCHLOR	80 U	
MIREX	78	
TOXAPHENE	160 U	
4,4'-DDD	16 U	
4,4'-DDE	16 U	
4,4'-DDT	16 U	12
SURR 1(MIR) %RECOVERY		
ACTUAL(ALLOWED) EXTRACT TIME		

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TABLE D.5.4 LIVERMORE/SANDIA PCBs &amp; OTHER EXTRACTABLES - SDG NUMBER: LL202.

AREA	QA	QA	QA	QA	QA	EVAL A TUNED CALIBRATION	EVAL B TUNED CALIBRATION	EVAL B TUNED CALIBRATION	RSD	EVAL C TUNED CALIBRATION	LAS POSITAS ARROYO	LAS POSITAS ARROYO
LOCATION						LL111387	LL111387	LL111387	LL111387	LL111387	LL008015B	LL008026B
TYPE OF LOCATION						CF	%	CF	%	CF	SOIL UG/KG	SOIL UG/KG
SAMPLE NUMBER											1	1
MATRIX												
UNITS												
ENV PROBLEM NO												
ALDRIN	2140000					4410000		36.68		4580000		
ALPHA-CHLORDANE											88 U	88 U
ALPHA-BHC											8.8 U	8.8 U
AROCLO-1016											88 U	88 U
AROCLO-1221											88 U	88 U
AROCLO-1232											88 U	88 U
AROCLO-1242											88 U	88 U
AROCLO-1248											88 U	88 U
AROCLO-1254											180 U	180 U
AROCLO-1260											180 U	180 U
BETA-BHC											8.8 U	8.8 U
COMBINED												
DBC						0						
DELTA-BHC												8.8 U
DIELDRIN												
ENDOSULFAN I											8.8 U	8.8 U
ENDOSULFAN II											18 U	18 U
ENDOSULFAN SULFATE											18 U	18 U
ENDRIN	2210000					0	4570000	37.41		4840000		
ENDRIN KETONE											18 U	18 U
GAMMA-CHLORDANE											88 U	88 U
GAMMA-BHC (LINDANE)												
HEPTACHLOR												
HEPTACHLOR EPOXIDE											8.8 U	8.8 U
METHOXYCHLOR											88 U	88 U
MIREX	2320000						5480000	41.41		5530000		
TOXAPHENE											180 U	180 U
4,4'-DDD											18 J	18 J
4,4'-DDE											18 U	18 U
4,4'-DDT	523000					17	1870000	56.37		2050000		
SURR 1(MIR) %RECOVERY											0	0
ACTUAL(ALLOWED) EXTRACT TIME											4(14 D)	4(14 D)

TABLE D.5.4 LIVERMORE/SANDIA PCBs &amp; OTHER EXTRACTABLES - SDG NUMBER: LL202

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AREA	QA	QA					
LOCATION	LAS POSITAS	LAS POSITAS	LAS POSITAS	CONT. CAL % BREAKDOWN	LAS POSITAS	CONT. CAL % BREAKDOWN	ARROYO SECO
TYPE OF LOCATION	ARROYO	ARROYO	ARROYO		ARROYO		ARROYOS
SAMPLE NUMBER	LL008037B	LL006013B	LL006024B	LL111487	LL006035B	LL111487	SN004012B
MATRIX	SOIL	SOIL	SOIL		SOIL		SOIL
UNITS	UG/KG	UG/KG	UG/KG	%	UG/KG	%	UG/KG
ENV PROBLEM NO	1	1	1		1		1
ALDRIN							9.6 U
ALPHA CHLORDANE	88 U	88 U	88 U		88 U		96 U
ALPHA-BHC	8.8 U	8.8 U	8.8 U		8.8 U		96 U
AROCLO-1016	88 U	88 U	88 U		88 U		96 U
AROCLO-1221	88 U	88 U	88 U		88 U		96 U
AROCLO-1232	88 U	88 U	88 U		88 U		96 U
AROCLO-1242	88 U	88 U	88 U		88 U		96 U
AROCLO-1248	88 U	88 U	88 U		88 U		96 U
AROCLO-1254	180 U	180 U	180 U		180 U		190 U
AROCLO-1260	180 U	180 U	180 U		180 U		190 U
BETA-BHC	8.8 U	8.8 U	8.8 U		8.8 U		9.6 U
COMBINED				20		17	
DBC							
DELTA-BHC	8.8 U	8.8 U	8.8 U		8.8 U		9.6 U
DIELDRIN							19 U
ENDOSULFAN I	8.8 U	8.8 U	8.8 U		8.8 U		9.6 U
ENDOSULFAN II	18 U	18 U	18 U		18 U		19 U
ENDOSULFAN SULFATE	18 U	18 U	18 U		18 U		19 U
ENDRIN				0		0	19 U
ENDRIN KETONE	18 U	18 U	18 U		18 U		19 U
GAMMA CHLORDANE	88 U	88 U	88 U		88 U		96 U
GAMMA-BHC (LINDANE)							9.6 J
HEPTACHLOR							9.6 U
HEPTACHLOR EPOXIDE	8.8 U	8.8 U	8.8 U		8.8 U		9.6 U
METHOXYCHLOR	88 U	88 U	88 U		88 U		96 U
MIREX							
TOXAPHENE	180 U	180 U	180 U		180 U		190 U
4,4'-DDD	18 J	18 J	18 J		18 J		19 U
4,4'-DDE	18 U	18 U	18 U		18 U		19 U
4,4'-DDT				20		17	19 U
SURR 1(MIR) %RECOVERY	0	0	0		0		82
ACTUAL(ALLOWED) EXTRACT TIME	4(14 D)	5(14 D)	5(14 D)		5(14 D)		15(14 D)

TABLE D.5.4 LIVERMORE/SANDIA PCBs &amp; OTHER EXTRACTABLES - SDG NUMBER: LL202

AREA	ARROYO SECO ARROYOS SN004023B	ARROYO SECO ARROYOS SN004034B	N OF 4TH ST ARROYO LL011010B	N OF 4TH ST ARROYO LL011021B	N OF 4TH ST ARROYO LL011032B	ARROYO SECO ARROYOS SN001019B	ARROYO SECO ARROYOS SN001020B
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	1 UG/KG	1 UG/KG	1 UG/KG	1 UG/KG	1 UG/KG	1 UG/KG	1 UG/KG
ALDRIN	14 U	11 U	9.6 U	9.6 U	9.9 J	8.3 U	8.3 U
ALPHA CHLORDANE	140 U	110 U	96 U	96 U	99 U	83 U	83 U
ALPHA-BHC	14 U	11 U	9.6 U	9.6 U	9.9 U	8.3 U	8.3 U
AROCLOL-1016	140 U	110 U	96 U	96 U	99 U	83 U	83 U
AROCLOL-1221	140 U	110 U	96 U	96 U	99 U	83 U	83 U
AROCLOL-1232	140 U	110 U	96 U	96 U	99 U	83 U	83 U
AROCLOL-1242	140 U	110 U	96 U	96 U	99 U	83 U	83 U
AROCLOL-1248	140 U	110 U	96 U	96 U	99 U	83 U	83 U
AROCLOL-1254	290 U	220 U	190 U	200 U	200 U	170 U	170 U
AROCLOL-1260	290 U	220 U	190 U	190 U	200 U	170 U	170 U
BETA-BHC	14 U	11 U	9.6 U	9.6 B	11	8.3 U	8.3 U
COMBINED							
DBC							
DELTA-BHC	14 U	11 U	9.6 U	9.9 U	1 J	8.3 U	8.3 U
DIELDRIN	29 U	22 U	19 U	19 J	20 J	17 U	17 U
ENDOSULFAN I	14 U	11 U	9.6 U	9.6 U	9.9 U	8.3 U	8.3 U
ENDOSULFAN II	29 U	22 U	19 U	19 U	20 U	17 U	17 U
ENDOSULFAN SULFATE	29 U	22 U	19 U	19 U	20 U	17 U	17 U
ENDRIN	29 U	22 U	19 U	19 J	20 J	17 U	17 U
ENDRIN KETONE	29 U	22 U	19 U	19 U	20 U	17 U	17 U
GAMMA CHLORDANE	140 U	110 U	96 U	96 U	99 U	83 U	83 U
GAMMA-BHC (LINDANE)	14 U	11 U	9.6 U	9.6 U	9.9 U	8.3 U	8.3 U
HEPTACHLOR	14 U	11 U	9.6 J	9.6 U	9.9 J	8.3 U	8.3 U
HEPTACHLOR EPOXIDE	14 U	11 U	9.6 U	9.6 J	9.9 J	8.3 U	8.3 U
METHOXYCHLOR	140 U	110 U	96 U	96 U	99 J	83 U	83 U
MIREX							
TOXAPHENE	290 U	220 U	190 U	190 U	200 U	170 U	170 U
4,4'-DDD	29 U	22 U	19 U	19 U	20 U	17 U	17 U
4,4'-DDE	29 U	22 U	19 U	19 U	20 U	17 U	17 U
4,4'-DDT	29 U	22 U	19 J	19 U	20 J	17 U	17 U
SURR 1(MIR) %RECOVERY	111	94	60	97	91	82	79
ACTUAL(ALLOWED) EXTRACT TIME	15(14 D)	15(14 D)	10(14 D)	10(14 D)	10(14 D)	5(14 D)	5(14 D)

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TABLE D.5.4 LIVERMORE/SANDIA PCBs &amp; OTHER EXTRACTABLES - SDG NUMBER: LL202

AREA	QA				QA			
	LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ARROYO SECO ARROYS SN001031B SOIL UG/KG 1	CONT. CAL % BREAKDOWN LL111587 X	LAS POSITAS ARROYO LL009016B SOIL UG/KG 1	LAS POSITAS ARROYO LL009027B SOIL UG/KG 1	LAS POSITAS ARROYO LL009038B SOIL UG/KG 1	CONT. CAL % BREAKDOWN LL111687 X	GSA AREA WELLS LL036155Z SOIL UG/KG 9
ALDRIN	8.3 U			8.8 U	8.8 U	8.8 U		9.6 U
ALPHA CHLORDANE	8.3 U			8.8 U	8.8 U	8.8 U		96 U
ALPHA-BHC	8.3 U			8.8 U	8.8 U	8.8 U		9.6 U
ACROCLOR-1016	8.3 U			8.8 U	8.8 U	8.8 U		96 U
ACROCLOR-1221	8.3 U			8.8 U	8.8 U	8.8 U		96 U
ACROCLOR-1232	8.3 U			8.8 U	8.8 U	8.8 U		96 U
ACROCLOR-1242	8.3 U			8.8 U	8.8 U	8.8 U		96 U
ACROCLOR-1248	8.3 U			8.8 U	8.8 U	8.8 U		96 U
ACROCLOR-1254	170 U			180 U	180 U	180 U		190 U
ACROCLOR-1260	170 U			180 U	180 U	180 U		190 U
BETA-BHC	8.3 U			8.8 U	8.8 U	8.8 U		9.6 U
COMBINED		0					17	
DBC								
DELTA-BHC	8.3 U			8.8 U	8.8 U	8.8 U		9.6 U
DIELDRIN	17 U			18 J	18 J	18 J		19 U
ENDOSULFAN I	8.3 U			8.8 U	8.8 U	8.8 U		9.6 U
ENDOSULFAN II	17 U			18 J	18 J	18 J		19 U
ENDOSULFAN SULFATE	17 U			18 U	18 J	18 J		19 U
ENDRIN	17 U	0		18 U	18 U	18 U	0	19 U
ENDRIN KETONE	17 U			18 U	18 U	18 U		19 U
GAMMA CHLORDANE	8.3 U			88 U	88 U	88 U		96 U
GAMMA-BHC (LINDANE)	8.3 U				8.8 U	8.8 U		9.6 U
HEPTACHLOR	8.3 U				8.8 U	8.8 U		9.6 U
HEPTACHLOR EPOXIDE	8.3 U			8.8 U	8.8 U	8.8 U		9.6 U
METHOXYCHLOR	8.3 U			88 U	88 U	88 U		96 U
MIREX								
TOXAPHENE	170 U			180 U	180 U	180 U		190 U
4,4'-DDD	17 U			18 J	18 U	18 U		19 U
4,4'-DDE	17 U			18 U	18 U	18 U		19 U
4,4'-DDT	17 U	0		18 U	18 U	18 U	17	19 U
SURR 1(MIR) %RECOVERY	82		0	86	68			76
ACTUAL(ALLOWED) EXTRACT TIME	5(14 D)		7(14 D)	8(14 D)	8(14 D)		9(14 D)	

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TABLE D.5.4 LIVERMORE/SANDIA PCBs &amp; OTHER EXTRACTABLES - SDG NUMBER: LL202

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	MATRIX	MS % RECOVERY	RPD	MATRIX	SPIKE DUPLICATE	MSD % RECOVERY	STP MAIN POND
TYPE OF LOCATION	SPIKE	LL036155Z	LL036155Z	SPIKE	LL036155Z	LL036155Z	CONT. CAL % BREAKDOWN
SAMPLE NUMBER	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	LL111687
MATRIX	SOIL	X	X	UG/KG	X	X	UG/KG
UNITS	UG/KG	%	%	UG/KG	%	%	UG/KG
ENV PROBLEM NO	9	9	9	9	9	10	%
ALDRIN	26	54	11	28	60	14	U
ALPHA CHLORDANE	88 U			88 U		140	U
ALPHA-BHC	8.8 U			8.8 U		14	U
ACROCLOR-1016	88 U			88 U		140	U
ACROCLOR-1221	88 U			88 U		140	U
ACROCLOR-1232	88 U			88 U		140	U
ACROCLOR-1242	88 U			88 U		140	U
ACROCLOR-1248	88 U			88 U		140	U
ACROCLOR-1254	180 U			180 U		290	U
ACROCLOR-1260	180 U			180 U		290	U
BETA-BHC	8.8 U			8.8 U		14	U
COMBINED							
DBC							17
DELTA-BHC	8.8 U			8.8 U		14	U
DIELDRIN	41	54	18	61	64	29	U
ENDOSULFAN I	8.8 U			8.8 U		14	U
ENDOSULFAN II	18 U			18 U		29	U
ENDOSULFAN SULFATE	18 U			18		29	U
ENDRIN	70	50	2.4	80	51	29	U
ENDRIN KETONE	18 U			18 U		29	U
GAMMA CHLORDANE	88 U			88 U		140	U
GAMMA-BHC (LINDANE)	16	45 *	4.8	20	47	14	U
HEPTACHLOR	18	40	5.3	21	42	14	U
HEPTACHLOR EPOXIDE	8.8 U			8.8 U		14	U
METHOXYCHLOR	88 U			88 U		140	U
MIREX							
TOXAPHENE	180 U			180 U		290	U
4,4'-DDD	18 J			18 J		29	U
4,4'-DDE	18 U			18 U		29	U
4,4'-DDT	86	68	4.5	100	71	29 J	
SURR 1(MIR) %RECOVERY	74			80		118	
ACTUAL(ALLOWED) EXTRACT TIME	9(14 D)			9(14 D)		9(14 D)	

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TABLE D.6.1 DIRECTORY FOR EXTRACTABLE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
1	LL001018B	LL001018	D.6.14 (D-288)
1	LL001029B	LL001018	D.6.14 (D-288)
1	LL001030B	LL001018	D.6.14 (D-288)
1	LL001041E	D112	D.6.12 (D-279)
1	LL002019B	LL001018	D.6.14 (D-288)
1	LL002020B	LL001018	D.6.14 (D-288)
1	LL002031B	LL001018	D.6.14 (D-288)
1	LL003010B	LL122987	D.6.31 (D-438)
1	LL003021B	LL122987	D.6.31 (D-435)
1	LL003032B	LL122887	D.6.30 (D-427)
1	LL003043E	D108	D.6.10 (D-267)
1	LL004011B	LL122087	D.6.27 (D-406)
1	LL004022B	LL121987	D.6.26 (D-399)
1	LL004033B	LL121987	D.6.26 (D-399)
1	LL004044B	LL121987	D.6.26 (D-402)
1	LL005012B	LL122287	D.6.29 (D-420)
1	LL005023B	LL122187	D.6.28 (D-414)
1	LL005034B	LL122887	D.6.30 (D-429)
1	LL006013B	LL122187	D.6.28 (D-412)
1	LL006024B	LL122087	D.6.27 (D-408)
1	LL006035B	LL122287	D.6.29 (D-420)
1	LL006046E	D108	D.6.10 (D-267)
1	LL007014B	LL122287	D.6.29 (D-423)
1	LL007025B	LL122287	D.6.29 (D-420)
1	LL007036B	LL122987	D.6.31 (D-435)
1	LL008015B	LL122987	D.6.31 (D-435)
1	LL008026B	LL122087	D.6.27 (D-408)
1	LL008037B	LL122187	D.6.28 (D-414)
1	LL009016B	LL011288	D.6.17 (D-340)
1	LL009027B	LL011288	D.6.17 (D-342)
1	LL009038B	LL011288	D.6.17 (D-342)
1	LL011010B	LL001018	D.6.14 (D-309)
1	LL011021B	LL001018B	D.6.15 (D-316)
1	LL011032B	LL001018B	D.6.15 (D-316)
1	SN001019B	LL020288	D.6.19 (D-354)
1	SN001020B	LL020388	D.6.20 (D-360)
1	SN001031B	LL020388	D.6.20 (D-358)
1	SN001042E	C826	D.6.4 (D-228)
1	SN002010B	LL020488	D.6.21 (D-366)
1	SN002032B	LL020288	D.6.19 (D-352)
1	SN003011B	LL020388	D.6.20 (D-360)
1	SN003022B	LL020288	D.6.19 (D-354)
1	SN003033B	LL020388	D.6.20 (D-360)
1	SN004012B	LL021188	D.6.25 (D-393)
1	SN004023B	LL021188	D.6.25 (D-393)
1	SN004034B	LL021188	D.6.25 (D-393)
2	LL012011A	D112	D.6.12 (D-279)
2	LL012022A	D111	D.6.11 (D-271)
2	LL012033A	D106	D.6.8 (D-253)
2	LL012044A	D106	D.6.8 (D-253)
2	LL012055A	C827	D.6.5 (D-235)

TABLE D.6.1 DIRECTORY FOR EXTRACTABLE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
2	LL012066A	D106	D.6.8 (D-255)
2	LL012077A	D112	D.6.12 (D-279)
2	LL012088A	D111	D.6.11 (D-271)
2	LL012099A	D106	D.6.8 (D-255)
2	LL012135A	D106	D.6.8 (D-255)
2	LL012146A	C827	D.6.5 (D-235)
2	LL012157A	D106	D.6.8 (D-255)
2	LL012168A	D105	D.6.7 (D-246)
2	LL012179A	C827	D.6.5 (D-237)
2	LL012180A	D106	D.6.8 (D-255)
2	LL012191A	D113	D.6.13 (D-283)
2	LL012204A	D111	D.6.11 (D-273)
2	LL012215A	D105	D.6.7 (D-249)
2	LL012226A	D112	D.6.12 (D-279)
2	LL012237A	D111	D.6.11 (D-273)
2	LL012248A	D105	D.6.7 (D-249)
2	LL012259A	D112	D.6.12 (D-277)
2	LL012260A	D111	D.6.11 (D-273)
2	LL012271A	D105	D.6.7 (D-244)
2	LL012282A	D106	D.6.8 (D-253)
2	LL012306A	D107	D.6.9 (D-259)
2	LL012317A	D105	D.6.7 (D-244)
2	LL012339A	D107	D.6.9 (D-259)
2	LL012679A	D113	D.6.13 (D-283)
2	LL012680A	D105	D.6.7 (D-246)
2	LL012691A	D113	D.6.13 (D-283)
2	LL012704A	D111	D.6.11 (D-273)
2	LL912021A	D105	D.6.7 (D-244)
2	LL912032A	C827	D.6.5 (D-235)
2	LL912043A	D108	D.6.10 (D-267)
2	SN005013E	C826	D.6.4 (D-226)
2	SN005024E	C826	D.6.4 (D-228)
2	SN005035E	C826	D.6.4 (D-228)
2	SN005057E	C826	D.6.4 (D-228)
3	LL013012B	LL001018	D.6.14 (D-303)
3	LL013023B	LL001018	D.6.14 (D-303)
3	LL013034B	LL001018	D.6.14 (D-303)
3	SN006014E	C825	D.6.3 (D-220)
3	SN006025E	C825	D.6.3 (D-220)
3	SN006036E	C825	D.6.3 (D-222)
3	SN006047E	C825	D.6.3 (D-222)
4	LL022013E	D112	D.6.12 (D-277)
4	LL022024E	D112	D.6.12 (D-277)
4	LL024015F	D107	D.6.9 (D-259)
4	LL025016F	D108	D.6.10 (D-265)
4	LL025027F	D108	D.6.10 (D-265)
4	LL026017F	D108	D.6.10 (D-265)
4	SN007015B	LL001018B	D.6.15 (D-325)
4	SN007026B	LL001018B	D.6.15 (D-325)
4	SN007037B	LL001018B	D.6.15 (D-325)
4	SN007048B	LL001018B	D.6.15 (D-325)
4	SN007059B	LL001018B	D.6.15 (D-325)

TABLE D.6.1 DIRECTORY FOR EXTRACTABLE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
4	SN007060B	LL001018B	D.6.15 (D-325)
4	SN008016B	LL001018B	D.6.15 (D-319)
4	SN008027B	LL001018B	D.6.15 (D-319)
4	SN008038B	LL001018B	D.6.15 (D-319)
4	SN008049E	D108	D.6.10 (D-267)
4	SN009017B	LL001018B	D.6.15 (D-331)
4	SN009028B	LL001018B	D.6.15 (D-328)
4	SN009039B	LL001018B	D.6.15 (D-328)
4	SN009040B	LL001018B	D.6.15 (D-328)
4	SN010010B	LL001018B	D.6.15 (D-316)
4	SN010021B	LL001018B	D.6.15 (D-319)
4	SN010032B	LL001018B	D.6.15 (D-319)
4	SN010043B	LL001018B	D.6.15 (D-319)
4	SN010054B	LL001018B	D.6.15 (D-319)
4	SN011011B	LL001018B	D.6.15 (D-322)
4	SN011022B	LL001018B	D.6.15 (D-322)
4	SN011033B	LL001018B	D.6.15 (D-322)
6	LL028019B	LL020988	D.6.23 (D-378)
6	LL028020B	LL020988	D.6.23 (D-378)
6	LL028031B	LL021088	D.6.24 (D-384)
6	LL028042B	LL020988	D.6.23 (D-378)
6	LL029010B	LL001018	D.6.14 (D-297)
6	LL029021B	LL001018	D.6.14 (D-297)
6	LL029032B	LL001018	D.6.14 (D-297)
6	LL030013B	LL001018	D.6.14 (D-297)
6	LL030024B	LL001018	D.6.14 (D-291)
6	LL030035B	LL001018	D.6.14 (D-291)
6	LL030046B	LL001018	D.6.14 (D-294)
6	LL031014B	LL020288	D.6.19 (D-354)
6	LL031025B	LL011388	D.6.18 (D-348)
6	LL031036B	LL020488	D.6.21 (D-366)
6	LL031047B	LL020388	D.6.20 (D-360)
6	LL031058B	LL020488	D.6.21 (D-366)
6	LL031069B	LL020588	D.6.22 (D-372)
6	LL031070B	LL011388	D.6.18 (D-348)
6	LL031081B	LL020588	D.6.22 (D-370)
6	LL031092B	LL011388	D.6.18 (D-348)
6	LL031105B	LL020488	D.6.21 (D-366)
6	LL031116B	LL020388	D.6.20 (D-360)
6	LL031127B	LL020988	D.6.23 (D-376)
6	LL031149B	LL020288	D.6.19 (D-354)
6	LL031150B	LL020288	D.6.19 (D-354)
6	LL031161B	LL020588	D.6.22 (D-372)
6	LL032015B	LL001018	D.6.14 (D-306)
6	LL032026B	LL001018	D.6.14 (D-306)
6	LL032037B	LL001018	D.6.14 (D-306)
6	LL032071B	LL001018	D.6.14 (D-312)
6	LL032082B	LL001018	D.6.14 (D-309)
6	LL032093B	LL001018	D.6.14 (D-309)
6	LL032106B	LL001018	D.6.14 (D-309)
6	LL032117B	LL001018	D.6.14 (D-309)
6	LL032128B	LL001018	D.6.14 (D-309)

TABLE D.6.1 DIRECTORY FOR EXTRACTABLE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
6	LL032139B	LL001018	D.6.14 (D-309)
6	LL032140B	LL001018	D.6.14 (D-312)
6	LL032151B	LL001018	D.6.14 (D-312)
6	LL032253E	D108	D.6.10 (D-267)
6	LL033016B	LL122087	D.6.27 (D-406)
6	LL033027B	LL121987	D.6.26 (D-397)
6	LL033038B	LL121987	D.6.26 (D-397)
7	LL034017B	LL021188	D.6.25 (D-393)
7	LL034028B	LL021088	D.6.24 (D-384)
7	LL034039B	LL021088	D.6.24 (D-387)
7	LL034040B	LL020988	D.6.23 (D-378)
7	LL034051B	LL021088	D.6.24 (D-384)
7	LL034062B	LL020988	D.6.23 (D-378)
7	LL034073B	LL021088	D.6.24 (D-387)
7	LL034084B	LL021088	D.6.24 (D-387)
7	LL034095B	LL021188	D.6.25 (D-391)
7	LL034108B	LL021188	D.6.25 (D-393)
7	LL034119B	LL021088	D.6.24 (D-387)
7	LL034120B	LL021088	D.6.24 (D-387)
7	LL034131E	D108	D.6.10 (D-267)
9	LL036019B	LL001018	D.6.14 (D-294)
9	LL036020B	LL001018	D.6.14 (D-294)
9	LL036031B	LL001018	D.6.14 (D-300)
9	LL036053B	LL122987	D.6.31 (D-435)
9	LL036064B	LL122987	D.6.31 (D-438)
9	LL036075B	LL011388	D.6.18 (D-348)
9	LL036086B	LL011388	D.6.18 (D-348)
9	LL036097B	LL011288	D.6.17 (D-342)
9	LL036133B	LL011188	D.6.16 (D-334)
9	LL036144B	LL011288	D.6.17 (D-342)
9	LL036155B	LL011188	D.6.16 (D-336)
9	LL036224E	D111	D.6.11 (D-273)
10	LL037010B	LL122087	D.6.27 (D-408)
10	LL037021B	LL122887	D.6.30 (D-429)
10	LL037032B	LL122987	D.6.31 (D-435)
10	LL038011B	LL011288	D.6.17 (D-342)
10	LL038022B	LL011288	D.6.17 (D-342)
10	LL038033B	LL011388	D.6.18 (D-346)
10	LL038055B	LL011388	D.6.18 (D-348)
11	LL039012B	LL121987	D.6.26 (D-397)
11	LL039023B	LL122087	D.6.27 (D-408)
11	LL039034B	LL122087	D.6.27 (D-408)
11	LL039045B	LL122087	D.6.27 (D-406)

TABLE D.6.2 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C727

DRAFT DO NOT CITE

AREA	QA RRF LL0727876	QA X RSD LL0727876	QA TUNED CALIBRATION LL0727875	QA ISTD RET TIM SHIFT LL0727878
	RRF	X	X	AREA
ACENAPHTHENE	1.312	15.1		
ACENAPHTHYLENE	1.813	28.7		
ANTHRACENE	1.137	15.9		
BENZO(A)ANTHRACENE	1.229	2.1		
BENZO(A)PYRENE	1.494	6.7		
BENZO(B)FLUORANTHENE	1.824	5.8		
BENZO(G,H,I)PERYLENE	1.339	8.6		
BENZO(K)FLUORANTHENE	1.695	7.6		
BENZOIC ACID	0.177	15		
BENZYL ALCOHOL	0.859	7.8		
BIS(2-CHLOROETHOXY)METHANE	0.568	13		
BIS(2-CHLOROISOPROPYL)ETHER	1.85	14.9		
BIS(2-CHLOROETHYL)ETHER	1.56	11.8		
BIS(2-ETHYLHEXYL)PHTHALATE	1.049	4.6		
BUTYL BENZYL PHTHALATE	0.825	4.8		
CHRYSENE	1.22	6.9		
DI-N-BUTYL PHTHALATE	1.052	15.9		
DI-N-OCTYL PHTHALATE	2.653	13.4		
DIBENZ(A,H)ANTHRACENE	1.161	8		
DIBENZOFURAN	1.564	21.4		
DIETHYL PHTHALATE	1.274	13.9		
DIMETHYL PHTHALATE	1.631	13.7		
FLUORANTHENE	0.858	5.1		
FLUORENE	1.157	14.3		
HEXAChLOROBENZENE	0.325	7.7		
HEXAChLOROBUTADIENE	0.201	10.2		
HEXAChLOROCYCLOPENTADIENE	0.493	6.7		
HEXAChLOROETHANE	0.762	8.3		
INDENO(1,2,3-CD)PYRENE	1.274	8.3		
ISOPHORONE	0.98	4.1		
N-NITROSO-DI-N-PROPYLAMINE	1.188	7.2		
N-NITROSODIPHENYLAMINE	0.671	9.8		
NAPHTHALENE	0.858	36.5		
NITROBENZENE	0.496	8.7		
NITROBENZENE-D5	0.461	5.6		
PENTACHLOROPHENOL	0.176	11.1		
PHENANTHRENE	1.163	17.8		
PHENOL	1.889	13.9		
PHENOL-D5	1.834	7.5		

TABLE D.6.2 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C727

DRAFT DO NOT CITE

AREA	QA RRF	QA % RSD	QA TUNED CALIBRATION	QA ISTD RET TIM SHIFT
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	INITIAL CAL RRF LL0727876	INITIAL CAL % RSD LL0727876	TUNED CALIBRATION LL0727875	ISTD RET TIM SHIFT LL0727878
PYRENE	1.94	15.8		
TERPHENYL-D14	0.974	8.9		
1,2-DICHLOROBENZENE	1.529	12.8		
1,2,4-TRICHLOROBENZENE	0.381	7.3		
1,3-DICHLOROBENZENE	1.614	15.3		
1,4-DICHLOROBENZENE	1.548	16.3		
2-CHLORONAPHTHALENE	1.405	18.8		
2-CHLOROPHENOL	1.396	20.6		
2-FLUOROBIPHENYL	1.5	25.4		
2-FLUOROPHENOL	1.325	7.3		
2-METHYLNAPHTHALENE	0.575	18.7		
2-METHYLPHENOL	1.249	5.5		
2-NITROANILINE	0.428	7		
2-NITROPHENOL	0.251	6.1		
2,4-DICHLOROPHENOL	0.332	4.8		
2,4-DIMETHYLPHENOL	0.428	6.6		
2,4-DINITROPHENOL	0.118	26.4		
2,4-DINITROTOLUENE	0.395	8		
2,4,5-TRICHLOROPHENOL	0.496	8.2		
2,4,6-TRIBROMOPHENOL	0.187	8.4		
2,4,6-TRICHLOROPHENOL	0.516	7.5		
2,6-DINITROTOLUENE	0.362	6.7		
3-NITROANILINE	0.257	23.9		
3,3'-DICHLOROBENZIDINE	0.116	20.9		
4-BROMOPHENYL-PHENYLETHER	0.289	7.6		
4-CHLORO-3-METHYLPHENOL	0.32	5		
4-CHLOROANILINE	0.436	8.6		
4-CHLOROPHENYL-PHENYLETHER	0.515	12.6		
4-METHYLPHENOL	1.277	6.2		
4-NITROANILINE	0.112	43.6		
4-NITROPHENOL	0.114	20.1		
4,6-DINITRO-2-METHYLPHENOL	0.167	15.5		
M/E 51		49		
M/E 68-1		0		
M/E 68-2		0		
M/E 69		71		
M/E 70-1		0.7		
M/E 70-2		0.9		

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**TABLE D.6.2 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C727****DRAFT DO NOT CITE**

AREA	QA	QA	QA	QA	
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	ISTD RET TIM	
TYPE OF LOCATION	RRF	X RSD	CALIBRATION	SHIFT	
SAMPLE NUMBER	LL0727876	LL0727876	LL0727875	LL0727878	
MATRIX					
UNITS					
ENV PROBLEM NO					
M/E 127			54		
M/E 197			0		
M/E 198			100		
M/E 199			6.4		
M/E 275			21		
M/E 365			2.6		
M/E 441			8.8		
M/E 442			58		
M/E 443-1			11		
M/E 443-2			19		
INTERNAL STD AREA(ANT)			5380000		
INTERNAL STD AREA(CRY)			1680000		
INTERNAL STD AREA(DCB)			4660000		
INTERNAL STD AREA(NPT)			1E+07		
INTERNAL STD AREA(PHN)			4890000		
INTERNAL STD AREA(PRY)			945000		
DILUTION FACTOR			0		
ACTUAL(ALLOWED) EXTRACT TIME					

TABLE D.6.3 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C825

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	SPRAY BOOTH	SPRAY BOOTH
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL XD	ISTD SHIFT	METHOD BLANK	SPRAY BOOTH SN006014E	SPRAY BOOTH SN006025E
TYPE OF LOCATION	LL0825875	LL0825877	LL0825877	LL0825878	SBKC825	WATER UG/L	WATER UG/L
SAMPLE NUMBER	%	RRF	%	AREA	WATER UG/L	3	3
MATRIX							
UNITS							
ENV PROBLEM NO							
ACENAPHTHENE		1.401	6.8		10 U	10 U	10 U
ACENAPHTHYLENE		2.185	20.5		10 U	10 U	10 U
ANTHRACENE		1.253	10.1		10 U	10 U	10 U
BENZO(A)ANTHRACENE		1.194	2.8		10 U	10 U	10 U
BENZO(A)PYRENE		1.447	3.1		10 U	10 U	10 U
BENZO(B)FLUORANTHENE		1.743	4.5		10 U	10 U	10 U
BENZO(G,H,I)PERYLENE		1.382	3.3		10 U	10 U	10 U
BENZO(K)FLUORANTHENE		1.72	1.5		10 U	10 U	10 U
BENZOIC ACID		0.187	5.8		50 U	50 U	50 U
BENZYL ALCOHOL		0.965	12.4		10 U	10 U	10 U
BIS(2-CHLOROETHOXY)METHANE		0.626	14.3		10 U	10 U	10 U
BIS(2-CHLOROISOPROPYL)ETHER		2.645	43		10 U	10 U	10 U
BIS(2-CHLOROETHYL)ETHER		1.695	8.7		10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE		0.851	18.8		10 U	10 U	200 B
BUTYLBENZYLPHthalate		0.659	20.2		10 U	10 U	100 U
CHRYSENE		1.205	1.3		10 U	10 U	100 U
DI-N-BUTYLPHthalate		1.234	17.4		10 U	10 U	100 U
DI-N-OCTYLPHthalate		1.88	29.2		10 U	10 U	100 U
DIBENZ(A,H)ANTHRACENE		1.131	2.6		10 U	10 U	100 U
DIBENZOFURAN		1.901	21.5		10 U	10 U	100 U
DIETHYLPHthalate		1.348	5.8		10 U	10 U	100 U
DIMETHYLPHthalate		1.773	8.8		10 U	10 U	100 U
FLUORANTHENE		0.972	13.2		10 U	10 U	100 U
FLUORENE		1.279	10.5		10 U	10 U	100 U
HEXAChLOROBENZENE		0.439	34.8		10 U	10 U	100 U
HEXAChLOROBUTADIENE		0.278	38		10 U	10 U	100 U
HEXAChLOROCYCLOPENTADIENE		0.608	23.3		10 U	10 U	100 U
HEXAChLOROETHANE		0.79	3.6		10 U	10 U	100 U
INDENO(1,2,3-CD)PYRENE		1.294	1.6		10 U	10 U	100 U
ISOPHORONE		1.074	33.9		10 U	10 U	100 U
N-NITROSO-DI-N-PROPYLAMINE		1.424	19.9		10 U	10 U	100 U
N-NITROSDIPHENYLAMINE		0.711	5.9		10 U	10 U	100 U
NAPHTHALENE		1.068	24.5		10 U	10 U	100 U
NITROBENZENE		0.519	4.7		10 U	10 U	100 U
NITROBENZENE-D5		0.475	3		10 U	10 U	100 U
PENTACHLOROPHENOL		0.239	36		50 U	50 U	50 U
PHENANTHRENE		1.24	6.7		10 U	10 U	100 U
PHENOL		1.994	5.5		10 U	10 U	100 U
PHENOL-D5		1.801	1.8				100 U

TABLE D.6.3 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C825

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0825875	QA CONTINUING CALIBRATION LL0825877	QA CONTINUING CAL XD LL0825877	QA ISTD SHIFT LL0825878	RET TIM AREA	METHOD BLANK SBKC825 WATER UG/L	SPRAY BOOTH SPRAY BOOTH SN006014E WATER UG/L 3	SPRAY BOOTH SPRAY BOOTH SN006025E WATER UG/L 3
PYRENE		1.881	3.1		10 U		10 U	10 U
TERPHENYL-D14		1.004	3.1		10 U		10 U	10 U
1,2-DICHLOROBENZENE		1.753	14.7		10 U		10 U	10 U
1,2,4-TRICHLOROBENZENE		0.428	12.3		10 U		10 U	10 U
1,3-DICHLOROBENZENE		1.796	11.3		10 U		10 U	10 U
1,4-DICHLOROBENZENE		1.74	12.5		10 U		10 U	10 U
2-CHLORONAPHTHALENE		1.555	5		10 U		10 U	10 U
2-CHLOROPHENOL		1.56	11.8		10 U		10 U	10 U
2-FLUOROBIPHENYL		1.74	16		10 U		10 U	10 U
2-FLUOROPHENOL		1.194	9.9		10 U		10 U	10 U
2-METHYLNAPHTHALENE		0.683	18.9		10 U		10 U	10 U
2-METHYLPHENOL		1.381	10.6		10 U		10 U	10 U
2-NITROANILINE		0.474	10.6		10 U		10 U	10 U
2-NITROPHENOL		0.255	1.5		50 U		50 U	50 U
2,4-DICHLOROPHENOL		0.367	10.4		10 U		10 U	10 U
2,4-DIMETHYLPHENOL		0.433	1.1		10 U		10 U	10 U
2,4-DINITROPHENOL		0.12	1.7		10 U		10 U	10 U
2,4-DINITROTOLUENE		0.424	7.6		50 U		50 U	50 U
2,4,5-TRICHLOROPHENOL		0.569	14.8		10 U		10 U	10 U
2,4,6-TRIBROMOPHENOL		0.289	54.7		50 U		50 U	50 U
2,4,6-TRICHLOROPHENOL		0.597	15.7		10 U		10 U	10 U
2,6-DINITROTOLUENE		0.388	7.1		10 U		10 U	10 U
3-NITROANILINE		0.13	49.3		10 U		10 U	10 U
3,3'-DICHLOROBENZIDINE		0.17	46.6		50 U		50 U	50 U
4-BROMOPHENYL-PHENYLETHER		0.356	23.1		20 U		20 U	20 U
4-CHLORO-3-METHYLPHENOL		0.352	10		10 U		10 U	10 U
4-CHLOROANILINE		0.461	5.8		10 U		10 U	10 U
4-CHLOROPHENYL-PHENYLETHER		0.621	20.7		10 U		10 U	10 U
4-METHYLPHENOL		1.366	6.9		10 U		10 U	10 U
4-NITROANILINE		0.137	22.6		50 U		50 U	50 U
4-NITROPHENOL		0.096	16.4		50 U		50 U	50 U
4,6-DINITRO-2-METHYLPHENOL		0.178	6.4		50 U		50 U	50 U
SURR 1(NBZ) %RECOVERY					102		59	48
SURR 2(FBP) %RECOVERY					89		64	52
SURR 3(TPH) %RECOVERY					115		69	65
SURR 4(PHL) %RECOVERY					27		20	20
SURR 5(2FP) %RECOVERY					98		38	35
SURR 6(TBP) %RECOVERY					91		46	52

DRAFT DO NOT CITE

TABLE D.6.3 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C825

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AREA	QA	QA	QA	QA	QA	SPRAY BOOTH	SPRAY BOOTH
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD SHIFT	METHOD	SPRAY BOOTH	SPRAY BOOTH
TYPE OF LOCATION	LL0825875	LL0825877	LL0825877	LL0825878	BLANK SBKC825	SN006014E	SN006025E
SAMPLE NUMBER	%	RRF	%	AREA	WATER UG/L	WATER UG/L	WATER UG/L
MATRIX						3	3
UNITS							
ENV PROBLEM NO							
M/E 51		46					
M/E 68-1		0					
M/E 68-2		0					
M/E 69		68					
M/E 70-1		0.5					
M/E 70-2		0.7					
M/E 127		45					
M/E 197		0					
M/E 198		100					
M/E 199		6.7					
M/E 275		22					
M/E 365		2.8					
M/E 441		9.9					
M/E 442		62					
M/E 443-1		11					
M/E 443-2		18					
INTERNAL STD AREA(ANT)				5480000	5610000	5230000	5140000
INTERNAL STD AREA(CRY)				3190000	5070000	3250000	1730000
INTERNAL STD AREA(DCB)				3570000	3290000	3360000	3240000
INTERNAL STD AREA(NPT)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PHN)				6240000	7350000	5680000	4350000
INTERNAL STD AREA(PRY)				2160000	3960000	2540000	1430000
DILUTION FACTOR						1	1
ACTUAL(ALLOWED) EXTRACT TIME						11(7 D)	11(7 D)
AREA	QA	QA	QA	QA	QA	SPRAY BOOTH	SPRAY BOOTH
LOCATION	SPRAY BOOTH	MATRIX	MS % RECOVERY	RPD	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	SPRAY BOOTH
TYPE OF LOCATION	SPRAY BOOTH	SPIKE	SN006036E	SN006036E	DUPLICATE SN006036E	SN006036E	SPRAY BOOTH
SAMPLE NUMBER	SN006036E	SN006036E	WATER	WATER	WATER	WATER	SN006047E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	%	%	UG/L	%	UG/L
ENV PROBLEM NO	3	3	3	3	3	3	3
ACENAPHTHENE	10 U	55 MS	55	12	49 MS	49	20 U

TABLE D.6.3 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C825

AREA	QA	QA	QA	QA	QA	SPRAY BOOTH
LOCATION	SPRAY BOOTH	MATRIX SPIKE	MS X RECOVERY	RPD	MATRIX SPIKE DUPLICATE	SPRAY BOOTH
TYPE OF LOCATION	SPRAY BOOTH	SN006036E	SN006036E	SN006036E	SN006036E	SPRAY BOOTH
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX	UG/L	UG/L	%	UG/L	UG/L	UG/L
UNITS	3	3	3	3	3	3
ENV PROBLEM NO						
ACENAPHTHYLENE	10 U	10 U	10 U		10 U	10 U
ANTHRACENE	10 U	10 U	10 U		10 U	10 U
BENZO(A)ANTHRACENE	10 U	10 U	10 U		10 U	10 U
BENZO(A)PYRENE	10 U	10 U	10 U		10 U	10 U
BENZO(B)FLUORANTHENE	10 U	10 U	10 U		10 U	10 U
BENZO(G,H,I)PERYLENE	10 U	10 U	10 U		10 U	10 U
BENZO(K)FLUORANTHENE	10 U	10 U	10 U		50 U	50 U
BENZOIC ACID	50 U	50 U	10 U		10 U	10 U
BENZYL ALCOHOL	10 U	10 U	10 U		10 U	10 U
BIS(2-CHLOROETHOXY)METHANE	10 U	10 U	10 U		10 U	10 U
BIS(2-CHLOROISOPROPYL)ETHER	10 U	10 U	10 U		10 U	10 U
BIS(2-CHOROETHYL)ETHER	10 U	10 U	10 U		10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	10 U	10 U	10 U		10 U	10 U
BUTYL BENZYL PHTHALATE	10 U	10 U	10 U		10 U	10 U
CHRYSENE	10 U	10 U	10 U		10 U	10 U
DI-N-BUTYL PHTHALATE	10 U	10 U	10 U		10 U	10 U
DI-N-OCTYL PHTHALATE	10 U	10 U	10 U		10 U	10 U
DIBENZ(A,H)ANTHRACENE	10 U	10 U	10 U		10 U	10 U
DIBENZOFURAN	10 U	10 U	10 U		10 U	10 U
DIETHYL PHTHALATE	10 U	10 U	10 U		10 U	10 U
DIMETHYL PHTHALATE	10 U	10 U	10 U		10 U	10 U
FLUORANTHENE	10 U	10 U	10 U		10 U	10 U
FLUORENE	10 U	10 U	10 U		10 U	10 U
HEXA CHLOROBENZENE	10 U	10 U	10 U		10 U	10 U
HEXA CHLOROBUTADIENE	10 U	10 U	10 U		10 U	10 U
HEXA CHLOROCYCLOPENTADIENE	10 U	10 U	10 U		10 U	10 U
HEXA CHLOROETHANE	10 U	10 U	10 U		10 U	10 U
INDENO(1,2,3-CD)PYRENE	10 U	10 U	10 U		10 U	10 U
ISOPHORONE	10 U	10 U	53 MS	53	8	49 MS
N-NITROSO-DI-N-PROPYLAMINE	10 U	10 U	10 U		10 U	10 U
N-NITROSODIPHENYLAMINE	10 U	10 U	10 U		10 U	10 U
NAPHTHALENE	10 U	10 U	10 U		10 U	10 U
NITROBENZENE	10 U	10 U	10 U		10 U	10 U
NITROBENZENE-D5						50 U
PENTACHLOROPHENOL	50 U	63 JMS	32	67 *	32 JMS	16
PHENANTHRENE	10 U	10 U	10 U		10 U	10 U
PHENOL	10 U	30 MS	16	20	25 MS	13
PHENOL-D5						10 U
PYRENE	10 U	75 MS	75	40 *	110 MS	110

TABLE D.6.3 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C825

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	SPRAY BOOTH	MATRIX SPIKE	MS % RECOVERY	RPD	MATRIX DUPLICATE	MSD % RECOVERY	SPRAY BOOTH
TYPE OF LOCATION	SPRAY BOOTH	SN006036E	SN006036E	SN006036E	SN006036E	SN006036E	SPRAY BOOTH
SAMPLE NUMBER							
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	%	%	UG/L	%	UG/L
ENV PROBLEM NO	3	3	3	3	3	3	3
TERPHENYL-D14							
1,2-DICHLOROBENZENE	10 U	10 U			10 U		10 U
1,2,4-TRICHLOROBENZENE	10 U	57 MS	57	11	51 MS	51	10 U
1,3-DICHLOROBENZENE	10 U	10 U			10 U		10 U
1,4-DICHLOROBENZENE	10 U	50 MS	50	2	49 MS	49	10 U
2-CHLORONAPHTHALENE	10 U	10 U			10 U		10 U
2-CHLOROPHENOL	10 U	76 MS	35	25	60 MS	27	10 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	10 U	10 U			10 U		10 U
2-METHYLPHENOL	10 U	10 U			10 U		10 U
2-NITROANILINE	50 U	50 U			50 U		50 U
2-NITROPHENOL	10 U	10 U			10 U		10 U
2,4-DICHLOROPHENOL	10 U	10 U			10 U		10 U
2,4-DIMETHYLPHENOL	10 U	10 U			10 U		10 U
2,4-DINITROPHENOL	50 U	50 U			50 U		50 U
2,4-DINITROTOLUENE	10 U	32 MS	32	25	25 MS	25	10 U
2,4,5-TRICHLOROPHENOL	50 U	50 U			50 U		50 U
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	10 U	10 U			10 U		10 U
2,6-DINITROTOLUENE	10 U	10 U			10 U		10 U
3-NITROANILINE	50 U	50 U			50 U		50 U
3,3'-DICHLOROBENZIDINE	20 U	20 U			20 U		10 U
4-BROMOPHENYL-PHENYLETHER	10 U	10 U			10 U		20 U
4-CHLORO-3-METHYLPHENOL	10 U	67 MS	34	9	62 MS	31	10 U
4-CHLORODANILINE	10 U	10 U			10 U		10 U
4-CHLOROPHENYL-PHENYLETHER	10 U	10 U			10 U		10 U
4-METHYLPHENOL	10 U	10 U			10 U		10 U
4-NITROANILINE	50 U	50 U			50 U		50 U
4-NITROPHENOL	50 U	50 UMS	0 *	0	50 UMS	0 *	50 U
4,6-DINITRO-2-METHYLPHENOL	50 U	50 U			50 U		50 U
SURR 1(NBZ) %RECOVERY	56	50			45		37
SURR 2(FBP) %RECOVERY	60	53			48		42 *
SURR 3(TPH) %RECOVERY	76	71			93		56
SURR 4(PHL) %RECOVERY	16	18			14		23
SURR 5(2FP) %RECOVERY	28	26			20 *		39
SURR 6(TBP) %RECOVERY	37	34			35		34

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TABLE D.6.3 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C825

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	SPRAY BOOTH	SPRAY BOOTH
LOCATION	SPRAY SPIKE	MS X RECOVERY	RPD	MATRIX SPIKE	MSD X RECOVERY	SPRAY BOOTH	SPRAY BOOTH
TYPE OF LOCATION	SN006036E	SN006036E	SN006036E	DUPLICATE	SN006036E	SN006047E	SN006047E
SAMPLE NUMBER	WATER	WATER	WATER	MATRIX	WATER	WATER	WATER
MATRIX	UG/L	UG/L	X	SPike	UG/L	UG/L	UG/L
UNITS	3	3	3	Duplicate	3	3	3
ENV PROBLEM NO				MSD	X		
M/E 68-1							
M/E 68-2							
M/E 69							
M/E 70-1							
M/E 70-2							
M/E 127							
M/E 197							
M/E 198							
M/E 199							
M/E 275							
M/E 365							
M/E 441							
M/E 442							
M/E 443-1							
M/E 443-2							
INTERNAL STD AREA(ANT)	5040000	6120000		5350000		4820000	
INTERNAL STD AREA(CRY)	1830000	2150000		795000		2370000	
INTERNAL STD AREA(DCB)	3210000	3680000		3420000		3310000	
INTERNAL STD AREA(NPT)	1E+07	1E+07		1E+07		1E+07	
INTERNAL STD AREA(PHN)	5380000	6180000		5190000		5440000	
INTERNAL STD AREA(PRY)	1320000	1480000		322000		1640000	
DILUTION FACTOR	1	1		1		1	
ACTUAL(ALLOWED) EXTRACT TIME	11(7 D)	11(7 D)		11(7 D)		11(7 D)	

TABLE D.6.4 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C826

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0826875	QA CONTINUING CALIBRATION LL0826877	QA CONTINUING CAL X'D LL0826877	QA ISTD SHIFT LL0826878	RET TIM BLDG. 913 BLDG 913 SN005013E	QA WATER UG/L 2	QA MATRIX SPIKE SN005013E	QA WATER UG/L 2	MS % RECOVERY SN005013E	QA WATER % 2
ACENAPHTHENE		1.467	11.9		10 U	16	JMS		15 *	
ACENAPHTHYLENE		2.253	24.3		10 U	10	U			
ANTHRACENE		1.286	13.1		10 U	10	U			
BENZO(A)ANTHRACENE		1.316	7.1		10 U	10	U			
BENZO(A)PYRENE		1.446	3.2		10 U	10	U			
BENZO(B)FLUORANTHENE		1.68	7.9		10 U	10	U			
BENZO(G,H,I)PERYLENE		1.376	2.8		10 U	10	U			
BENZO(K)FLUORANTHENE		1.614	4.8		10 U	10	U			
BENZOIC ACID		0.198	11.9		50 U	50	U			
BENZYL ALCOHOL		0.929	8.2		10 U	10	U			
BIS(2-CHLOROETHOXY)METHANE		0.63	15		10 U	10	U			
BIS(2-CHLOROISOPROPYL)ETHER		2.798	51.3		10 U	10	U			
BIS(2-CHLOROETHYL)ETHER		1.664	6.7		10 U	10	U			
BIS(2-ETHYLHEXYL)PHTHALATE		1.082	3.2		130	64				
BUTYLBENZYLPHthalate		0.805	2.5		10 U	10	U			
CHRYSENE		1.287	5.5		10 U	10	U			
DI-N-BUTYLPHthalate		1.337	27.2		2 J	1	J			
DI-N-OCTYLPHthalate		2.318	12.6		10 U	10	U			
DIBENZ(A,H)ANTHRACENE		1.196	3.1		10 U	10	U			
DIBENZOFURAN		1.967	25.8		10 U	10	U			
DIETHYLPHthalate		1.463	14.8		10 U	10	U			
DIMETHYLPHthalate		1.829	12.1		10 U	10	U			
FLUORANTHENE		0.998	16.3		10 U	10	U			
FLUORENE		1.374	18.7		10 U	10	U			
HEXACHLOROBENZENE		0.352	8.4		10 U	10	U			
HEXACHLOROBUTADIENE		0.235	16.9		10 U	10	U			
HEXACHLOROCYCLOPENTADIENE		0.555	12.7		10 U	10	U			
HEXACHLOROETHANE		0.765	0.4		10 U	10	U			
INDENO(1,2,3-CD)PYRENE		1.325	4		10 U	10	U			
ISOPHORONE		1.085	35.2		10 U	10	U			
N-NITROSO-DI-N-PROPYLAMINE		1.326	11.6		10 U	18	JMS		17 *	
N-NITROSODIPHENYLAMINE		0.714	6.5		10 U	10	U			
NAPHTHALENE		1.09	27.1		10 U	10	U			
NITROBENZENE		0.516	4.1		10 U	10	U			
NITROBENZENE-D5		0.471	2.3		10 U	10	U			
PENTACHLOROPHENOL		0.2	13.9		50 U	130	MS		62	
PHENANTHRENE		1.305	12.3		10 U	10	U			
PHENOL		2.113	11.8		10 U	51	MS		27	
PHENOL-D5		1.89	3.1							

TABLE D.6.4 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C826

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	BLDG.	MATRIX	MS X
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	SHIFT	TIME	BLDG. 913	SPIKE	RECOVERY
SAMPLE NUMBER	LL0826875	LL0826877	LL0826877	LL0826878		SN005013E	SN005013E	SN005013E
MATRIX	%	RRF	%	AREA		WATER	WATER	WATER
UNITS						UG/L	UG/L	UG/L
ENV PROBLEM NO						2	2	2
PYRENE		1.855	4.4			10 U	19 JMS	18 *
TERPHENYL-D14		0.943	3.1			10 U	10 U	
1,2-DICHLOROBENZENE		1.698	11.1			10 U	16 JMS	15 *
1,2,4-TRICHLOROBENZENE		0.414	8.7			10 U	10 U	
1,3-DICHLOROBENZENE		1.754	8.7			10 U	14 JMS	14 *
1,4-DICHLOROBENZENE		1.648	6.5			10 U	10 U	
2-CHLORONAPHTHALENE		1.595	7.8			10 U	120 MS	55
2-CHLOROPHENOL		1.535	10			10 U		
2-FLUOROBIPHENYL		1.799	19.9			10 U	10 U	
2-FLUOROPHENOL		1.289	2.7			10 U	10 U	
2-METHYLNAPHTHALENE		0.686	19.4			10 U	10 U	
2-METHYLPHENOL		1.328	6.3			10 U	50 U	
2-NITROANILINE		0.484	13.1			50 U	50 U	
2-NITROPHENOL		0.256	1.7			10 U	10 U	
2,4-DICHLOROPHENOL		0.355	6.9			10 U	10 U	
2,4-DIMETHYLPHENOL		0.436	1.8			10 U	10 U	
2,4-DINITROPHENOL		0.117	0.8			50 U	50 U	
2,4-DINITROTOLUENE		0.458	16.1			10 U	11 JMS	11 *
2,4,5-TRICHLOROPHENOL		0.564	13.6			50 U	50 U	
2,4,6-TRIBROMOPHENOL		0.215	14.8			10 U	10 U	
2,4,6-TRICHLOROPHENOL		0.572	10.8			10 U	10 U	
2,6-DINITROTOLUENE		0.402	11.1			10 U	10 U	
3-NITROANILINE		0.175	31.8			50 U	50 U	
3,3'-DICHLOROBENZIDINE		0.143	23.8			20 U	20 U	
4-BROMOPHENYL-PHENYLETHER		0.321	10.9			10 U	10 U	
4-CHLORD-3-METHYLPHENOL		0.351	9.6			10 U	120 MS	58
4-CHLOROANILINE		0.471	8			10 U	10 U	
4-CHLOROPHENYL-PHENYLETHER		0.634	23.2			10 U	10 U	
4-METHYLPHENOL		1.363	6.7			10 U	10 U	
4-NITROANILINE		0.118	5.7			50 U	50 U	
4-NITROPHENOL		0.118	2.7			50 U	50 JMS	25
4,6-DINITRO-2-METHYLPHENOL		0.171	2.3			50 U	50 U	
SURR 1(NBZ) %RECOVERY						40	16 *	
SURR 2(FBP) %RECOVERY						41	15 *	
SURR 3(TPH) %RECOVERY						32	26 *	
SURR 4(PHL) %RECOVERY						28	27	
SURR 5(2FP) %RECOVERY						49	49	
SURR 6(TBP) %RECOVERY						46	63	

TABLE D.6.4 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C826

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	BLDG.	MATRIX
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLDG	913	SPIKE
SAMPLE NUMBER	LL0826875	LL0826877	LL0826877	LL0826878		SN005013E	SN005013E
MATRIX						WATER	WATER
UNITS	%	RRF	%	AREA		UG/L	UG/L
ENV PROBLEM NO					2	2	2
M/E 51		41					
M/E 68-1		0					
M/E 68-2		0					
M/E 69		61					
M/E 70-1		0.7					
M/E 70-2		1.1					
M/E 127		42					
M/E 197		0					
M/E 198		100					
M/E 199		6.3					
M/E 275		23					
M/E 365		3.9					
M/E 441		13					
M/E 442		86					
M/E 443-1		16					
M/E 443-2		18					
INTERNAL STD AREA(ANT)				5500000		5730000	5740000
INTERNAL STD AREA(CRY)				3520000		4220000	3020000
INTERNAL STD AREA(DCB)				4150000		3800000	3600000
INTERNAL STD AREA(NPT)				1E+07		1E+07	1E+07
INTERNAL STD AREA(PHN)				6560000		6750000	6550000
INTERNAL STD AREA(PRY)				2570000		3340000	1810000
DILUTION FACTOR					1	1	
ACTUAL(ALLOWED) EXTRACT TIME					8(7 D)	8(7 D)	
AREA	QA	QA	QA				
LOCATION	RPD	MATRIX	SPIKE	MSD %	BLDG.	BLDG.	BLDG.
TYPE OF LOCATION		DUPLICATE	RECOVERY		913	913	913
SAMPLE NUMBER	SN005013E	SN005013E	SN005013E		BLDG 913	BLDG 913	BLDG 913
MATRIX	WATER	WATER	WATER		SN005024E	SN005035E	SN005057E
UNITS	%	UG/L	%		WATER	WATER	WATER
ENV PROBLEM NO	2	2	2		UG/L	UG/L	UG/L
ACENAPHTHENE	23	10 JMS	19 *	10 U	10 U	10 U	10 U

TABLE D.6.4 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C826

DRAFT DO NOT CITE

AREA	QA	QA	QA	BLDG. 913 BLDG 913 SN005024E	BLDG. 913 BLDG 913 SN005035E	BLDG. 913 BLDG 913 SN005057E	ARROYO SECO ARROYOS SN001042E
LOCATION	RPD	MATRIX SPIKE	MSD X DUPLICATE	RECOVERY	WATER	WATER	WATER
TYPE OF LOCATION				%	UG/L	UG/L	UG/L
SAMPLE NUMBER	SN005013E	SN005013E	SN005013E				
MATRIX	WATER	WATER	WATER				
UNITS	%	UG/L	%		UG/L	UG/L	
ENV PROBLEM NO	2	2	2		2	2	1
ACENAPHTHYLENE		10 U		10 U	10 U	10 U	10 U
ANTHRAZENE		10 U		10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE		10 U		10 U	10 U	10 U	10 U
BENZO(A)PYRENE		10 U		10 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE		10 U		10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE		10 U		10 U	10 U	10 U	10 U
BENZO(K)FLUORANTHENE		10 U		10 U	10 U	10 U	10 U
BENZOIC ACID		50 U		50 U	50 U	50 U	50 U
BENZYL ALCOHOL		10 U		10 U	10 U	10 U	10 U
BIS(2-CHLOROETHoxy)METHANE		10 U		10 U	10 U	10 U	10 U
BIS(2-CHLOROISOPROPYL)ETHER		10 U		10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE		75		32	15	10 U	10 U
BUTYL BENZYL PHTHALATE		10 U		10 U	10 U	10 U	10 U
CHRYSENE		10 U		10 U	10 U	10 U	10 U
DI-N-BUTYLPHthalate		1 J		10 U	10 U	10 U	10 U
DI-N-OCTYLPHthalate		10 U		10 U	10 U	10 U	10 U
DIBENZ(A,H)ANTHRACENE		10 U		10 U	10 U	10 U	10 U
DIBENZOFURAN		10 U		10 U	10 U	10 U	10 U
DIETHYLPHthalate		10 U		10 U	10 U	10 U	10 U
DIMETHYLPHthalate		10 U		10 U	10 U	10 U	10 U
FLUORANTHENE		10 U		10 U	10 U	10 U	10 U
FLUORENE		10 U		10 U	10 U	10 U	10 U
HEXACHLOROBENZENE		10 U		10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE		10 U		10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE		10 U		10 U	10 U	10 U	10 U
HEXACHLOROETHANE		10 U		10 U	10 U	10 U	10 U
INDENO(1,2,3-CD)PYRENE		10 U		10 U	10 U	10 U	10 U
ISOPHORONE		10 U		10 U	10 U	10 U	10 U
N-NITROSO-DI-N-PROPYLAMINE	5	19 JMS	18 *	10 U	10 U	10 U	10 U
N-NITROSO-DIPHENYLAMINE		10 U		10 U	10 U	10 U	10 U
NAPHTHALENE		10 U		10 U	10 U	10 U	10 U
NITROBENZENE		10 U		10 U	10 U	10 U	10 U
NITROBENZENE-D5							
PENTACHLOROPHENOL	36	86 JMS	43	50 U	50 U	50 U	50 U
PHENANTHRENE		10 U		10 U	10 U	10 U	10 U
PHENOL	25	20 MS	21	10 U	10 U	10 U	10 U
PHENOL-D5							
PYRENE	15	22 MS	21 *	10 U	10 U	10 U	10 U

TABLE D.6.4 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C826

DRAFT DO NOT CITE

AREA	QA	QA	QA	BLDG. 913 BLDG 913	BLDG. 913 BLDG 913	BLDG. 913 BLDG 913	ARROYO SECO ARROYOS
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	RPD SN005013E WATER %	MATRIX DUPLICATE SN005013E WATER UG/L	MSD % RECOVERY SN005013E WATER %	BLDG. 913 BLDG 913	BLDG. 913 BLDG 913	BLDG. 913 BLDG 913	ARROYO SECO ARROYOS SN001042E WATER UG/L
	2	2	2	2	2	2	1
TERPHENYL-D14							
1,2-DICHLOROBENZENE		10 U		10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	12	18 JMS	17 *	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE		10 U		10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	6	15 JMS	15 *	10 U	10 U	10 U	10 U
2-CHLORONAPHTHALENE		10 U		10 U	10 U	10 U	10 U
2-CHLOROPHENOL		90 MS	40	10 U	10 U	10 U	10 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL		10 U		10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE		10 U		10 U	10 U	10 U	10 U
2-METHYLPHENOL		50 U		50 U	50 U	50 U	50 U
2-NITROANILINE		10 U		10 U	10 U	10 U	10 U
2-NITROPHENOL		10 U		10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL		10 U		10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL		10 U		10 U	10 U	10 U	10 U
2,4-DINITROPHENOL		50 U		50 U	50 U	50 U	50 U
2,4-DINITROTOLUENE	8	13 JMS	12 *	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL		50 U		50 U	50 U	50 U	50 U
2,4,6-TRIBROMOPHENOL		10 U		10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL		10 U		10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE		50 U		50 U	50 U	50 U	50 U
3-NITROANILINE		20 U		20 U	20 U	20 U	20 U
3,3'-DICHLOROBENZIDINE		10 U		10 U	10 U	10 U	10 U
4-BROMOPHENYL-PHENYLETHER		10 U		10 U	10 U	10 U	10 U
4-CHLORO-3-METHYLPHENOL	23	95 MS	46	10 U	10 U	10 U	10 U
4-CHLOROANILINE		10 U		10 U	10 U	10 U	10 U
4-CHLOROPHENYL-PHENYLETHER		10 U		10 U	10 U	10 U	10 U
4-METHYLPHENOL		10 U		10 U	2 J	10 U	10 U
4-NITROANILINE		50 U		50 U	50 U	50 U	50 U
4-NITROPHENOL	200 *	50 UMS	0 *	50 U	50 U	50 U	50 U
4,6-DINITRO-2-METHYLPHENOL		50 U		50 U	50 U	50 U	50 U
SURR 1(NBZ) %RECOVERY		16 *		11 *	6 *	50	39
SURR 2(FBP) %RECOVERY		18 *		13 *	7 *	46	40 *
SURR 3(TPH) %RECOVERY		24 *		12 *	10 *	70	68
SURR 4(PHL) %RECOVERY		22		55	25	10	8 *
SURR 5(2FP) %RECOVERY		36		65	47	45	41
SURR 6(TBP) %RECOVERY		47		1 *	41	52	41

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DRAFT DO NOT CITE

TABLE D.6.4 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C826

AREA	QA	QA	QA	BLDG. 913	BLDG. 913	BLDG. 913	ARROYO SECO
LOCATION	RPD	MATRIX SPIKE	MSD X	BLDG. 913	BLDG. 913	BLDG. 913	ARROYOS
TYPE OF LOCATION		DUPLICATE	RECOVERY	BLDG 913	SN005035E	SN005057E	SN001042E
SAMPLE NUMBER	SN005013E	SN005013E	SN005013E	SN005024E	WATER	WATER	WATER
MATRIX	WATER	WATER	WATER	WATER	UG/L	UG/L	UG/L
UNITS	X	UG/L	X	UG/L	2	2	1
ENV PROBLEM NO		2	2				
M/E 68-1							
M/E 68-2							
M/E 69							
M/E 70-1							
M/E 70-2							
M/E 127							
M/E 197							
M/E 198							
M/E 199							
M/E 275							
M/E 365							
M/E 441							
M/E 442							
M/E 443-1							
M/E 443-2							
INTERNAL STD AREA(ANT)		5280000		5240000	4840000	5750000	5740000
INTERNAL STD AREA(CRY)		2660000		2570000	2920000	4210000	2950000
INTERNAL STD AREA(DCB)		3560000		1060000	3400000	3440000	3660000
INTERNAL STD AREA(NPT)			1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PHN)		5880000		5560000	5250000	6760000	6810000
INTERNAL STD AREA(PRY)		2100000		1900000	2370000	3340000	2200000
DILUTION FACTOR			1				
ACTUAL(ALLOWED) EXTRACT TIME		8(7 D)	1	7(7 D)	1	6(7 D)	1
AREA	QA			7(7 D)	1	7(7 D)	1
LOCATION	METHOD						
TYPE OF LOCATION	BLANK						
SAMPLE NUMBER	SBKC826						
MATRIX	WATER						
UNITS	UG/L						
ENV PROBLEM NO							
ACENAPHTHENE	10 U						
ACENAPHTHYLENE	10 U						

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TABLE D.6.4 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C826

DRAFT DO NOT CITE

AREA	QA
LOCATION	METHOD
TYPE OF LOCATION	BLANK
SAMPLE NUMBER	SBKC826
MATRIX	WATER
UNITS	UG/L
ENV PROBLEM NO	
ANTHRACENE	10 U
BENZO(A)ANTHRACENE	100 U
BENZO(A)PYRENE	100 U
BENZO(B)FLUORANTHENE	100 U
BENZO(G,H,I)PERYLENE	100 U
BENZO(K)FLUORANTHENE	100 U
BENZOIC ACID	50 U
BENZYL ALCOHOL	100 U
BIS(2-CHLOROETHOXY)METHANE	100 U
BIS(2-CHLOROISOPROPYL)ETHER	100 U
BIS(2-CHLOROETHYL)ETHER	100 U
BIS(2-ETHYLHEXYL)PHTHALATE	100 U
BUTYLBENZYLPHthalate	100 U
CHRYSENE	1000 U
DI-N-BUTYLPHthalate	100 U
DI-N-OCTYLPHthalate	100 U
DIBENZ(A,H)ANTHRACENE	100 U
DIBENZOFURAN	100 U
DIETHYLPHthalate	100 U
DIMETHYLPHthalate	100 U
FLUORANTHENE	100 U
FLUORENE	100 U
HEXACHLOROBENZENE	100 U
HEXACHLOROBUTADIENE	100 U
HEXACHLOROCYCLOPENTADIENE	100 U
HEXACHLOROETHANE	100 U
INDENO(1,2,3-CD)PYRENE	100 U
ISOPHORONE	100 U
N-NITROSO-DI-N-PROPYLAMINE	100 U
N-NITROSODIPHENYLAMINE	100 U
NAPHTHALENE	100 U
NITROBENZENE	10 U
NITROBENZENE-D5	50 U
PENTACHLOROPHENOL	100 U
PHENANTHRENE	10 U
PHENOL	10 U
PHENOL-D5	10 U
PYRENE	10 U
TERPHENYL-D14	

TABLE D.6.4 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C826

DRAFT DO NOT CITE

AREA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	METHOD BLANK SBKC826 WATER UG/L
1,2-DICHLOROBENZENE	10 U
1,2,4-TRICHLOROBENZENE	10 U
1,3-DICHLOROBENZENE	10 U
1,4-DICHLOROBENZENE	10 U
2-CHLORONAPHTHALENE	10 U
2-CHLOROPHENOL	10 U
2-FLUOROBIPHENYL	10 U
2-FLUOROPHENOL	10 U
2-METHYLNAPHTHALENE	10 U
2-METHYLPHENOL	10 U
2-NITROANILINE	50 U
2-NITROPHENOL	10 U
2,4-DICHLOROPHENOL	10 U
2,4-DIMETHYLPHENOL	10 U
2,4-DINITROPHENOL	50 U
2,4-DINITROTOLUENE	10 U
2,4,5-TRICHLOROPHENOL	50 U
2,4,6-TRIBROMOPHENOL	10 U
2,4,6-TRICHLOROPHENOL	10 U
2,6-DINITROTOLUENE	10 U
3-NITROANILINE	50 U
3,3'-DICHLOROBENZIDINE	20 U
4-BROMOPHENYL-PHENYLETHER	10 U
4-CHLORO-3-METHYLPHENOL	10 U
4-CHLOROANILINE	10 U
4-CHLOROPHENYL-PHENYLETHER	10 U
4-METHYLPHENOL	10 U
4-NITROANILINE	50 U
4-NITROPHENOL	50 U
4,6-DINITRO-2-METHYLPHENOL	50 U
SURR 1(NBZ) %RECOVERY	83
SURR 2(FBP) %RECOVERY	76
SURR 3(TPH) %RECOVERY	103
SURR 4(PHL) %RECOVERY	32
SURR 5(2FP) %RECOVERY	75
SURR 6(TBP) %RECOVERY	86

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TABLE D.6.4 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C826

DRAFT DO NOT CITE

AREA	QA
LOCATION	METHOD
TYPE OF LOCATION	BLANK
SAMPLE NUMBER	SBKC826
MATRIX	WATER
UNITS	UG/L
ENV PROBLEM NO	
M/E 68-1	
M/E 68-2	
M/E 69	
M/E 70-1	
M/E 70-2	
M/E 127	
M/E 197	
M/E 198	
M/E 199	
M/E 275	
M/E 365	
M/E 441	
M/E 442	
M/E 443-1	
M/E 443-2	
INTERNAL STD AREA(ANT)	6730000
INTERNAL STD AREA(CRY)	5070000
INTERNAL STD AREA(DCB)	4090000
INTERNAL STD AREA(NPT)	1E+07
INTERNAL STD AREA(PHN)	8520000
INTERNAL STD AREA(PRY)	3520000
DILUTION FACTOR	1
ACTUAL(ALLOWED) EXTRACT TIME	

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TABLE D.6.5 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C827

DRAFT DO NOT CITE

AREA	QA ISTD SHIFT LL0827878	QA RET TIM CALIBRATION LL0827875	QA TUNED CALIBRATION LL0827877	QA CONTINUING CALIBRATION LL0827877	QA CONTINUING CAL ZD LL0827877	BLDG. 222 SEWERS LL912032A	BLDG. 151 SEWERS LL012055A	BLDG. 222 SEWERS LL012146A
	AREA	%	RRF	%		WATER UG/L 2	WATER UG/L 2	WATER UG/L 2
ACENAPHTHENE				1.418	8.1	10 U	10 U	10 U
ACENAPHTHYLENE				2.249	24	10 U	10 U	10 U
ANTHRACENE				1.29	13.5	10 U	10 U	10 U
BENZO(A)ANTHRACENE				1.332	8.4	10 U	10 U	10 U
BENZO(A)PYRENE				1.519	1.6	10 U	10 U	10 U
BENZO(B)FLUORANTHENE				1.79	1.9	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE				1.343	0.3	10 U	10 U	10 U
BENZO(K)FLUORANTHENE				1.724	1.7	10 U	10 U	10 U
BENZOIC ACID				0.186	5.1	13 J	63	78
BENZYL ALCOHOL				0.718	16.3	10 U	10 U	10 U
BIS(2-CHLOROETHoxy)METHANE				0.633	15.5	10 U	10 U	10 U
BIS(2-CHLOROISOPROPYL)ETHER				2.445	32.2	10 U	10 U	10 U
BIS(2-CHLOROETHYL)ETHER				1.477	5.3	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE				1.071	2.1	27 B	7 JB	57
BUTYLBENZLPHTHALATE				0.761	7.8	10 U	10 U	10 U
CHRYSENE				1.282	5	10 U	10 U	10 U
DI-N-BUTYLPHTHALATE				1.473	40.1	10 U	10 U	10 U
DI-N-OCTYLPHTHALATE				2.358	11.1	10 U	10 U	10 U
DIBENZ(A,H)ANTHRACENE				1.217	4.9	10 U	10 U	10 U
DIBENZOFURAN				1.982	26.8	10 U	10 U	10 U
DIETHYLPHthalate				1.447	13.5	10 U	10 U	10 U
DIMETHYLPHthalate				1.83	12.3	10 U	10 U	10 U
FLUORANTHENE				1.123	30.8	10 U	10 U	10 U
FLUORENE				1.365	17.9	10 U	10 U	10 U
HEXACHLOROBENZENE				0.379	16.5	10 U	10 U	10 U
HEXACHLOROBUTADIENE				0.244	21.3	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE				0.541	9.9	10 U	10 U	10 U
HEXACHLOROETHANE				0.746	2.1	10 U	10 U	10 U
INDENO(1,2,3-CD)PYRENE				1.343	5.4	10 U	10 U	10 U
ISOPHORONE				1.079	36.5	10 U	10 U	10 U
N-NITROSO-DI-N-PROPYLAMINE				1.375	15.7	10 U	10 U	10 U
N-NITROSDIPHENYLAMINE				0.698	4.1	10 U	10 U	10 U
NAPHTHALENE				1.08	26	10 U	10 U	10 U
NITROBENZENE				0.529	6.7	10 U	10 U	10 U
NITROBENZENE-D5				0.466	1.2			
PENTACHLOROPHENOL				0.202	15.2	50 U	50 U	50 U
PHENANTHRENE				1.285	10.5	10 U	10 U	10 U
PHENOL				1.951	3.3	10 U	10 U	10 U
PHENOL-D5				1.846	0.7			

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TABLE D.6.5 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C827

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	BLDG. 222 SEWERS LL912032A WATER UG/L 2	BLDG. 151 SEWERS LL012055A WATER UG/L 2	BLDG. 222 SEWERS LL012146A WATER UG/L 2	
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ISTD SHIFT LL0827878	RET TIM CALIBRATION LL0827875	TUNED CALIBRATION LL0827877	CONTINUING CAL %D LL0827877	CONTINUING CAL %D LL0827877	BLDG. 222 SEWERS LL912032A WATER UG/L 2	BLDG. 151 SEWERS LL012055A WATER UG/L 2	BLDG. 222 SEWERS LL012146A WATER UG/L 2
PYRENE				1.725	11.1	10 U	10 U	10 U
TERPHENYL-D14				0.989	1.6			
1,2-DICHLOROBENZENE				1.672	9.4	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE				0.408	7.2	10 U	10 U	10 U
1,3-DICHLOROBENZENE				1.732	7.3	10 U	10 U	10 U
1,4-DICHLOROBENZENE				1.596	3.1	10 U	10 U	10 U
2-CHLORONAPHTHALENE				1.594	7.7	10 U	10 U	10 U
2-CHLOROPHENOL				1.481	6.1	10 U	10 U	10 U
2-FLUOROBIPHENYL				1.727	15.1			
2-FLUOROPHENOL				1.235	6.8			
2-METHYLNAPHTHALENE				0.656	14.1	10 U	10 U	10 U
2-METHYLPHENOL				1.309	4.8	10 U	10 U	10 U
2-NITROANILINE				0.489	14.3	50 U	50 U	50 U
2-NITROPHENOL				0.263	4.5	10 U	10 U	10 U
2,4-DICHLOROPHENOL				0.351	5.7	10 U	10 U	10 U
2,4-DIMETHYLPHENOL				0.435	1.7	10 U	10 U	10 U
2,4-DINITROPHENOL				0.157	32.9	50 U	50 U	50 U
2,4-DINITROTOLUENE				0.441	11.8	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL				0.545	9.9	50 U	50 U	50 U
2,4,6-TRIBROMOPHENOL				0.214	14.5			
2,4,6-TRICHLOROPHENOL				0.553	7.1	10 U	10 U	10 U
2,6-DINITROTOLUENE				0.395	9.1	10 U	10 U	10 U
3-NITROANILINE				0.199	22.4	50 U	50 U	50 U
3,3'-DICHLOROBENZIDINE				0.173	49.1	20 U	20 U	20 U
4-BROMOPHENYL-PHENYLETHER				0.321	10.9	10 U	10 U	10 U
4-CHLORO-3-METHYLPHENOL				0.331	3.3	10 U	10 U	10 U
4-CHLOROANILINE				0.485	11.3	10 U	10 U	10 U
4-CHLOROPHENYL-PHENYLETHER				0.639	24.1	10 U	10 U	10 U
4-METHYLPHENOL				1.417	10.9	2 J	13	25
4-NITROANILINE				0.121	8.1	50 U	50 U	50 U
4-NITROPHENOL				0.106	7.7	50 U	50 U	50 U
4,6-DINITRO-2-METHYLPHENOL				0.193	15.6	50 U	50 U	50 U
SURR 1(NBZ) %RECOVERY						15 *	9 *	25 *
SURR 2(FBP) %RECOVERY						16 *	8 *	28 *
SURR 3(TPH) %RECOVERY						30 *	20 *	46
SURR 4(PHL) %RECOVERY						13 J	18	23
SURR 5(2FP) %RECOVERY						21	28	36
SURR 6(TBP) %RECOVERY						24	68	65

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TABLE D.6.5 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C827

DRAFT DO NOT CITE

AREA	QA SHIFT LL0827878	QA TUNED LL0827875	QA CALIBRATION LL0827877	CONTINUING CAL XD LL0827877	CONTINUING CAL XD LL0827877	BLDG. 222 SEWERS LL912032A	BLDG. 151 SEWERS LL012055A	BLDG. 222 SEWERS LL012146A
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	AREA	X	RRF	X		WATER UG/L 2	WATER UG/L 2	WATER UG/L 2

M/E 51	51
M/E 68-1	0
M/E 68-2	0
M/E 69	0
M/E 70-1	64
M/E 70-2	0.5
M/E 127	0.8
M/E 197	43
M/E 198	0
M/E 199	100
M/E 275	6.8
M/E 365	23
M/E 441	2.5
M/E 442	9.4
M/E 443-1	58
M/E 443-2	11
	19

INTERNAL STD AREA(ANT)	5100000	6650000	5510000	5630000
INTERNAL STD AREA(CRY)	3860000	2670000	2820000	3550000
INTERNAL STD AREA(DCB)	3740000	4500000	3630000	3480000
INTERNAL STD AREA(NPT)	1E+07	2E+07	1E+07	1E+07
INTERNAL STD AREA(PHN)	6230000	7440000	5730000	6950000
INTERNAL STD AREA(PRY)	2640000	3490000	2740000	3290000

DILUTION FACTOR		1	1	1
ACTUAL(ALLOWED) EXTRACT TIME		14(7 D)	14(7 D)	14(7 D)

AREA	BLDG. 241 SEWERS LL012179A	BLDG. 241 SEWERS LL012179A	BLDG. 241 SEWERS LL012179A
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	WATER UG/L 2	WATER UG/L 2	WATER UG/L 2

ACENAPHTHENE	10 U		
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TABLE D.6.5 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C827

DRAFT DO NOT CITE

## AREA

LOCATION	BLDG. 241
TYPE OF LOCATION	SEWERS
SAMPLE NUMBER	LL012179A
MATRIX	WATER
UNITS	UG/L
ENV PROBLEM NO	2
ACENAPHTHYLENE	10 U
ANTHRACENE	10 U
BENZO(A)ANTHRACENE	10 U
BENZO(A)PYRENE	10 U
BENZO(B)FLUORANTHENE	10 U
BENZO(G,H,I)PERYLENE	10 U
BENZO(K)FLUORANTHENE	10 U
BENZOIC ACID	139
BENZYL ALCOHOL	10 U
BIS(2-CHLOROETHOXY)METHANE	10 U
BIS(2-CHLOROISOPROPYL)ETHER	10 U
BIS(2-CHROETHYL)ETHER	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	25
BUTYLBENZYLPHthalate	10 U
CHRYSENE	10 U
DI-N-BUTYLPHthalate	10 U
DI-N-OCTYLPHthalate	10 U
DIBENZA(A,H)ANTHRACENE	10 U
DIBENZOFURAN	10 U
DIETHYLPHthalate	10 U
DIMETHYLPHthalate	10 U
FLUORANTHENE	10 U
FLUORENE	10 U
HEXACHLOROBENZENE	10 U
HEXACHLOROBUTADIENE	10 U
HEXACHLOROCYCLOPENTADIENE	10 U
HEXACHLOROETHANE	10 U
INDENO(1,2,3-CD)PYRENE	10 U
ISOPHORONE	10 U
N-NITROSO-DI-N-PROPYLAMINE	10 U
N-NITROSODIPHENYLAMINE	10 U
NAPHTHALENE	10 U
NITROBENZENE	10 U
NITROBENZENE-D5	
PENTACHLOROPHENOL	50 U
PHENANTHRENE	10 U
PHENOL	3 J
PHENOL-D5	
PYRENE	10 U

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TABLE D.6.5 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C827

DRAFT DO NOT CITE

## AREA

LOCATION	BLDG. 241
TYPE OF LOCATION	SEWERS
SAMPLE NUMBER	LL012179A
MATRIX	WATER
UNITS	UG/L
ENV PROBLEM NO	2

TERPHENYL-D14	
1,2-DICHLOROBENZENE	10 U
1,2,4-TRICHLOROBENZENE	10 U
1,3-DICHLOROBENZENE	10 U
1,4-DICHLOROBENZENE	10 U
2-CHLORONAPHTHALENE	10 U
2-CHLOROPHENOL	10 U
2-FLUOROBIPHENYL	
2-FLUOROPHENOL	
2-METHYLNAPHTHALENE	10 U
2-METHYLPHENOL	10 U
2-NITROANILINE	50 U
2-NITROPHENOL	10 U
2,4-DICHLOROPHENOL	10 U
2,4-DIMETHYLPHENOL	10 U
2,4-DINITROPHENOL	50 U
2,4-DINITROTOLUENE	10 U
2,4,5-TRICHLOROPHENOL	50 U
2,4,6-TRIBROMOPHENOL	
2,4,6-TRICHLOROPHENOL	10 U
2,6-DINITROTOLUENE	10 U
3-NITROANILINE	50 U
3,3'-DICHLOROBENZIDINE	20 U
4-BROMOPHENYL-PHENYLETHER	10 U
4-CHLORO-3-METHYLPHENOL	10 U
4-CHLOROANILINE	10 U
4-CHLOROPHENYL-PHENYLETHER	10 U
4-METHYLPHENOL	40 U
4-NITROANILINE	50 U
4-NITROPHENOL	50 U
4,6-DINITRO-2-METHYLPHENOL	50 U

SURR 1(NBZ) XRECOVERY	14 X
SURR 2(FBP) XRECOVERY	14 X
SURR 3(TPH) XRECOVERY	20 X
SURR 4(PHL) XRECOVERY	23
SURR 5(2FP) XRECOVERY	35
SURR 6(TBP) XRECOVERY	43

M/E 51

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TABLE D.6.5 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: C827

DRAFT DO NOT CITE

## AREA

LOCATION	BLDG. 241
TYPE OF LOCATION	SEWERS
SAMPLE NUMBER	LL012179A
MATRIX	WATER
UNITS	UG/L
ENV PROBLEM NO	2

M/E 68-1  
M/E 68-2  
M/E 69  
M/E 70-1  
M/E 70-2  
M/E 127  
M/E 197  
M/E 198  
M/E 199  
M/E 275  
M/E 365  
M/E 441  
M/E 442  
M/E 443-1  
M/E 443-2

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INTERNAL STD AREA(ANT)	5070000
INTERNAL STD AREA(CRY)	3350000
INTERNAL STD AREA(DCB)	3390000
INTERNAL STD AREA(NPT)	1E+07
INTERNAL STD AREA(PHN)	5770000
INTERNAL STD AREA(PRY)	2980000

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DILUTION FACTOR	1
ACTUAL(ALLOWED) EXTRACT TIME	14(7 D)

TABLE D.6.6 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: DD20

DRAFT DO NOT CITE

AREA	QA RRF	QA X	QA X	QA TUNED CALIBRATION LL1220875	ISTD RET TIM SHIFT LL1220878	AREA
LOCATION	INITIAL CAL RRF	INITIAL CAL X RSD	TUNED CALIBRATION	ISTD RET TIM SHIFT		
TYPE OF LOCATION	LL1220876	LL1220876	LL1220875	LL1220878		
SAMPLE NUMBER						
MATRIX						
UNITS						
ENV PROBLEM NO						
ACENAPHTHENE	1.058	16.3				
ACENAPHTHYLENE	1.315	32.4				
ANTHRACENE	0.81	22.4				
BENZO(A)ANTHRACENE	1.057	7.1				
BENZO(A)PYRENE	1.093	3.4				
BENZO(B)FLUORANTHENE	1.441	6.4				
BENZO(G,H,I)PERYLENE	0.779	4.3				
BENZO(K)FLUORANTHENE	0.982	8.6				
BENZOIC ACID	0.249	5.1				
BENZYL ALCOHOL	0.777	8.3				
BIS(2-CHLOROETHOXY)METHANE	0.499	11.4				
BIS(2-CHLOROISOPROPYL)ETHER	2.411	15.2				
BIS(2-CHOROETHYL)ETHER	1.615	8.8				
BIS(2-ETHYLHEXYL)PHTHALATE	0.847	10.8				
BUTYLBENZYL PHTHALATE	0.714	8.5				
CHRYSENE	0.97	13.6				
DI-N-BUTYL PHTHALATE	0.975	34.2				
DI-N-OCTYL PHTHALATE	1.419	21.2				
DIBENZ(A,H)ANTHRACENE	0.735	2.8				
DIBENZOFURAN	1.352	22				
DIETHYL PHTHALATE	1.075	55				
DIMETHYL PHTHALATE	1.43	13.5				
FLUORANTHENE	0.893	20.4				
FLUORENE	1.127	14.7				
HEXA CHLOROBENZENE	0.33	14.6				
HEXA CHLOROBUTADIENE	0.237	17.6				
HEXA CHLOROCYCLOPENTADIENE	0.303	13.5				
HEXA CHLOROETHANE	0.625	15.8				
INDENO(1,2,3-CD)PYRENE	0.827	2.6				
ISOPHORONE	0.917	7.6				
N-NITRO-DI-N-PROPYLAMINE	1.081	12.2				
N-NITROSODIPHENYLAMINE	0.381	20.2				
NAPHTHALENE	0.851	31.7				
NITROBENZENE	0.457	11.6				
NITROBENZENE-D5	0.424	6.9				
PENTACHLOROPHENOL	0.196	11.9				
PHENANTHRENE	0.855	20.7				
PHENOL	1.658	20.4				
PHENOL-D5	1.383	9.2				

TABLE D.6.6 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: DD20

DRAFT DO NOT CITE

AREA	QA RRF	QA % RSD	QA CALIBRATION	QA ISTD SHIFT
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	INITIAL CAL LL1220876	INITIAL CAL LL1220876	TUNED CALIBRATION LL1220875	RET TIM LL1220878
	RRF	%	%	AREA
PYRENE	1.317	13.7		
TERPHENYL-D14	0.794	12.1		
1,2-DICHLOROBENZENE	1.452	15.9		
1,2,4-TRICHLOROBENZENE	0.402	17.5		
1,3-DICHLOROBENZENE	1.386	14.5		
1,4-DICHLOROBENZENE	1.39	14.1		
2-CHLORONAPHTHALENE	1.11	20.3		
2-CHLOROPHENOL	1.076	18.6		
2-FLUOROBIPHENYL	1.112	19.3		
2-FLUOROPHENOL	0.99	7.1		
2-METHYLNAPHTHALENE	0.617	18		
2-METHYLPHENOL	1.027	10.9		
2-NITROANILINE	0.427	8.9		
2-NITROPHENOL	0.235	6.9		
2,4-DICHLOROPHENOL	0.339	14.1		
2,4-DIMETHYLPHENOL	0.365	5.6		
2,4-DINITROPHENOL	0.194	7.6		
2,4-DINITROTOLUENE	0.487	11.6		
2,4,5-TRICHLOROPHENOL	0.444	15.4		
2,4,6-TRIBROMOPHENOL	0.189	11.1		
2,4,6-TRICHLOROPHENOL	0.454	12.1		
2,6-DINITROTOLUENE	0.366	15.5		
3-NITROANILINE	0.428	8.2		
3,3'-DICHLOROBENZIDINE	0.118	6.8		
4-BROMOPHENYL-PHENYLETHER	0.273	15		
4-CHLORO-3-METHYLPHENOL	0.382	6		
4-CHLOROANILINE	0.229	56.1		
4-CHLOROPHENYL-PHENYLETHER	0.566	22.6		
4-METHYLPHENOL	1.074	11.9		
4-NITROANILINE	0.128	20.1		
4-NITROPHENOL	0.149	8.9		
4,6-DINITRO-2-METHYLPHENOL	0.168	4.2		
M/E 51			47	
M/E 68-1			0	
M/E 68-2			0	
M/E 69			60	
M/E 70-1			2.4	
M/E 70-2			4	

TABLE D.6.6 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: DD20

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	ISTD RET TIM	
TYPE OF LOCATION	RRF	X RSD	CALIBRATION	SHIFT	
SAMPLE NUMBER	LL1220876	LL1220876	LL1220875	LL1220878	
MATRIX					
UNITS	RRF	X	X	AREA	
ENV PROBLEM NO					
M/E 127				44	
M/E 197				0	
M/E 198				100	
M/E 199				6.7	
M/E 275				23	
M/E 365				2.7	
M/E 441				14	
M/E 442				93	
M/E 443-1				19	
M/E 443-2				20	
INTERNAL STD AREA(ANT)				1E+07	
INTERNAL STD AREA(CRY)				1E+07	
INTERNAL STD AREA(DCB)				4810000	
INTERNAL STD AREA(NPT)				2E+07	
INTERNAL STD AREA(PHN)				2E+07	
INTERNAL STD AREA(PRY)				8500000	
DILUTION FACTOR				0	
ACTUAL(ALLOWED) EXTRACT TIME					

TABLE D.6.7 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D105

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0105885	QA CONTINUING CALIBRATION LL0105887	QA CONTINUING CAL %D LL0105887	QA ISTD RET TIM SHIFT LL0105888	BLDG. 222 SEWERS LL912021A	BLDG. 322 SEWERS LL012271A	BLDG. 511 SEWERS LL012317A
	%	RRF	%	AREA	UG/L 2	UG/L 2	UG/L 2
ACENAPHTHENE		1.164	10		13 U	13 U	13 U
ACENAPHTHYLENE		1.798	36.8		13 U	13 U	13 U
ANTHRACENE		1.031	27.3		13 U	13 U	13 U
BENZO(A)ANTHRACENE		1.103	4.3		13 U	13 U	13 U
BENZO(A)PYRENE		1.098	0.4		13 U	13 U	13 U
BENZO(B)FLUORANTHENE		1.423	1.2		13 U	13 U	13 U
BENZO(G,H,I)PERYLENE		0.762	2.1		13 U	13 U	13 U
BENZO(K)FLUORANTHENE		1.053	7.2		13 U	13 U	13 U
BENZOIC ACID		0.22	11.6		65 U	65 U	93 U
BENZYL ALCOHOL		0.082	89.4		13 U	13 U	13 U
BIS(2-CHLOROETHOXY)METHANE		0.506	1.4		13 U	13 U	13 U
BIS(2-CHLOROISOPROPYL)ETHER		2.606	8.1		13 U	13 U	13 U
BIS(2-CHOROETHYL)ETHER		1.586	1.8		13 U	13 U	13 U
BIS(2-ETHYLHEXYL)PHTHALATE		1.035	22.3		58 B	21 B	84 B
BUTYLBENZYLPHthalate		0.938	31.2		2 JB	13 U	13 U
CHRYSENE		0.981	1.1		13 U	13 U	13 U
DI-N-BUTYLPHthalate		1.266	29.9		13 U	13 U	13 U
DI-N-OCTYLPHthalate		2.481	74.9		13 U	13 U	13 U
DIBENZ(A,H)ANTHRACENE		0.694	5.6		13 U	13 U	13 U
DIBENZOFURAN		1.766	30.7		13 U	13 U	13 U
DIETHYLPHthalate		1.578	46.8		1 J	13 U	3
DIMETHYLPHthalate		1.489	4.1		13 U	13 U	13 U
FLUORANTHENE		1.046	17.2		13 U	13 U	13 U
FLUORENE		1.339	18.7		13 U	13 U	13 U
HEXACHLOROBENZENE		0.342	3.7		13 U	13 U	13 U
HEXACHLOROBUTADIENE		0.257	8.3		13 U	13 U	13 U
HEXACHLOROCYCLOPENTADIENE		0.278	8.1		13 U	13 U	13 U
HEXACHLOROETHANE		0.717	14.6		13 U	13 U	13 U
INDENO(1,2,3-CD)PYRENE		0.746	9.7		13 U	13 U	13 U
ISOPHORONE		0.909	0.8		13 U	13 U	13 U
N-NITROSO-DI-N-PROPYLAMINE		1.184	9.6		13 U	13 U	13 U
N-NITROSODIPHENYLAMINE		0.456	19.5		13 U	13 U	13 U
NAPHTHALENE		1.088	27.7		13 U	13 U	13 U
NITROBENZENE		0.459	0.5		13 U	13 U	13 U
NITROBENZENE-D5		0.439	3.6		65 U	65 U	65 U
PENTACHLOROPHENOL		0.154	21.4		13 U	13 U	13 U
PHENANTHRENE		1.107	29.5		13 U	13 U	13 U
PHENOL		1.491	10.1		13 U	13 U	13 U
PHENOL-D5		1.465	5.9				

TABLE D.6.7 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D105

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0105885	QA CONTINUING CALIBRATION LL0105887	QA CONTINUING CAL XD LL0105887	QA ISTD RET SHIFT 222 SEWERS LL912021A	BLDG. 322 SEWERS LL012271A	BLDG. 511 SEWERS LL012317A
	%	RRF	%	AREA UG/L 2	WATER UG/L 2	WATER UG/L 2
PYRENE		1.917	45.5		13 U	13 U
TERPHENYL-D14		0.996	25.4		13 U	13 U
1,2-DICHLOROBENZENE		1.47	1.3		13 U	13 U
1,2,4-TRICHLOROBENZENE		0.392	2.6		13 U	13 U
1,3-DICHLOROBENZENE		1.436	3.6		13 U	13 U
1,4-DICHLOROBENZENE		1.672	5.9		13 U	13 U
2-CHLORONAPHTHALENE		1.185	6.7		13 U	13 U
2-CHLOROPHENOL		1.329	23.4		13 U	13 U
2-FLUOROBIPHENYL		1.215	9.2		13 U	13 U
2-FLUOROPHENOL		1.03	4		13 U	13 U
2-METHYLNAPHTHALENE		0.767	24.4		13 U	13 U
2-METHYLPHENOL		1.101	7.2		13 U	13 U
2-NITROANILINE		0.449	5.1		65 U	65 U
2-NITROPHENOL		0.227	3.6		13 U	13 U
2,4-DICHLOROPHENOL		0.356	5.2		13 U	13 U
2,4-DIMETHYLPHENOL		0.311	14.8		13 U	13 U
2,4-DINITROPHENOL		0.124	35.9		65 U	65 U
2,4-DINITROTOLUENE		0.498	2.2		13 U	13 U
2,4,5-TRICHLOROPHENOL		0.456	2.8		65 U	65 U
2,4,6-TRIBROMOPHENOL		0.137	27.5		13 U	13 U
2,4,6-TRICHLOROPHENOL		0.379	16.5		13 U	13 U
2,6-DINITROTOLUENE		0.334	8.8		13 U	13 U
3-NITROANILINE		0.425	0.6		65 U	65 U
3,3'-DICHLOROBENZIDINE		0.088	25.3		25 U	25 U
4-BROMOPHENYL-PHENYLETHER		0.257	5.7		13 U	13 U
4-CHLORO-3-METHYLPHENOL		0.389	1.9		13 U	13 U
4-CHLOROANILINE		0.104	54.5		13 U	13 U
4-CHLOROPHENYL-PHENYLETHER		0.648	14.5		13 U	13 U
4-METHYLPHENOL		1.139	6.1		13 U	13 U
4-NITROANILINE		0.074	41.9		65 U	65 U
4-NITROPHENOL		0.151	1.1		65 U	65 U
4,6-DINITRO-2-METHYLPHENOL		0.11	34.3		65 U	65 U
SURR 1(NBZ) %RECOVERY				30 *	28 *	15 *
SURR 2(FBP) %RECOVERY				45	43	34 *
SURR 3(TPH) %RECOVERY				87	112	106
SURR 4(PHL) %RECOVERY				41	19	51
SURR 5(2FP) %RECOVERY				53	6 *	61
SURR 6(TBP) %RECOVERY				126 *	66	203 *

TABLE D.6.7 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D105

DRAFT DO NOT CITE

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AREA	QA	QA	QA	QA	ISTD	RET	TIM	BLDG.	222	BLDG.	322	BLDG.	511
LOCATION	TUNED	CONTINUING	CONTINUING	CAL	SHIFT	SEWERS							
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	LL0105887	LL0105888	LL912021A	LL012271A	LL012317A	LL012317A	LL012317A	LL012317A	LL012317A	
SAMPLE NUMBER	LL0105885	LL0105887	LL0105887										
MATRIX													
UNITS	%	RRF	%		AREA			UG/L	2	UG/L	2	UG/L	
ENV PROBLEM NO													
M/E 51		48											
M/E 68-1		0											
M/E 68-2		0											
M/E 69		57											
M/E 70-1		0.7											
M/E 70-2		1.2											
M/E 127		45											
M/E 197		0											
M/E 198		100											
M/E 199		7.2											
M/E 275		23											
M/E 365		2.8											
M/E 441		14											
M/E 442		94											
M/E 443-1		18											
M/E 443-2		19											
INTERNAL STD AREA(ANT)					6050000			5040000		5510000			
INTERNAL STD AREA(CRY)					5570000			3740000		4430000			
INTERNAL STD AREA(DCB)					2890000			2410000		2580000			
INTERNAL STD AREA(NPT)					9950000			8870000		9900000			
INTERNAL STD AREA(PHN)					1E+07			8270000		9470000			
INTERNAL STD AREA(PRY)					3030000			1950000		2310000			
DILUTION FACTOR						1.25							
ACTUAL(ALLOWED) EXTRACT TIME						4(7 D)		7(7 D)		4(7 D)			
AREA	QA	QA	QA	QA	QA	QA	QA	QA	QA	QA	QA	QA	
LOCATION	MATRIX	MS %	RECOVERY	RPD	MATRIX	SPIKE	MSD %	RECOVERY	BLDG.	511	BLDG.	241	
TYPE OF LOCATION	SPIKE	LL012317A	LL012317A	LL012317A	DUPLICATE	LL012317A	LL012317A	LL012317A	SEWERS	SEWERS	SEWERS	SEWERS	
SAMPLE NUMBER	LL012317A				WATER	WATER	WATER	WATER	LL012680A	LL012680A	LL012680A	LL012680A	
MATRIX	WATER		WATER		%	%	%	%	WATER	WATER	WATER	WATER	
UNITS	UG/L		UG/L		2	2	2	2	UG/L	2	2	UG/L	
ENV PROBLEM NO	2	2	2	2								2	
ACENAPHTHENE		54 MS	43 *	27		71 MS	57		13 U		13 U		

TABLE D.6.7 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D105

DRAFT DO NOT CITE

AREA	QA MATRIX SPIKE LL012317A	QA MS % RECOVERY LL012317A	QA RPD WATER	QA DUPLICATE LL012317A	QA MSD % RECOVERY LL012317A	BLDG. 511 SEWERS LL012680A	BLDG. 241 SEWERS LL012168A
LOCATION	TYPE OF LOCATION	SAMPLE NUMBER	UNITS	UNITS	UNITS	UNITS	UNITS
			UG/L	UG/L	%	UG/L	UG/L
ACENAPHTHYLENE		13 U			13 U	13 U	13 U
ANTHRACENE		13 U			13 U	13 U	13 U
BENZO(A)ANTHRACENE		13 U			13 U	13 U	13 U
BENZO(A)PYRENE		13 U			13 U	13 U	13 U
BENZO(B)FLUORANTHENE		13 U			13 U	13 U	13 U
BENZO(G,H,I)PERYLENE		13 U			13 U	13 U	13 U
BENZO(K)FLUORANTHENE		13 U			13 U	13 U	13 U
BENZOIC ACID		65 U			13 U	13 U	13 U
BENZYL ALCOHOL		13 U			65 U	65 U	33 J
BIS(2-CHLOROETHOXY)METHANE		13 U			13 U	13 U	13 U
BIS(2-CHLOROISOPROPYL)ETHER		13 U			13 U	13 U	13 U
BIS(2-CHROETHYL)ETHER		13 U			13 U	13 U	13 U
BIS(2-ETHYLHEXYL)PHTHALATE		13 U			13 U	13 U	13 U
BUTYLBENZYLPHthalate		56 B			79 B	6 JB	13 U
CHRYSENE		13 U			3 JB	13 U	13 U
DI-N-BUTYLPHthalate		13 U			13 U	13 U	13 U
DI-N-OCTYLPHthalate		2 JB			2 JB	13 U	13 U
DIBENZ(A,H)ANTHRACENE		13 U			13 U	13 U	13 U
DIBENZOFURAN		13 U			13 U	13 U	13 U
DIETHYLPHthalate		13 U			13 U	13 U	13 U
DIMETHYLPHthalate		13 U			13 U	13 U	13 U
FLUORANTHENE		13 U			13 U	13 U	13 U
FLUORENE		13 U			13 U	13 U	13 U
HEXACHLOROBENZENE		13 U			13 U	13 U	13 U
HEXACHLOROBUTADIENE		13 U			13 U	13 U	13 U
HEXACHLOROCYCLOPENTADIENE		13 U			13 U	13 U	13 U
HEXACHLOROETHANE		13 U			13 U	13 U	13 U
INDENO(1,2,3-CD)PYRENE		13 U			13 U	13 U	13 U
ISOPHORONE		13 U			13 U	13 U	13 U
N-NITROSO-DI-N-PROPYLAMINE		32 MS	26 *	55 *	56 MS	45	13 U
N-NITROSODIPHENYLAMINE		13 U			13 U	13 U	13 U
NAPHTHALENE		13 U			13 U	13 U	13 U
NITROBENZENE		13 U			13 U	13 U	13 U
NITROBENZENE-D5		13 U			13 U	13 U	13 U
PENTACHLOROPHENOL		240 MS	96	25	310 MS	124 *	65 U
PHENANTHRENE		13 U			13 U	13 U	65 U
PHENOL		86 MS	36	41	65 MS	55	13 U
PHENOL-D5		87 MS	70	10	96 MS	77	13 U
PYRENE							13 U

TABLE D.6.7 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D105

DRAFT DO NOT CITE

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AREA	QA MATRIX SPIKE LL012317A	QA MS % RECOVERY LL012317A	QA RPD LL012317A	QA DUPLICATE LL012317A	QA SPIKE MSD % RECOVERY LL012317A	BLDG. 511 SEWERS LL012680A	BLDG. 241 SEWERS LL012168A
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	UG/L 2	UG/L 2	UG/L 2	UG/L 2	UG/L 2	UG/L 2	UG/L 2
TERPHENYL-D14							
1,2-DICHLOROBENZENE	13 U			13 U		13 U	13 U
1,2,4-TRICHLOROBENZENE	28 MS	22 *	58 *	51 MS	41	13 U	13 U
1,3-DICHLOROBENZENE	13 U			13 U		13 U	13 U
1,4-DICHLOROBENZENE	22 MS	18 *	78 *	50 MS	40	13 U	13 U
2-CHLORONAPHTHALENE	13 U			13 U		13 U	13 U
2-CHLOROPHENOL	98 MS	36	48 *	160 MS	58	13 U	13 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	13 U			13 U		13 U	13 U
2-METHYLPHENOL	13 U			13 U		13 U	13 U
2-NITROANILINE	65 U			65 U		65 U	65 U
2-NITROPHENOL	13 U			13 U		13 U	13 U
2,4-DICHLOROPHENOL	13 U			13 U		13 U	13 U
2,4-DIMETHYLPHENOL	13 U			13 U		13 U	13 U
2,4-DINITROPHENOL	65 U			65 U		65 U	65 U
2,4-DINITROTOLUENE	50 MS	40	30	68 MS	54	13 U	13 U
2,4,5-TRICHLOROPHENOL	65 U			65 U		65 U	65 U
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	13 U			13 U		13 U	13 U
2,6-DINITROTOLUENE	13 U			13 U		13 U	13 U
3-NITROANILINE	65 U			65 U		65 U	65 U
3,3'-DICHLOROBENZIDINE	13 U			25 U		25 U	25 U
4-BROMOPHENYL-PHENYLETHER	13 U			13 U		13 U	13 U
4-CHLORO-3-METHYLPHENOL	110 MS	44	24	140 MS	56	13 U	13 U
4-CHLOROANILINE	13 U			13 U		13 U	13 U
4-CHLOROPHENYL-PHENYLETHER	13 U			13 U		13 U	13 U
4-METHYLPHENOL	13 U			13 U		13 U	13 U
4-NITROANILINE	65 U			65 U		65 U	65 U
4-NITROPHENOL	110 MS	44	43	170 MS	68	65 U	65 U
4,6-DINITRO-2-METHYLPHENOL	65 U			65 U		65 U	65 U
SURR 1(NBZ) %RECOVERY	22 *			43		0 *	0 *
SURR 2(FBP) %RECOVERY	37 *			59		0 *	2 *
SURR 3(TPH) %RECOVERY	79			83		83	76
SURR 4(PHL) %RECOVERY	41			59		0 *	5 *
SURR 5(2FP) %RECOVERY	45			56		0 *	3 *
SURR 6(TBP) %RECOVERY	107			130 *		22	104

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DRAFT DO NOT CITE

TABLE D.6.7 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D105

AREA	QA	QA	QA	QA	QA	BLDG. 511	BLDG. 241
LOCATION	MATRIX	MS X	RPD	MATRIX SPIKE	MSD X	SEWERS	SEWERS
TYPE OF LOCATION	SPIKE	RECOVERY	LL012317A	DUPLICATE	RECOVERY	LL012680A	LL012168A
SAMPLE NUMBER	LL012317A	WATER	LL012317A	WATER	WATER	WATER	WATER
MATRIX	WATER	X	%	UG/L	X	UG/L	UG/L
UNITS	UG/L	2	2	UG/L	2	UG/L	2
ENV PROBLEM NO							
M/E 68-1							
M/E 68-2							
M/E 69							
M/E 70-1							
M/E 70-2							
M/E 127							
M/E 197							
M/E 198							
M/E 199							
M/E 275							
M/E 365							
M/E 441							
M/E 442							
M/E 443-1							
M/E 443-2							
INTERNAL STD AREA(ANT)	5070000			5710000		4860000	4920000
INTERNAL STD AREA(CRY)	3860000			5160000		3790000	3700000
INTERNAL STD AREA(DCB)	2330000			2710000		2420000	2300000
INTERNAL STD AREA(NPT)	8790000			1E+07		8120000	8320000
INTERNAL STD AREA(PHN)	8450000			9390000		8380000	8590000
INTERNAL STD AREA(PRY)	1980000			2950000		2130000	1890000
DILUTION FACTOR	1.25			1.25		1.25	1.25
ACTUAL(ALLOWED) EXTRACT TIME	4(7 D)			4(7 D)		4(7 D)	4(7 D)
AREA							
LOCATION	BLDG. 298		BLDG. 321				
TYPE OF LOCATION	SEWERS		SEWERS				
SAMPLE NUMBER	LL012215A		LL012248A				
MATRIX	WATER		WATER				
UNITS	UG/L		UG/L				
ENV PROBLEM NO	2		2				
ACENAPHTHENE	13 U		13 U				
ACENAPHTHYLENE	13 U		13 U				

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TABLE D.6.7 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D105

DRAFT DO NOT CITE

## AREA

LOCATION	BLDG. 298	BLDG. 321
TYPE OF LOCATION	SEWERS	SEWERS
SAMPLE NUMBER	LL012215A	LL012248A
MATRIX	WATER	WATER
UNITS	UG/L	UG/L
ENV PROBLEM NO	2	2

ANTHACENE		13 U
BENZO(A)ANTHRACENE		13 U
BENZO(A)PYRENE		13 U
BENZO(B)FLUORANTHENE		13 U
BENZO(G, H, I)PERYLENE		13 U
BENZO(K)FLUORANTHENE		13 U
BENZOIC ACID	65 U	65 U
BENZYL ALCOHOL	13 U	13 U
BIS(2-CHLOROETHOXY)METHANE	13 U	13 U
BIS(2-CHLOROISOPROPYL)ETHER	13 U	13 U
BIS(2-CHOROETHYL)ETHER	13 U	13 U
BIS(2-ETHYLHEXYL)PHthalate	56 U	30 B
BUTYLBENZYLPHthalate	13 U	13 U
CHRYSENE	13 U	13 U
DI-N-BUTYLPHthalate	10 U	20 B
DI-N-OCTYLPHthalate	13 U	13 U
DIBENZ(A, H)ANTHRACENE	13 U	13 U
DIBENZOFURAN	13 U	13 U
DIETHYLPHthalate	2 U	2 U
DIMETHYLPHthalate	13 U	13 U
FLUORANTHENE	13 U	13 U
FLUORENE	13 U	13 U
HEXAChLOROBENZENE	13 U	13 U
HEXAChLOROBUTADIENE	13 U	13 U
HEXAChLOROCYCLOPENTADIENE	13 U	13 U
HEXAChLOROETHANE	13 U	13 U
INDENO(1,2,3-CD)PYRENE	13 U	13 U
ISOPHORONE	13 U	13 U
N-NITROSO-DI-N-PROPYLAMINE	13 U	13 U
N-NITROSODIPHENYLAMINE	13 U	13 U
NAPHTHALENE	13 U	13 U
NITROBENZENE	13 U	13 U
NITROBENZENE-D5		
PENTACHLOROPHENOL	65 U	65 U
PHENANTHRENE	13 U	13 U
PHENOL	13 U	13 U
PHENOL-D5		
PYRENE	13 U	13 U
TERPHENYL-D14		

TABLE D.6.7 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D105

DRAFT DO NOT CITE

AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 298 SEWERS LL012215A WATER UG/L 2	BLDG. 321 SEWERS LL012248A WATER UG/L 2
1,2-DICHLOROBENZENE	13 U	13 U
1,2,4-TRICHLOROBENZENE	13 U	13 U
1,3-DICHLOROBENZENE	13 U	13 U
1,4-DICHLOROBENZENE	13 U	13 U
2-CHLORONAPHTHALENE	13 U	13 U
2-CHLOROPHENOL	13 U	13 U
2-FLUOROBIPHENYL		
2-FLUOROPHENOL		
2-METHYLNAPHTHALENE	13 U	13 U
2-METHYLPHENOL	13 U	13 U
2-NITROANILINE	65 U	65 U
2-NITROPHENOL	13 U	13 U
2,4-DICHLOROPHENOL	13 U	13 U
2,4-DIMETHYLPHENOL	13 U	13 U
2,4-DINITROPHENOL	65 U	65 U
2,4-DINITROTOLUENE	13 U	13 U
2,4,5-TRICHLOROPHENOL	65 U	65 U
2,4,6-TRIBROMOPHENOL		
2,4,6-TRICHLOROPHENOL	13 U	13 U
2,6-DINITROTOLUENE	13 U	13 U
3-NITROANILINE	65 U	65 U
3,3'-DICHLOROBENZIDINE	25 U	25 U
4-BROMOPHENYL-PHENYLETHER	13 U	13 U
4-CHLORO-3-METHYLPHENOL	13 U	13 U
4-CHLOROANILINE	13 U	13 U
4-CHLOROPHENYL-PHENYLETHER	13 U	13 U
4-METHYLPHENOL	13 U	13 U
4-NITROANILINE	65 U	65 U
4-NITROPHENOL	65 U	65 U
4,6-DINITRO-2-METHYLPHENOL	65 U	65 U
SURR 1(NBZ) %RECOVERY	3 *	38
SURR 2(FBP) %RECOVERY	17 *	41 *
SURR 3(TPH) %RECOVERY	92	74
SURR 4(PHL) %RECOVERY	13	15
SURR 5(2FP) %RECOVERY	3 *	2 *
SURR 6(TBP) %RECOVERY	110	23

TABLE D.6.7 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D105

DRAFT DO NOT CITE

## AREA

LOCATION	BLDG. 298	BLDG. 321
TYPE OF LOCATION	SEWERS	SEWERS
SAMPLE NUMBER	LL012215A	LL012248A
MATRIX	WATER	WATER
UNITS	UG/L	UG/L
ENV PROBLEM NO	2	2

M/E 68-1  
 M/E 68-2  
 M/E 69  
 M/E 70-1  
 M/E 70-2  
 M/E 127  
 M/E 197  
 M/E 198  
 M/E 199  
 M/E 275  
 M/E 365  
 M/E 441  
 M/E 442  
 M/E 443-1  
 M/E 443-2

INTERNAL STD AREA(ANT)	5260000	4730000
INTERNAL STD AREA(CRY)	4100000	3690000
INTERNAL STD AREA(DCB)	2470000	2080000
INTERNAL STD AREA(NPT)	9640000	8030000
INTERNAL STD AREA(PHN)	9050000	8060000
INTERNAL STD AREA(PRY)	2030000	2000000

DILUTION FACTOR	1.25	1.25
ACTUAL(ALLOWED) EXTRACT TIME	7(7 D)	7(7 D)

TABLE D.6.8 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D106

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0106885	QA CONTINUING CALIBRATION LL0106887	QA CONTINUING CAL XD LL0106887	ISTD SHIFT	RET	TIM	BLDG.	331 SEWERS LL012282A WATER UG/L 2	BLDG.	131 SEWERS LL012033A WATER UG/L 2	BLDG.	151 SEWERS LL012044A WATER UG/L 2
	%	RRF	%	AREA								
ACENAPHTHENE		1.331	25.8				13	U	13	U	13	U
ACENAPHTHYLENE		1.934	47.1				13	U	13	U	13	U
ANTHRACENE		1.132	39.7				13	U	13	U	13	U
BENZO(A)ANTHRACENE		1.12	6				13	U	13	U	13	U
BENZO(A)PYRENE		1.223	11.9				13	U	13	U	13	U
BENZO(B)FLUORANTHENE		1.546	7.4				13	U	13	U	13	U
BENZO(G,H,I)PERYLENE		0.855	9.8				13	U	13	U	13	U
BENZO(K)FLUORANTHENE		1.259	28.2				13	U	13	U	13	U
BENZOIC ACID		0.195	21.8				85		560		320	E
BENZYL ALCOHOL		0	100				13	U	13	U	13	U
BIS(2-CHLOROETHOXY)METHANE		0.525	5.1				13	U	13	U	13	U
BIS(2-CHLOROISOPROPYL)ETHER		2.339	3				13	U	13	U	13	U
BIS(2-CHOROETHYL)ETHER		1.084	32.9				13	U	13	U	13	U
BIS(2-ETHYLHEXYL)PHTHALATE		1.269	49.9				28	B	52	B	60	B
BUTYLBENZYLPHthalate		1.068	49.5				13	U	13	U	13	U
CHRYSENE		1.054	8.7				13	U	13	U	13	U
DI-N-BUTYLPHthalate		1.691	73.5				13	U	3	JB	13	U
DI-N-OCTYLPHthalate		2.909	105				13	U	13	U	13	U
DIBENZ(A,H)ANTHRACENE		0.732	0.3				13	U	13	U	13	U
DIBENZOFURAN		1.766	30.6				13	U	13	U	13	U
DIETHYLPHthalate		1.655	53.9				13	U	13	U	13	U
DIMETHYLPHthalate		1.499	4.8				13	U	13	U	13	U
FLUORANTHENE		1.048	17.4				13	U	13	U	13	U
FLUORENE		1.388	23.1				13	U	13	U	13	U
HEXACHLOROBENZENE		0.359	8.9				13	U	13	U	13	U
HEXACHLOROBUTADIENE		0.257	8.3				13	U	13	U	13	U
HEXACHLOROCYCLOPENTADIENE		0.228	24.8				13	U	13	U	13	U
HEXACHLOROETHANE		0.78	24.8				13	U	13	U	13	U
INDENO(1,2,3-CD)PYRENE		0.747	9.7				13	U	13	U	13	U
ISOPHORONE		0.863	5.8				13	U	13	U	13	U
N-NITROSO-DI-N-PROPYLAMINE		1.264	16.9				13	U	13	U	13	U
N-NITROSODIPHENYLAMINE		0.555	45.7				13	U	13	U	13	U
NAPHTHALENE		1.139	33.8				13	U	13	U	13	U
NITROBENZENE		0.448	2				13	U	13	U	13	U
NITROBENZENE-D5		0.439	3.6									
PENTACHLOROPHENOL		0.161	17.9				63	U	63	U	63	U
PHENANTHRENE		1.152	34.8				13	U	13	U	13	U
PHENOL		1.694	2.2				13	U	13	U	13	U
PHENOL-D5		1.187	14.1									

TABLE D.6.8 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D106

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0106885	QA CONTINUING CAL X'D LL0106887	QA CONTINUING CAL X'D LL0106887	QA ISTD SHIFT LL0106888	RET TIME	BLDG. 331 SEWERS LL012282A	BLDG. 131 SEWERS LL012033A	BLDG. 151 SEWERS LL012044A
	%	RRF	%	AREA	UG/L 2	UG/L 2	UG/L 2	UG/L 2
PYRENE		2.061	56.5		13 U		13 U	13 U
TERPHENYL-D14		1.138	43.3					
1,2-DICHLOROBENZENE		1.582	9		13 U		13 U	13 U
1,2,4-TRICHLOROBENZENE		0.404	0.4		13 U		13 U	13 U
1,3-DICHLOROBENZENE		1.575	13.6		13 U		13 U	13 U
1,4-DICHLOROBENZENE		1.639	17.9		13 U		13 U	13 U
2-CHLORONAPHTHALENE		1.312	18.2		13 U		13 U	13 U
2-CHLOROPHENOL		1.463	35.9		13 U		13 U	13 U
2-FLUOROBIPHENYL		1.42	27.7					
2-FLUOROPHENOL		1.024	3.4					
2-METHYLNAPHTHALENE		0.8	29.7		13 U		13 U	13 U
2-METHYLPHENOL		1.22	18.7		13 U		13 U	13 U
2-NITROANILINE		0.497	16.3		63 U		63 U	63 U
2-NITROPHENOL		0.227	3.4		13 U		13 U	13 U
2,4-DICHLOROPHENOL		0.36	6.1		13 U		13 U	13 U
2,4-DIMETHYLPHENOL		0.354	3.1		13 U		13 U	13 U
2,4-DINITROPHENOL		0.084	56.7		63 U		63 U	63 U
2,4-DINITROTOLUENE		0.453	7		13 U		13 U	13 U
2,4,5-TRICHLOROPHENOL		0.457	3		63 U		63 U	63 U
2,4,6-TRIBROMOPHENOL		0.167	11.9					
2,4,6-TRICHLOROPHENOL		0.384	15.4		13 U		13 U	13 U
2,6-DINITROTOLUENE		0.354	3.3		13 U		13 U	13 U
3-NITROANILINE		0.435	1.7		63 U		63 U	63 U
3,3'-DICHLOROBENZIDINE		0.147	24.7		25 U		25 U	25 U
4-BROMOPHENYL-PHENYLETHER		0.264	3.5		13 U		13 U	13 U
4-CHLORO-3-METHYLPHENOL		0.371	2.9		13 U		13 U	13 U
4-CHLOROANILINE		0.113	50.5		13 U		13 U	13 U
4-CHLOROPHENYL-PHENYLETHER		0.661	16.8		13 U		13 U	13 U
4-METHYLPHENOL		1.178	9.7		13 U		13	13 U
4-NITROANILINE		0.138	7.8		63 U		63 U	63 U
4-NITROPHENOL		0.15	0.8		63 U		63 U	63 U
4,6-DINITRO-2-METHYLPHENOL		0.108	35.7		63 U		63 U	63 U
SURR 1(NBZ) %RECOVERY				0 *		21 *		19 *
SURR 2(FBP) %RECOVERY				3 *		39 *		44
SURR 3(TPH) %RECOVERY				80		69		61
SURR 4(PHL) %RECOVERY				7 *		38		38
SURR 5(2FP) %RECOVERY				12 *		33		31
SURR 6(TBP) %RECOVERY				63		102		104

TABLE D.6.8 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D106

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	ISTD	RET	TIM	BLDG.	331	BLDG.	131	BLDG.	151
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	SEWERS								
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	LL0106888	LL012282A	LL012033A	LL012044A	LL012033A	LL012044A	LL012033A	LL012044A	LL012033A	LL012044A
SAMPLE NUMBER	LL0106885	LL0106887	LL0106887	LL0106888	LL012282A	LL012033A	LL012044A	LL012033A	LL012044A	LL012033A	LL012044A	LL012033A	LL012044A
MATRIX					WATER								
UNITS	x	RRF	x	AREA	UG/L								
ENV PROBLEM NO					2	2	2	2	2	2	2	2	2
M/E 51		44											
M/E 68-1		0											
M/E 68-2		0											
M/E 69		54											
M/E 70-1		0.5											
M/E 70-2		1											
M/E 127		42											
M/E 197		0											
M/E 198		100											
M/E 199		5.6											
M/E 275		21											
M/E 365		2.7											
M/E 441		13											
M/E 442		87											
M/E 443-1		16											
M/E 443-2		19											
INTERNAL STD AREA(ANT)					2770000					4610000			3930000
INTERNAL STD AREA(CRY)					2210000					3270000			2990000
INTERNAL STD AREA(DCB)					1380000					2100000			1770000
INTERNAL STD AREA(NPT)					6840000					8330000			7090000
INTERNAL STD AREA(PHN)					4520000					7690000			6550000
INTERNAL STD AREA(PRY)					1270000					1570000			1410000
DILUTION FACTOR								1.25		1.25			1.25
ACTUAL(ALLOWED) EXTRACT TIME								4(7 D)		7(7 D)			4(7 D)
AREA	QA	QA	QA	QA	BLDG.								
LOCATION	BLDG.	BLDG.	METHOD	BLDG.	BLDG.	BLDG.	BLDG.	BLDG.	BLDG.	BLDG.	BLDG.	BLDG.	BLDG.
TYPE OF LOCATION	169	222	BLANK	151	222	241	241	241	241	241	241	241	241
SAMPLE NUMBER	SEWERS	SEWERS	SBKD106	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS
MATRIX	LL012099A	LL012135A	HATER	LL012066A	LL012157A	LL012180A							
UNITS	WATER	WATER	HATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
ENV PROBLEM NO	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ACENAPHTHENE	2	2		13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U

TABLE D.6.8 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D106

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	QA					
	BLDG. 169 SEWERS LL012099A WATER UG/L 2	BLDG. 222 SEWERS LL012135A WATER UG/L 2	METHOD BLANK SBKD106 WATER UG/L	BLDG. 151 SEWERS LL012066A WATER UG/L 2	BLDG. 222 SEWERS LL012157A WATER UG/L 2	BLDG. 241 SEWERS LL012180A WATER UG/L 2
ACENAPHTHYLENE	13 U	13 U	13 U	13 U	13 U	13 U
ANTHRACENE	13 U	13 U	13 U	13 U	13 U	13 U
BENZO(A)ANTHRACENE	13 U	13 U	13 U	13 U	13 U	13 U
BENZO(A)PYRENE	13 U	13 U	13 U	13 U	13 U	13 U
BENZO(B)FLUORANTHENE	13 U	13 U	13 U	13 U	13 U	13 U
BENZO(G,H,I)PERYLENE	13 U	13 U	13 U	13 U	13 U	13 U
BENZO(K)FLUORANTHENE	13 U	13 U	13 U	13 U	13 U	13 U
BENZOIC ACID	63 U	730 E	63 U	810 E	240 E	1700 E
BENZYL ALCOHOL	13 U	13 U	13 U	13 U	13 U	13 U
BIS(2-CHLOROETHOXY)METHANE	13 U	13 U	13 U	13 U	13 U	13 U
BIS(2-CHLOROISOPROPYL)ETHER	13 U	13 U	13 U	13 U	13 U	13 U
BIS(2-CHOROETHYL)ETHER	13 U	13 U	13 U	13 U	13 U	13 U
BIS(2-ETHYLHEXYL)PHTHALATE	140 B	150 B	20	33 B	45 B	23 B
BUTYLBENZYLPHthalate	13 U	13 U	9 J	13 U	13 U	13 U
CHRYSENE	13 U	13 U	13 U	13 U	13 U	13 U
DI-N-BUTYLPHthalate	2 JB	13 U	1 J	13 U	13 U	13 U
DI-N-OCTYLPHthalate	13 U	13 U	13 U	13 U	13 U	13 U
DIBENZ(A,H)ANTHRACENE	13 U	13 U	13 U	13 U	13 U	13 U
DIBENZOFURAN	13 U	13 U	15 U	13 U	13 U	13 U
DIETHYLPHthalate	2 J	2 J	13 U	13 U	13 U	13 U
DIMETHYLPHthalate	13 U	13 U	13 U	13 U	13 U	13 U
FLUORANTHENE	13 U	13 U	13 U	13 U	13 U	13 U
FLUORENE	13 U	13 U	13 U	13 U	13 U	13 U
HEXACHLOROBENZENE	13 U	13 U	13 U	13 U	13 U	13 U
HEXACHLOROBUTADIENE	13 U	13 U	13 U	13 U	13 U	13 U
HEXACHLOROCYCLOPENTADIENE	13 U	13 U	13 U	13 U	13 U	13 U
HEXAChLOROETHANE	13 U	13 U	13 U	13 U	13 U	13 U
INDENO(1,2,3-CD)PYRENE	13 U	13 U	13 U	13 U	13 U	13 U
ISOPHORONE	13 U	13 U	13 U	13 U	13 U	13 U
N-NITROSO-DI-N-PROPYLAMINE	13 U	13 U	13 U	13 U	13 U	13 U
N-NITROSODIPHENYLAMINE	13 U	13 U	13 U	13 U	13 U	13 U
NAPHTHALENE	13 U	13 U	13 U	13 U	13 U	13 U
NITROBENZENE	13 U	13 U	13 U	13 U	13 U	13 U
NITROBENZENE-D5	63 U	63 U	63 U	63 U	63 U	63 U
PENTACHLOROPHENOL	13 U	13 U	13 U	13 U	13 U	13 U
PHENANTHRENE	13 U	13 U	13 U	13 U	13 U	13 U
PHENOL	13 U	13 U	13 U	13 U	13 U	13 U
PHENOL-D5	13 U	13 U	13 U	13 U	13 U	13 U
PYRENE						

TABLE D.6.8 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D106

DRAFT DO NOT CITE

AREA	QA					
	BLDG. 169 SEWERS LL012099A WATER UG/L 2	BLDG. 222 SEWERS LL012135A WATER UG/L 2	METHOD BLANK SBKD106 WATER UG/L	BLDG. 151 SEWERS LL012066A WATER UG/L 2	BLDG. 222 SEWERS LL012157A WATER UG/L 2	BLDG. 241 SEWERS LL012180A WATER UG/L 2
TERPHENYL-D14						
1,2-DICHLOROBENZENE	13 U	13 U	13 U	13 U	13 U	13 U
1,2,4-TRICHLOROBENZENE	13 U	13 U	13 U	13 U	13 U	13 U
1,3-DICHLOROBENZENE	13 U	13 U	13 U	13 U	13 U	13 U
1,4-DICHLOROBENZENE	13 U	13 U	13 U	13 U	13 U	13 U
2-CHLORONAPHTHALENE	13 U	13 U	13 U	13 U	13 U	13 U
2-CHLOROPHENOL	13 U	13 U	13 U	13 U	13 U	13 U
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	13 U	13 U	13 U	13 U	13 U	13 U
2-METHYLPHENOL	13 U	13 U	13 U	13 U	13 U	13 U
2-NITROANILINE	63 U	63 U	63 U	63 U	63 U	63 U
2-NITROPHENOL	13 U	13 U	13 U	13 U	13 U	13 U
2,4-DICHLOROPHENOL	13 U	13 U	13 U	13 U	13 U	13 U
2,4-DIMETHYLPHENOL	13 U	13 U	13 U	13 U	13 U	13 U
2,4-DINITROPHENOL	63 U	63 U	63 U	63 U	63 U	63 U
2,4-DINITROTOLUENE	13 U	13 U	13 U	13 U	13 U	13 U
2,4,5-TRICHLOROPHENOL	63 U	63 U	63 U	63 U	63 U	63 U
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	13 U	13 U	13 U	13 U	13 U	13 U
2,6-DINITROTOLUENE	13 U	13 U	13 U	13 U	13 U	13 U
3-NITROANILINE	63 U	63 U	63 U	63 U	63 U	63 U
3,3'-DICHLOROBENZIDINE	25 U	25 U	25 U	25 U	25 U	25 U
4-BROMOPHENYL-PHENYLETHER	13 U	13 U	13 U	13 U	13 U	13 U
4-CHLORO-3-METHYLPHENOL	13 U	13 U	13 U	13 U	13 U	13 U
4-CHLOROANILINE	13 U	13 U	13 U	13 U	13 U	13 U
4-CHLOROPHENYL-PHENYLETHER	13 U	13 U	13 U	13 U	13 U	13 U
4-METHYLPHENOL	13 U	17	13 U	16	7 J	88
4-NITROANILINE	63 U	63 U	63 U	63 U	63 U	63 U
4-NITROPHENOL	63 U	63 U	63 U	63 U	63 U	63 U
4,6-DINITRO-2-METHYLPHENOL	63 U	63 U	63 U	63 U	63 U	63 U
SURR 1(NBZ) %RECOVERY	27 X	43	53	0 X	0 X	15 X
SURR 2(FBP) %RECOVERY	38 X	48	54	16 X	7 X	41 X
SURR 3(TPH) %RECOVERY	75	78	89	58	67	61
SURR 4(PHL) %RECOVERY	51	65	67	19	20	35
SURR 5(2FP) %RECOVERY	36	45	54	8 X	48	12 X
SURR 6(TBP) %RECOVERY	97	100	91	89	84	109

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TABLE D.6.8 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D106

DRAFT DO NOT CITE

AREA	QA					
LOCATION	BLDG. 169	BLDG. 222	METHOD	BLDG. 151	BLDG. 222	BLDG. 241
TYPE OF LOCATION	SEWERS	SEWERS	BLANK	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL012099A	LL012135A	SBKD106	LL012066A	LL012157A	LL012180A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2		2	2	2
M/E 68-1						
M/E 68-2						
M/E 69						
M/E 70-1						
M/E 70-2						
M/E 127						
M/E 197						
M/E 198						
M/E 199						
M/E 275						
M/E 365						
M/E 441						
M/E 442						
M/E 443-1						
M/E 443-2						
INTERNAL STD AREA(ANT)	5710000	5710000	4880000	5640000	5410000 E	5570000
INTERNAL STD AREA(CRY)	4340000	4610000	3710000	4640000	4540000 E	4680000
INTERNAL STD AREA(DCB)	2660000	2690000	2270000	2640000	2480000 E	2460000
INTERNAL STD AREA(NPT)	1E+07	1E+07	8280000	9930000	1E+07 E	9890000
INTERNAL STD AREA(PHN)	9520000	9450000	7860000	9930000	9540000 E	9930000
INTERNAL STD AREA(PRY)	1930000	2090000	1730000	2090000	2330000 E	2070000
DILUTION FACTOR	1.25	1.25	1.25	1.25	1.25	1.25
ACTUAL(ALLOWED) EXTRACT TIME	7(7 D)	4(7 D)		7(7 D)	7(7 D)	7(7 D)

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TABLE D.6.9 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDO NUMBER: D107

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0107875	QA CONTINUING CALIBRATION LL0107887	QA CONTINUING CAL XD LL0107887	QA ISTD SHIFT LL0107888	RET TIM BLDG. 331 SEWERS LL012306A	BLDG. 511 SEWERS LL012339A	BLDG. 298 TANK LL024015F
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	X	RRF	X	AREA	UG/L 2	UG/L 2	UG/L 4
ACENAPHTHENE		1.22	15.3		13 U	13 U	13 U
ACENAPHTHYLENE		1.925	46.4		13 U	13 U	13 U
ANTHRACENE		1.032	27.4		13 U	13 U	13 U
BENZO(A)ANTHRACENE		1.17	10.7		13 U	13 U	13 U
BENZO(A)PYRENE		1.104	1		13 U	13 U	13 U
BENZO(B)FLUDRANTHENE		1.497	3.9		13 U	3 J	13 U
BENZO(G,H,I)PERYLENE		0.719	7.6		13 U	13 U	13 U
BENZO(K)FLUDRANTHENE		1.102	12.2		13 U	13 U	13 U
BENZOIC ACID		0.205	17.7		76	260	63
BENZYL ALCOHOL		0.493	36.5		13 U	13 U	40
BIS(2-CHLOROETHOXY)METHANE		0.52	4.1		13 U	13 U	13 U
BIS(2-CHLOROISOPROPYL)ETHER		2.721	12.9		13 U	13 U	13 U
BIS(2-CHLOROETHYL)ETHER		1.699	5.2		13 U	13 U	13 U
BIS(2-ETHYLHEXYL)PHTHALATE		1.037	22.5		39 B	400 BE	640 BE
BUTYLBENZYLPHthalate		0.997	39.6		3 J	4 J	13 U
CHRYSENE		1.022	5.4		13 U	13 U	13 U
DI-N-BUTYLPHthalate		1.438	47.5		13 U	13 U	13 U
DI-N-OCTYLPHthalate		2.602	83.4		13 U	13 U	13 U
DIBENZ(A,H)ANTHRACENE		0.662	9.9		13 U	13 U	13 U
DIBENZOFURAN		1.735	28.3		13 U	13 U	13 U
DIETHYLPHthalate		1.566	45.7		13 U	13 U	13 U
DIMETHYLPHthalate		1.495	4.5		13 U	13 U	4 J
FLUDRANTHENE		1.024	14.7		13 U	13 U	13 U
FLUORENE		1.345	19.3		13 U	13 U	13 U
HEXACHLOROBENZENE		0.312	5.4		13 U	13 U	13 U
HEXACHLOROBUTADIENE		0.233	1.8		13 U	13 U	13 U
HEXACHLOROCYCLOPENTADIENE		0.217	28.3		13 U	13 U	13 U
HEXAChloroethane		0.743	18.8		13 U	13 U	13 U
INDENO(1,2,3-CD)PYRENE		0.73	11.7		13 U	13 U	13 U
ISOPHORONE		0.884	3.6		13 U	13 U	13 U
N-NITROSO-DI-N-PROPYLAMINE		1.137	5.2		13 U	13 U	13 U
N-NITROSODIPHENYLAMINE		0.521	36.6		13 U	13 U	13 U
NAPHTHALENE		1.062	24.7		13 U	13 U	12 J
NITROBENZENE		0.443	3		13 U	13 U	13 U
NITROBENZENE-DS		0.451	6.4		13 U	13 U	13 U
PENTACHLOROPHENOL		0.162	17.6		63 U	63 U	63 U
PHENANTHRENE		1.103	29.1		13 U	13 U	13 U
PHENOL		1.585	4.4		13 U	13 U	13 U
PHENOL-DS		1.52	9.9				

TABLE D.6.9 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D107

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	ISTD	RET	TIM	BLDG.	331	BLDG.	511	BLDG.	298
LOCATION	TUNED	CONTINUING	CONTINUING	AREA	SHIFT	SEWERS	SEWERS	SEWERS	WATER	TANK	WATER	WATER	TANK
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL X'D		LL0107888	LL012306A	LL012339A	LL012339A	UG/L	LL024015F	UG/L	UG/L	UG/L
SAMPLE NUMBER	%	RRF	%						2		2		4
MATRIX													
UNITS													
ENV PROBLEM NO													
PYRENE		1.983	50.5						13 U		13 U		13 U
TERPHENYL-D14		1.068	34.5										
1,2-DICHLOROBENZENE		1.483	2.2						13 U		13 U		13 U
1,2,4-TRICHLOROBENZENE		0.369	8.1						13 U		13 U		82
1,3-DICHLOROBENZENE		1.548	11.7						13 U		13 U		13 U
1,4-DICHLOROBENZENE		1.51	8.6						13 U		13 U		13 U
2-CHLORONAPHTHALENE		1.189	7.1						13 U		13 U		13 U
2-CHLOROPHENOL		1.381	28.3						13 U		13 U		13 U
2-FLUOROBIPHENYL		1.212	9										
2-FLUOROPHENOL		1.089	10										
2-METHYLNAPHTHALENE		0.624	1.1						13 U		13 U		13 U
2-METHYLPHENOL		1.187	15.6						13 U		13 U		13 U
2-NITROANILINE		0.501	17.3						63 U		63 U		63 U
2-NITROPHENOL		0.233	1						13 U		13 U		13 U
2,4-DICHLOROPHENOL		0.316	6.7						13 U		13 U		13 U
2,4-DIMETHYLPHENOL		0.373	2						13 U		13 U		13 U
2,4-DINITROTOLUENE		0.125	35.4						63 U		63 U		63 U
2,4,5-TRICHLOROPHENOL		0.476	2.3						13 U		13 U		13 U
2,4,6-TRIBROMOPHENOL		0.46	3.7						63 U		63 U		63 U
2,4,6-TRICHLOROPHENOL		0.173	8.7										
2,6-DINITROTOLUENE		0.415	8.5						13 U		13 U		13 U
3-NITROANILINE		0.336	8.3						13 U		13 U		13 U
3,3'-DICHLOROBENZIDINE		0.469	9.6						63 U		63 U		63 U
4-BROMOPHENYL-PHENYLETHER		0.111	5.7						25 U		25 U		25 U
4-CHLORO-3-METHYLPHENOL		0.262	4.2						13 U		13 U		13 U
4-CHLOROANILINE		0.375	1.9						13 U		13 U		13 U
4-CHLOROPHENYL-PHENYLETHER		0.278	21.8						13 U		13 U		13 U
4-METHYLPHENOL		0.589	4.2						13 U		13 U		13 U
4-NITROANILINE		1.195	11.3						11 J		13 U		13 U
4-NITROPHENOL		0.177	38.2						63 U		63 U		63 U
4,6-DINITRO-2-METHYLPHENOL		0.156	4.7						63 U		63 U		63 U
	0.119	29.1							63 U		63 U		63 U
SURR 1(NBZ) %RECOVERY								4 *		0 *		47	
SURR 2(FBP) %RECOVERY								12 *		5 *		84	
SURR 3(TPH) %RECOVERY								66		96		83	
SURR 4(PHL) %RECOVERY								25		7 *		82	
SURR 5(2FP) %RECOVERY								35		14 *		78	
SURR 6(TBP) %RECOVERY								82		79		96	

TABLE D.6.9 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D107

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0107875	QA CONTINUING CALIBRATION LL0107887	QA CONTINUING CAL XD LL0107887	QA ISTD RET TIM SHIFT LL0107888	BLDG. 331 SEWERS LL012306A	BLDG. 511 SEWERS LL012339A	BLDG. 298 TANK LL024015F
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	%	RRF	%	AREA	UG/L 2	UG/L 2	UG/L 4
M/E 51	51						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	62						
M/E 70-1	0.7						
M/E 70-2	1.2						
M/E 127	46						
M/E 197	0						
M/E 198	100						
M/E 199	6.3						
M/E 275	22						
M/E 365	2.8						
M/E 441	14						
M/E 442	94						
M/E 443-1	18						
M/E 443-2	19						
INTERNAL STD AREA(ANT)				5330000	5550000	5410000	5140000
INTERNAL STD AREA(CRY)				4500000	4600000	4350000	3900000
INTERNAL STD AREA(DCB)				2660000	2530000	2470000	2610000
INTERNAL STD AREA(NPT)				9430000	9740000	9690000	1E+07
INTERNAL STD AREA(PHN)				9040000	9360000	9350000	9170000
INTERNAL STD AREA(PRY)				2460000	2480000	2480000	2080000
DILUTION FACTOR					1.25	1.25	1.25
ACTUAL(ALLOWED) EXTRACT TIME					7(7 D)	7(7 D)	8(7 D)
AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	MATRIX SPIKE LL024015F	MS % RECOVERY LL024015F	RPD LL024015F	MATRIX SPIKE DUPLICATE LL024015F	MSD % RECOVERY LL024015F	WATER WATER UG/L %	WATER WATER UG/L %
ACENAPHTHENE	4	4	4	4	4	4	4
	13 MS	10 X	154 X	100 MS	80		

TABLE D.6.9 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D107

AREA	QA MATRIX SPIKE LL024015F	QA MS % RECOVERY LL024015F	QA RPD WATER	QA MATRIX DUPLICATE LL024015F	MSD % RECOVERY LL024015F
LOCATION					
TYPE OF LOCATION					
SAMPLE NUMBER					
MATRIX					
UNITS	UG/L	%	%	UG/L	%
ENV PROBLEM NO	4	4	4	4	4
ACENAPHTHYLENE	13 U			13 U	
ANTHRACENE	13 U			13 U	
BENZO(A)ANTHRACENE	13 U			13 U	
BENZO(A)PYRENE	13 U			13 U	
BENZO(B)FLUORANTHENE	13 U			13 U	
BENZO(G,H,I)PERYLENE	13 U			13 U	
BENZO(K)FLUORANTHENE	13 U			65	
BENZOIC ACID	63 U			48	
BENZYL ALCOHOL	13 U			13 U	
BIS(2-CHLOROETHOXY)METHANE	13 U			13 U	
BIS(2-CHLOROISOPROPYL)ETHER	13 U			13 U	
BIS(2-CHRODETHYL)ETHER	13 U			660 EB	
BIS(2-ETHYLHEXYL)PHTHALATE	580 EB			13 U	
BUTYLBENZYLPHthalate	13 U			13 U	
CHRYSENE	13 U			1 U	
DI-N-BUTYLPHthalate	13 U			13 U	
DI-N-OCTYLPHthalate	13 U			13 U	
DIBENZ(A,H)ANTHRACENE	13 U			13 U	
DIBENZOFURAN	13 U			4 U	
DIETHYLPHthalate	2 J			13 U	
DIMETHYLPHthalate	13 U			13 U	
FLUORANTHENE	13 U			13 U	
FLUORENE	13 U			13 U	
HEXACHLOROBENZENE	13 U			13 U	
HEXACHLOROBUTADIENE	13 U			13 U	
HEXACHLOROCYCLOPENTADIENE	13 U			13 U	
HEXACHLOROETHANE	13 U			13 U	
INDENO(1,2,3-CD)PYRENE	13 U			13 U	
ISOPHORONE	13 UMS	0 *	200 *	81 MS	65
N-NITROSO-DI-N-PROPYLAMINE	13 U			13 U	
N-NITROSODIPHENYLAMINE	3 J			15	
NAPHTHALENE	13 U			13 U	
NITROBENZENE					
NITROBENZENE-D5	270 MS	108 *	11	300 MS	120 *
PENTACHLOROPHENOL	13 U			13 U	
PHENANTHRENE	3 MS	1 *	192 *	140 MS	59
PHENOL					
PHENOL-D5	89 MS	71	12	100 MS	80
PYRENE					

TABLE D.6.9 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D107

DRAFT DO NOT CITE

AREA	QA MATRIX SPIKE LL024015F WATER UG/L 4	QA MS % RECOVERY LL024015F WATER %	QA RPD LL024015F WATER %	QA MATRIX SPIKE DUPLICATE LL024015F WATER UG/L 4	QA MSD % RECOVERY LL024015F WATER %
TERPHENYL-D14					
1,2-DICHLOROBENZENE	13 U			13 U	
1,2,4-TRICHLOROBENZENE	13 UMS	66	2250 X	180 MS	78
1,3-DICHLOROBENZENE	13 U			13 U	
1,4-DICHLOROBENZENE	13 UMS	0 X	200 X	57 MS	46
2-CHLORONAPHTHALENE	13 U			13 U	
2-CHLOROPHENOL	13 UMS	0 X	200 X	200 MS	73
2-FLUOROBIPHENYL					
2-FLUOROPHENOL					
2-METHYLNAPHTHALENE	13 U			13 U	
2-METHYLPHENOL	13 U			13 U	
2-NITROANILINE	63 U			63 U	
2-NITROPHENOL	13 U			13 U	
2,4-DICHLOROPHENOL	13 U			13 U	
2,4-DIMETHYLPHENOL	13 U			13 U	
2,4-DINITROPHENOL	63 U			63 U	
2,4-DINITROTOLUENE	35 MS	28	93 X	96 MS	77
2,4,5-TRICHLOROPHENOL	63 U			63 U	
2,4,6-TRIBROMOPHENOL					
2,4,6-TRICHLOROPHENOL	13 U			13 U	
2,6-DINITROTOLUENE	13 U			13 U	
3-NITROANILINE	63 U			63 U	
3,3'-DICHLOROBENZIDINE	25 U			25 U	
4-BROMOPHENYL-PHENYLETHER	13 U			13 U	
4-CHLORO-3-METHYLPHENOL	70 MS	28	83 X	170 MS	68
4-CHLOROANILINE	13 U			13 U	
4-CHLOROPHENYL-PHENYLETHER	13 U			13 U	
4-METHYLPHENOL	13 U			13 U	
4-NITROANILINE	63 U			63 U	
4-NITROPHENOL	180 MS	72	53 X	310 MS	124 X
4,6-DINITRO-2-METHYLPHENOL	63 U			63 U	
SURR 1(NBZ) %RECOVERY		0 X			64
SURR 2(FBP) %RECOVERY		4 X			91
SURR 3(TPH) %RECOVERY		86			90
SURR 4(PHL) %RECOVERY		1 X			60
SURR 5(2FP) %RECOVERY		0 X			77
SURR 6(TBP) %RECOVERY		79			111

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TABLE D.6.9 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D107

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	MATRIX SPIKE LL024015F WATER UG/L 4	MS % RECOVERY LL024015F WATER % 4	RPD LL024015F WATER % 4	MATRIX SPIKE DUPLICATE LL024015F WATER UG/L 4	MSD % RECOVERY LL024015F WATER % 4
M/E 68-1					
M/E 68-2					
M/E 69					
M/E 70-1					
M/E 70-2					
M/E 127					
M/E 197					
M/E 198					
M/E 199					
M/E 275					
M/E 365					
M/E 441					
M/E 442					
M/E 443-1					
M/E 443-2					
INTERNAL STD AREA(ANT)	5000000			5040000	
INTERNAL STD AREA(CRY)	3850000			4150000	
INTERNAL STD AREA(DCB)	2240000			2600000	
INTERNAL STD AREA(NPT)	8950000			9590000	
INTERNAL STD AREA(PHN)	8210000			8690000	
INTERNAL STD AREA(PRY)	1720000			1840000	
DILUTION FACTOR	1.25			1.25	
ACTUAL(ALLOWED) EXTRACT TIME	8(7 D)			8(7 D)	

TABLE D.6.10 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D108

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	ISTD	RET	TIM	BLDG.	321	BLDG.	321	BLDG.	492
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	RET	TIME	BLDG.	WATER	UG/L	WATER	UG/L	WATER	UG/L
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	LL0108888	LL0108887	LL0108887	LL025016F	SUMP	4	LL025027F	4	LL026017F	4
SAMPLE NUMBER	%	RRF	%	AREA				WATER	UG/L	WATER	UG/L	WATER	UG/L
MATRIX													
UNITS													
ENV PROBLEM NO													
ACENAPHTHENE		1.244	17.6					13 U	13 U		13 U		13 U
ACENAPHTHYLENE		1.965	49.5					13 U	13 U		13 U		13 U
ANTHRACENE		1.17	44.4					2 J	13 U		13 U		2 J
BENZO(A)ANTHRACENE		1.111	5.1					13 U	13 U		13 U		13 U
BENZO(A)PYRENE		1.199	9.6					13 U	13 U		13 U		13 U
BENZO(B)FLUORANTHENE		1.715	19					13 U	13 U		13 U		13 U
BENZO(G,H,I)PERYLENE		0.871	11.8					13 U	13 U		13 U		13 U
BENZO(K)FLUORANTHENE		1.061	8					13 U	13 U		13 U		13 U
BENZOIC ACID		0.218	12.6					63 U	63 U		63 U		8100 E
BENZYL ALCOHOL		0.683	12.1					13 U	13 U		13 U		11000 E
BIS(2-CHLOROETHOXY)METHANE		0.547	9.6					13 U	13 U		13 U		13 U
BIS(2-CHLOROISOPROPYL)ETHER		2.806	16.4					13 U	13 U		13 U		13 U
BIS(2-CHOROETHYL)ETHER		1.766	9.4					13 U	13 U		13 U		13 U
BIS(2-ETHYLHEXYL)PHTHALATE		1.141	34.8					190 B	3 JB		9 JB		
BUTYLBENZYLPHthalate		1.045	46.3					13 U	13 U		13 U		13 U
CHRYSENE		1.007	3.9					13 U	13 U		13 U		13 U
DI-N-BUTYLPHthalate		1.626	66.8					4 J	13 U		2 J		
DI-N-OCTYLPHthalate		3.174	123.7					4 J	13 U		13 U		13 U
DIBENZ(A,H)ANTHRACENE		0.844	14.8					13 U	13 U		13 U		13 U
DIBENZOFURAN		1.88	39.1					13 U	13 U		13 U		13 U
DIETHYLPHthalate		1.659	54.3					3 J	13 U		5 J		
DIMETHYLPHthalate		1.493	4.4					13 U	13 U		5 J		
FLUORANTHENE		1.081	21.1					11 J	13 U		6 J		
FLUORENE		1.388	23.1					13 U	13 U		13 U		13 U
HEXACHLOROBENZENE		0.342	3.8					13 U	13 U		13 U		13 U
HEXACHLOROBUTADIENE		0.247	4.2					13 U	13 U		13 U		13 U
HEXACHLOROCYCLOPENTADIENE		0.247	18.5					13 U	13 U		13 U		13 U
HEXAChLOROETHANE		0.765	22.4					13 U	13 U		13 U		13 U
INDENO(1,2,3-CD)PYRENE		0.904	9.4					13 U	13 U		13 U		13 U
ISOPHORONE		0.952	3.8					13 U	13 U		13 U		13 U
N-NITROSO-DI-N-PROPYLAMINE		1.356	25.4					13 U	13 U		13 U		13 U
N-NITROSODIPHENYLAMINE		0.525	37.7					13 U	13 U		13 U		13 U
NAPHTHALENE		1.134	33.2					13 U	13 U		13 U		13 U
NITROBENZENE		0.516	12.9					13 U	13 U		13 U		13 U
NITROBENZENE-D5		0.499	17.9					13 U	13 U		13 U		13 U
PENTACHLOROPHENOL		0.159	18.7					63 U	63 U		63 U		63 U
PHENANTHRENE		1.149	34.4					11 J	13 U		13 U		13
PHENOL		1.698	2.4					13 U	13 U		13 U		30
PHENOL-D5		1.467	6.1										

TABLE D.6.10 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D108

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0108885	QA CONTINUING CAL %D LL0108887	QA CONTINUING CAL %D LL0108887	QA ISTD SHIFT LL0108888	RET TIM	BLDG. 321 SUMP LL025016F WATER UG/L 4	BLDG. 321 SUMP LL025027F WATER UG/L 4	BLDG. 492 SUMP LL026017F WATER UG/L 4
PYRENE		2.03	54.1		10 J	13 U		4 J
TERPHENYL-D14		1.039	30.9					
1,2-DICHLOROBENZENE		1.539	6		13 U	13 U	13 U	13 U
1,2,4-TRICHLOROBENZENE		0.401	0.3		13 U	13 U	13 U	13 U
1,3-DICHLOROBENZENE		1.56	12.6		13 U	13 U	13 U	13 U
1,4-DICHLOROBENZENE		1.595	14.8		13 U	13 U	13 U	13 U
2-CHLORONAPHTHALENE		1.32	18.9		13 U	13 U	13 U	13 U
2-CHLOROPHENOL		1.441	33.8		13 U	13 U	13 U	13 U
2-FLUOROBIPHENYL		1.38	24					
2-FLUOROPHENOL		1.172	18.3					
2-METHYLNAPHTHALENE		0.729	18.2		13 U	13 U	13 U	13 U
2-METHYLPHENOL		1.257	22.4		13 U	13 U	13 U	13 U
2-NITROANILINE		0.564	31.9		63 U	63 U	63 U	63 U
2-NITROPHENOL		0.245	4.1		13 U	13 U	13 U	13 U
2,4-DICHLOROPHENOL		0.369	8.8		13 U	13 U	13 U	13 U
2,4-DIMETHYLPHENOL		0.427	17.1		13 U	13 U	13 U	13 U
2,4-DINITROPHENOL		0.111	42.8		63 U	63 U	63 U	63 U
2,4-DINITROTOLUENE		0.48	1.5		13 U	13 U	13 U	13 U
2,4,5-TRICHLOROPHENOL		0.467	5.2		63 U	63 U	63 U	63 U
2,4,6-TRIBROMOPHENOL		0.157	17.1					
2,4,6-TRICHLOROPHENOL		0.427	5.9		13 U	13 U	13 U	13 U
2,6-DINITROTOLUENE		0.324	11.4		13 U	13 U	13 U	13 U
3-NITROANILINE		0.485	13.4		63 U	63 U	63 U	63 U
3,3'-DICHLOROBENZIDINE		0.131	10.8		25 U	25 U	25 U	25 U
4-BROMOPHENYL-PHENYLETHER		0.247	9.6		13 U	13 U	13 U	13 U
4-CHLORO-3-METHYLPHENOL		0.411	7.6		210	13 U	13 U	27
4-CHLOROANILINE		0.295	28.9		13 U	13 U	13 U	13 U
4-CHLOROPHENYL-PHENYLETHER		0.62	9.5		13 U	13 U	13 U	13 U
4-METHYLPHENOL		1.234	14.9		6	13 U	13 U	13 U
4-NITROANILINE		0.152	2.7		63 U	63 U	63 U	63 U
4-NITROPHENOL		0.181	21.6		63 U	63 U	63 U	63 U
4,6-DINITRO-2-METHYLPHENOL		0.118	30		63 U	63 U	63 U	63 U
SURR 1(NBZ) %RECOVERY					1 *	0 *		58
SURR 2(FBP) %RECOVERY					26 *	0 *		35 *
SURR 3(TPH) %RECOVERY					96	75		77
SURR 4(PHL) %RECOVERY					26	1 *		137 *
SURR 5(2FP) %RECOVERY					54	2 *		64
SURR 6(TBP) %RECOVERY					94	29		97

TABLE D.6.10 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D108

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	TUNED CALIBRATION LL0108885	CONTINUING CALIBRATION LL0108887	CONTINUING CAL XD LL0108887	ISTD RET SHIFT BLDG. 321 LL0108888	BLDG. 321 SUMP LL025016F	BLDG. 321 SUMP LL025027F	BLDG. 492 SUMP LL026017F
	%	RRF	%	AREA	WATER UG/L 4	WATER UG/L 4	WATER UG/L 4
M/E 51		45					
M/E 68-1		0					
M/E 68-2		0					
M/E 69		56					
M/E 70-1		0.6					
M/E 70-2		1.1					
M/E 127		44					
M/E 197		0					
M/E 198		100					
M/E 199		6.3					
M/E 275		21					
M/E 365		2.8					
M/E 441		12					
M/E 442		87					
M/E 443-1		16					
M/E 443-2		18					
INTERNAL STD AREA(ANT)				4710000	5350000	4550000	4750000
INTERNAL STD AREA(CRY)				4010000	2820000	3630000	3520000
INTERNAL STD AREA(DCB)				2390000	2830000	2240000	763000
INTERNAL STD AREA(NPT)				7970000	1E+07	7810000	1820000
INTERNAL STD AREA(PHN)				8140000	5500000	7400000	8100000
INTERNAL STD AREA(PRY)				1970000	1570000	2260000	1850000
DILUTION FACTOR					1.25	1.25	1.25
ACTUAL(ALLOWED) EXTRACT TIME				7(7 D)	8(7 D)	7(7 D)	
AREA				QA			
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	DRUM RACK SUMP LL032253E	BURN PIT PITS LL034131E	BLDG. 222 SEWERS LL912043A	METHOD BLANK SBKD108	EXP BURN PIT INACTIVE SIT SNO08049E	TRAILER STG ARROYO LL003043E	LAS POSITAS ARROYO LL006046E
ACENAPHTHENE	14 U 6	13 U 7	13 U 2	13 U 4	10 U 1	11 U 1	11 U 1

TABLE D.6.10 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D108

DRAFT DO NOT CITE

AREA	QA									
	LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	DRUM RACK SUMP LL032253E	BURN PIT PITS LL034131E	BLDG. 222 SEWERS LL912043A	METHOD BLANK SBKD108	EXP BURN PIT INACTIVE SIT SN008049E	TRAILER STG ARROYO LL003043E	LAS POSITAS ARROYO LL006046E		
	UG/L 6	UG/L 7	UG/L 2	UG/L	UG/L 4	UG/L 1	UG/L 1			
ACENAPHTHYLENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
ANTHRACENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
BENZO(A)ANTHRACENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
BENZO(A)PYRENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
BENZO(B)FLUORANTHENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
BENZO(G,H,I)PERYLENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
BENZO(K)FLUORANTHENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
BENZOIC ACID	71 U	63 U	50 J	63 U	50 U	56 U	56 U	56 U		
BENZYL ALCOHOL	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
BIS(2-CHLOROETHOXY)METHANE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
BIS(2-CHLOROISOPROPYL)ETHER	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
BIS(2-CHOROETHYL)ETHER	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
BIS(2-ETHYLHEXYL)PHTHALATE	3 JB	13 U	16 B	6 J	10 U	2 J	2 J	2 J		
BUTYL BENZYL PHTHALATE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
CHRYSENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
DI-N-BUTYLPHTHALATE	1 J	13 U	13 U	13 U	10 U	0.8 J	11 U	11 U		
DI-N-OCTYLPHTHALATE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
DIBENZ(A,H)ANTHRACENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
DIBENZOFURAN	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
DIETHYL PHTHALATE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
DIMETHYL PHTHALATE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
FLUORANTHENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
FLUORENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
HEXA CHLOROBENZENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
HEXA CHLOROBUTADIENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
HEXA CHLOROCYCLOPENTADIENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
HEXA CHLOROETHANE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
INDENO(1,2,3-CD)PYRENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
ISOPHORONE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
N-NITROSO-DI-N-PROPYLAMINE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
N-NITROSODIPHENYLAMINE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
NAPHTHALENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
NITROBENZENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
NITROBENZENE-D5	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
PENTACHLOROPHENOL	71 U	63 U	63 U	63 U	50 U	56 U	56 U	56 U		
PHENANTHRENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
PHENOL	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		
PHENOL-D5										
PYRENE	14 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U		

TABLE D.6.10 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D108

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	DRUM SUMP LL032253E	RACK PITS LL034131E	BURN PIT WATER UG/L 6	BLDG. 222 SEWERS LL912043A	QA METHOD BLANK SBKD108	EXP INACTIVE SIT SN008049E	BURN PIT WATER UG/L 4	TRAILER STG ARROYO LL003043E	LAS POSITAS ARROYO LL006046E
TERPHENYL-D14									
1,2-DICHLOROBENZENE	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
1,3-DICHLOROBENZENE	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
1,4-DICHLOROBENZENE	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
2-CHLORONAPHTHALENE	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
2-CHLOROPHENOL	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
2-FLUOROBIPHENYL									
2-FLUOROPHENOL									
2-METHYLNAPHTHALENE	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
2-METHYLPHENOL	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
2-NITROANILINE	71 U	63 U	63 U	63 U	63 U	50 U	56 U	56 U	56 U
2-NITROPHENOL	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
2,4-DICHLOROPHENOL	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
2,4-DIMETHYLPHENOL	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
2,4-DINITROPHENOL	71 U	63 U	63 U	63 U	63 U	50 U	56 U	56 U	56 U
2,4-DINITROTOLUENE	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL	71 U	63 U	63 U	63 U	63 U	50 U	56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL									
2,4,6-TRICHLOROPHENOL	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
2,6-DINITROTOLUENE	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
3-NITROANILINE	71 U	63 U	63 U	63 U	63 U	50 U	56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE	29 U	25 U	25 U	25 U	25 U	20 U	22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
4-CHLOROANILINE	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
4-METHYLPHENOL	14 U	13 U	13 U	13 U	13 U	10 U	11 U	11 U	11 U
4-NITROANILINE	71 U	63 U	63 U	63 U	63 U	50 U	56 U	56 U	56 U
4-NITROPHENOL	71 U	63 U	63 U	63 U	63 U	50 U	56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL	71 U	63 U	63 U	63 U	63 U	50 U	56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY	20 *	20 *	0 *	0 *	37	0 *	0 *	0 *	0 *
SURR 2(FBP) %RECOVERY	28 *	28 *	3 *	0 *	42 *	0 *	0 *	0 *	0 *
SURR 3(TPH) %RECOVERY	72	70	56	77	71	84	77		
SURR 4(PHL) %RECOVERY	14	2 *	11	0 *	35	0 *	0 *	0 *	0 *
SURR 5(2FP) %RECOVERY	11 *	1 *	25	0 *	50	0 *	0 *	0 *	0 *
SURR 6(TBP) %RECOVERY	23	7 *	56	3 *	72	4 *	4 *	19	

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TABLE D.6.10 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D108

DRAFT DO NOT CITE

## AREA

## QA

LOCATION	DRUM RACK	BURN PIT	BLDG. 222	METHOD	EXP	BURN PIT	TRAILER STG	LAS POSITAS
TYPE OF LOCATION	SUMP	PITS	SEWERS	BLANK	INACTIVE	SIT	ARROYO	ARROYO
SAMPLE NUMBER	LL032253E	LL034131E	LL912043A	SBKD108	SN008049E		LL003043E	LL006046E
MATRIX	WATER	WATER	WATER	WATER	WATER		WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L		UG/L	UG/L
ENV PROBLEM NO	6	7	2		4	1		1

M/E 68-1  
M/E 68-2  
M/E 69  
M/E 70-1  
M/E 70-2  
M/E 127  
M/E 197  
M/E 198  
M/E 199  
M/E 275  
M/E 365  
M/E 441  
M/E 442  
M/E 443-1  
M/E 443-2

INTERNAL STD AREA(ANT)	5040000	6050000	6400000	5970000	6320000	5960000	6210000
INTERNAL STD AREA(CRY)	4050000	5100000	4880000	4470000	4690000	4470000	5080000
INTERNAL STD AREA(DCB)	2350000	2640000	2770000	2790000	2920000	2930000	3070000
INTERNAL STD AREA(NPT)	8660000	1E+07	1E+07	9880000	1E+07	1E+07	1E+07
INTERNAL STD AREA(PHN)	8280000	1E+07	1E+07	9990000	9760000	1E+07	1E+07
INTERNAL STD AREA(PRY)	2150000	2730000	2520000	2500000	2280000	2380000	2850000

DILUTION FACTOR	1.43	1.25	1.25	1.25	1	1.11	1.11
ACTUAL(ALLOWED) EXTRACT TIME	9(7 D)	9(7 D)	7(7 D)	12(7 D)	5(7 D)	5(7 D)	5(7 D)

TABLE D.6.11 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D111

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0111885	QA CONTINUING CALibration LL0111887	QA CONTINUING CAL XD LL0111887	QA ISTD SHIFT LL0111888	QA RET TIM	METHOD BLANK SBKD111	BLDG. 131 SEWERS LL012022A	BLDG. 169 SEWERS LL012088A
	%	RRF	%	AREA	WATER UG/L	WATER UG/L	2	WATER UG/L
ACENAPHTHENE		1.266	19.7		11 U	10 U	10 U	10 U
ACENAPHTHYLENE		1.904	44.8		11 U	10 U	10 U	10 U
ANTHRACENE		1.134	40		11 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE		1.154	9.1		11 U	10 U	10 U	10 U
BENZO(A)PYRENE		1.123	2.7		11 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE		1.404	2.5		11 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE		0.918	17.9		11 U	10 U	10 U	10 U
BENZO(K)FLUORANTHENE		1.104	12.4		11 U	10 U	10 U	10 U
BENZOIC ACID		0.164	34.3		55	950	750	750
BENZYL ALCOHOL		0	100		11 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY)METHANE		0.521	4.5		11 U	10 U	10 U	10 U
BIS(2-CHLOROISOPROPYL)ETHER		2.913	20.8		11 U	10 U	10 U	10 U
BIS(2-CHROETHYL)ETHER		1.459	9.6		11 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE		1.201	41.8		11 U	39 B	51 B	51 B
BUTYLBENZYLPHthalate		1.019	42.7		11 U	10 U	10 U	10 U
CHRYSENE		1.081	11.5		11 U	10 U	10 U	10 U
DI-N-BUTYLPHTHALATE		1.664	70.7		11 U	10 U	94	94
DI-N-OCTYLPHTHALATE		2.683	89.1		11 U	10 U	10 U	10 U
DIBENZ(A,H)ANTHRACENE		0.844	14.8		11 U	10 U	10 U	10 U
DIBENZOFURAN		1.65	22.1		11 U	10 U	10 U	10 U
DIETHYLPHthalate		1.583	47.3		11 U	10 U	10 U	10 U
DIMETHYLPHthalate		1.458	2		11 U	10 U	10 U	10 U
FLUORANTHENE		1.095	22.7		11 U	10 U	10 U	10 U
FLUORENE		1.354	20.1		11 U	10 U	10 U	10 U
HEXACHLOROBENZENE		0.359	9		11 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE		0.237	0		11 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE		0.236	22.1		11 U	10 U	10 U	10 U
HEXACHLOROETHANE		0.792	26.7		11 U	10 U	10 U	10 U
INDENO(1,2,3-CD)PYRENE		0.84	1.7		11 U	10 U	10 U	10 U
ISOPHORONE		0.945	3		11 U	10 U	10 U	10 U
N-NITROSO-DI-N-PROPYLAMINE		1.234	14.2		11 U	10 U	10 U	10 U
N-NITROSODIPHENYLAMINE		0.56	47.1		11 U	10 U	10 U	10 U
NAPHTHALENE		1.112	31.6		11 U	10 U	10 U	10 U
NITROBENZENE		0.51	11.6		11 U	10 U	10 U	10 U
NITROBENZENE-D5		0.471	11.2		11 U	10 U	10 U	10 U
PENTACHLOROPHENOL		0.109	44.6		55	50	50	50 U
PHENANTHRENE		1.172	37.1		11 U	10 U	10 U	10 U
PHENOL		1.829	10.3		11 U	10 U	10 U	10 U
PHENOL-D5		1.602	15.9		11 U	10 U	10 U	10 U

TABLE D.6.11 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D111

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0111885	QA CONTINUING CAL X'D LL0111887	QA CONTINUING CAL X'D LL0111887	QA ISTD SHIFT LL0111888	QA RET TIM	METHOD BLANK SBKD111 WATER UG/L	BLDG. 131 SEWERS LL012022A	BLDG. 169 SEWERS LL012088A
	%	RRF	%	AREA			WATER UG/L 2	WATER UG/L 2
PYRENE		1.919	45.7		11 U		10 U	10 U
TERPHENYL-D14		1.091	37.4					
1,2-DICHLOROBENZENE		1.672	15.2		11 U		10 U	10 U
1,2,4-TRICHLOROBENZENE		0.39	2.8		11 U		10 U	10 U
1,3-DICHLOROBENZENE		1.621	16.9		11 U		10 U	10 U
1,4-DICHLOROBENZENE		1.763	26.9		11 U		10 U	10 U
2-CHLORONAPHTHALENE		1.3	17.1		11 U		10 U	10 U
2-CHLOROPHENOL		1.496	39		11 U		10 U	10 U
2-FLUOROBIPHENYL		1.249	12.3					
2-FLUOROPHENOL		1.221	23.3					
2-METHYLNAPHTHALENE		0.898	45.6		11 U		10 U	10 U
2-METHYLPHENOL		1.312	27.7		11 U		10 U	10 U
2-NITROANILINE		0.538	26		55 U		50 U	50 U
2-NITROPHENOL		0.238	1		11 U		10 U	10 U
2,4-DICHLOROPHENOL		0.356	5		11 U		10 U	10 U
2,4-DIMETHYLPHENOL		0.403	10.3		11 U		10 U	10 U
2,4-DINITROPHENOL		0.088	54.7		55 U		50 U	50 U
2,4-DINITROTOLUENE		0.475	2.4		11 U		10 U	10 U
2,4,5-TRICHLOROPHENOL		0.42	5.5		55 U		50 U	50 U
2,4,6-TRIBROMOPHENOL		0.164	13.1					
2,4,6-TRICHLOROPHENOL		0.418	8		11 U		10 U	10 U
2,6-DINITROTOLUENE		0.376	2.8		11 U		10 U	10 U
3-NITROANILINE		0.469	9.7		55 U		50 U	50 U
3,3'-DICHLOROBENZIDINE		0.158	34.4		22 U		20 U	20 U
4-BROMOPHENYL-PHENYLETHER		0.274	0.5		11 U		10 U	10 U
4-CHLORO-3-METHYLPHENOL		0.374	2.1		11 U		10 U	10 U
4-CHLOROANILINE		0.181	20.9		11 U		10 U	10 U
4-CHLOROPHENYL-PHENYLETHER		0.615	8.6		11 U		10 U	10 U
4-METHYLPHENOL		1.265	17.8		11 U		28	39
4-NITROANILINE		0.169	31.9		55 U		50 U	50 U
4-NITROPHENOL		0.141	5.3		55 U		50 U	50 U
4,6-DINITRO-2-METHYLPHENOL		0.099	41.3		55 U		50 U	50 U
SURR 1(NBZ) %RECOVERY					0 *		0 *	1 *
SURR 2(FBP) %RECOVERY					0 *		42 *	39 *
SURR 3(TPH) %RECOVERY					89	107		117
SURR 4(PHL) %RECOVERY					0 *		31	22
SURR 5(2FP) %RECOVERY					0 *		9 *	3 *
SURR 6(TBP) %RECOVERY					46	78		93

TABLE D.6.11 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D111

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	BLDG. 131 SEWERS LL012022A 2	BLDG. 169 SEWERS LL012088A 2
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL X/D	ISTD SHIFT	RET TIM METHOD		
TYPE OF LOCATION	LL0111885	LL0111887	LL0111887	LL0111888	BLANK SBKD111 WATER UG/L		
SAMPLE NUMBER				AREA			
MATRIX							
UNITS	%	RRF	%				
ENV PROBLEM NO							
M/E 51		58					
M/E 68-1		0					
M/E 68-2		0					
M/E 69		71					
M/E 70-1		0					
M/E 70-2		0					
M/E 127		51					
M/E 197		0					
M/E 198		100					
M/E 199		6.7					
M/E 275		22					
M/E 365		2.4					
M/E 441		11					
M/E 442		67					
M/E 443-1		13					
M/E 443-2		19					
INTERNAL STD AREA(ANT)				4720000	4080000	4500000	4610000
INTERNAL STD AREA(CRY)				3930000	2840000	2890000	2970000
INTERNAL STD AREA(DCB)				2280000	1880000	2250000	2150000
INTERNAL STD AREA(NPT)				8310000	6440000	7780000	8230000
INTERNAL STD AREA(PHN)				7450000	6750000	6920000	7700000
INTERNAL STD AREA(PRY)				2360000	1540000	1210000	1270000
DILUTION FACTOR				1.11		1	
ACTUAL(ALLOWED) EXTRACT TIME					7(7 D)		7(7 D)
AREA					QA		
LOCATION	BLDG. 298	BLDG. 321	BLDG. 322	BLDG. 511	GSA AREA	METHOD	
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	WELLS	BLANK	
SAMPLE NUMBER	LL012204A	LL012237A	LL012260A	LL012704A	LL036224E	SBKD1112	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	2	2	2	2	9		
ACENAPHTHENE	10 U	10 U	10 U	10 U	10 U		

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TABLE D.6.11 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D111

DRAFT DO NOT CITE

AREA	BLDG. 298 SEWERS LL012204A WATER UG/L 2	BLDG. 321 SEWERS LL012237A WATER UG/L 2	BLDG. 322 SEWERS LL012260A WATER UG/L 2	BLDG. 511 SEWERS LL012704A WATER UG/L 2	GSA AREA WELLS LL036224E WATER UG/L 9	QA METHOD BLANK SBKD1112 WATER UG/L
ACENAPHTHYLENE	10 U	10 U	10 U	10 U	10 U	10 U
ANTHRACENE	10 U	10 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	10 U	10 U	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	10 U	10 U	10 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	10 U	10 U	10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	10 U	10 U	10 U	10 U	10 U	10 U
BENZO(K)FLUORANTHENE	10 U	10 U	10 U	10 U	10 U	10 U
BENZOIC ACID	320 E	50 U	50 U	50 U	50 U	50 U
BENZYL ALCOHOL	57	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY)METHANE	10 U	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROISOPROPYL)ETHER	10 U	10 U	10 U	10 U	10 U	10 U
BIS(2-CHOROETHYL)ETHER	10 U	10 U	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	97 B	59 B	27 B	10 U	11 B	
BUTYL BENZYL PHTHALATE	10 U	10 U	10 U	10 U	4 J	
CHRYSENE	10 U	10 U	10 U	10 U	10 U	
DI-N-BUTYL PHTHALATE	10 U	10 U	10 U	10 U	10 U	
DI-N-OCTYL PHTHALATE	10 U	10 U	10 U	10 U	10 U	
DIBENZ(A,H)ANTHRACENE	10 U	10 U	10 U	10 U	10 U	
DIBENZOFURAN	10 U	10 U	10 U	10 U	10 U	
DIETHYL PHTHALATE	10 U	10 U	10 U	10 U	10 U	
DIMETHYL PHTHALATE	10 U	10 U	10 U	10 U	10 U	
FLUORANTHENE	10 U	10 U	10 U	10 U	10 U	
FLUORENE	10 U	10 U	10 U	10 U	10 U	
HEXACHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	
HEXACHLOROBUTADIENE	10 U	10 U	10 U	10 U	10 U	
HEXACHLOROCYCLOPENTADIENE	10 U	10 U	10 U	10 U	10 U	
HEXACHLOROETHANE	10 U	10 U	10 U	10 U	10 U	
INDENO(1,2,3-CD)PYRENE	10 U	10 U	10 U	10 U	10 U	
ISOPHORONE	10 U	10 U	10 U	10 U	10 U	
N-NITROSO-DI-N-PROPYLAMINE	10 U	10 U	10 U	10 U	10 U	
N-NITROSODIPHENYLAMINE	10 U	10 U	10 U	10 U	10 U	
NAPHTHALENE	10 U	10 U	10 U	10 U	10 U	
NITROBENZENE	10 U	10 U	10 U	10 U	10 U	
NITROBENZENE-D5						
PENTACHLOROPHENOL	50 U	50 U	50 U	50 U	50 U	
PHENANTHRENE	10 U	10 U	10 U	10 U	10 U	
PHENOL	10 U	10 U	10 U	10 U	10 U	
PHENOL-D5						
PYRENE	10 U	10 U	10 U	10 U	10 U	

TABLE D.6.11 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D111

AREA	QA		BLDG. 511 SEWERS LL012704A	GSA AREA WELLS LL036224E	METHOD BLANK SBKD1112 WATER UG/L
	BLDG. 298 SEWERS LL012204A	BLDG. 322 SEWERS LL012237A			
TERPHENYL-D14	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	10 U	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	10 U	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	10 U	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	10 U	10 U	10 U	10 U	10 U
2-CHLORONAPHTHALENE	10 U	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	2	2	2	2	2
2-FLUOROBIPHENYL	10 U	10 U	10 U	10 U	10 U
2-FLUOROPHENOL	10 U	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	10 U	10 U	10 U	10 U	10 U
2-METHYLPHENOL	50	50	50	50	50
2-NITROANILINE	10 U	10 U	10 U	10 U	10 U
2-NITROPHENOL	10 U	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	10 U	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	50	50	50	50	50
2,4-DINITROPHENOL	10 U	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	50	50	50	50	50
2,4,5-TRICHLOROPHENOL	10 U	10 U	10 U	10 U	10 U
2,4,6-TRIBROMOPHENOL	10 U	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	10 U	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	50	50	50	50	50
3-NITROANILINE	20	20	20	20	20
3,3'-DICHLOROBENZIDINE	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL-PHENYLETHER	10 U	10 U	10 U	10 U	10 U
4-CHLORO-3-METHYLPHENOL	10 U	10 U	10 U	10 U	10 U
4-CHLORODAANILINE	10 U	10 U	10 U	10 U	10 U
6-CHLOROPHENYL-PHENYLETHER	10 U	10 U	10 U	10 U	10 U
q-METHYLPHENOL	50 U	50 U	50 U	50 U	50 U
q-NITROANILINE	50 U	50 U	50 U	50 U	50 U
q-NITROPHENOL	50 U	50 U	50 U	50 U	50 U
q,6-DINITRO-2-METHYLPHENOL	50 U	50 U	50 U	50 U	50 U
SURR 1(NBZ) %RECOVERY	0 x	0 x	0 x	0 x	0 x
SURR 2(FBP) %RECOVERY	13 x	18 x	0 x	0 x	0 x
SURR 3(TPH) %RECOVERY	100	119	108	117	122
SURR 4(PHL) %RECOVERY	38	25	3 x	0 x	0 x
SURR 5(ZFP) %RECOVERY	15 x	3 x	1 x	0 x	0 x
SURR 6(TBP) %RECOVERY	86	88	63	32	55

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TABLE D.6.11 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D111

DRAFT DO NOT CITE

AREA	BLDG. 298 SEWERS LL012204A	BLDG. 321 SEWERS LL012237A	BLDG. 322 SEWERS LL012260A	BLDG. 511 SEWERS LL012704A	GSA AREA WELLS LL036224E	METHOD BLANK SBKD1112
ENV PROBLEM NO	2	2	2	2	9	
M/E 68-1						
M/E 68-2						
M/E 69						
M/E 70-1						
M/E 70-2						
M/E 127						
M/E 197						
M/E 198						
M/E 199						
M/E 275						
M/E 365						
M/E 441						
M/E 442						
M/E 443-1						
M/E 443-2						
INTERNAL STD AREA(ANT)	4380000	4350000	4490000	3850000	4610000	4310000
INTERNAL STD AREA(CRY)	2910000	2970000	3280000	2570000	2790000	2470000
INTERNAL STD AREA(DCB)	2120000	2050000	2110000	1830000	2020000	2040000
INTERNAL STD AREA(NPT)	7520000	7950000	7600000	6340000	7040000	6430000
INTERNAL STD AREA(PHN)	6900000	7450000	7490000	6210000	7120000	6830000
INTERNAL STD AREA(PRY)	1250000	1310000	1430000	1210000	1280000	1100000
DILUTION FACTOR						1
ACTUAL(ALLOWED) EXTRACT TIME	7(7 D) <sup>1</sup>	7(7 D) <sup>1</sup>	7(7 D) <sup>1</sup>	7(7 D) <sup>1</sup>	6(7 D) <sup>1</sup>	

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TABLE D.6.12 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D112

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	ISTD	RET	TIM	BLDG.	231	BLDG.	231
LOCATION	BLDG.	322	TUNED	CONTINUING	CONTINUING	SHIFT	SUMP	BLDG.	231	SUMP	BLDG.
TYPE OF LOCATION	SEWERS	LL012259A	CALIBRATION	CALIBRATION	CAL XD	LL0112888	LL022013E	WATER	WATER	LL022024E	WATER
SAMPLE NUMBER								UG/L	UG/L	UG/L	UG/L
MATRIX								4	4	4	4
UNITS											
ENV PROBLEM NO			X	RRF	X	AREA					
ACENAPHTHENE		11 U		1.195	2.5			11 U	11 U	11 U	11 U
ACENAPHTHYLENE		11 U		1.856	7.5			11 U	11 U	11 U	11 U
ANTHRACENE		11 U		1.04	1.5			11 U	11 U	11 U	11 U
BENZO(A)ANTHRACENE		11 U		1.044	16.4			11 U	11 U	11 U	11 U
BENZO(A)PYRENE		11 U		1.135	17.3			11 U	11 U	11 U	11 U
BENZO(B)FLUORANTHENE		11 U		1.429	4.1			11 U	11 U	11 U	11 U
BENZO(G,H,I)PERYLENE		11 U		0.97	22.5			11 U	11 U	11 U	11 U
BENZO(K)FLUORANTHENE		11 U		1.092	20.4			11 U	11 U	11 U	11 U
BENZOIC ACID		56 U		0.118	53.5			58	56		
BENZYL ALCOHOL		11 U		0	100			11 U	11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE		11 U		0.499	0.8			11 U	11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER		11 U		2.617	8.2			11 U	11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER		11 U		2.704	92.3			11 U	11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE		17		1.23	50.3			7 J	6 J		
BUTYL BENZYL PHTHALATE		11 U		0.947	53.6			11 U	11 U	11 U	11 U
CHRYSENE		11 U		0.962	22.8			11 U	11 U	11 U	11 U
DI-N-BUTYL PHTHALATE		11 U		1.611	69.4			4 J	1 J		
DI-N-OCTYL PHTHALATE		11 U		2.772	68.2			11 U	11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE		11 U		0.761	36.5			11 U	11 U	11 U	11 U
DIBENZOFURAN		11 U		1.58	3.1			11 U	11 U	11 U	11 U
DIETHYL PHTHALATE		11 U		1.622	30.3			7 J	11 U	11 U	11 U
DIMETHYL PHTHALATE		11 U		1.388	13.8			11 U	11 U	11 U	11 U
FLUORANTHENE		11 U		0.946	20.6			11 U	11 U	11 U	11 U
FLUORENE		11 U		1.249	2			11 U	11 U	11 U	11 U
HEXA CHLOROBENZENE		11 U		0.328	29.4			11 U	11 U	11 U	11 U
HEXA CHLOROBUTADIENE		11 U		0.235	14.8			11 U	11 U	11 U	11 U
HEXA CHLOROCYCLOPENTADIENE		11 U		0.169	66.8			11 U	11 U	11 U	11 U
HEXA CHLOROETHANE		11 U		0.751	4.4			11 U	11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE		11 U		0.828	37.6			11 U	11 U	11 U	11 U
ISOPHORONE		11 U		0.919	2.5			11 U	11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE		11 U		1.099	3.6			11 U	11 U	11 U	11 U
N-NITROSODIPHENYLAMINE		11 U		0.564	2.4			11 U	11 U	11 U	11 U
NAPHTHALENE		11 U		1.123	15.9			11 U	11 U	11 U	11 U
NITROBENZENE		11 U		0.462	4.4			11 U	11 U	11 U	11 U
NITROBENZENE-D5				0.433	2.7						
PENTACHLOROPHENOL		56 U		0.04	80.3			56 U	56 U	56 U	56 U
PHENANTHRENE		11 U		1.025	2.8			11 U	11 U	11 U	11 U
PHENOL		11 U		1.503	14			11 U	11 U	11 U	11 U
PHENOL-D5				1.346	16.1						

TABLE D.6.12 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D112

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	ISTD	RET	TIM	BLDG.	BLDG.
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 322 SEWERS LL012259A	TUNED CALIBRATION LL0112885	CONTINUING CALIBRATION LL0112887	CONTINUING CAL %D LL0112887	SHIFT LL0112888	SUMP LL022013E	WATER UG/L 4	231	SUMP LL022024E
PYRENE	11 U		1.939	5.9				11 U	11 U
TERPHENYL-D14			1.038	13					
1,2-DICHLOROBENZENE	11 U		1.542	1.7				11 U	11 U
1,2,4-TRICHLOROBENZENE	11 U		0.37	14.1				11 U	11 U
1,3-DICHLOROBENZENE	11 U		1.474	7				11 U	11 U
1,4-DICHLOROBENZENE	11 U		1.576	0.4				11 U	11 U
2-CHLORONAPHTHALENE	11 U		1.146	12				11 U	11 U
2-CHLOROPHENOL	11 U		1.289	4.3				11 U	11 U
2-FLUOROBIPHENYL			1.234	10.7					
2-FLUOROPHENOL			0.981	21.2					
2-METHYLNAPHTHALENE	11 U		0.933	28.2				11 U	11 U
2-METHYLPHENOL	11 U		1.273	1.2				11 U	11 U
2-NITROANILINE	56 U		0.503	12.5				56 U	56 U
2-NITROPHENOL	11 U		0.194	24.9				11 U	11 U
2,4-DICHLOROPHENOL	11 U		0.322	13.7				11 U	11 U
2,4-DIMETHYLPHENOL	11 U		0.349	16.3				11 U	11 U
2,4-DINITROPHENOL	56 U		0.018	89.2				56 U	56 U
2,4-DINITROTOLUENE	11 U		0.378	8.7				11 U	11 U
2,4,5-TRICHLOROPHENOL	56 U		0.295	36.2				56 U	56 U
2,4,6-TRIBROMOPHENOL			0.131	54.4					
2,4,6-TRICHLOROPHENOL	11 U		0.338	29.7				11 U	11 U
2,6-DINITROTOLUENE	11 U		0.319	20				11 U	11 U
3-NITROANILINE	56 U		0.424	8.8				56 U	56 U
3,3'-DICHLOROBENZIDINE	22 U		0.208	21.5				22 U	22 U
4-BROMOPHENYL-PHENYLETHER	11 U		0.233	37.1				11 U	11 U
4-CHLORO-3-METHYLPHENOL	11 U		0.36	3.6				27	11 U
4-CHLOROANILINE	11 U		0.185	62.3				11 U	11 U
4-CHLOROPHENYL-PHENYLETHER	11 U		0.571	2.8				11 U	11 U
4-METHYLPHENOL	11 U		1.473	7.6				67	11 U
4-NITROANILINE	56 U		0.18	9.6				56 U	56 U
4-NITROPHENOL	56 U		0.105	17.5				56 U	56 U
4,6-DINITRO-2-METHYLPHENOL	56 U		0.053	68.1				56 U	56 U
SURR 1(NBZ) %RECOVERY	0 *							16 *	0 *
SURR 2(FBP) %RECOVERY	0 *							59	0 *
SURR 3(TPH) %RECOVERY	75							61	109
SURR 4(PHL) %RECOVERY	0 *							44	0 *
SURR 5(2FP) %RECOVERY	0 *							7 *	0 *
SURR 6(TBP) %RECOVERY	43							73	6 *

TABLE D.6.12 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D112

DRAFT DO NOT CITE

## AREA

LOCATION  
TYPE OF LOCATION  
SAMPLE NUMBER  
MATRIX  
UNITS  
ENV PROBLEM NO

BLDG.	322	TUNED SEWERS	CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL X'D	ISTD SHIFT	RET	TIM	BLDG.	231	BLDG.	231
LL012259A		LL0112885		LL0112887		LL0112888			LL022013E		SUMP	SUMP
WATER				RRF			X			WATER	WATER	
UG/L	2								4	UG/L	4	

M/E 51	61
M/E 68-1	0.97
M/E 68-2	1.2
M/E 69	78
M/E 70-1	2.4
M/E 70-2	3
M/E 127	50
M/E 197	0
M/E 198	100
M/E 199	6.3
M/E 275	19
M/E 365	2.7
M/E 441	80
M/E 442	75
M/E 443-1	14
M/E 443-2	18

INTERNAL STD AREA(ANT)	462000		1230000	3410000	3960000
INTERNAL STD AREA(CRY)	306000		856000	1760000	1850000
INTERNAL STD AREA(DCB)	190000		648000	1680000	1920000
INTERNAL STD AREA(NPT)	689000		2140000	6180000	6180000
INTERNAL STD AREA(PHN)	658000		1810000	5070000	6150000
INTERNAL STD AREA(PRY)	225000		510000	866000	898000

DILUTION FACTOR  
ACTUAL(ALLOWED) EXTRACT TIME

1.1  
6(7 D)

1.1  
7(7 D)

1.1  
7(7 D)

## AREA

LOCATION  
TYPE OF LOCATION  
SAMPLE NUMBER  
MATRIX  
UNITS  
ENV PROBLEM NO

ARROYO SECO	BLDG. 169	BLDG. 321	BLDG. 131
ARROYO	SEWERS	SEWERS	SEWERS
LL001041E	LL012077A	LL012226A	LL012011A
WATER	WATER	WATER	WATER
UG/L	UG/L	UG/L	UG/L

## ACENAPHTHENE

11 U      11 U      11 U      11 U

TABLE D.6.12 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D112

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ARROYO ARROYO LL001041E WATER UG/L	SECO SEWERS LL012077A WATER UG/L	BLDG. 169 BLDG. 321 LL012226A WATER UG/L	BLDG. 131 SEWERS LL012011A WATER UG/L
	1	2	2	2
ACENAPHTHYLENE	11 U	11 U	11 U	11 U
ANTHRACENE	11 U	11 U	11 U	11 U
BENZO(A)ANTHRACENE	11 U	11 U	11 U	11 U
BENZO(A)PYRENE	11 U	11 U	11 U	11 U
BENZO(B)FLUORANTHENE	11 U	11 U	11 U	11 U
BENZO(G,H,I)PERYLENE	11 U	11 U	11 U	11 U
BENZO(K)FLUORANTHENE	11 U	11 U	11 U	11 U
BENZOIC ACID	56 U	2400 E	440 E	740 E
BENZYL ALCOHOL	11 U	11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE	11 U	11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER	11 U	11 U	11 U	11 U
BIS(2-CHOROETHYL)ETHER	11 U	11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE	7 J	25	17	50
BUTYL BENZYL PHTHALATE	11 U	11 U	11 U	11 U
CHRYSENE	11 U	11 U	11 U	11 U
DI-N-BUTYL PHTHALATE	11 U	11 U	3 J	11 U
DI-N-OCTYL PHTHALATE	11 U	11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE	11 U	11 U	11 U	11 U
DIBENZOFURAN	11 U	11 U	11 U	11 U
DIETHYL PHTHALATE	11 U	7 J	5 J	11 U
DIMETHYL PHTHALATE	11 U	11 U	11 U	11 U
FLUORANTHENE	11 U	11 U	11 U	11 U
FLUORENE	11 U	11 U	11 U	11 U
HEXACHLOROBENZENE	11 U	11 U	11 U	11 U
HEXA CHLOROBUTADIENE	11 U	11 U	11 U	11 U
HEXA CHLOROCYCLOPENTADIENE	11 U	11 U	11 U	11 U
HEXA CHLOROETHANE	11 U	11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE	11 U	11 U	11 U	11 U
ISOPHORONE	11 U	11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE	11 U	11 U	11 U	11 U
N-NITROSODIPHENYLAMINE	11 U	11 U	11 U	11 U
NAPHTHALENE	11 U	11 U	11 U	11 U
NITROBENZENE	11 U	11 U	11 U	11 U
NITROBENZENE-D5				
PENTACHLOROPHENOL	56 U	56 U	56 U	56 U
PHENANTHRENE	11 U	11 U	11 U	11 U
PHENOL	11 U	11 U	4 J	11 U
PHENOL-D5				
PYRENE	11 U	11 U	11 U	11 U

TABLE D.6.12 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D112

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ARROYO SECO ARROYO LL001041E WATER UG/L 1	BLDG. 169 SEWERS LL012077A WATER UG/L 2	BLDG. 321 SEWERS LL012226A WATER UG/L 2	BLDG. 131 SEWERS LL012011A WATER UG/L 2
TERPHENYL-D14				
1,2-DICHLOROBENZENE	11 U	11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE	11 U	11 U	11 U	11 U
1,3-DICHLOROBENZENE	11 U	11 U	11 U	11 U
1,4-DICHLOROBENZENE	11 U	11 U	11 U	11 U
2-CHLORONAPHTHALENE	11 U	11 U	11 U	11 U
2-CHLOROPHENOL	11 U	11 U	11 U	11 U
2-FLUOROBIPHENYL				
2-FLUOROPHENOL				
2-METHYLNAPHTHALENE	11 U	11 U	11 U	11 U
2-METHYLPHENOL	11 U	11 U	11 U	11 U
2-NITROANILINE	56 U	56 U	56 U	56 U
2-NITROPHENOL	11 U	11 U	11 U	11 U
2,4-DICHLOROPHENOL	11 U	11 U	11 U	11 U
2,4-DIMETHYLPHENOL	11 U	11 U	11 U	11 U
2,4-DINITROPHENOL	56 U	56 U	56 U	56 U
2,4-DINITROTOLUENE	11 U	11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL	56 U	56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL				
2,4,6-TRICHLOROPHENOL	11 U	11 U	11 U	11 U
2,6-DINITROTOLUENE	11 U	11 U	11 U	11 U
3-NITROANILINE	56 U	56 U	56 U	56 U
3,51-DICHLOROBENZIDINE	22 U	22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL	11 U	11 U	11 U	11 U
4-CHLOROANILINE	11 U	11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U
4-METHYLPHENOL	11 U	11 U	12	11 U
4-NITROANILINE	56 U	56 U	56 U	56 U
4-NITROPHENOL	56 U	56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL	56 U	56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY	0 x	0 x	6 x	0 x
SURR 2(FBP) %RECOVERY	0 x	5 x	50	0 x
SURR 3(TPH) %RECOVERY	117	72	76	70
SURR 4(PHL) %RECOVERY	0 x	0 x	54	0 x
SURR 5(2FP) %RECOVERY	0 x	0 x	14 x	0 x
SURR 6(TBP) %RECOVERY	17	90	98	84

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TABLE D.6.12 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D112

DRAFT DO NOT CITE

## AREA

LOCATION	ARROYO SECO	BLDG. 169	BLDG. 321	BLDG. 131
TYPE OF LOCATION	ARROYO	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL001041E	LL012077A	LL012226A	LL012011A
MATRIX	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	1	2	2	2
M/E 68-1				
M/E 68-2				
M/E 69				
M/E 70-1				
M/E 70-2				
M/E 127				
M/E 197				
M/E 198				
M/E 199				
M/E 275				
M/E 365				
M/E 441				
M/E 442				
M/E 443-1				
M/E 443-2				
INTERNAL STD AREA(ANT)	3710000	440000	3750000	648000
INTERNAL STD AREA(CRY)	1660000	329000	1920000	482000
INTERNAL STD AREA(DCB)	1690000	187000	1780000	292000
INTERNAL STD AREA(NPT)	5170000	619000	6000000	946000
INTERNAL STD AREA(PHN)	4910000	588000	5910000	962000
INTERNAL STD AREA(PRY)	823000	253000	873000	350000
DILUTION FACTOR		1.1		
ACTUAL(ALLOWED) EXTRACT TIME	7(7 D)	6(7 D)	6(7 D)	6(7 D)

TABLE D.6.13 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D113

DRAFT DO NOT CITE

AREA	QA ISTD SHIFT LL0113888	QA RET TIM LL0113885	QA TUNED CALIBRATION LL0113887	QA CONTINUING CALIBRATION LL0113887	QA CONTINUING CAL X'D LL0113887	BLDG. 298 SEWERS LL012191A WATER UG/L 2	BLDG. 511 SEWERS LL012691A WATER UG/L 2	BLDG. 511 SEWERS LL012679A WATER UG/L 2
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	AREA	X	RRF	X	X			
ACENAPHTHENE				1.24	1.2	11 U	11 U	11 U
ACENAPHTHYLENE				1.904	10.3	11 U	11 U	11 U
ANTHRACENE				1.082	5.7	11 U	11 U	11 U
BENZO(A)ANTHRACENE				1.142	8.6	11 U	11 U	11 U
BENZO(A)PYRENE				1.199	12.7	11 U	11 U	11 U
BENZO(B)FLUORANTHENE				1.205	12.2	11 U	11 U	11 U
BENZO(G,H,I)PERYLENE				0.805	35.7	11 U	11 U	11 U
BENZO(K)FLUORANTHENE				1.205	12.2	11 U	11 U	11 U
BENZOIC ACID				0.107	58.1	520 E	56 U	56 U
BENZYL ALCOHOL				0	0	11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE				0.523	3.9	11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER				2.574	6.4	11 U	11 U	11 U
BIS(2-CHOROETHYL)ETHER				1.406	0	11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE				1.264	54.6	340	10 J	10 J
BUTYLBENZYLPHthalate				1.093	77.4	11 U	11 U	11 U
CHRYSENE				1.101	11.6	11 U	11 U	11 U
DI-N-BUTYLPHTHALATE				1.65	73.4	3 J	11 U	11 U
DI-N-OCTYLPHTHALATE				2.841	72.4	8 J	11 U	11 U
DIBENZ(A,H)ANTHRACENE				0.737	38.5	11 U	11 U	11 U
DIBENZOFURAN				1.644	0.9	11 U	11 U	11 U
DIETHYLPHthalate				1.554	24.9	3 J	11 U	11 U
DIMETHYLPHthalate				1.483	7.9	11 U	11 U	11 U
FLUORANTHENE				0.969	23.6	11 U	11 U	11 U
FLUORENE				1.345	5.6	11 U	11 U	11 U
HEXACHLOROBENZENE				0.376	18.9	11 U	11 U	11 U
HEXACHLOROBUTADIENE				0.264	4.2	11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE				0.17	66.6	11 U	11 U	11 U
HEXACHLOROETHANE				0.777	8	11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE				0.977	26.4	11 U	11 U	11 U
ISOPHORONE				0.897	0.1	11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE				1.153	1.2	11 U	11 U	11 U
N-NITROSODIPHENYLAMINE				0.602	4.2	11 U	11 U	11 U
NAPHTHALENE				1.155	19.2	11 U	11 U	11 U
NITROBENZENE				0.438	9.5	11 U	11 U	11 U
NITROBENZENE-D5				0.435	2.3			
PENTACHLOROPHENOL				0.091	55.5	56 U	56 U	56 U
PHENANTHRENE				1.157	9.6	11 U	11 U	11 U
PHENOL				1.628	6.9	11 U	11 U	11 U
PHENOL-D5				1.36	15.2			

TABLE D.6.13 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D113

DRAFT DO NOT CITE

AREA	QA ISTD SHIFT LL0113888	QA RET TIM LL0113885	QA TUNED CALIBRATION LL0113887	QA CONTINUING CALIBRATION LL0113887	QA CONTINUING CAL %D LL0113887	BLDG. 298 SEWERS LL012191A WATER UG/L 2	BLDG. 511 SEWERS LL012691A WATER UG/L 2	BLDG. 511 SEWERS LL012679A WATER UG/L 2
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	AREA	%	RRF	%				
PYRENE			2.355	14.3	11 U	11 U	11 U	11 U
TERPHENYL-D14			1.264	5.9				
1,2-DICHLOROBENZENE			1.604	2.2	11 U	11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE			0.423	1.9	11 U	11 U	11 U	11 U
1,3-DICHLOROBENZENE			1.551	2.2	11 U	11 U	11 U	11 U
1,4-DICHLOROBENZENE			1.61	2.6	11 U	11 U	11 U	11 U
2-CHLORONAPHTHALENE			1.244	4.4	11 U	11 U	11 U	11 U
2-CHLOROPHENOL			1.346	8.9	11 U	11 U	11 U	11 U
2-FLUOROBIPHENYL			1.252	9.3				
2-FLUOROPHENOL			1.031	17.2				
2-METHYLNAPHTHALENE			1.004	37.9	11 U	11 U	11 U	11 U
2-METHYLPHENOL			1.567	24.6	11 U	11 U	11 U	11 U
2-NITROANILINE			0.478	7	56 U	56 U	56 U	56 U
2-NITROPHENOL			0.221	14.5	11 U	11 U	11 U	11 U
2,4-DICHLOROPHENOL			0.375	0.5	11 U	11 U	11 U	11 U
2,4-DIMETHYLPHENOL			0.393	5.7	11 U	11 U	11 U	11 U
2,4-DINITROPHENOL			0.025	85.4	56 U	56 U	56 U	56 U
2,4-DINITROTOLUENE			0.436	5.3	11 U	11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL			0.431	6.9	56 U	56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL			0.179	37.5				
2,4,6-TRICHLOROPHENOL			0.422	12.2	11 U	11 U	11 U	11 U
2,6-DINITROTOLUENE			0.364	8.8	11 U	11 U	11 U	11 U
3-NITROANILINE			0.415	10.7	56 U	56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE			0.179	4.5	22 U	22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER			0.29	21.7	11 U	11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL			0.381	2	11 U	11 U	11 U	11 U
4-CHLOROANILINE			0.146	70.3	11 U	11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER			0.661	12.5	11 U	11 U	11 U	11 U
4-METHYLPHENOL			1.035	24.4	13	11 U	11 U	11 U
4-NITROANILINE			0.126	23.1	56 U	56 U	56 U	56 U
4-NITROPHENOL			0.06	32.2	56 U	56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL			0.061	63	56 U	56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY					0 *	0 *	0 *	0 *
SURR 2(FBP) %RECOVERY					27 *	0 *	0 *	0 *
SURR 3(TPH) %RECOVERY					44	77	70	
SURR 4(PHL) %RECOVERY					20	0 *	0 *	0 *
SURR 5(2FP) %RECOVERY					0 *	0 *	0 *	0 *
SURR 6(TBP) %RECOVERY					58	17	0	0 *

TABLE D.6.13 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: D113

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA				
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ISTD SHIFT LL0113888	RET TIM CALIBRATION LL0113885	TUNED CALIBRATION LL0113887	CONTINUING CAL ZD LL0113887	CONTINUING CAL ZD LL0113887	BLDG. 298 SEWERS LL012191A	BLDG. 511 SEWERS LL012691A	BLDG. 511 SEWERS LL012679A
	AREA	X	RRF	X	X	WATER UG/L 2	WATER UG/L 2	WATER UG/L 2
M/E 51		44						
M/E 68-1		0						
M/E 68-2		0						
M/E 69		59						
M/E 70-1		1						
M/E 70-2		1.7						
M/E 127		42						
M/E 197		0						
M/E 198		100						
M/E 199		6.5						
M/E 275		22						
M/E 365		1.9						
M/E 441		11						
M/E 442		74						
M/E 443-1		15						
M/E 443-2		20						
INTERNAL STD AREA(ANT)	2540000				2400000	1210000	1340000	
INTERNAL STD AREA(CRY)	1580000				1190000	557000	774000	
INTERNAL STD AREA(DCB)	1250000				1110000	534000	538000	
INTERNAL STD AREA(NPT)	4230000				4090000	1980000	2160000	
INTERNAL STD AREA(PHN)	4000000				3470000	1640000	1860000	
INTERNAL STD AREA(PRY)	817000				546000	357000	485000	
DILUTION FACTOR ACTUAL(ALLOWED) EXTRACT TIME					6(7 D) 1.1	6(7 D) 1.1	6(7 D) 1.1	

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA	
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ISTD SHIFT LL0108888	RET RRF LL1027876	TIM INITIAL CAL % RSD LL1027876	INITIAL CAL % RSD LL1027876	TUNED CALIBRATION LL1027875	TUNED CALIBRATION LL1218875	CONTINUING CALIBRATION LL1218877	CONTINUING CAL %D LL1218877
	AREA	RRF	%	%	%	RRF	%	
ACENAPHTHENE		1.314	10.3			1.365	3.9	
ACENAPHTHYLENE		2.085	8.1			1.881	9.8	
ANTHRACENE		1.058	10.3			1.087	2.7	
BENZO(A)ANTHRACENE		1.088	4.5			1.111	2.1	
BENZO(A)PYRENE		1.212	6.6			1.216	0.3	
BENZO(B)FLUORANTHENE		1.36	4			1.299	4.5	
BENZO(G,H,I)PERYLENE		1.094	6.2			1.105	1	
BENZO(K)FLUORANTHENE		1.114	11.5			1.189	6.7	
BENZOIC ACID		0.185	23.6			0.172	7.2	
BENZYL ALCOHOL		0.914	8.9			0.986	7.9	
BIS(2-CHLOROETHOXY)METHANE		0.725	3.5			0.786	8.4	
BIS(2-CHLOROISOPROPYL)ETHER		1.813	8.1			2.345	29.3	
BIS(2-CHROOETHYL)ETHER		2.032	14.8			2.388	17.5	
BIS(2-ETHYLHEXYL)PHTHALATE		1.267	8.5			1.264	0.2	
BUTYLBENZYLPHthalate		0.899	4.6			0.904	0.6	
CHRYSENE		1.048	8			1.097	4.6	
DI-N-BUTYLPHTHALATE		1.779	7.4			1.948	9.5	
DI-N-OCTYLPHTHALATE		2.037	4.4			2.111	3.6	
DIBENZ(A,H)ANTHRACENE		1.1	4.7			1.067	3	
DIBENZOFURAN		1.557	7.2			1.67	7.3	
DIETHYLPHthalate		1.546	12.3			1.809	17	
DIMETHYLPHthalate		1.537	6.8			1.555	1.2	
FLUORANTHENE		0.881	5.7			1.033	17.2	
FLUORENE		1.177	10.7			1.255	6.7	
HEXACHLOROBENZENE		0.493	3.3			0.451	8.5	
HEXACHLOROBUTADIENE		0.182	6			0.165	9.6	
HEXACHLOROCYCLOPENTADIENE		0.294	16			0.409	38.7	
HEXACHLOROETHANE		0.721	5.9			0.883	22.4	
INDENO(1,2,3-CD)PYRENE		1.326	15.6			1.121	15.4	
ISOPHORONE		1.012	2.2			1.15	13.6	
N-NITROSO-DI-N-PROPYLAMINE		1.28	3.2			1.497	16.9	
N-NITROSODIPHENYLAMINE		0.585	6.2			0.442	24.3	
NAPHTHALENE		1.096	7.4			1.101	0.5	
NITROBENZENE		0.638	3.1			0.621	2.7	
NITROBENZENE-D5		0.476	3.2			0.559	17.5	
PENTACHLOROPHENOL		0.163	16.2			0.202	24.3	
PHENANTHRENE		1.071	7.4			1.11	3.6	
PHENOL		2.102	6.8			2.548	21.2	
PHENOL-D5		1.884	4.5			2.104	11.7	

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TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA	QA	
LOCATION	ISTD SHIFT	RET RRF	TIM LL1027876	INITIAL CAL X RSD LL1027876	INITIAL CAL LL1027876	TUNED CALIBRATION LL1027875	TUNED CALIBRATION LL1218875	CONTINUING CALIBRATION LL1218877	CONTINUING CAL X D LL1218877
TYPE OF LOCATION									
SAMPLE NUMBER	LL0108888								
MATRIX	AREA	RRF	X	X	X	X	X	RRF	X
UNITS									
ENV PROBLEM NO									
PYRENE									
TERPHENYL-D14									
1,2-DICHLOROBENZENE		1.345	9					1.236	8.1
1,2,4-TRICHLOROBENZENE		1.217	8.8					1.023	16
1,3-DICHLOROBENZENE		1.484	4.9					1.583	6.6
1,4-DICHLOROBENZENE		0.287	1					0.266	7.3
2-CHLORONAPHTHALENE		1.529	4.9					1.592	4.1
2-CHLOROPHENOL		1.508	6					1.561	3.5
2-FLUOROBIPHENYL		1.255	4.4					1.294	3.1
2-FLUOROPHENOL		1.485	5.4					1.6	7.8
2-METHYLNAPHTHALENE		1.405	6.2					1.401	0.2
2-METHYLPHENOL		1.421	16					1.716	20.7
2-NITROANILINE		0.777	4.9					0.813	4.6
2-NITROPHENOL		1.366	2.4					1.546	13.2
2,4-DICHLOROPHENOL		0.554	5.3					0.613	10.6
2,4-DIMETHYLPHENOL		0.22	6.7					0.219	0.2
2,4-DINITROPHENOL		0.257	16.6					0.225	12.4
2,4-DINITROTOLUENE		0.342	1.3					0.342	0.1
2,4,5-TRICHLOROPHENOL		0.109	21					0.129	19.2
2,4,6-TRIBROMOPHENOL		0.326	5.1					0.396	21.4
2,4,6-TRICHLOROPHENOL		0.398	6.9					0.385	3.3
2,6-DINITROTOLUENE		0.35	5.8					0.332	5
3-NITROANILINE		0.379	4.8					0.402	5.9
3,3'-DICHLOROBENZIDINE		0.342	3.7					0.347	1.6
4-BROMOPHENYL-PHENYLETHER		0.366	9.4					0.247	32.6
4-CHLORO-3-METHYLPHENOL		0.373	7.6					0.206	44.8
4-CHLOROANILINE		0.349	2.6					0.323	7.5
4-CHLOROPHENYL-PHENYLETHER		0.317	6.7					0.377	18.6
4-METHYLPHENOL		0.492	1.9					0.396	19.5
4-NITROANILINE		0.523	7.4					0.506	3.2
4-NITROPHENOL		1.36	5.7					1.546	13.7
4,6-DINITRO-2-METHYLPHENOL		0.258	20.1					0.208	19.2
SURR 1(NBZ) %RECOVERY		0.204	16.1					0.233	14.1
SURR 2(FBP) %RECOVERY		0.12	12.8					0.133	10.3
SURR 3(TPH) %RECOVERY									
SURR 4(PHL) %RECOVERY									
SURR 5(2FP) %RECOVERY									
SURR 6(TBP) %RECOVERY									

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ISTD SHIFT LL0108888	RET RRF LL1027876	TIM INITIAL CAL % RSD LL1027876	INITIAL CAL % RSD LL1027876	TUNED CALIBRATION LL1027875	TUNED CALIBRATION LL1218875	CONTINUING CALIBRATION LL1218877	CONTINUING CAL %D LL1218877
AREA	RRF	%	%	%	%	RRF	%	
M/E 51				47		52		
M/E 68-1				0.6		0		
M/E 68-2				0.9		0		
M/E 69				69		81		
M/E 70-1				0		0		
M/E 70-2				0		0		
M/E 127				54		57		
M/E 197				0		0		
M/E 198				100		100		
M/E 199				6.8		5.5		
M/E 275				29		28		
M/E 365				3.1		2.9		
M/E 441				12		11		
M/E 442				78		62		
M/E 443-1				15		11		
M/E 443-2				20		18		
INTERNAL STD AREA(ANT)	72900							
INTERNAL STD AREA(CRY)	53600							
INTERNAL STD AREA(DCB)	59200							
INTERNAL STD AREA(NPT)	197000							
INTERNAL STD AREA(PHN)	86200							
INTERNAL STD AREA(PRY)	34600							
DILUTION FACTOR								
PERCENT MOISTURE								
ACTUAL(ALLOWED) EXTRACT TIME								
AREA	QA							
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ISTD SHIFT LL1218878	RET ARROYO LL001018B	TIM SECO SOIL UG/KG	ARROYO SECO SOIL UG/KG	ARROYO SECO SOIL UG/KG	ARROYO SECO SOIL UG/KG	ARROYO SECO SOIL UG/KG	ARROYO SECO SOIL UG/KG
AREA	1	1	1	1	1	1	1	1
ACENAPHTHENE		350 U	350 U	340 U	350 U	340 U	340 U	360 U

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA						
	ISTD SHIFT LL1218878	RET ARROYO LL001018B	TIM ARROYO LL001029B	ARROYO SECO ARROYO LL001030B	ARROYO SECO ARROYO LL002019B	ARROYO SECO ARROYO LL002020B	ARROYO SECO ARROYO LL002031B
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	AREA	SOIL UG/KG 1	SOIL UG/KG 1	SOIL UG/KG 1	SOIL UG/KG 1	SOIL UG/KG 1	SOIL UG/KG 1
ACENAPHTHYLENE		350 U	350 U	340 U	350 U	340 U	360 U
ANTHRACENE		350 U	350 U	340 U	350 U	340 U	360 U
BENZO(A)ANTHRACENE		350 U	350 U	340 U	350 U	340 U	360 U
BENZO(A)PYRENE		350 U	350 U	340 U	350 U	340 U	360 U
BENZO(B)FLUORANTHENE		350 U	350 U	340 U	350 U	340 U	360 U
BENZO(G,H,I)PERYLENE		350 U	350 U	340 U	350 U	340 U	360 U
BENZO(K)FLUORANTHENE		350 U	350 U	340 U	350 U	340 U	360 U
BENZOIC ACID	1800 U	1700 U	1700 U	1800 U	1700 U	1700 U	1800 U
BENZYL ALCOHOL		350 U	350 U	340 U	350 U	340 U	360 U
BIS(2-CHLOROETHOXY)METHANE		350 U	350 U	340 U	350 U	340 U	360 U
BIS(2-CHLOROISOPROPYL)ETHER		350 U	350 U	340 U	350 U	340 U	360 U
BIS(2-CHLOROETHYL)ETHER		350 U	350 U	340 U	350 U	340 U	360 U
BIS(2-ETHYLHEXYL)PHTHALATE		170 J	350 U	340 U	180 J	340 U	360 U
BUTYL BENZYL PHTHALATE		350 U	350 U	340 U	350 U	340 U	360 U
CHRYSENE		350 U	350 U	340 U	350 U	340 U	360 U
DI-N-BUTYL PHTHALATE		800 U	350 U	340 U	400 U	340 U	360 U
DI-N-OCTYL PHTHALATE		350 U	350 U	340 U	350 U	340 U	360 U
DIBENZ(A,H)ANTHRACENE		350 U	350 U	340 U	350 U	340 U	360 U
DIBENZOFURAN		350 U	350 U	340 U	350 U	340 U	360 U
DIETHYL PHTHALATE		130 J	350 U	33 J	33 J	340 U	51 J
DIMETHYL PHTHALATE		350 U	350 U	340 U	350 U	340 U	360 U
FLUORANTHENE		350 U	350 U	340 U	350 U	340 U	360 U
FLUORENE		350 U	350 U	340 U	350 U	340 U	360 U
HEXA CHLOROBENZENE		350 U	350 U	340 U	350 U	340 U	360 U
HEXA CHLOROBUTADIENE		350 U	350 U	340 U	350 U	340 U	360 U
HEXA CHLOROCYCLOPENTADIENE		350 U	350 U	340 U	350 U	340 U	360 U
HEXA CHLOROETHANE		350 U	350 U	340 U	350 U	340 U	360 U
INDENO(1,2,3-CD)PYRENE		350 U	350 U	340 U	350 U	340 U	360 U
ISOPHORONE		350 U	350 U	340 U	350 U	340 U	360 U
N-NITROSO-DI-N-PROPYLAMINE		350 U	350 U	340 U	350 U	340 U	360 U
N-NITROSODIPHENYLAMINE		350 U	350 U	340 U	350 U	340 U	360 U
NAPHTHALENE		350 U	350 U	340 U	350 U	340 U	360 U
NITROBENZENE		350 U	350 U	340 U	350 U	340 U	360 U
NITROBENZENE-D5		350 U	350 U	340 U	350 U	340 U	360 U
PENTACHLOROPHENOL	1800 U	1700 U	1700 U	1800 U	1700 U	1700 U	1800 U
PHENANTHRENE		350 U	350 U	340 U	350 U	340 U	360 U
PHENOL		350 U	350 U	340 U	350 U	340 U	360 U
PHENOL-D5		350 U	350 U	340 U	350 U	340 U	360 U
PYRENE				43 J	340 U	340 U	360 U

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA							
	LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ISTD SHIFT LL1218878	RET TIM LL001018B	ARROYO SECO ARROYO SOIL UG/KG				
AREA	1	1	1	1	1	1	1	1
<b>TERPHENYL-D14</b>								
1,2-DICHLOROBENZENE		350 U	350 U	340 U	350 U	340 U	340 U	360 U
1,2,4-TRICHLOROBENZENE		350 U	350 U	340 U	350 U	340 U	340 U	360 U
1,3-DICHLOROBENZENE		350 U	350 U	340 U	350 U	340 U	340 U	360 U
1,4-DICHLOROBENZENE		350 U	350 U	340 U	350 U	340 U	340 U	360 U
2-CHLORONAPHTHALENE		350 U	350 U	340 U	350 U	340 U	340 U	360 U
2-CHLOROPHENOL		350 U	350 U	340 U	350 U	340 U	340 U	360 U
2-FLUOROBIPHENYL								
2-FLUOROPHENOL								
2-METHYLNAPHTHALENE		350 U	350 U	340 U	350 U	340 U	360 U	360 U
2-METHYLPHENOL		350 U	350 U	340 U	350 U	340 U	360 U	360 U
2-NITROANILINE		1800 U	1700 U	1700 U	1800 U	1700 U	1700 U	1800 U
2-NITROPHENOL		350 U	350 U	340 U	350 U	340 U	360 U	360 U
2,4-DICHLOROPHENOL		350 U	350 U	340 U	350 U	340 U	360 U	360 U
2,4-DIMETHYLPHENOL		350 U	350 U	340 U	350 U	340 U	360 U	360 U
2,4-DINITROPHENOL		1800 U	1700 U	1700 U	1800 U	1700 U	1700 U	1800 U
2,4-DINITROTOLUENE		350 U	350 U	340 U	350 U	340 U	360 U	360 U
2,4,5-TRICHLOROPHENOL		1800 U	1700 U	1700 U	1800 U	1700 U	1700 U	1800 U
2,4,6-TRIBROMOPHENOL								
2,4,6-TRICHLOROPHENOL		350 U	350 U	340 U	350 U	340 U	360 U	360 U
2,6-DINITROTOLUENE		350 U	350 U	340 U	350 U	340 U	360 U	360 U
3-NITROANILINE		1800 U	1700 U	1700 U	1800 U	1700 U	1700 U	1800 U
3,3'-DICHLOROBENZIDINE		700 U	700 U	680 U	700 U	690 U	720 U	
4-BROMOPHENYL-PHENYLETHER		350 U	350 U	340 U	350 U	340 U	360 U	
4-CHLORO-3-METHYLPHENOL		350 U	350 U	340 U	350 U	340 U	360 U	
4-CHLOROANILINE		350 U	350 U	340 U	350 U	340 U	360 U	
4-CHLOROPHENYL-PHENYLETHER		350 U	350 U	340 U	350 U	340 U	360 U	
4-METHYLPHENOL		350 U	350 U	340 U	350 U	340 U	360 U	
4-NITROANILINE		1800 U	1700 U	1700 U	1800 U	1700 U	1700 U	1800 U
4-NITROPHENOL		1800 U	1700 U	1700 U	1800 U	1700 U	1700 U	1800 U
4,6-DINITRO-2-METHYLPHENOL		1800 U	1700 U	1700 U	1800 U	1700 U	1700 U	1800 U
SURR 1(NBZ) %RECOVERY		42	43	28	47	32	34	
SURR 2(FBP) %RECOVERY		44	48	37	51	42	43	
SURR 3(TPH) %RECOVERY		42	56	40	56	58	55	
SURR 4(PHL) %RECOVERY		44	58	38	47	39	47	
SURR 5(2FP) %RECOVERY		35	45	35	40	32	37	
SURR 6(TBP) %RECOVERY		38	41	41	50	53	49	

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA	ARROYO SECO	ARROYO SECO	ARROYO SECO	ARROYO SECO	ARROYO SECO	ARROYO SECO
LOCATION	ISTD SHIFT	RET TIM	ARROYO SECO	ARROYO SECO	ARROYO SECO	ARROYO SECO	ARROYO SECO
TYPE OF LOCATION	LL1218878	ARROYO	ARROYO	ARROYO	ARROYO	ARROYO	ARROYO
SAMPLE NUMBER	LL001018B	LL001029B	LL001030B	LL002019B	LL002020B	LL002031B	LL002031B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	1	1	1	1	1	1
M/E 68-1							
M/E 68-2							
M/E 69							
M/E 70-1							
M/E 70-2							
M/E 127							
M/E 197							
M/E 198							
M/E 199							
M/E 275							
M/E 365							
M/E 441							
M/E 442							
M/E 443-1							
M/E 443-2							
INTERNAL STD AREA(ANT)	76600	58400	57900	73300	85800	88500	78000
INTERNAL STD AREA(CRY)	87200	67800	53700	72500	75600	83100	51400
INTERNAL STD AREA(DCB)	62400	50500	53500	55100	61900	62400	62800
INTERNAL STD AREA(NPT)	208000	184000	194000	196000	219000	221000	231000
INTERNAL STD AREA(PHN)	102000	73700	70000	77500	89200	106000	81400
INTERNAL STD AREA(PRY)	81900	47000	39100	54900	63000	70900	39600
DILUTION FACTOR	1	1	1	1	1	1	1
PERCENT MOISTURE	5	5	5	5	5	3	7
ACTUAL(ALLOWED) EXTRACT TIME	3(14 D)	3(14 D)	3(14 D)	4(14 D)	4(14 D)	4(14 D)	4(14 D)
AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	MATRIX	MS X	RPD	MATRIX SPIKE	MSD X	N OF 875	N OF 875
TYPE OF LOCATION	SPIKE	RECOVERY	DUPPLICATE	DUPLICATE	RECOVERY	CULVERT	CULVERT
SAMPLE NUMBER	LL002031B	LL002031B	LL002031B	LL002031B	LL002031B	LL030024B	LL030035B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	%	%	UG/KG	%	UG/KG	UG/KG
ENV PROBLEM NO	1	1	1	1	1	6	6
ACENAPHTHENE	2000	55	7	2100	59	3700 U	390 U

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TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA MATRIX SPIKE LL002031B	QA MS % RECOVERY LL002031B	QA RPD LL002031B	QA MATRIX DUPLICATE LL002031B	QA SPIKE MSD % RECOVERY LL002031B	N OF 875 CULVERT LL03024B	N OF 875 CULVERT LL030035B
	1	1	1	1	1	6	6
ACENAPHTHYLENE	360 U			360 U		3700 U	390 U
ANTHRACENE	360 U			360 U		3700 U	390 U
BENZO(A)ANTHRACENE	360 U			360 U		3700 U	390 U
BENZO(A)PYRENE	360 U			360 U		3700 U	390 U
BENZO(B)FLUORANTHENE	360 U			360 U		3700 U	390 U
BENZO(G,H,I)PERYLENE	360 U			360 U		3700 U	390 U
BENZO(K)FLUORANTHENE	360 U			360 U		3700 U	390 U
BENZOIC ACID	1800 U			1800 U		18000 U	1900 U
BENZYL ALCOHOL	360 U			360 U		3700 U	390 U
BIS(2-CHLOROETHOXY)METHANE	360 U			360 U		3700 U	390 U
BIS(2-CHLOROISOPROPYL)ETHER	360 U			360 U		3700 U	390 U
BIS(2-CHOROETHYL)ETHER	360 U			360 U		3700 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	360 U			2000		750000 E	1400 U
BUTYLBENZYLPHthalate	360 U			360 U		3700 U	340 J
CHRYSENE	360 U			360 U		3700 U	390 U
DI-N-BUTYLPHthalate	360 U			39 J		3700 U	140 J
DI-N-OCTYLPHthalate	360 U			83 J		230 J	46 J
DIBENZ(A,H)ANTHRACENE	360 U			360 U		3700 U	390 U
DIBENZOFURAN	360 U			360 U		3700 U	390 U
DIETHYLPHthalate	360 U			30 J		3700 U	110 J
DIMETHYLPHthalate	360 U			360 U		3700 U	390 U
FLUORANTHENE	360 U			360 U		3700 U	390 U
FLUORENE	360 U			360 U		3700 U	390 U
HEXACHLOROBENZENE	360 U			360 U		3700 U	390 U
HEXACHLOROBUTADIENE	360 U			360 U		3700 U	390 U
HEXACHLOROCYCLOPENTADIENE	360 U			360 U		3700 U	390 U
HEXACHLOROETHANE	360 U			360 U		3700 U	390 U
INDENO(1,2,3-CD)PYRENE	360 U			360 U		3700 U	390 U
ISOPHORONE	360 U			360 U		3700 U	390 U
N-NITROSO-DI-N-PROPYLAMINE	1800	51	0	1900	51	3700 U	390 U
N-NITROSODIPHENYLAMINE	360 U			360 U		3700 U	390 U
NAPHTHALENE	360 U			360 U		3700 U	390 U
NITROBENZENE	360 U			360 U		3700 U	390 U
NITROBENZENE-D5							
PENTACHLOROPHENOL	4600	64	7	5000	69	18000 U	1900 U
PHENANTHRENE	360 U			360 U		3700 U	390 U
PHENOL	3100	43	2	3200	44	3700 U	390 U
PHENOL-D5							
PYRENE	2300	63	13	2600	72	3700 U	89 J

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA MATRIX SPIKE LL002031B	QA MS X RECOVERY LL002031B	QA RPD LL002031B	QA MATRIX DUPLICATE LL002031B	QA SPIKE MSD X RECOVERY LL002031B	QA N OF 875 CULVERT LL030024B	QA N OF 875 CULVERT LL030035B
LOCATION	UG/KG 1	% 1		UG/KG 1	% 1	UG/KG 6	UG/KG 6
TYPE OF LOCATION							
SAMPLE NUMBER							
MATRIX							
UNITS	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
ENV PROBLEM NO	UG/KG 1	% 1	X	UG/KG 1	% 1	UG/KG 6	UG/KG 6
TERPHENYL-D14							
1,2-DICHLOROBENZENE	360 U			360 U		3700 U	390 U
1,2,4-TRICHLOROBENZENE	1800	51	0	1900	51	3700 U	390 U
1,3-DICHLOROBENZENE	360 U			360 U		3700 U	390 U
1,4-DICHLOROBENZENE	1700	46	6	1600	43	3700 U	390 U
2-CHLORONAPHTHALENE	360 U			360 U		3700 U	390 U
2-CHLOROPHENOL	3600	50	3	3800	52	3700 U	390 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	360 U			360 U		3700 U	390 U
2-METHYLPHENOL	360 U			360 U		3700 U	390 U
2-NITROANILINE	1800 U			1800 U		18000 U	1900 U
2-NITROPHENOL	360 U			360 U		3700 U	390 U
2,4-DICHLOROPHENOL	360 U			360 U		3700 U	390 U
2,4-DIMETHYLPHENOL	360 U			360 U		3700 U	390 U
2,4-DINITROPHENOL	360 U			360 U		3700 U	390 U
2,4-DINITROTOLUENE	1800 U			1800 U		18000 U	1900 U
2,4,5-TRICHLOROPHENOL	1500	36	15	1500	42	3700 U	390 U
2,4,6-TRIBROMOPHENOL	1800 U			1800 U		18000 U	1900 U
2,4,6-TRICHLOROPHENOL	360 U			360 U		3700 U	390 U
2,6-DINITROTOLUENE	360 U			360 U		3700 U	390 U
3-NITROANILINE	1800 U			360 U		3700 U	390 U
3,3'-DICHLOROBENZIDINE	720 U			1800 U		18000 U	1900 U
4-BROMOPHENYL-PHENYLETHER	360 U			720 U		7400 U	780 U
4-CHLORO-3-METHYLPHENOL	3000	41	11	360 U		3700 U	390 U
4-CHLOROANILINE	360 U			3400	46	3700 U	390 U
4-CHLOROPHENYL-PHENYLETHER	360 U			360 U		3700 U	390 U
4-METHYLPHENOL	360 U			360 U		3700 U	390 U
4-NITROANILINE	1800 U			360 U		3700 U	390 U
4-NITROPHENOL	4100	57	23	1800 U		18000 U	1900 U
4,6-DINITRO-2-METHYLPHENOL	1800 U			5200	72	18000 U	1900 U
				1800 U		18000 U	1900 U
SURR 1(NBZ) %RECOVERY	50			46		0 x	57
SURR 2(FBP) %RECOVERY	54			47		0 x	50
SURR 3(TPH) %RECOVERY	55			60		0 x	81
SURR 4(PHL) %RECOVERY	48			46		0 x	48
SURR 5(2FP) %RECOVERY	44			45		0 x	58
SURR 6(TBP) %RECOVERY	44			56		0 x	44

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TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	N OF 875	N OF 875
LOCATION	MATRIX	MS %	RPD	MATRIX	MSD %	CULVERT	CULVERT
TYPE OF LOCATION	SPIKE	RECOVERY	LL002031B	DUPLICATE	RECOVERY	LL030024B	LL030035B
SAMPLE NUMBER	LL002031B	%	LL002031B	SOIL	SOIL	SOIL	SOIL
MATRIX	SOIL	%	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	%	%	UG/KG	%	UG/KG	UG/KG
ENV PROBLEM NO.	1	1	1	1	1	6	6
M/E 68-1							
M/E 68-2							
M/E 69							
M/E 70-1							
M/E 70-2							
M/E 127							
M/E 197							
M/E 198							
M/E 199							
M/E 275							
M/E 365							
M/E 441							
M/E 442							
M/E 443-1							
M/E 443-2							
INTERNAL STD AREA(ANT)	89600			87100		74500	67800
INTERNAL STD AREA(CRY)	69200			66300		57900	53800
INTERNAL STD AREA(DCB)	66100			62400		72000	63800
INTERNAL STD AREA(NPT)	238000			224000		200000	218000
INTERNAL STD AREA(PHN)	92400			97600		85200	56700
INTERNAL STD AREA(PRY)	50500			46600		41600	27500
DILUTION FACTOR	1			1		0.1	1
PERCENT MOISTURE	7			7		9	14
ACTUAL(ALLOWED) EXTRACT TIME	4(14 D)			4(14 D)		6(14 D)	6(14 D)
AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	GSA AREA	GSA AREA	N OF 875
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	WELLS	WELLS	CULVERT
SAMPLE NUMBER	LL1222875	LL1222877	LL1222877	LL1222878	LL036019B	LL036020B	LL030046B
MATRIX	%	RRF	%	AREA	SOIL	SOIL	SOIL
UNITS				9	UG/KG	9	UG/KG
ENV PROBLEM NO.					440 U	440 U	370 U
ACENAPHTHENE		1.413	7.5				

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TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	TUNED CALIBRATION LL1222875	CONTINUING CALIBRATION LL1222877	CONTINUING CAL XD LL1222877	ISTD SHIFT LL1222878	RET TIM	GSA AREA WELLS LL036019B 9	GSA AREA WELLS LL036020B 9	N OF 875 CULVERT LL030046B 6
LOCATION	X	RRF	X	AREA					SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	
TYPE OF LOCATION												
SAMPLE NUMBER												
MATRIX												
UNITS												
ENV PROBLEM NO												
ACENAPHTHYLENE					1.746	16.3						
ANTHRACENE					1.267	19.8			440 U	440 U	370 U	
BENZO(A)ANTHRACENE					1.079	0.8			440 U	440 U	370 U	
BENZO(A)PYRENE					1.284	5.9			440 U	440 U	56 J	
BENZO(B)FLUORANTHENE					1.279	5.9			440 U	440 U	370 U	
BENZO(G,H,I)PERYLENE					0.824	24.7			440 U	440 U	370 U	
BENZO(K)FLUORANTHENE					1.279	14.9			440 U	440 U	370 U	
BENZOIC ACID					0.165	10.8			440 U	440 U	370 U	
BENZYL ALCOHOL					0.781	14.6		2200 U	2200 U	1800 U		
BIS(2-CHLOROETHOXY)METHANE					0.78	7.5			440 U	440 U	370 U	
BIS(2-CHLOROISOPROPYL)ETHER					2.134	17.7			440 U	440 U	370 U	
BIS(2-CHOROETHYL)ETHER					2.531	24.5			440 U	440 U	370 U	
BIS(2-ETHYLHEXYL)PHTHALATE					1.814	43.2			440 U	440 U	370 U	
BUTYLBENZYLPHthalate					0.926	3			170 J	330 J	95000 E	
CHRYSENE					1.101	5			440 U	440 U	390 U	
DI-N-BUTYLPHthalate					2.044	14.9			440 U	440 U	370 U	
DI-N-OCTYLPHthalate					2.534	24.4			440 U	440 U	370 U	
DIBENZ(A,H)ANTHRACENE					0.835	24.1			440 U	440 U	97 J	
DIBENZOFURAN					1.634	5			440 U	440 U	370 U	
DIETHYLPHthalate					1.507	2.5			440 U	440 U	370 U	
DIMETHYLPHthalate					1.529	0.5			440 U	440 U	370 U	
FLUORANTHENE					1.099	24.8			440 U	440 U	200 J	
FLUORENE					1.159	1.5			440 U	440 U	200 J	
HEXACHLOROBENZENE					0.455	7.6			440 U	440 U	370 U	
HEXACHLOROBUTADIENE					0.165	9.6			440 U	440 U	370 U	
HEXACHLOROCYCLOPENTADIENE					0.319	8.3			440 U	440 U	370 U	
HEXACHLOROETHANE					0.823	14.1			440 U	440 U	370 U	
INDENO(1,2,3-CD)PYRENE					1.043	21.3			440 U	440 U	370 U	
ISOPHORONE					1.149	13.5			440 U	440 U	370 U	
N-NITROSO-DI-N-PROPYLAMINE					1.408	9.9			440 U	440 U	370 U	
N-NITROSODIPHENYLAMINE					0.503	14			440 U	440 U	370 U	
NAPHTHALENE					1.156	5.5			440 U	440 U	370 U	
NITROBENZENE					0.775	21.6			440 U	440 U	370 U	
NITROBENZENE-D5					0.561	17.9			440 U	440 U	370 U	
PENTACHLOROPHENOL					0.198	21.8			2200 U	2200 U	1800 U	
PHENANTHRENE					1.078	0.7			440 U	440 U	290 J	
PHENOL					2.385	13.5			440 U	440 U	370 U	
PHENOL-D5					1.982	5.2			440 U	440 U	370 U	
PYRENE					1.337	0.6			440 U	440 U	150 J	

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	ISTD SHIFT LL1222878	RET TIME LL1222877	GSA AREA WELLS LL036019B SOIL UG/KG 9	GSA AREA WELLS LL036020B SOIL UG/KG 9	N OF 875 CULVERT LL030046B SOIL UG/KG 6
	TUNED CALIBRATION LL1222875	CONTINUING CALIBRATION LL1222877	CONTINUING CAL X'D LL1222877	AREA					
LOCATION									
TYPE OF LOCATION									
SAMPLE NUMBER									
MATRIX									
UNITS									
ENV PROBLEM NO									
TERPHENYL-D14									
1,2-DICHLOROBENZENE	1.054	13.4					440 U	440 U	370 U
1,2,4-TRICHLOROBENZENE	1.536	3.5					440 U	440 U	370 U
1,3-DICHLOROBENZENE	0.263	8.1					440 U	440 U	370 U
1,4-DICHLOROBENZENE	1.559	2					440 U	440 U	370 U
2-CHLORONAPHTHALENE	1.533	1.7					440 U	440 U	370 U
2-CHLOROPHENOL	1.384	10.3					440 U	440 U	370 U
2-FLUOROBIPHENYL	1.532	3.2					440 U	440 U	370 U
2-FLUOROPHENOL	1.489	6							
2-METHYLNAPHTHALENE	1.443	1.5					440 U	440 U	370 U
2-METHYLPHENOL	0.834	7.3					440 U	440 U	370 U
2-NITROANILINE	1.297	5.1					2200 U	2200 U	1800 U
2-NITROPHENOL	0.457	17.5					440 U	440 U	370 U
2,4-DICHLOROPHENOL	0.238	8.4					440 U	440 U	370 U
2,4-DIMETHYLPHENOL	0.209	18.6					440 U	440 U	370 U
2,4-DINITROPHENOL	0.33	3.7					2200 U	2200 U	1800 U
2,4,5-TRICHLOROPHENOL	0.045	58.9					440 U	440 U	370 U
2,4,6-TRIBROMOPHENOL	0.303	7.1					2200 U	2200 U	1800 U
2,4,6-TRICHLOROPHENOL	0.393	1.1					2200 U	2200 U	1800 U
2,6-DINITROTOLUENE	0.27	22.8					440 U	440 U	370 U
3-NITROANILINE	0.379	0					440 U	440 U	370 U
3,3'-DICHLOROBENZIDINE	0.319	6.6					2200 U	2200 U	1800 U
4-BROMOPHENYL-PHENYLETHER	0.158	56.7					880 U	880 U	730 U
4-CHLORO-3-METHYLPHENOL	0.184	50.5					440 U	440 U	370 U
4-CHLOROANILINE	0.337	3.6					440 U	440 U	370 U
4-CHLOROPHENYL-PHENYLETHER	0.331	4.1					440 U	440 U	370 U
4-METHYLPHENOL	0.305	38					440 U	440 U	370 U
4-NITROANILINE	0.452	13.4					440 U	440 U	370 U
4-NITROPHENOL	1.297	4.6					2200 U	2200 U	1800 U
4,6-DINITRO-2-METHYLPHENOL	0.152	41.2					2200 U	2200 U	1800 U
SURR 1(NBZ) %RECOVERY	0.168	17.8					2200 U	2200 U	1800 U
SURR 2(FBP) %RECOVERY	0.106	12.1					2200 U	2200 U	1800 U
SURR 3(TPH) %RECOVERY							49	51	44
SURR 4(PHL) %RECOVERY							51	46	56
SURR 5(2FP) %RECOVERY							61	73	91
SURR 6(TBP) %RECOVERY							53	45	53
							60	59	62
							49	44	47

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TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL1222875	QA CONTINUING CALIBRATION LL1222877	QA CONTINUING CAL %D LL1222877	QA ISTD SHIFT LL1222878	RET TIM	GSA AREA WELLS LL036019B	GSA AREA WELLS LL036020B	N OF 875 CULVERT LL030046B
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	%	RRF	%	AREA	UG/KG 9	UG/KG 9	UG/KG 9	SOIL UG/KG 6
M/E 68-1	0.3							
M/E 68-2	0.4							
M/E 69	74							
M/E 70-1	0							
M/E 70-2	0							
M/E 127	56							
M/E 197	0							
M/E 198	100							
M/E 199	6.3							
M/E 275	27							
M/E 365	2.6							
M/E 441	11							
M/E 442	59							
M/E 443-1	11							
M/E 443-2	19							
INTERNAL STD AREA(ANT)				79900		80700		88600
INTERNAL STD AREA(CRY)				73900		72400		63800
INTERNAL STD AREA(DCB)				68800		70600		74200
INTERNAL STD AREA(NPT)				222000		229000		255000
INTERNAL STD AREA(PHN)				88200		89300		86400
INTERNAL STD AREA(PRY)				54600		51500		44000
DILUTION FACTOR							1	1
PERCENT MOISTURE							24	24
ACTUAL(ALLOWED) EXTRACT TIME							6(14 D)	6(14 D)
AREA								
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	875/878 CULVERT LL029010B	875/878 CULVERT LL029021B	875/878 CULVERT LL029032B	N OF 875 CULVERT LL030013B	MATRIX SPIKE LL030013B	MS X RECOVERY LL030013B	RPD SOIL %	
ACENAPHTHENE	2600 J	140 J	390 J	370 U	1400 J	38		8

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	875/878 CULVERT LL029010B 6	875/878 CULVERT LL029021B 6	875/878 CULVERT LL029032B 6	N OF 875 CULVERT LL030013B 6	MATRIX SPIKE LL030013B SOIL UG/KG 6	MS % RECOVERY LL030013B SOIL % 6	RPD LL030013B SOIL % 6
ACENAPHTHYLENE	3800 U	400 U	3800 U	370 U	1900 U		
ANTHRACENE	2900 J	300 J	84 J	370 U	1900 U		
BENZO(A)ANTHRACENE	5800	870	2000 J	370 U	1900 U		
BENZO(A)PYRENE	4300	620	1900 J	370 U	1900 U		
BENZO(B)FLUORANTHENE	3800 U	400 U	3800 U	370 U	1900 U		
BENZO(G,H,I)PERYLENE	3800 U	410	3800 U	370 U	1900 U		
BENZO(K)FLUORANTHENE	5800	1400	3700 J	370 U	1900 U		
BENZOIC ACID	19000 U	2000 U	19000 U	1900 U	9200 U		
BENZYL ALCOHOL	3800 U	400	3800 U	370 U	1900 U		
BIS(2-CHLOROETHOXY)METHANE	3800 U	400 U	3800 U	370 U	1900 U		
BIS(2-CHLOROISOPROPYL)ETHER	3800 U	400 U	3800 U	370 U	1900 U		
BIS(2-CHOROETHYL)ETHER	3800 U	400 U	3800 U	370 U	1900 U		
BIS(2-ETHYLHEXYL)PHTHALATE	590000 E	54000 E	140000 E	3700	130000 E		
BUTYLBENZYLPHthalate	260 J	400 U	3800 U	270 J	1900 U		
CHRYSENE	5900	810	2500 J	370 U	1900 U		
DI-N-BUTYLPHthalate	3800 U	120 J	3800 U	260 J	1900 U		
DI-N-OCTYLPHthalate	510 J	400 U	3800 U	370 U	1900 U		
DIBENZ(A,H)ANTHRACENE	3800 U	400 J	3800 U	370 U	1900 U		
DIBENZOFURAN	840 J	34 J	3800 U	370 U	1900 U		
DIETHYLPHthalate	3800 U	400 U	3800 U	260 J	1900 U		
DIMETHYLPHthalate	3800 U	400 U	3800 U	370 U	1900 U		
FLUORANTHENE	13000	1800	4800	170 J	380 J		
FLUORENE	2000 J	400 U	3800 U	370 U	1900 U		
HEXACHLOROBENZENE	3800 U	400 U	3800 U	370 U	1900 U		
HEXACHLOROBUTADIENE	3800 U	400 U	3800 U	370 U	1900 U		
HEXACHLOROCYCLOPENTADIENE	3800 U	400 U	3800 U	370 U	1900 U		
HEXACHLOROETHANE	3800 U	400 U	3800 U	370 U	1900 U		
INDENO(1,2,3-CD)PYRENE	3200 J	360 J	940 J	370 U	1900 U		
ISOPHORONE	3800 U	400 U	3800 U	370 U	1900 U		
N-NITROSO-DI-N-PROPYLAMINE	3800 U	400 U	3800 U	370 U	1800 J	49	27
N-NITROSODIPHENYLAMINE	3800 U	400 U	3800 U	370 U	1900 U		
NAPHTHALENE	540 J	400 U	3800 U	370 U	1900 U		
NITROBENZENE	3800 U	400 U	3800 U	370 U	1900 U		
NITROBENZENE-D5							
PENTACHLOROPHENOL	19000 U	2000 U	19000 U	1900 U	860 J	11 *	0
PHENANTHRENE	17000	1700	3800 J	220 J	1900 U		
PHENOL	3800 U	400 U	3800 U	370 U	2400	33	12
PHENOL-D5							
PYRENE	19000	2200	5800	240 J	2200	58	10

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	875/878 CULVERT LL029010B SOIL UG/KG 6	875/878 CULVERT LL029021B SOIL UG/KG 6	875/878 CULVERT LL029032B SOIL UG/KG 6	N OF 875 CULVERT LL030013B SOIL UG/KG 6	MATRIX SPIKE LL030013B SOIL UG/KG 6	MS % RECOVERY LL030013B SOIL % 6	QA	QA	QA	RPD
D-299	TERPHENYL-D14									
	1,2-DICHLOROBENZENE	3800 U	400 U	3800 U	370 U	1900 U				
	1,2,4-TRICHLOROBENZENE	3800 U	400 U	3800 U	370 U	1400 J	38			2
	1,3-DICHLOROBENZENE	3800 U	400 U	3800 U	370 U	1900 U				
	1,4-DICHLOROBENZENE	3800 U	400 U	3800 U	370 U	1600 J	42			18
	2-CHLORONAPHTHALENE	3800 U	400 U	3800 U	370 U	1900 U				
	2-CHLOROPHENOL	3800 U	400 U	3800 U	370 U	2600	35			2
	2-FLUOROBIPHENYL									
	2-FLUOROPHENOL									
	2-METHYLNAPHTHALENE	3800 U	400 U	3800 U	370 U	1900 U				
	2-METHYLPHENOL	3800 U	400 U	3800 U	370 U	1900 U				
	2-NITROANILINE	19000 U	2000 U	19000 U	1900 U	9200 U				
	2-NITROPHENOL	3800 U	400 U	3800 U	370 U	1900 U				
	2,4-DICHLOROPHENOL	3800 U	400 U	3800 U	370 U	1900 U				
	2,4-DIMETHYLPHENOL	3800 U	400 U	3800 U	370 U	1900 U				
	2,4-DINITROPHENOL	19000 U	2000 U	19000 U	1900 U	9200 U				
	2,4-DINITROTOLUENE	3800 U	400 U	3800 U	370 U	700 J	18 X			66 X
	2,4,5-TRICHLOROPHENOL	19000 U	2000 U	19000 U	1900 U	9200 U				
	2,4,6-TRIBROMOPHENOL									
	2,4,6-TRICHLOROPHENOL	3800 U	400 U	3800 U	370 U	1900 U				
	2,6-DINITROTOLUENE	3800 U	400 U	3800 U	370 U	1900 U				
	3-NITROANILINE	19000 U	2000 U	19000 U	1900 U	9200 U				
	3,3'-DICHLOROBENZIDINE	7700 U	800 U	7700 U	740 U	3700 U				
	4-BROMOPHENYL-PHENYLETHER	3800 U	400 U	3800 U	370 U	1900 U				
	4-CHLORO-3-METHYLPHENOL	3800 U	400 U	3800 U	370 U	2600	33			5
	4-CHLOROANILINE	3800 U	400 U	3800 U	370 U	1900 U				
	4-CHLOROPHENYL-PHENYLETHER	3800 U	400 U	3800 U	370 U	1900 U				
	4-METHYLPHENOL	3800 U	400 U	3800 U	370 U	1900 U				
	4-NITROANILINE	19000 U	2000 U	19000 U	1900 U	9200 U				
	4-NITROPHENOL	19000 U	2000 U	19000 U	1900 U	960 J	12			120 X
	4,6-DINITRO-2-METHYLPHENOL	19000 U	2000 U	19000 U	1900 U	9200 U				
	SURR 1(NBZ) %RECOVERY	0 X	32	0 X	48					
	SURR 2(FBP) %RECOVERY	0 X	32	0 X	53	1 X				
	SURR 3(TPH) %RECOVERY	0 X	53	0 X	110					
	SURR 4(PHL) %RECOVERY	0 X	33	0 X	37					
	SURR 5(ZFP) %RECOVERY	0 X	44	0 X	58	1 X				
	SURR 6(TBP) %RECOVERY	0 X	42	0 X	51	1 X				

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA	QA	QA
LOCATION	875/878	875/878	875/878
TYPE OF LOCATION	CULVERT	CULVERT	CULVERT
SAMPLE NUMBER	LL029010B	LL029021B	LL029032B
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	6	6	6
M/E 68-1			
M/E 68-2			
M/E 69			
M/E 70-1			
M/E 70-2			
M/E 127			
M/E 197			
M/E 198			
M/E 199			
M/E 275			
M/E 365			
M/E 441			
M/E 442			
M/E 443-1			
M/E 443-2			
INTERNAL STD AREA(ANT)	73200	63600	75300
INTERNAL STD AREA(CRY)	42400	37100	53700
INTERNAL STD AREA(DCB)	68400	67700	69100
INTERNAL STD AREA(NPT)	198000	205000	193000
INTERNAL STD AREA(PHN)	81600	56200	80700
INTERNAL STD AREA(PRY)	20900	24100	30900
DILUTION FACTOR	0.1	1	0.1
PERCENT MOISTURE	13	17	13
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)	6(14 D)	6(14 D)
AREA	QA	QA	QA
LOCATION	MATRIX	SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY	CONTINUING
SAMPLE NUMBER	LL030013B	LL030013B	CALIBRATION
MATRIX	SOIL	SOIL	TUNED CALIBRATION
UNITS	UG/KG	%	LL0105887
ENV PROBLEM NO	6	6	LL0105887
ACENAPHTHENE	1300 J	35	1.375
			4.7
			440 U

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TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

AREA	QA	QA	QA	QA	QA	QA	ISTD SHIFT	RET TIM	GSA WELLS	AREA
LOCATION	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD SHIFT	WELL	SOIL	UG/KG	9
TYPE OF LOCATION	LL030013B	LL030013B	LL0105885	LL0105887	LL0105887	LL0105888	LL036031B	SOIL AREA	UG/KG	
SAMPLE NUMBER	SOIL	SOIL	X	RRF	%					
MATRIX	UG/KG	X	6							
UNITS										
ENV PROBLEM NO										
ACENAPHTHYLENE	1900 U			2.223	6.6				440 U	
ANTHRACENE	1900 U			1.16	9.6				440 U	
BENZO(A)ANTHRACENE	1900 U			1.118	2.8				440 U	
BENZO(A)PYRENE	1900 U			1.29	6.4				440 U	
BENZO(B)FLUORANTHENE	1900 U			1.417	4.2				440 U	
BENZO(O,H,I)PERYLENE	1900 U			0.859	21.5				440 U	
BENZO(K)FLUORANTHENE	1900 U			1.246	11.9				440 U	
BENZOIC ACID	9200 U			0.193	4				2200 U	
BENZYL ALCOHOL	1900 U			0.894	2.2				440 U	
BIS(2-CHLOROETHOXY)METHANE	1900 U			0.819	12.9				440 U	
BIS(2-CHLOROISOPROPYL)ETHER	1900 U			2.168	19.6				440 U	
BIS(2-CHOROETHYL)ETHER	120000 E			2.248	10.6				440 U	
BIS(2-ETHYLHEXYL)PHTHALATE	1900 U			1.44	13.7				440 U	
BUTYLBENZYLPHthalate	1900 U			0.915	1.8				440 U	
CHRYSENE	1900 U			1.018	2.9				440 U	
DI-N-BUTYLPHthalate	1900 U			1.849	3.9				440 U	
DI-N-OCTYLPHthalate	140 J			2.278	11.8				440 U	
DIBENZ(A,H)ANTHRACENE	1900 U			0.888	19.3				440 U	
DIBENZOFURAN	1900 U			1.616	3.8				440 U	
DIETHYLPHthalate	1900 U			1.597	3.3				440 U	
DIMETHYLPHthalate	1900 U			1.455	5.3				440 U	
FLUORANTHENE	300 J			0.983	11.6				440 U	
FLUORENE	1900 U			1.229	4.4				440 U	
HEXACHLOROBENZENE	1900 U			0.461	6.4				440 U	
HEXACHLOROBUTADIENE	1900 U			0.175	4				440 U	
HEXACHLOROCYCLOPENTADIENE	1900 U			0.333	12.9				440 U	
HEXACHLOROETHANE	1900 U			0.874	21.2				440 U	
INDENO(1,2,3-CD)PYRENE	1900 U			1.319	0.5				440 U	
ISOPHORONE	1900 U			1.164	15				440 U	
N-NITROSO-DI-N-PROPYLAMINE	1400 J	37 *		1.468	14.7				440 U	
N-NITROSONDIPHENYLAMINE	1900 U			0.589	0.7				440 U	
NAPHTHALENE	1900 U			1.136	3.6				440 U	
NITROBENZENE	1900 U			0.58	9				440 U	
NITROBENZENE-D5				0.575	20.7				2200 U	
PENTACHLOROPHENOL	860 J	11 *		0.173	6.2				440 U	
PHENANTHRENE	340 J			1.119	4.5				440 U	
PHENOL	2200	29		2.62	24.7				440 U	
PHENOL-D5				2.093	11.1				440 U	
PYRENE	2000	52		1.476	9.8					

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA DUPLICATE LL030013B	QA RECOVERY LL030013B	QA TUNED CALIBRATION LL0105885	QA CONTINUING CALIBRATION LL0105887	QA CONTINUING CAL X/D LL0105887	QA ISTD SHIFT LL0105888	QA RET AREA WELLS LL036031B	GSA SOIL UG/KG 9
LOCATION	MATRIX	SPIKE X	MSD %					
TYPE OF LOCATION	DUPLICATE	RECOVERY	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIM
SAMPLE NUMBER	LL030013B	LL030013B	CALIBRATION	CALIBRATION	CAL X/D	SHIFT	WELLS	GSA
MATRIX	SOIL	SOIL	LL0105885	LL0105887	LL0105887	LL0105888	LL036031B	SOIL
UNITS	UG/KG	X	%	RRF	%	AREA	UG/KG	UG/KG
ENV PROBLEM NO	6	6						9
TERPHENYL-D14				1.201	1.4			
1,2-DICHLOROBENZENE	1900 U			1.495	0.7		440	U
1,2,4-TRICHLOROBENZENE	1400 J	37 *		0.285	0.4		440	U
1,3-DICHLOROBENZENE	1900 U			1.537	0.5		440	U
1,4-DICHLOROBENZENE	1300 J	35		1.532	1.6		440	U
2-CHLORONAPHTHALENE	1900 U			1.308	4.3		440	U
2-CHLOROPHENOL	2600	36		1.525	2.7		440	U
2-FLUOROBIPHENYL				1.401	0.3			
2-FLUOROPHENOL				1.387	2.4			
2-METHYLNAPHTHALENE	1900 U			0.839	8		440	U
2-METHYLPHENOL	1900 U			1.546	13.2		440	U
2-NITROANILINE	9200 U			0.681	22.8		2200	U
2-NITROPHENOL	1900 U			0.234	6.5		440	U
2,4-DICHLOROPHENOL	1900 U			0.243	5.2		440	U
2,4-DIMETHYLPHENOL	1900 U			0.341	0.3		440	U
2,4-DINITROPHENOL	9200 U			0.123	13.1		2200	U
2,4-DINITROTOLUENE	360 J	9 *		0.397	21.8		440	U
2,4,5-TRICHLOROPHENOL	9200 U			0.311	21.8		2200	U
2,4,6-TRIBROMOPHENOL				0.338	3.2			
2,4,6-TRICHLOROPHENOL	1900 U			0.382	0.8		440	U
2,6-DINITROTOLUENE	1900 U			0.349	2.1		440	U
3-NITROANILINE	9200 U			0.398	8.7		2200	U
3,3'-DICHLOROBENZIDINE	3700 U			0.307	17.6		880	U
4-BROMOPHENYL-PHENYLETHER	1900 U			0.333	4.7		440	U
4-CHLORO-3-METHYLPHENOL	2600	35		0.394	24.1		440	U
4-CHLOROANILINE	1900 U			0.533	8.3		440	U
4-CHLOROPHENYL-PHENYLETHER	1900 U			0.502	4		440	U
4-METHYLPHENOL	1900 U			1.546	13.7		440	U
4-NITROANILINE	9200 U			0.286	10.8		2200	U
4-NITROPHENOL	280 J	3 *		0.181	11.3		2200	U
4,6-DINITRO-2-METHYLPHENOL	9200 U			0.116	3.8		2200	U
SURR 1(NBZ) %RECOVERY							59	
SURR 2(FBP) %RECOVERY	1 *						46	
SURR 3(TPH) %RECOVERY	2 *						65	
SURR 4(PHL) %RECOVERY							58	
SURR 5(2FP) %RECOVERY	1 *						67	
SURR 6(TBP) %RECOVERY	1 *						53	

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TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

AREA	QA	QA	QA	QA	QA	QA	QA	ISTD RET TIM GSA AREA
LOCATION	MATRIX SPIKE MSD X	DUPPLICATE RECOVERY	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL XD	SHIFT LL0105887	WELLS LL036031B	
TYPE OF LOCATION	LL030013B	LL030013B	LL0105885	LL0105887	LL0105887	LL0105888	SOIL	
SAMPLE NUMBER	SOIL	SOIL	RRF	X	X	AREA	UG/KG	
MATRIX	UG/KG	%					9	
UNITS	6	6						
ENV PROBLEM NO								
M/E 68-1			0					
M/E 68-2			0					
M/E 69			83					
M/E 70-1			0					
M/E 70-2			0					
M/E 127			59					
M/E 197			0					
M/E 198			100					
M/E 199			6.9					
M/E 275			29					
M/E 365			3.5					
M/E 441			11					
M/E 442			67					
M/E 443-1			13					
M/E 443-2			19					
D-303								
INTERNAL STD AREA(ANT)	84400						62900	63400
INTERNAL STD AREA(CRY)	59400						51700	47100
INTERNAL STD AREA(DCB)	73500						49500	49100
INTERNAL STD AREA(NPT)	196000						160000	164000
INTERNAL STD AREA(PHN)	104000						77800	85500
INTERNAL STD AREA(PRY)	34900						38600	34400
DILUTION FACTOR	0.2							1
PERCENT MOISTURE	10							24
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)							6(14 D)
AREA	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION	BLDG. 612	BLDG. 612	BLDG. 612	MATRIX	MS X	RECOVERY	RPD	MATRIX SPIKE
TYPE OF LOCATION	DITCH	DITCH	DITCH	SPIKE	LL013034B	LL013034B	LL013034B	DUPPLICATE
SAMPLE NUMBER	LL013012B	LL013023B	LL013034B	LL013034B	LL013034B	LL013034B	LL013034B	LL013034B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	3	3	3	3	3	3	3	3
ACENAPHTHENE	400 U	380 U	380 U	1800	46	16	16	1500

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	BLDG. 612 TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 612 DITCH LL013012B	BLDG. 612 DITCH LL013023B	MATRIX SPIKE SOIL UG/KG 3	MS % RECOVERY SOIL UG/KG 3	QA	QA	QA	QA
						RPD LL013034B	SOIL UG/KG 3	DUPLICATE LL013034B	MATRIX SPIKE SOIL UG/KG 3
D-304	ACENAPHTHYLENE	400 U	380 U	380 U	380 U				380 U
	ANTHRACENE	400 U	380 U	380 U	380 U				380 U
	BENZO(A)ANTHRACENE	400 U	380 U	380 U	380 U				380 U
	BENZO(A)PYRENE	400 U	380 U	380 U	380 U				380 U
	BENZO(B)FLUORANTHENE	400 U	380 U	380 U	380 U				380 U
	BENZO(G,H,I)PERYLENE	400 U	380 U	380 U	380 U				380 U
	BENZO(K)FLUORANTHENE	400 U	380 U	380 U	380 U				380 U
	BENZOIC ACID	2000 U	1900 U	1900 U	1900 U				1900 U
	BENZYL ALCOHOL	400 U	380 U	380 U	380 U				380 U
	BIS(2-CHLOROETHOXY)METHANE	400 U	380 U	380 U	380 U				380 U
	BIS(2-CHLOROISOPROPYL)ETHER	400 U	380 U	380 U	380 U				380 U
	BIS(2-CHOROETHYL)ETHER	400 U	380 U	380 U	380 U				380 U
	BIS(2-ETHYLHEXYL)PHTHALATE	400 U	380 U	120 J	320 J				220 J
	BUTYLBENZYLPHthalate	400 U	380 U	380 U	380 U				380 U
	CHRYSENE	400 U	380 U	380 U	380 U				380 U
	DI-N-BUTYLPHTHALATE	400 U	380 U	380 U	78 J				380 U
	DI-N-OCTYLPHTHALATE	400 U	380 U	380 U	380 U				380 U
	DIBENZ(A,H)ANTHRACENE	400 U	380 U	380 U	380 U				380 U
	DIBENZOFURAN	400 U	380 U	380 U	380 U				380 U
	DIETHYLPHthalate	400 U	380 U	380 U	37 J				380 U
	DIMETHYLPHthalate	400 U	380 U	380 U	380 U				380 U
	FLUORANTHENE	400 U	380 U	380 U	380 U				380 U
	FLUORENE	400 U	380 U	380 U	380 U				380 U
	HEXACHLOROBENZENE	400 U	380 U	380 U	380 U				380 U
	HEXACHLOROBUTADIENE	400 U	380 U	380 U	380 U				380 U
	HEXACHLOROCYCLOPENTADIENE	400 U	380 U	380 U	380 U				380 U
	HEXACHLOROETHANE	400 U	380 U	380 U	380 U				380 U
	INDENO(1,2,3-CD)PYRENE	400 U	380 U	380 U	380 U				380 U
	ISOPHORONE	400 U	380 U	380 U	380 U				380 U
	N-NITROSO-DI-N-PROPYLAMINE	400 U	380 U	380 U	2300	60	20		1900 U
	N-NITROSODIPHENYLAMINE	400 U	380 U	380 U	380 U				380 U
	NAPHTHALENE	400 U	380 U	380 U	380 U				380 U
	NITROBENZENE	400 U	380 U	380 U	380 U				380 U
	NITROBENZENE-D5								
	PENTACHLOROPHENOL	2000 U	1900 U	1900 U	3100	40	13		2700 U
	PHENANTHRENE	400 U	380 U	380 U	380 U				380 U
	PHENOL	400 U	380 U	380 U	3100	40	2		3200 U
	PHENOL-D5								
	PYRENE	400 U	380 U	380 U	1800	46	9		1600 U

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

AREA	LOCATION	TYPE OF LOCATION	SAMPLE NUMBER	MATRIX	UNITS	ENV PROBLEM NO	QA	QA	QA	QA				
							BLDG. 612	DITCH	BLDG. 612	MATRIX SPIKE	MS % RECOVERY	RPD	MATRIX SPIKE DUPLICATE	
				SOIL	UG/KG	LL013012B	DITCH	LL013023B	SOIL	LL013034B	SOIL	LL013034B	SOIL	UG/KG
				3	3		3	3	3	3	3	3	3	3
D-305	TERPHENYL-D14													380 U
	1,2-DICHLOROBENZENE			400 U	380 U		380 U		380 U	1700	45	11	1500	
	1,2,4-TRICHLOROBENZENE			400 U	380 U		380 U		380 U			19	380 U	
	1,3-DICHLOROBENZENE			400 U	380 U		380 U		380 U	1700	45	19	1400	
	1,4-DICHLOROBENZENE			400 U	380 U		380 U		380 U				380 U	
	2-CHLORDNAPHTHALENE			400 U	380 U		380 U		380 U	2600	34	50	4400	
	2-CHLOROPHENOL			400 U	380 U		380 U		380 U					
	2-FLUOROBIPHENYL													380 U
	2-FLUOROPHENOL													380 U
	2-METHYLNAPHTHALENE			400 U	380 U		380 U		380 U	380 U				380 U
	2-METHYLPHENOL			400 U	380 U		380 U		380 U	1900 U				1900 U
	2-NITROANILINE			2000 U	1900 U		1900 U		1900 U	1900 U				380 U
	2-NITROPHENOL			400 U	380 U		380 U		380 U	380 U				380 U
	2,4-DICHLOROPHENOL			400 U	380 U		380 U		380 U	380 U				380 U
	2,4-DIMETHYLPHENOL			400 U	380 U		380 U		380 U	380 U				1900 U
	2,4-DINITROPHENOL			2000 U	1900 U		1900 U		1900 U	1900 U		48	15	1600
	2,4-DINITROTOLUENE			400 U	380 U		380 U		380 U	1800				1900 U
	2,4,5-TRICHLOROPHENOL			2000 U	1900 U		1900 U		1900 U	1900 U				
	2,4,6-TRIBROMOPHENOL													380 U
	2,4,6-TRICHLOROPHENOL			400 U	380 U		380 U		380 U	380 U				380 U
	2,6-DINITROTOLUENE			600 U	380 U		380 U		380 U	1900 U				1900 U
	3-NITROANILINE			2000 U	1900 U		1900 U		1900 U	1900 U				770 U
	3,3'-DICHLOROBENZIDINE			800 U	760 U		770 U		770 U					380 U
	4-BROMOPHENYL-PHENYLETHER			400 U	380 U		380 U		380 U	3000	38	16	3500	
	4-CHLORO-3-METHYLPHENOL			400 U	380 U		380 U		380 U	380 U				380 U
	4-CHLOROANILINE			400 U	380 U		380 U		380 U	380 U				380 U
	4-CHLOROPHENYL-PHENYLETHER			400 U	380 U		380 U		380 U	380 U				380 U
	4-METHYLPHENOL			400 U	380 U		380 U		380 U	380 U				380 U
	4-NITROANILINE			2000 U	1900 U		1900 U		1900 U	1900 U				1900 U
	4-NITROPHENOL			2000 U	1900 U		1900 U		1900 U	4700	61	1	4800	
	4,6-DINITRO-2-METHYLPHENOL			2000 U	1900 U		1900 U		1900 U	1900 U				1900 U
	SURR 1(NBZ) %RECOVERY			56	53		12 X		33					48
	SURR 2(FBP) %RECOVERY			48	44		40		38					40
	SURR 3(TPH) %RECOVERY			56	42		47		40					36
	SURR 4(PHL) %RECOVERY			55	53		47		42					48
	SURR 5(2FP) %RECOVERY			66	60		29		51					47
	SURR 6(TBP) %RECOVERY			53	44		55		52					46

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA		
LOCATION	BLDG. 612	BLDG. 612	BLDG. 612	MATRIX		
TYPE OF LOCATION	DITCH	DITCH	DITCH	SPIKE		
SAMPLE NUMBER	LL013012B	LL013023B	LL013034B	MS % RECOVERY		
MATRIX	SOIL	SOIL	SOIL	LL013034B		
UNITS	UG/KG	UG/KG	UG/KG	% SOIL		
ENV PROBLEM NO	3	3	3	% SOIL		
				RPD		
				MATRIX SPIKE		
				DUPLICATE		
				LL013034B		
				SOIL		
				UG/KG		
				3		
M/E 68-1						
M/E 68-2						
M/E 69						
M/E 70-1						
M/E 70-2						
M/E 127						
M/E 197						
M/E 198						
M/E 199						
M/E 275						
M/E 365						
M/E 441						
M/E 442						
M/E 443-1						
M/E 443-2						
INTERNAL STD AREA(ANT)	70900	76500	72900	70700	78800	
INTERNAL STD AREA(CRY)	52200	57400	73400	62400	63100	
INTERNAL STD AREA(DCB)	50800	54000	50700	52600	52500	
INTERNAL STD AREA(NPT)	177000	189000	170000	202000	184000	
INTERNAL STD AREA(PHN)	88300	104000	99400	97900	97700	
INTERNAL STD AREA(PRY)	36900	39600	51300	43200	47500	
DILUTION FACTOR	1	1	1	1	1	
PERCENT MOISTURE	17	12	13	13	13	
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)	6(14 D)	6(14 D)	6(14 D)	6(14 D)	
AREA	QA	QA	QA	QA		
LOCATION	MSD %	DRUM RACK	DRUM RACK	TUNED	CONTINUING	CONTINUING
TYPE OF LOCATION	RECOVERY	SUMP	SUMP	CALIBRATION	CALIBRATION	CAL %D
SAMPLE NUMBER	LL013034B	LL032015B	LL032026B	LL0108885	LL0108887	LL0108887
MATRIX	SOIL	SOIL	SOIL	%	RRF	%
UNITS	%	UG/KG	UG/KG	UG/KG		
ENV PROBLEM NO	3	6	6	6		
ACENAPHTHENE	39	440 U	420 U	410 U	1.413	7.5

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TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	CONTINUING CALIBRATION LL0108887	CONTINUING CAL %D LL0108887
LOCATION	MSD X RECOVERY SUMP LL013034B	DRUM RACK SUMP LL032015B	DRUM RACK SUMP LL032026B	DRUM RACK SUMP LL032037B	TUNED CALIBRATION LL0108885	RRF
TYPE OF LOCATION	SOIL %	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	X	%
SAMPLE NUMBER	3	6	6	6		
MATRIX						
UNITS						
ENV PROBLEM NO						
ACENAPHTHYLENE		440 U	420 U	410 U	2.238	7.3
ANTHRACENE		440 U	420 U	410 U	1.145	8.2
BENZO(A)ANTHRACENE		440 U	420 U	410 U	1.037	4.7
BENZO(A)PYRENE		440 U	420 U	410 U	1.281	5.7
BENZO(B)FLUORANTHENE		440 U	420 U	410 U	1.439	5.8
BENZO(G,H,I)PERYLENE		440 U	420 U	410 U	0.902	17.6
BENZO(K)FLUORANTHENE		440 U	420 U	410 U	1.208	8.4
BENZOIC ACID		2200 U	2100 U	2100 U	0.167	9.8
BENZYL ALCOHOL		440 U	420 U	410 U	0.627	31.4
BIS(2-CHLOROETHOXY)METHANE		440 U	2100 U	410 U	0.753	3.8
BIS(2-CHLOROISOPROPYL)ETHER		440 U	420 U	410 U	2.16	19.1
BIS(2-CHLOROETHYL)ETHER		440 U	420 U	410 U	2.23	9.7
BIS(2-ETHYLHEXYL)PHTHALATE		5800 U	4500 U	25000 E	1.487	17.4
BUTYL BENZYL PHTHALATE		440 U	420 U	410 U	0.971	8
CHRYSENE		440 U	420 U	410 U	1.079	2.9
DI-N-BUTYL PHTHALATE		440 U	420 U	410 U	1.862	4.7
DI-N-OCTYL PHTHALATE		11 J	17 J	10 J	2.511	23.3
DIBENZ(A,H)ANTHRACENE		440 U	420 U	410 U	0.895	18.7
DIBENZOFURAN		440 U	420 U	410 U	1.627	4.5
DIETHYL PHTHALATE		440 U	420 U	21 J	1.533	0.9
DIMETHYL PHTHALATE		440 U	420 U	410 U	1.579	2.8
FLUORANTHENE		440 U	420 U	410 U	0.938	6.5
FLUORENE		440 U	420 U	410 U	1.233	4.8
HEXACHLOROBENZENE		440 U	420 U	410 U	0.489	0.8
HEXACHLOROBUTADIENE		440 U	420 U	410 U	0.175	3.6
HEXACHLOROCYCLOPENTADIENE		440 U	420 U	410 U	0.38	29.2
HEXACHLOROETHANE		440 U	420 U	410 U	0.844	17
INDENO(1,2,3-CD)PYRENE		440 U	420 U	410 U	1.242	6.3
ISOPHORONE	49	440 U	420 U	410 U	1.129	11.5
N-NITROSO-DI-N-PROPYLAMINE		440 U	420 U	410 U	1.477	15.3
N-NITROSO-DIPHENYLAMINE		440 U	420 U	410 U	0.609	4.2
NAPHTHALENE		440 U	420 U	410 U	1.106	0.9
NITROBENZENE		440 U	420 U	410 U	0.648	1.6
NITROBENZENE-D5					0.512	7.6
PENTACHLOROPHENOL	35	2200 U	2100 U	2100 U	0.181	11.3
PHENANTHRENE		440 U	420 U	410 U	1.092	2
PHENOL	41	440 U	420	410 U	2.314	10.1
PHENOL-D5					1.796	4.7
PYRENE	42	440 U	420 U	410 U	1.394	3.7

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	MSD % RECOVERY LL013034B	DRUM RACK SUMP LL032015B	DRUM RACK SUMP LL032026B	DRUM RACK SUMP LL032037B	TUNED CALIBRATION LL0108885	CONTINUING CALIBRATION LL0108887	CONTINUING CAL %D LL0108887
	% 3	UG/KG 6	UG/KG 6	UG/KG 6	%	RRF	%
TERPHENYL-D14							
1,2-DICHLOROBENZENE		440 U	420 U	410 U	1.226	0.7	
1,2,4-TRICHLOROBENZENE	40	440 U	420 U	410 U	1.544	4	
1,3-DICHLOROBENZENE		440 U	420 U	410 U	0.277	3.3	
1,4-DICHLOROBENZENE	37	440 U	420 U	410 U	1.572	2.8	
2-CHLORONAPHTHALENE		440 U	420 U	410 U	1.585	5.1	
2-CHLOROPHENOL	57	440 U	420 U	410 U	1.34	6.8	
2-FLUOROBIPHENYL		440 U	420 U	410 U	1.56	5	
2-FLUOROPHENOL		440 U	420 U	410 U	1.489	6	
2-METHYLNAPHTHALENE		440 U	420 U	410 U	1.34	5.8	
2-METHYLPHENOL		440 U	420 U	410 U	0.818	5.2	
2-NITROANILINE		2200 U	2100 U	2100 U	1.364	0.2	
2-NITROPHENOL		440 U	420 U	410 U	0.687	24	
2,4-DICHLOROPHENOL		440 U	420 U	410 U	0.233	6.1	
2,4-DIMETHYLPHENOL		440 U	420 U	410 U	0.228	11.1	
2,4-DINITROPHENOL		440 U	420 U	410 U	0.275	19.8	
2,4-DINITROTOLUENE	41	2200 U	2100 U	2100 U	0.091	16.3	
2,4,5-TRICHLOROPHENOL		440 U	420 U	410 U	0.372	14.1	
2,4,6-TRIBROMOPHENOL		2200 U	2100 U	2100 U	0.359	9.7	
2,4,6-TRICHLOROPHENOL		440 U	420 U	410 U	0.321	8.2	
2,6-DINITROTOLUENE		440 U	420 U	410 U	0.364	4	
3-NITROANILINE		2200 U	2100 U	2100 U	0.352	2.9	
3,3'-DICHLOROBENZIDINE		880 U	830 U	820 U	0.381	4	
4-BROMOPHENYL-PHENYLETHER		440 U	420 U	410 U	0.255	31.7	
4-CHLORO-3-METHYLPHENOL	45	440 U	420 U	410 U	0.357	2.2	
4-CHLOROANILINE		440 U	420 U	410 U	0.368	16	
4-CHLOROPHENYL-PHENYLETHER		440 U	420 U	410 U	0.492	0	
4-METHYLPHENOL		440 U	420 U	410 U	0.508	2.7	
4-NITROANILINE		2200 U	2100 U	2100 U	1.364	0.3	
4-NITROPHENOL	62	2200 U	2100 U	2100 U	0.251	2.7	
4,6-DINITRO-2-METHYLPHENOL		2200 U	2100 U	2100 U	0.158	22.7	
SURR 1(NBZ) %RECOVERY		37	26	36	0.111	7.8	
SURR 2(FBP) %RECOVERY		30	26 *	30			
SURR 3(TPH) %RECOVERY		32	23	27			
SURR 4(PHL) %RECOVERY		35	29	37			
SURR 5(2FP) %RECOVERY		44	28	47			
SURR 6(TBP) %RECOVERY		31	25	27			

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TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA
LOCATION	MSD X	DRUM RACK	DRUM RACK	TUNED
TYPE OF LOCATION	RECOVERY	SUMP	SUMP	CALIBRATION
SAMPLE NUMBER	LL013034B	LL032015B	LL032026B	LL032037B
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	3	6	6	6

M/E 68-1				0
M/E 68-2				0
M/E 69				71
M/E 70-1				0
M/E 70-2				0
M/E 127				58
M/E 197				0
M/E 198				100
M/E 199				7.1
M/E 275				29
M/E 365				2.8
M/E 441				8.5
M/E 442				55
M/E 443-1				12
M/E 443-2				21

INTERNAL STD AREA(ANT)	84700	78700	84800
INTERNAL STD AREA(CRY)	56500	58600	49600
INTERNAL STD AREA(DCB)	63500	58300	62700
INTERNAL STD AREA(NPT)	208000	194000	226000
INTERNAL STD AREA(PHN)	99400	92500	94200
INTERNAL STD AREA(PRY)	46100	40900	37500

DILUTION FACTOR	1	1	1
PERCENT MOISTURE	24	20	19
ACTUAL(ALLOWED) EXTRACT TIME	9(14 D)	9(14 D)	9(14 D)

AREA	N OF 4TH ST	DRUM RACK					
LOCATION		SUMP	SUMP	SUMP	SUMP	SUMP	SUMP
TYPE OF LOCATION	ARROYO	LL032082B	LL032093B	LL032106B	LL032117B	LL032128B	LL032139B
SAMPLE NUMBER	LL011010B						
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	6	6	6	6	6	6

ACENAPHTHENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
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TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	N OF 4TH ST ARROYO LL011010B SOIL UG/KG 1	DRUM RACK SUMP LL032082B SOIL UG/KG 6	DRUM RACK SUMP LL032093B SOIL UG/KG 6	DRUM RACK SUMP LL032106B SOIL UG/KG 6	DRUM RACK SUMP LL032117B SOIL UG/KG 6	DRUM RACK SUMP LL032128B SOIL UG/KG 6	DRUM RACK SUMP LL032139B SOIL UG/KG 6
ACENAPHTHYLENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
ANTHRACENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
BENZO(A)ANTHRACENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
BENZO(A)PYRENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
BENZO(B)FLUORANTHENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
BENZO(G,H,I)PERYLENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
BENZO(K)FLUORANTHENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
BENZOIC ACID	2000 U	1800 U	1800 U	1900 U	1800 U	1800 U	1800 U
BENZYL ALCOHOL	400 U	360 U	350 U	370 U	360 U	360 U	350 U
BIS(2-CHLOROETHOXY)METHANE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
BIS(2-CHLOROISOPROPYL)ETHER	400 U	360 U	350 U	370 U	360 U	360 U	350 U
BIS(2-CHOROETHYL)ETHER	400 U	360 U	350 U	370 U	360 U	360 U	350 U
BIS(2-ETHYLHEXYL)PHTHALATE	22000 E	89000 E	80000 E	9400 E	10000 E	62000 E	87000 E
BUTYLBENZYLPHthalate	400 U	360 U	350 U	370 U	360 U	360 U	350 U
CHRYSENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
DI-N-BUTYLPHthalate	400 U	360 U	350 U	29 J	360 U	360 U	350 U
DI-N-OCTYLPHthalate	23 J	220 J	85 J	34 J	22 J	43 J	68 J
DIBENZ(A,H)ANTHRACENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
DIBENZOFURAN	400 U	360 U	350 U	370 U	360 U	360 U	350 U
DIETHYLPHthalate	400 U	360 U	350 U	28 J	27 J	24 J	35 J
DIMETHYLPHthalate	400 U	360 U	350 U	370 U	360 U	360 U	350 U
FLUORANTHENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
FLUORENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
HEXACHLOROBENZENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
HEXACHLOROBUTADIENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
HEXACHLOROCYCLOPENTADIENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
HEXACHLOROETHANE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
INDENO(1,2,3-CD)PYRENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
ISOPHORONE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
N-NITROSO-DI-N-PROPYLAMINE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
N-NITROSODIPHENYLAMINE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
NAPHTHALENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
NITROBENZENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
NITROBENZENE-D5							
PENTACHLOROPHENOL	2000 U	1800 U	1800 U	1900 U	1800 U	1800 U	1800 U
PHENANTHRENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
PHENOL	400 U	360 U	350 U	370 U	360 U	360 U	2000
PHENOL-D5							
PYRENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U

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TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	N OF 4TH ST ARROYO LL011010B SOIL UG/KG 1	DRUM RACK SUMP LL032082B SOIL UG/KG 6	DRUM RACK SUMP LL032093B SOIL UG/KG 6	DRUM RACK SUMP LL032106B SOIL UG/KG 6	DRUM RACK SUMP LL032117B SOIL UG/KG 6	DRUM RACK SUMP LL032128B SOIL UG/KG 6	DRUM RACK SUMP LL032139B SOIL UG/KG 6
<b>TERPHENYL-D14</b>							
1,2-DICHLOROBENZENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
1,2,4-TRICHLOROBENZENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
1,3-DICHLOROBENZENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
1,4-DICHLOROBENZENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
2-CHLORONAPHTHALENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
2-CHLOROPHENOL	400 U	360 U	350 U	370 U	360 U	360 U	350 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	400 U	360 U	350 U	370 U	10 J	360 U	350 U
2-METHYLPHENOL	400 U	360 U	350 U	370 U	360 U	360 U	350 U
2-NITROANILINE	2000 U	1800 U	1800 U	1900 U	1800 U	1800 U	1800 U
2-NITROPHENOL	400 U	360 U	350 U	370 U	360 U	360 U	350 U
2,4-DICHLOROPHENOL	400 U	360 U	350 U	370 U	360 U	360 U	350 U
2,4-DIMETHYLPHENOL	400 U	360 U	350 U	370 U	360 U	360 U	350 U
2,4-DINITROPHENOL	2000 U	1800 U	1800 U	1900 U	1800 U	1800 U	1800 U
2,4-DINITROTOLUENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
2,4,5-TRICHLOROPHENOL	2000 U	1800 U	1800 U	1900 U	1800 U	1800 U	1800 U
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	400 U	360 U	350 U	370 U	360 U	360 U	350 U
2,6-DINITROTOLUENE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
3-NITROANILINE	2000 U	1800 U	1800 U	1900 U	1800 U	1800 U	1800 U
3,3'-DICHLOROBENZIDINE	790 U	720 U	710 U	740 U	720 U	720 U	710 U
4-BROMOPHENYL-PHENYLETHER	400 U	360 U	350 U	370 U	360 U	360 U	350 U
4-CHLORO-3-METHYLPHENOL	400 U	360 U	350 U	370 U	360 U	360 U	350 U
4-CHLOROANILINE	400 U	360 U	350 U	370 U	360 U	360 U	350 U
4-CHLOROPHENYL-PHENYLETHER	400 U	360 U	350 U	370 U	360 U	360 U	350 U
4-METHYLPHENOL	400 U	360 U	350 U	370 U	360 U	360 U	350 U
4-NITROANILINE	2000 U	1800 U	1800 U	1900 U	1800 U	1800 U	1800 U
4-NITROPHENOL	2000 U	1800 U	1800 U	1900 U	1800 U	1800 U	1800 U
4,6-DINITRO-2-METHYLPHENOL	2000 U	1800 U	1800 U	1900 U	1800 U	1800 U	1800 U
SURR 1(NBZ) %RECOVERY	40	26	29	35	47	22 *	31
SURR 2(FBP) %RECOVERY	32	30	23 *	37	48	20 *	28 *
SURR 3(TPH) %RECOVERY	32	36	46	35	43	32	35
SURR 4(PHL) %RECOVERY	33	25	33	39	55	25	30
SURR 5(2FP) %RECOVERY	41	27	34	42	57	27	0 *
SURR 6(TBP) %RECOVERY	25	27	36	29	38	29	30

DRAFT DO NOT CITE

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

## AREA

LOCATION	N OF 4TH ST	DRUM RACK					
TYPE OF LOCATION	ARROYO	SUMP	SUMP	SUMP	SUMP	SUMP	SUMP
SAMPLE NUMBER	LL011010B	LL032082B	LL032093B	LL032106B	LL032117B	LL032128B	LL032139B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	6	6	6	6	6	6

M/E 68-1  
M/E 68-2  
M/E 69  
M/E 70-1  
M/E 70-2  
M/E 127  
M/E 197  
M/E 198  
M/E 199  
M/E 275  
M/E 365  
M/E 441  
M/E 442  
M/E 443-1  
M/E 443-2

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INTERNAL STD AREA(ANT)	72900	61400	83400	95700	96300	95100	80800
INTERNAL STD AREA(CRY)	44500	27000	26000	61000	65600	57500	49200
INTERNAL STD AREA(DCB)	59900	58500	67200	76100	76300	71000	60600
INTERNAL STD AREA(NPT)	174000	191000	227000	252000	262000	244000	226000
INTERNAL STD AREA(PHN)	78600	72700	74100	82400	87600	95600	87600
INTERNAL STD AREA(PRY)	32700	13100	13400	37300	47900	36500	34700
DILUTION FACTOR	1	1	1	1	1	1	1
PERCENT MOISTURE	16	8	6	10	8	7	6
ACTUAL(ALLOWED) EXTRACT TIME	10(14 D)	9(14 D)					

## AREA

LOCATION	DRUM RACK	DRUM RACK	DRUM RACK
TYPE OF LOCATION	SUMP	SUMP	SUMP
SAMPLE NUMBER	LL032140B	LL032151B	LL032071B
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	6	6	6
ACENAPHTHENE	350 U	350 U	350 U

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

AREA	DRUM RACK SUMP LL032140B	DRUM RACK SUMP LL032151B	DRUM RACK SUMP LL032071B
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	UG/KG 6	UG/KG 6	UG/KG 6
ACENAPHTHYLENE	350 U	350 U	350 U
ANTHRACENE	350 U	350 U	350 U
BENZO(A)ANTHRACENE	350 U	350 U	350 U
BENZO(A)PYRENE	350 U	350 U	350 U
BENZO(B)FLUORANTHENE	350 U	350 U	350 U
BENZO(G,H,I)PERYLENE	350 U	350 U	350 U
BENZO(K)FLUORANTHENE	350 U	350 U	350 U
BENZOIC ACID	1800 U	1800 U	1800 U
BENZYL ALCOHOL	350 U	350 U	350 U
BIS(2-CHLOROETHOXY)METHANE	350 U	350 U	350 U
BIS(2-CHLORODISOPROPYL)ETHER	350 U	350 U	350 U
BIS(2-CHRODETHYL)ETHER	350 U	350 U	350 U
BIS(2-ETHYLHEXYL)PHTHALATE	76000 E	78000 E	63000 E
BUTYL BENZYL PHTHALATE	350 U	350 U	350 U
CHRYSENE	350 U	350 U	350 U
DI-N-BUTYL PHTHALATE	350 U	350 U	350 U
DI-N-OCTYL PHTHALATE	33 J	27 J	350 U
DIBENZ(A,H)ANTHRACENE	350 U	350 U	350 U
DIBENZOFURAN	350 U	350 U	350 U
DIETHYL PHTHALATE	29 J	350 U	20 J
DIMETHYL PHTHALATE	350 U	350 U	350 U
FLUORANTHENE	350 U	350 U	350 U
FLUORENE	350 U	350 U	350 U
HEXA CHLOROBENZENE	350 U	350 U	350 U
HEXA CHLOROBUTADIENE	350 U	350 U	350 U
HEXA CHLOROCYCLOPENTADIENE	350 U	350 U	350 U
HEXA CHLOROETHANE	350 U	350 U	350 U
INDENO(1,2,3-CD)PYRENE	350 U	350 U	350 U
ISOPHORONE	350 U	350 U	350 U
N-NITROSO-DI-N-PROPYLAMINE	350 U	350 U	350 U
N-NITROSODIPHENYLAMINE	350 U	350 U	350 U
NAPHTHALENE	350 U	350 U	350 U
NITROBENZENE	350 U	350 U	350 U
NITROBENZENE-D5	350 U	350 U	350 U
PENTACHLOROPHENOL	1800 U	1800 U	1800 U
PHENANTHRENE	350 U	350 U	350 U
PHENOL	350 U	350 U	350 U
PHENOL-D5			
PYRENE	350 U	350 U	350 U

TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	DRUM RACK SUMP LL032140B	DRUM RACK SUMP LL032151B	DRUM RACK SUMP LL032071B
	UG/KG 6	UG/KG 6	UG/KG 6
TERPHENYL-D14			
1,2-DICHLOROBENZENE	350 U	350 U	350 U
1,2,4-TRICHLOROBENZENE	350 U	350 U	350 U
1,3-DICHLOROBENZENE	350 U	350 U	350 U
1,4-DICHLOROBENZENE	350 U	350 U	350 U
2-CHLORONAPHTHALENE	350 U	350 U	350 U
2-CHLOROPHENOL	350 U	350 U	350 U
2-FLUOROBIPHENYL			
2-FLUOROPHENOL			
2-METHYLNAPHTHALENE	350 U	350 U	350 U
2-METHYLPHENOL	350 U	350 U	350 U
2-NITROANILINE	1800 U	1800 U	1800 U
2-NITROPHENOL			
2,4-DICHLOROPHENOL	350 U	350 U	350 U
2,4-DIMETHYLPHENOL	350 U	350 U	350 U
2,4-DINITROPHENOL	1800 U	1800 U	1800 U
2,4-DINITROTOLUENE	350 U	350 U	350 U
2,4,5-TRICHLOROPHENOL	1800 U	1800 U	1800 U
2,4,6-TRIBROMOPHENOL			
2,4,6-TRICHLOROPHENOL	350 U	350 U	350 U
2,6-DINITROTOLUENE	350 U	350 U	350 U
3-NITROANILINE	1800 U	1800 U	1800 U
3,3'-DICHLOROBENZIDINE	710 U	710 U	710 U
4-BROMOPHENYL-PHENYLETHER	350 U	350 U	350 U
4-CHLORO-3-METHYLPHENOL	350 U	350 U	350 U
4-CHLOROANILINE	350 U	350 U	350 U
4-CHLOROPHENYL-PHENYLETHER	350 U	350 U	350 U
4-METHYLPHENOL	350 U	350 U	350 U
4-NITROANILINE	1800 U	1800 U	1800 U
4-NITROPHENOL	1800 U	1800 U	1800 U
4,6-DINITRO-2-METHYLPHENOL	1800 U	1800 U	1800 U
SURR 1(NBZ) %RECOVERY	68	44	29
SURR 2(FBP) %RECOVERY	60	43	23 *
SURR 3(TPH) %RECOVERY	62	64	56
SURR 4(PHL) %RECOVERY	0 *	0 *	29
SURR 5(2FP) %RECOVERY	0 *	0 *	33
SURR 6(TBP) %RECOVERY	0 *	0 *	33

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TABLE D.6.14 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018

DRAFT DO NOT CITE

## AREA

LOCATION	DRUM RACK	DRUM RACK	DRUM RACK
TYPE OF LOCATION	SUMP	SUMP	SUMP
SAMPLE NUMBER	LL032140B	LL032151B	LL032071B
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	6	6	6

M/E 68-1  
M/E 68-2  
M/E 69  
M/E 70-1  
M/E 70-2  
M/E 127  
M/E 197  
M/E 198  
M/E 199  
M/E 275  
M/E 365  
M/E 441  
M/E 442  
M/E 443-1  
M/E 443-2

INTERNAL STD AREA(ANT)	84200	89000	79200
INTERNAL STD AREA(CRY)	56300	47600	24500
INTERNAL STD AREA(DCB)	67200	68000	70800
INTERNAL STD AREA(NPT)	241000	240000	229000
INTERNAL STD AREA(PHN)	94400	91300	97200
INTERNAL STD AREA(PRY)	38200	32800	10900

DILUTION FACTOR	1	1	1
PERCENT MOISTURE	6	6	6
ACTUAL(ALLOWED) EXTRACT TIME	9(14 D)	9(14 D)	9(14 D)

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TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	ISTD	RET	TIM	N OF 4TH ST	N OF 4TH ST	SANDIA CROSS
LOCATION	TUNED	CONTINUING	CONTINUING		SHIFT		ARROYO	ARROYO	ARROYO	INACTIVE SIT
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL X'D		LL0111888	LL0111021B	SOIL	LL011032B	SOIL	SN010010B
SAMPLE NUMBER	LL0111885	LL0111887	LL0111887				UG/KG	UG/KG	UG/KG	UG/KG
MATRIX	%	RRF	%	AREA			1	1	1	4
UNITS										
ENV PROBLEM NO										
ACENAPHTHENE		1.403	6.8				390 U	420 U	350 U	
ACENAPHTHYLENE		2.202	5.6				390 U	420 U	350 U	
ANTHRACENE		1.069	1				390 U	420 U	350 U	
BENZO(A)ANTHRACENE		1.137	4.5				390 U	420 U	350 U	
BENZO(A)PYRENE		1.284	5.9				390 U	420 U	350 U	
BENZO(B)FLUORANTHENE		1.559	14.7				390 U	420 U	350 U	
BENZO(G,H,I)PERYLENE		1.098	0.3				390 U	420 U	350 U	
BENZO(K)FLUORANTHENE		1.071	3.9				390 U	420 U	350 U	
BENZOIC ACID		0.193	4.1			1900 U		2100 U		1700 U
BENZYL ALCOHOL		0.693	24.2				390 U	420 U	350 U	
BIS(2-CHLOROETHOXY)METHANE		0.841	16				390 U	420 U	350 U	
BIS(2-CHLOROISOPROPYL)ETHER		2.495	37.6				390 U	420 U	350 U	
BIS(2-CHOROETHYL)ETHER		2.601	28				390 U	420 U	350 U	
BIS(2-ETHYLHEXYL)PHTHALATE		1.667	31.6			50000 E		3800 U		250 J
BUTYLBENZYLPHthalate		0.813	9.6				390 U	420 U	350 U	
CHRYSENE		1.039	0.9				390 U	420 U	350 U	
DI-N-BUTYLPHthalate		2.075	16.6				68 J	420 U	350 U	
DI-N-OCTYLPHthalate		2.508	23.1				39 J	420 U	350 U	
DIBENZ(A,H)ANTHRACENE		1.046	5				390 U	420 U	350 U	
DIBENZOFURAN		1.684	8.2				390 U	420 U	350 U	
DIETHYLPHthalate		1.803	16.6				64 J	420 U	350 U	
DIMETHYLPHthalate		1.609	4.7				390 U	420 U	350 U	
FLUORANTHENE		1.012	14.9				390 U	420 U	350 U	
FLUDRENE		1.264	7.5				390 U	420 U	350 U	
HEXAChLOROBENZENE		0.457	7.2				390 U	420 U	350 U	
HEXAChLOROBUTADIENE		0.197	8.1				390 U	420 U	350 U	
HEXAChLOROCYCLOPENTADIENE		0.381	29.5				390 U	420 U	350 U	
HEXAChLOROETHANE		0.94	30.3				390 U	420 U	350 U	
INDENO(1,2,3-CD)PYRENE		1.4	5.6				390 U	420 U	350 U	
ISOPHORONE		1.241	22.6				390 U	420 U	350 U	
N-NITROSO-DI-N-PROPYLAMINE		1.454	13.6				390 U	420 U	350 U	
N-NITROSODIPHENYLAMINE		0.572	2.2				390 U	420 U	350 U	
NAPHTHALENE		1.135	3.5				390 U	420 U	350 U	
NITROBENZENE		0.841	31.8				390 U	420 U	350 U	
NITROBENZENE-D5		0.517	8.6				390 U	420 U	350 U	
PENTACHLOROPHENOL		0.186	14.2			1900 U		2100 U		1700 U
PHENANTHRENE		1.082	1.1				390 U	420 U	350 U	
PHENOL		2.55	21.3				390 U	420 U	350 U	
PHENOL-D5		2.238	18.8							

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

AREA	QA TUNED CALIBRATION LL0111885	QA CONTINUING CALIBRATION LL0111887	QA CONTINUING CAL X/D LL0111887	QA ISTD SHIFT LL0111888	RET AREA	N OF 4TH ST ARROYO LL011021B	N OF 4TH ST ARROYO LL011032B	SANDIA CROSS INACTIVE SIT SN010010B
	% RRF	%				1 SOIL UG/KG	1 SOIL UG/KG	4 SOIL UG/KG
PYRENE		1.375	2.2			390 U	420 U	350 U
TERPHENYL-D14		1.117	8.2			390 U	420 U	350 U
1,2-DICHLOROBENZENE		1.526	2.8			390 U	420 U	350 U
1,2,4-TRICHLOROBENZENE		0.28	2.4			390 U	420 U	350 U
1,3-DICHLOROBENZENE		1.52	0.6			390 U	420 U	350 U
1,3,5-TRIAZINE-2,4-DIAMINE,		1.546	2.5			390 U	420 U	350 U
1,4-DICHLOROBENZENE		1.336	6.4			390 U	420 U	350 U
2-CHLORONAPHTHALENE		1.634	10			390 U	420 U	350 U
2-CHLOROPHENOL		1.438	2.4			390 U	420 U	350 U
2-FLUOROBIPHENYL		1.303	8.3			390 U	420 U	350 U
2-FLUOROPHENOL		0.777	0			390 U	420 U	350 U
2-METHYLNAPHTHALENE		1.434	5			390 U	420 U	350 U
2-METHYLPHENOL		0.759	37			1900 U	2100 U	1700 U
2-NITROANILINE		0.247	12.2			390 U	420 U	350 U
2-NITROPHENOL		0.265	3.4			390 U	420 U	350 U
2,4-DICHLOROPHENOL		0.343	0.1			390 U	420 U	350 U
2,4-DIMETHYLPHENOL		0.116	6.9			1900 U	2100 U	1700 U
2,4-DINITROPHENOL		0.46	41.3			390 U	420 U	350 U
2,4-DINITROTOLUENE		0.349	12.2			1900 U	2100 U	1700 U
2,4,5-TRICHLOROPHENOL		0.345	1.3			390 U	420 U	350 U
2,4,6-TRIBROMOPHENOL		0.392	3.3			390 U	420 U	350 U
2,4,6-TRICHLOROPHENOL		0.376	10.1			1900 U	2100 U	1700 U
2,6-DINITROTOLUENE		0.451	23.2			1900 U	2100 U	1700 U
3-NITROANILINE		0.37	0.8			780 U	830 U	690 U
3,3'-DICHLOROBENZIDINE		0.335	4.1			390 U	420 U	350 U
4-BROMOPHENYL-PHENYLETHER		0.395	24.5			390 U	420 U	350 U
4-CHLORO-3-METHYLPHENOL		0.52	5.7			390 U	420 U	350 U
4-CHLOROANILINE		0.541	3.6			390 U	420 U	350 U
4-CHLOROPHENYL-PHENYLETHER		1.434	5.5			390 U	420 U	350 U
4-METHYLPHENOL		0.352	36.6			1900 U	2100 U	1700 U
4-NITROANILINE		0.196	4.2			1900 U	2100 U	1700 U
4-NITROPHENOL		0.112	7.2			1900 U	2100 U	1700 U
SURR 1(NBZ) %RECOVERY						35	50	54
SURR 2(FBP) %RECOVERY						32	37	57
SURR 3(TPH) %RECOVERY						34	36	66
SURR 4(PHL) %RECOVERY						27	43	47
SURR 5(2FP) %RECOVERY						38	57	63

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0111885	QA CONTINUING CALibration LL0111887	QA CONTINUING CAL XD LL0111887	QA ISTD RET SHIFT LL0111888	TIM	N OF 4TH ST ARROYO LL011021B	N OF 4TH ST ARROYO LL011032B	SANDIA CROSS INACTIVE SIT SN010010B
	%	RRF	%	AREA		SOIL UG/KG 1	SOIL UG/KG 1	SOIL UG/KG 4
SURR 6(TBP) %RECOVERY						17 *	33	54
M/E 51	45							
M/E 68-1	0.4							
M/E 68-2	0.5							
M/E 69	77							
M/E 70-1	0							
M/E 70-2	0							
M/E 127	55							
M/E 197	0							
M/E 198	100							
M/E 199	6.4							
M/E 275	29							
M/E 365	3.4							
M/E 441	11							
M/E 442	75							
M/E 443-1	13							
M/E 443-2	18							
INTERNAL STD AREA(ANT)				64900		61300		73100
INTERNAL STD AREA(CRY)				82100		40800		61300
INTERNAL STD AREA(DCB)				52200		53800		56700
INTERNAL STD AREA(NPT)				166000		182000		189000
INTERNAL STD AREA(PHN)				91300		55300		78400
INTERNAL STD AREA(PRY)				60900		30600		43800
DILUTION FACTOR					1		1	1
PERCENT MOISTURE					14		20	4
ACTUAL(ALLOWED) EXTRACT TIME					10(14 D)		10(14 D)	10(14 D)

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	SANDIA CROSS INACTIVE SIT SN010021B SOIL UG/KG 4	SANDIA CROSS INACTIVE SIT SN010032B SOIL UG/KG 4	SANDIA CROSS INACTIVE SIT SN010043B SOIL UG/KG 4	SANDIA CROSS INACTIVE SIT SN010054B SOIL UG/KG 4	EXP BURN PIT INACTIVE SIT SN008016B SOIL UG/KG 4	EXP BURN PIT INACTIVE SIT SN008027B SOIL UG/KG 4	EXP BURN PIT INACTIVE SIT SN008038B SOIL UG/KG 4
ACENAPHTHENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
ACENAPHTHYLENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
ANTHRACENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
BENZO(A)ANTHRACENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
BENZO(A)PYRENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
BENZO(B)FLUORANTHENE	340 U	340 U	340 U	340 U	43 J	380 U	390 U
BENZO(G,H,I)PERYLENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
BENZO(K)FLUORANTHENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
BENZOIC ACID	1700 U	1700 U	1700 U	1700 U	1900 U	1900 U	1900 U
BENZYL ALCOHOL	340 U	340 U	340 U	340 U	380 U	380 U	390 U
BIS(2-CHLOROETHOXY)METHANE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
BIS(2-CHLOROISOPROPYL)ETHER	340 U	340 U	340 U	340 U	380 U	380 U	390 U
BIS(2-CHLOROETHYL)ETHER	340 U	340 U	340 U	340 U	380 U	380 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	500	710	17000 E	340 J	18000 E	590	560
BUTYL BENZYL PHTHALATE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
CHRYSENE	340 U	340 U	340 U	340 U	62 J	380 U	390 U
DI-N-BUTYL PHTHALATE	340 U	340 U	340 U	340 U	40 J	380 U	390 U
DI-N-OCTYL PHTHALATE	340 U	160 J	42 J	7 J	20 J	380 U	390 U
DIBENZ(A,H)ANTHRACENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
DIBENZOFURAN	340 U	340 U	340 U	340 U	380 U	380 U	390 U
DIETHYL PHTHALATE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
DIMETHYL PHTHALATE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
FLUORANTHENE	340 U	22 J	340 U	340 U	52 J	380 U	390 U
FLUORENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
HEXA CHLOROBENZENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
HEXA CHLOROBUTADIENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
HEXA CHLOROCYCLOPENTADIENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
HEXA CHLOROETHANE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
INDENO(1,2,3-CD)PYRENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
ISOPHORONE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
N-NITROSO-DI-N-PROPYLAMINE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
N-NITROSODIPHENYLAMINE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
NAPHTHALENE	340 U	340 U	340 U	340 U	260 J	380 U	390 U
NITROBENZENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
NITROBENZENE-D5	340 U	340 U	340 U	340 U	380 U	380 U	390 U
PENTACHLOROPHENOL	1700 U	1700 U	1700 U	1700 U	1900 U	1900 U	1900 U
PHENANTHRENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
PHENOL	340 U	340 U	340 U	340 U	380 U	380 U	390 U
PHENOL-D5							

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	SANDIA CROSS INACTIVE SIT SN010021B SOIL UG/KG 4	SANDIA CROSS INACTIVE SIT SN010032B SOIL UG/KG 4	SANDIA CROSS INACTIVE SIT SN010043B SOIL UG/KG 4	SANDIA CROSS INACTIVE SIT SN010054B SOIL UG/KG 4	EXP BURN PIT INACTIVE SIT SN008016B SOIL UG/KG 4	EXP BURN PIT INACTIVE SIT SN008027B SOIL UG/KG 4	EXP BURN PIT INACTIVE SIT SN008038B SOIL UG/KG 4
PYRENE	340 U	340 U	32 J	340 U	380 U	380 U	390 U
TERPHENYL-D14							
1,2-DICHLOROBENZENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
1,2,4-TRICHLOROBENZENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
1,3-DICHLOROBENZENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
1,3,5-TRIAZINE-2,4-DIAMINE,		42					670
1,4-DICHLOROBENZENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
2-CHLORONAPHTHALENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
2-CHLOROPHENOL	340 U	340 U	340 U	340 U	380 U	380 U	390 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
2-METHYLPHENOL	340 U	340 U	340 U	340 U	380 U	380 U	390 U
2-NITROANILINE	1700 U	1700 U	1700 U	1700 U	1900 U	1900 U	1900 U
2-NITROPHENOL	340 U	340 U	340 U	340 U	380 U	380 U	390 U
2,4-DICHLOROPHENOL	340 U	340 U	340 U	340 U	380 U	380 U	390 U
2,4-DIMETHYLPHENOL	340 U	340 U	340 U	340 U	380 U	380 U	390 U
2,4-DINITROPHENOL	1700 U	1700 U	1700 U	1700 U	1900 U	1900 U	1900 U
2,4-DINITROTOLUENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
2,4,5-TRICHLOROPHENOL	1700 U	1700 U	1700 U	1700 U	1900 U	1900 U	1900 U
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	340 U	340 U	340 U	340 U	380 U	380 U	390 U
2,6-DINITROTOLUENE	340 U	340 U	340 U	340 U	380 U	380 U	390 U
3-NITROANILINE	1700 U	1700 U	1700 U	1700 U	1900 U	1900 U	1900 U
3,3'-DICHLOROBENZIDINE	690 U	690 U	690 U	690 U	770 U	770 U	780 U
4-BROMOPHENYL-PHENYLETHER	340 U	340 U	340 U	340 U	380 U	380 U	390 U
4-CHLORO-3-METHYLPHENOL	340 U	340 U	340 U	340 U	380 U	380 U	390 U
4-CHLOROPHENYL-PHENYLETHER	340 U	340 U	340 U	340 U	380 U	380 U	390 U
4-METHYLPHENOL	340 U	340 U	340 U	340 U	380 U	380 U	390 U
4-NITROANILINE	1700 U	1700 U	1700 U	1700 U	1900 U	1900 U	1900 U
4-NITROPHENOL	1700 U	1700 U	1700 U	1700 U	1900 U	1900 U	1900 U
4,6-DINITRO-2-METHYLPHENOL	1700 U	1700 U	1700 U	1700 U	1900 U	1900 U	1900 U
SURR 1(NBZ) %RECOVERY	66	41	41	3 *	35	47	60
SURR 2(FBP) %RECOVERY	70	37	46	14 *	32	42	60
SURR 3(TPH) %RECOVERY	81	46	71	34	34	41	64
SURR 4(PHL) %RECOVERY	53	33	35	5 *	29	37	52
SURR 5(2FP) %RECOVERY	76	41	49	5 *	37	57	66

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	SANDIA CROSS INACTIVE SIT	SANDIA CROSS INACTIVE SIT	SANDIA CROSS INACTIVE SIT	SANDIA CROSS INACTIVE SIT	EXP BURN PIT INACTIVE SIT	EXP BURN PIT INACTIVE SIT	EXP BURN PIT INACTIVE SIT
LOCATION TYPE OF LOCATION	SN010021B	SN010032B	SN010043B	SN010054B	SN008016B	SN008027B	SN008038B
SAMPLE NUMBER							
MATRIX	SOIL						
UNITS	UG/KG						
ENV PROBLEM NO	4	4	4	4	4	4	4
SURR 6(TBP) XRECOVERY	55	28	41	28	21	33	55
M/E 51							
M/E 68-1							
M/E 68-2							
M/E 69							
M/E 70-1							
M/E 70-2							
M/E 127							
M/E 197							
M/E 198							
M/E 199							
M/E 275							
M/E 365							
M/E 441							
M/E 442							
M/E 443-1							
M/E 443-2							
INTERNAL STD AREA(ANT)	58100	61000	77600	86100	86500	84900	71100
INTERNAL STD AREA(CRY)	36900	24200	26700	79200	60400	64100	56000
INTERNAL STD AREA(DCB)	51900	53300	62600	61400	68400	66400	58600
INTERNAL STD AREA(NPT)	171000	178000	219000	222000	242000	223000	204000
INTERNAL STD AREA(PHN)	63000	68600	87000	118000	96100	99400	95600
INTERNAL STD AREA(PRY)	23700	12300	18700	54000	39700	44800	36300
DILUTION FACTOR	1	1	1	1	1	1	1
PERCENT MOISTURE	3	3	3	3	13	13	14
ACTUAL(ALLOWED) EXTRACT TIME	10(14 D)	10(14 D)	10(14 D)	10(14 D)	11(14 D)	11(14 D)	11(14 D)

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TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	ISTD	RET	TIM	OLD PAINT ST	OLD PAINT ST	OLD PAINT ST	OLD PAINT ST
	TUNED CALIBRATION LL0115885	CONTINUING CALIBRATION LL0115887	CONTINUING CAL X'D LL0115887	AREA	SHIFT LL0115888	INACTIVE SIT SN011011B	INACTIVE SIT SOIL UG/KG 4	INACTIVE SIT SN011022B	INACTIVE SIT SOIL UG/KG 4	INACTIVE SIT SN011033B	SOIL UG/KG 4
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	X	RRF	%								
ACENAPHTHENE		1.42	8.1				390 U	370 U	370 U	370 U	
ACENAPHTHYLENE		2.179	4.5				390 U	370 U	370 U	370 U	
ANTHRACENE		1.066	0.8				390 U	370 U	370 U	370 U	
BENZO(A)ANTHRACENE		1.143	5				390 U	370 U	370 U	370 U	
BENZO(A)PYRENE		1.337	10.3				390 U	370 U	370 U	370 U	
BENZO(B)FLUORANTHENE		1.353	0.4				390 U	370 U	370 U	370 U	
BENZO(G,H,I)PERYLENE		0.888	18.9				390 U	370 U	370 U	370 U	
BENZO(K)FLUORANTHENE		1.259	13.1				2000 U	1900 U	1900 U	1900 U	
BENZOIC ACID		0.168	9.4				390 U	370 U	370 U	370 U	
BENZYL ALCOHOL		0.658	28				390 U	370 U	370 U	370 U	
BIS(2-CHLOROETHOXY)METHANE		0.691	4.8				390 U	370 U	370 U	370 U	
BIS(2-CHLOROISOPROPYL)ETHER		1.661	8.4				390 U	370 U	370 U	370 U	
BIS(2-CHOROETHYL)ETHER		2.136	5.1				390 U	31000 E	59000 E	59000 E	
BIS(2-ETHYLHEXYL)PHTHALATE		1.33	5				390 U	370 U	370 U	370 U	
BUTYLBENZYLPHthalate		0.875	2.7				390 U	370 U	370 U	370 U	
CHRYSENE		1.042	0.6				390 U	370 U	370 U	370 U	
DI-N-BUTYLPHthalate		1.889	6.2				390 U	370 U	370 U	370 U	
DI-N-OCTYLPHthalate		2.484	21.9				390 U	370 U	370 U	370 U	
DIBENZ(A,H)ANTHRACENE		0.912	17.1				390 U	370 U	370 U	370 U	
DIBENZOFURAN		1.667	7.1				390 U	370 U	370 U	370 U	
DIETHYLPHthalate		1.676	8.4				390 U	370 U	370 U	370 U	
DIMETHYLPHthalate		1.532	0.3				390 U	370 U	370 U	370 U	
FLUORANTHENE		1.07	21.5				390 U	370 U	370 U	370 U	
FLUORENE		1.302	10.6				390 U	370 U	370 U	370 U	
HEXACHLOROBENZENE		0.475	3.6				390 U	370 U	370 U	370 U	
HEXACHLOROBUTADIENE		0.222	22.1				390 U	370 U	370 U	370 U	
HEXACHLOROCYCLOPENTADIENE		0.401	36.2				390 U	370 U	370 U	370 U	
HEXACHLOROETHANE		0.845	17.1				390 U	370 U	370 U	370 U	
INDENO(1,2,3-CD)PYRENE		1.206	9				390 U	370 U	370 U	370 U	
ISOPHORONE		0.961	5				390 U	370 U	370 U	370 U	
N-NITROSO-DI-N-PROPYLAMINE		1.224	4.4				390 U	370 U	370 U	370 U	
N-NITROSODIPHENYLAMINE		0.539	7.8				390 U	370 U	370 U	370 U	
NAPHTHALENE		1.12	2.2				390 U	370 U	370 U	370 U	
NITROBENZENE		0.654	2.5				390 U	370 U	370 U	370 U	
NITROBENZENE-D5		0.474	0.4				2000 U	1900 U	1900 U	1900 U	
PENTACHLOROPHENOL		0.192	17.8				390 U	370 U	370 U	370 U	
PHENANTHRENE		1.06	1				390 U	370 U	370 U	370 U	
PHENOL		2.018	4				390 U	370 U	370 U	370 U	
PHENOL-D5		1.809	4								

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL0115885	QA CONTINUING CALIBRATION LL0115887	QA CONTINUING CAL %D LL0115887	QA ISTD SHIFT LL0115888	RET	TIM	OLD PAINT ST SN011011B	ST SOIL UG/KG 4	OLD PAINT ST SN011022B	ST SOIL UG/KG 4	OLD PAINT ST SN011035B	ST SOIL UG/KG 4
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	X	RRF	X	AREA								
PYRENE		1.43	6.4				390 U		370 U		370 U	
TERPHENYL-D14		1.242	2									
1,2-DICHLOROBENZENE		1.526	2.8				390 U		370 U		370 U	
1,2,4-TRICHLOROBENZENE		0.298	3.8				390 U		370 U		370 U	
1,3-DICHLOROBENZENE		1.497	2.1				390 U		370 U		370 U	
1,3,5-TRIAZINE-2,4-DIAMINE,												
1,4-DICHLOROBENZENE		1.519	0.7				390 U		370 U		370 U	
2-CHLORONAPHTHALENE		1.273	1.5				390 U		370 U		370 U	
2-CHLOROPHENOL		1.515	2.1				390 U		370 U		370 U	
2-FLUOROBIPHENYL		1.586	12.9				390 U		370 U		370 U	
2-FLUOROPHENOL		1.238	12.9									
2-METHYLNAPHTHALENE		0.822	5.7				390 U		370 U		370 U	
2-METHYLPHENOL		1.309	4.2				390 U		370 U		370 U	
2-NITROANILINE		0.526	5.1				2000 U		1900 U		1900 U	
2-NITROPHENOL		0.198	10				390 U		370 U		370 U	
2,4-DICHLOROPHENOL		0.235	8.5				390 U		370 U		370 U	
2,4-DIMETHYLPHENOL		0.279	18.5				390 U		370 U		370 U	
2,4-DINITROPHENOL		0.079	27.3				2000 U		1900 U		1900 U	
2,4-DINITROTOLUENE		0.36	10.3				390 U		370 U		370 U	
2,4,5-TRICHLOROPHENOL		0.307	22.8				2000 U		1900 U		1900 U	
2,4,6-TRIBROMOPHENOL		0.312	10.6									
2,4,6-TRICHLOROPHENOL		0.383	0.9				390 U		370 U		370 U	
2,6-DINITROTOLUENE		0.31	9.4				390 U		370 U		370 U	
3-NITROANILINE		0.311	15.2				2000 U		1900 U		1900 U	
3,3'-DICHLOROBENZIDINE		0.18	51.7				780 U		750 U		750 U	
4-BROMOPHENYL-PHENYLETHER		0.375	7.3				390 U		370 U		370 U	
4-CHLORO-3-METHYLPHENOL		0.348	9.7				390 U		370 U		370 U	
4-CHLOROANILINE		0.434	11.9				390 U		370 U		370 U	
4-CHLOROPHENYL-PHENYLETHER		0.622	19.1				390 U		370 U		370 U	
4-METHYLPHENOL		1.309	3.8				390 U		370 U		370 U	
4-NITROANILINE		0.213	17.4				2000 U		1900 U		1900 U	
4-NITROPHENOL		0.194	6.9				2000 U		1900 U		1900 U	
4,6-DINITRO-2-METHYLPHENOL		0.117	3				2000 U		1900 U		1900 U	
SURR 1(NBZ) %RECOVERY							51		34		37	
SURR 2(FBP) %RECOVERY							46		30		31	
SURR 3(TPH) %RECOVERY							49		37		34	
SURR 4(PHL) %RECOVERY							38		25		27	
SURR 5(2FP) %RECOVERY							53		37		40	

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	ISTD	RET	TIM	OLD PAINT ST	OLD PAINT ST	OLD PAINT ST
LOCATION	TUNED	CONTINUING	CONTINUING	SHIFT	INACTIVE SIT	INACTIVE SIT	INACTIVE SIT	SOIL	SOIL	SOIL
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	LL0115888	SN011011B	SN011022B	SN011033B	UG/KG	UG/KG	UG/KG
SAMPLE NUMBER	LL0115885	LL0115887	LL0115887	LL0115888	SN011011B	SN011022B	SN011033B	4	4	4
MATRIX	%	RRF	%	AREA	SOIL	SOIL	SOIL	UG/KG	UG/KG	UG/KG
UNITS										
ENV PROBLEM NO										
SURR 6(TBP) %RECOVERY								40	28	31
M/E 51	39									
M/E 68-1	0.6									
M/E 68-2	1									
M/E 69	63									
M/E 70-1	0.4									
M/E 70-2	0.7									
M/E 127	53									
M/E 197	0									
M/E 198	100									
M/E 199	5.7									
M/E 275	27									
M/E 365	3.8									
M/E 441	11									
M/E 442	68									
M/E 443-1	13									
M/E 443-2	20									
INTERNAL STD AREA(ANT)					68600	43600	58700	53900		
INTERNAL STD AREA(CRY)					72800	28100	33700	39600		
INTERNAL STD AREA(DCB)					50000	41600	46900	44600		
INTERNAL STD AREA(NPT)					166000	119000	150000	129000		
INTERNAL STD AREA(PHN)					95500	43000	64400	57900		
INTERNAL STD AREA(PRY)					46500	19400	20800	22400		
DILUTION FACTOR						1	1	1		
PERCENT MOISTURE						15	11	11		
ACTUAL(ALLOWED) EXTRACT TIME						11(14 D)	11(14 D)	11(14 D)		

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA							QA
LOCATION	NAVY LANDFIL INACTIVE SIT SN007015B	NAVY LANDFIL INACTIVE SIT SN007026B	NAVY LANDFIL INACTIVE SIT SN007037B	NAVY LANDFIL INACTIVE SIT SN007048B	NAVY LANDFIL INACTIVE SIT SN007059B	NAVY LANDFIL INACTIVE SIT SN007060B	TUNED CALIBRATION LL0118885
TYPE OF LOCATION	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	SOIL UG/KG	%
SAMPLE NUMBER	4	4	4	4	4	4	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ENY PROBLEM NO							
ACENAPHTHENE	400 U	390 U	400 U	350 U	340 U	340 U	
ACENAPHTHYLENE	400 U	390 U	400 U	350 U	340 U	340 U	
ANTHRACENE	400 U	390 U	400 U	350 U	340 U	340 U	
BENZO(A)ANTHRACENE	400 U	390 U	400 U	350 U	340 U	340 U	
BENZO(A)PYRENE	400 U	390 U	400 U	350 U	340 U	340 U	
BENZO(B)FLUORANTHENE	400 U	390 U	400 U	350 U	340 U	340 U	
BENZO(G,H,I)PERYLENE	400 U	390 U	400 U	350 U	340 U	340 U	
BENZO(K)FLUORANTHENE	400 U	390 U	400 U	350 U	340 U	340 U	
BENZOIC ACID	2000 U	1900 U	2000 U	1800 U	1700 U	1700 U	
BENZYL ALCOHOL	400 U	390 U	400 U	350 U	340 U	340 U	
BIS(2-CHLOROETHoxy)METHANE	400 U	390 U	400 U	350 U	340 U	340 U	
BIS(2-CHLORoisOPROPYL)ETHER	400 U	390 U	400 U	350 U	340 U	340 U	
BIS(2-CHORoETHYL)ETHER	400 U	390 U	400 U	350 U	340 U	340 U	
BIS(2-ETHYLHEXYL)PHTHALATE	44000 E	22000 E	41000 E	410 U	340 U	410 U	
BUTYL BENZYL PHTHALATE	400 U	390 U	400 U	350 U	340 U	340 U	
CHRYSENE	400 U	390 U	400 U	350 U	340 U	340 U	
DI-N-BUTYL PHTHALATE	400 U	390 U	400 U	350 U	340 U	340 U	
DI-N-OCTYL PHTHALATE	12 U	390 U	400 U	350 U	340 U	340 U	
DIBENZ(A, H)ANTHRACENE	400 U	390 U	400 U	350 U	340 U	340 U	
DIBENZOFURAN	400 U	390 U	400 U	350 U	340 U	340 U	
DIETHYL PHTHALATE	400 U	390 U	400 U	350 U	340 U	340 U	
DIMETHYL PHTHALATE	400 U	390 U	400 U	350 U	340 U	340 U	
FLUORANTHENE	400 U	390 U	400 U	350 U	340 U	340 U	
FLUORENE	400 U	390 U	400 U	350 U	340 U	340 U	
HEXACHLOROBENZENE	400 U	390 U	400 U	350 U	340 U	340 U	
HEXACHLOROBUTADIENE	400 U	390 U	400 U	350 U	340 U	340 U	
HEXACHLOROCYCLOPENTADIENE	400 U	390 U	400 U	350 U	340 U	340 U	
HEXACHLOROETHANE	400 U	390 U	400 U	350 U	340 U	340 U	
INDENO(1,2,3-CD)PYRENE	400 U	390 U	400 U	350 U	340 U	340 U	
ISOPHORONE	400 U	390 U	400 U	350 U	340 U	340 U	
N-NITROSO-DI-N-PROPYLAMINE	400 U	390 U	400 U	350 U	340 U	340 U	
N-NITROSODIPHENYLAMINE	400 U	390 U	400 U	350 U	340 U	340 U	
NAPHTHALENE	400 U	390 U	400 U	350 U	340 U	340 U	
NITROBENZENE	400 U	390 U	400 U	350 U	340 U	340 U	
NITROBENZENE-D5							
PENTACHLOROPHENOL	2000 U	1900 U	2000 U	1800 U	1700 U	1700 U	
PHENANTHRENE	400 U	390 U	400 U	350 U	340 U	340 U	
PHENOL	400 U	390 U	400 U	350 U	340 U	340 U	
PHENOL-D5							

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA

QA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	NAVY LANDFIL INACTIVE SIT SN007015B SOIL UG/KG 4	NAVY LANDFIL INACTIVE SIT SN007026B SOIL UG/KG 4	NAVY LANDFIL INACTIVE SIT SN007037B SOIL UG/KG 4	NAVY LANDFIL INACTIVE SIT SN007048B SOIL UG/KG 4	NAVY LANDFIL INACTIVE SIT SN007059B SOIL UG/KG 4	NAVY LANDFIL INACTIVE SIT SN007060B SOIL UG/KG 4	TUNED CALIBRATION LL011885 %
PYRENE	400 U	390 U	400 U	350 U	340 U	340 U	
TERPHENYL-D14							
1,2-DICHLOROBENZENE	400 U	390 U	400 U	350 U	340 U	340 U	
1,2,4-TRICHLOROBENZENE	400 U	390 U	400 U	350 U	340 U	340 U	
1,3-DICHLOROBENZENE	400 U	390 U	400 U	350 U	340 U	340 U	
1,3,5-TRIAZINE-2,4-DIAMINE,				1300	360	1200	
1,4-DICHLOROBENZENE	400 U	390 U	400 U	350 U	340 U	340 U	
2-CHLORONAPHTHALENE	400 U	390 U	400 U	350 U	340 U	340 U	
2-CHLOROPHENOL	400 U	390 U	400 U	350 U	340 U	340 U	
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	400 U	390 U	400 U	350 U	340 U	340 U	
2-METHYLPHENOL	400 U	390 U	400 U	350 U	340 U	340 U	
2-NITROANILINE	2000 U	1900 U	2000 U	1800 U	1700 U	1700 U	
2-NITROPHENOL	400 U	390 U	400 U	350 U	340 U	340 U	
2,4-DICHLOROPHENOL	400 U	390 U	400 U	350 U	340 U	340 U	
2,4-DIMETHYLPHENOL	400 U	390 U	400 U	350 U	340 U	340 U	
2,4-DINITROPHENOL	2000 U	1900 U	2000 U	1800 U	1700 U	1700 U	
2,4-DINITROTOLUENE	400 U	390 U	400 U	350 U	340 U	340 U	
2,4,5-TRICHLOROPHENOL	2000 U	1900 U	2000 U	1800 U	1700 U	1700 U	
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	400 U	390 U	400 U	350 U	340 U	340 U	
2,6-DINITROTOLUENE	400 U	390 U	400 U	350 U	340 U	340 U	
3-NITROANILINE	2000 U	1900 U	2000 U	1800 U	1700 U	1700 U	
3,3'-DICHLOROBENZIDINE	790 U	780 U	800 U	710 U	690 U	690 U	
4-BROMOPHENYL-PHENYLETHER	400 U	390 U	400 U	350 U	340 U	340 U	
4-CHLORO-3-METHYLPHENOL	400 U	390 U	400 U	350 U	340 U	340 U	
4-CHLOROANILINE	400 U	390 U	400 U	350 U	340 U	340 U	
4-CHLOROPHENYL-PHENYLETHER	400 U	390 U	400 U	350 U	340 U	340 U	
4-METHYLPHENOL	400 U	390 U	400 U	350 U	340 U	340 U	
4-NITROANILINE	2000 U	1900 U	2000 U	1800 U	1700 U	1700 U	
4-NITROPHENOL	2000 U	1900 U	2000 U	1800 U	1700 U	1700 U	
4,6-DINITRO-2-METHYLPHENOL	2000 U	1900 U	2000 U	1800 U	1700 U	1700 U	
SURR 1(NBZ) %RECOVERY	33	41	33	16 *	0 *	30	
SURR 2(FBP) %RECOVERY	35	39	30	26 *	0 *	32	
SURR 3(TPH) %RECOVERY	36	41	35	32	0 *	29	
SURR 4(PHL) %RECOVERY	30	33	27	15 *	0 *	21 *	
SURR 5(2FP) %RECOVERY	46	40	34	18 *	0 *	34	

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	QA
LOCATION	NAVY LANDFIL
TYPE OF LOCATION	INACTIVE SIT
SAMPLE NUMBER	SN007015B
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	4
SURR 6(TBP) %RECOVERY	40      36      29      28      0 X      31
M/E 51	38
M/E 68-1	0.4
M/E 68-2	0.6
M/E 69	65
M/E 70-1	0
M/E 70-2	0
M/E 127	57
M/E 197	0
M/E 198	100
M/E 199	6.6
M/E 275	29
M/E 365	3.2
M/E 441	11
M/E 442	71
M/E 443-1	13
M/E 443-2	18
INTERNAL STD AREA(ANT)	58000
INTERNAL STD AREA(CRY)	48400
INTERNAL STD AREA(DCB)	46100
INTERNAL STD AREA(NPT)	143000
INTERNAL STD AREA(PHN)	69900
INTERNAL STD AREA(PRY)	35600
DILUTION FACTOR	1
PERCENT MOISTURE	16      14      17      6      3      3
ACTUAL(ALLOWED) EXTRACT TIME	12(14 D)      12(14 D)      12(14 D)      12(14 D)      12(14 D)      12(14 D)

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	QA CONTINUING CALIBRATION LL0118887	QA CONTINUING CAL XD LL0118887	QA ISTD RET TIM SHIFT LL0118888	OLD FIRE TRA INACTIVE SIT SN009028B	OLD FIRE TRA INACTIVE SIT SN009039B	OLD FIRE TRA INACTIVE SIT SN009040B	MATRIX SPIKE SN009040B
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	RRF	%	AREA	SOIL UG/KG 4	SOIL UG/KG 4	SOIL UG/KG 4	SOIL UG/KG 4
ACENAPHTHENE	1.432	9.1		370 U	370 U	390 U	1500
ACENAPHTHYLENE	2.15	3.1		370 U	370 U	390 U	390 U
ANTHRACENE	1.12	5.8		370 U	370 U	390 U	390 U
BENZO(A)ANTHRACENE	1.111	2.1		370 U	370 U	390 U	390 U
BENZO(A)PYRENE	1.325	9.3		370 U	370 U	390 U	390 U
BENZO(B)FLUORANTHENE	1.423	4.6		370 U	370 U	390 U	390 U
BENZO(G,H,I)PERYLENE	0.836	23.6		370 U	370 U	390 U	390 U
BENZO(K)FLUORANTHENE	1.329	19.3		370 U	370 U	390 U	390 U
BENZOIC ACID	0.16	13.6		1800 U	1800 U	1900 U	1900 U
BENZYL ALCOHOL	0.567	38		370 U	370 U	390 U	390 U
BIS(2-CHLOROETHOXY)METHANE	0.676	6.8		370 U	370 U	390 U	390 U
BIS(2-CHLOROISOPROPYL)ETHER	1.471	18.9		370 U	370 U	390 U	390 U
BIS(2-CHOROETHYL)ETHER	2.09	2.8		370 U	370 U	390 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	1.444	14		990	580	390 U	960 U
BUTYL BENZYL PHTHALATE	0.946	5.3		370 U	370 U	390 U	390 U
CHRYSENE	1.093	4.3		93 J	370 U	390 U	390 U
DI-N-BUTYL PHTHALATE	1.961	10.2		370 U	370 U	390 U	390 U
DI-N-OCTYL PHTHALATE	2.523	23.9		120 J	14 J	390 U	13 J
DIBENZ(A,H)ANTHRACENE	0.826	25		370 U	370 U	390 U	390 U
DIBENZOFURAN	1.67	7.2		370 U	370 U	390 U	390 U
DIETHYL PHTHALATE	1.677	8.4		370 U	370 U	390 U	390 U
DIMETHYL PHTHALATE	1.53	0.4		370 U	370 U	390 U	390 U
FLUORANTHENE	1.08	22.6		370 U	370 U	390 U	390 U
FLUORENE	1.231	4.6		370 U	370 U	390 U	390 U
HEXA CHLOROBENZENE	0.501	1.7		370 U	370 U	390 U	390 U
HEXA CHLOROBUTADIENE	0.218	20		370 U	370 U	390 U	390 U
HEXA CHLOROCYCLOPENTADIENE	0.339	15.2		370 U	370 U	390 U	390 U
HEXA CHLOROETHANE	0.802	11.1		370 U	370 U	390 U	390 U
INDENO(1,2,3-CD)PYRENE	1.153	13		370 U	370 U	390 U	390 U
ISOPHORONE	1.043	3.1		370 U	370 U	390 U	390 U
N-NITROSO-DI-N-PROPYLAMINE	1.223	4.5		370 U	370 U	390 U	1400
N-NITROSODIPHENYLAMINE	0.568	2.8		370 U	370 U	390 U	390 U
NAPHTHALENE	1.16	5.9		370 U	370 U	390 U	390 U
NITROBENZENE	0.708	11		370 U	370 U	390 U	390 U
NITROBENZENE-D5	0.472	0.9					
PENTACHLOROPHENOL	0.175	7.2		1800 U	1800 U	1900 U	3900
PHENANTHRENE	1.11	3.7		370 U	370 U	390 U	390 U
PHENOL	2.106	0.2		370 U	370 U	390 U	2700
PHENOL-D5	1.526	19					

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TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	QA CONTINUING CALIBRATION LL0118887	QA CONTINUING CAL XD LL0118887	QA ISTD RET TIM SHIFT LL0118888	OLD FIRE TRA INACTIVE SIT SN009028B SOIL UG/KG 4	OLD FIRE TRA INACTIVE SIT SN009039B SOIL UG/KG 4	OLD FIRE TRA INACTIVE SIT SN009040B SOIL UG/KG 4	QA MATRIX SPIKE SN009040B SOIL UG/KG 4
PYRENE	1.398	4		370 U	370 U	390 U	2200
TERPHENYL-D14	1.222	0.4		370 U	370 U	390 U	390 U
1,2-DICHLOROBENZENE	1.416	4.6		370 U	370 U	390 U	1300
1,2,4-TRICHLOROBENZENE	0.282	1.7		370 U	370 U	390 U	390 U
1,3-DICHLOROBENZENE	1.5	1.9		370 U	370 U	390 U	390 U
1,3,5-TRIAZINE-2,4-DIAMINE,							
1,4-DICHLOROBENZENE	1.551	2.8		370 U	370 U	390 U	1100
2-CHLORONAPHTHALENE	1.295	3.2		370 U	370 U	390 U	390 U
2-CHLOROPHENOL	1.478	0.4		370 U	370 U	390 U	3600
2-FLUOROBIPHENYL	1.578	12.3					
2-FLUOROPHENOL	1.341	5.7					
2-METHYLNAPHTHALENE	0.785	1		370 U	370 U	390 U	390 U
2-METHYLPHENOL	1.174	14		370 U	370 U	390 U	390 U
2-NITROANILINE	0.52	6.1		1800 U	1800 U	1900 U	1900 U
2-NITROPHENOL	0.196	10.6		370 U	370 U	390 U	390 U
2,4-DICHLOROPHENOL	0.267	3.8		370 U	370 U	390 U	390 U
2,4-DIMETHYLPHENOL	0.284	17.1		370 U	370 U	390 U	390 U
2,4-DINITROPHENOL	0.058	46.1		1800 U	1800 U	1900 U	1900 U
2,4-DINITROTOLUENE	0.365	12		370 U	370 U	390 U	1700
2,4,5-TRICHLOROPHENOL	0.415	4.4		1800 U	1800 U	1900 U	1900 U
2,4,6-TRIBROMOPHENOL	0.274	21.7					
2,4,6-TRICHLOROPHENOL	0.364	4		370 U	370 U	390 U	390 U
2,6-DINITROTOLUENE	0.328	4		370 U	370 U	390 U	390 U
3-NITROANILINE	0.281	23.2		1800 U	1800 U	1900 U	1900 U
3,3'-DICHLOROBENZIDINE	0.22	41		730 U	730 U	780 U	780 U
4-BROMOPHENYL-PHENYLETHER	0.376	7.6		370 U	370 U	390 U	390 U
4-CHLORO-3-METHYLPHENOL	0.328	3.4		370 U	370 U	390 U	3600
4-CHLOROANILINE	0.411	16.5		370 U	370 U	390 U	390 U
4-CHLOROPHENYL-PHENYLETHER	0.581	11.1		370 U	370 U	390 U	390 U
4-METHYLPHENOL	1.261	7.2		370 U	370 U	390 U	390 U
4-NITROANILINE	0.177	31.5		1800 U	1800 U	1900 U	1900 U
4-NITROPHENOL	0.126	38.3		1800 U	1800 U	1900 U	4000
4,6-DINITRO-2-METHYLPHENOL	0.098	18.4		1800 U	1800 U	1900 U	1900 U
SURR 1(NBZ) %RECOVERY				45	61	59	40
SURR 2(FBP) %RECOVERY				55	40	39	36
SURR 3(TPH) %RECOVERY				37	72	66	48
SURR 4(PHL) %RECOVERY				46	51	45	39
SURR 5(2FP) %RECOVERY				62	63	72	49

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA
LOCATION	CONTINUING CALIBRATION	CONTINUING CAL X'D	ISTD SHIFT	OLD FIRE SIT	OLD FIRE SIT
TYPE OF LOCATION	LL0118887	LL0118887	LL0118888	SN009028B	SN009039B
SAMPLE NUMBER				SOIL UG/KG	SOIL UG/KG
MATRIX				SOIL UG/KG	SOIL UG/KG
UNITS	RRF	X	AREA	4	4
ENV PROBLEM NO				41	57
SURR 6(TBP) %RECOVERY				43	47
M/E 51					
M/E 68-1					
M/E 68-2					
M/E 69					
M/E 70-1					
M/E 70-2					
M/E 127					
M/E 197					
M/E 198					
M/E 199					
M/E 275					
M/E 365					
M/E 441					
M/E 442					
M/E 443-1					
M/E 443-2					
INTERNAL STD AREA(ANT)		61300	25600	52900	57100
INTERNAL STD AREA(CRY)		59800	28600	34300	47000
INTERNAL STD AREA(DCB)		48700	37900	42000	45500
INTERNAL STD AREA(NPT)		154000	114000	127000	138000
INTERNAL STD AREA(PHN)		74800	21500	55000	70000
INTERNAL STD AREA(PRY)		38700	20300	25500	32100
DILUTION FACTOR			1	1	1
PERCENT MOISTURE			9	9	14
ACTUAL(ALLOWED) EXTRACT TIME			12(14 D)	12(14 D)	13(14 D)
					13(14 D)

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	QA MS X RECOVERY SN009040B	QA RPD SN009040B	QA MATRIX SPIKE DUPLICATE SN009040B	QA MSD X RECOVERY SN009040B	OLD FIRE TRA INACTIVE SIT SN009017B
LOCATION	SOIL %	SOIL %	SOIL UG/KG	SOIL %	SOIL UG/KG
TYPE OF LOCATION					
SAMPLE NUMBER					
MATRIX					
UNITS					
ENV PROBLEM NO					
ACENAPHTHENE		39	2200	57	370 U
ACENAPHTHYLENE			390 U		370 U
ANTHRACENE			390 U		370 U
BENZO(A)ANTHRACENE			390 U		370 U
BENZO(A)PYRENE			390 U		370 U
BENZO(B)FLUORANTHENE			390 U		370 U
BENZO(G,H,I)PERYLENE			390 U		370 U
BENZO(K)FLUORANTHENE			390 U		370 U
BENZOIC ACID			1900 U		1900 U
BENZYL ALCOHOL			390 U		370 U
BIS(2-CHLOROETHOXY)METHANE			390 U		370 U
BIS(2-CHLOROISOPROPYL)ETHER			390 U		370 U
BIS(2-CHORGETHYL)ETHER			390 U		370 U
BIS(2-ETHYLHEXYL)PHTHALATE			980 U		310 U
BUTYL BENZYL PHTHALATE			390 U		370 U
CHRYSENE			390 U		370 U
DI-N-BUTYL PHTHALATE			390 U		370 U
DI-N-OCTYL PHTHALATE			390 U		370 U
DIBENZ(A,H)ANTHRACENE			390 U		370 U
DI BENZOFURAN			390 U		370 U
DIETHYL PHTHALATE			390 U		370 U
DIMETHYL PHTHALATE			390 U		370 U
FLUORANTHENE			390 U		370 U
FLUORENE			390 U		370 U
HEXACHLOROBENZENE			390 U		370 U
HEXACHLOROBUTADIENE			390 U		370 U
HEXACHLOROCYCLOPENTADIENE			390 U		370 U
HEXACHLOROETHANE			390 U		370 U
INDENO(1,2,3-CD)PYRENE			390 U		370 U
ISOPHORONE			390 U		370 U
N-NITROSO-DI-N-PROPYLAMINE	34 X	18	1600	41	370 U
N-NITROSODIPHENYLAMINE			390 U		370 U
NAPHTHALENE			390 U		370 U
NITROBENZENE			390 U		370 U
NITROBENZENE-D5					
PENTACHLOROPHENOL	50	33	5500	70	1900 U
PHENANTHRENE			390 U		370 U
PHENOL	35	2	2800	36	370 U
PHENOL-D5					

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	QA MS % RECOVERY SN009040B SOIL %	QA RPD SN009040B SOIL %	QA MATRIX SPIKE DUPLICATE SN009040B SOIL UG/KG	QA MSD % RECOVERY SN009040B SOIL %	OLD FIRE TRA INACTIVE SIT SN009017B SOIL UG/KG
PYRENE	55	46 *	3400	88	370 U
TERPHENYL-D14					
1,2-DICHLOROBENZENE			390 U		370 U
1,2,4-TRICHLOROBENZENE	33 *	54 *	2300	58	370 U
1,3-DICHLOROBENZENE			390 U		370 U
1,3,5-TRIAZINE-2,4-DIAMINE,					
1,4-DICHLOROBENZENE	28	50 *	1800	47	370 U
2-CHLORONAPHTHALENE			390 U		370 U
2-CHLOROPHENOL	46	35	5100	66	370 U
2-FLUOROBIPHENYL					
2-FLUOROPHENOL					
2-METHYLNAPHTHALENE			390 U		370 U
2-METHYLPHENOL			390 U		370 U
2-NITROANILINE			1900 U		1900 U
2-NITROPHENOL			390 U		370 U
2,4-DICHLOROPHENOL			390 U		370 U
2,4-DIMETHYLPHENOL			390 U		370 U
2,4-DINITROPHENOL			1900 U		1900 U
2,4-DINITROTOLUENE	43	36	2400 U	62	370 U
2,4,5-TRICHLOROPHENOL			1900 U		1900 U
2,4,6-TRIBROMOPHENOL					
2,4,6-TRICHLOROPHENOL			390 U		370 U
2,6-DINITROTOLUENE			390 U		370 U
3-NITROANILINE			1900 U		1900 U
3,3'-DICHLOROBENZIDINE			780 U		750 U
4-BROMOPHENYL-PHENYLETHER			390 U		370 U
4-CHLORO-3-METHYLPHENOL	46	19	4400	56	370 U
4-CHLOROANILINE			390 U		370 U
4-CHLOROPHENYL-PHENYLETHER			390 U		370 U
4-METHYLPHENOL			390 U		370 U
4-NITROANILINE			1900 U		1900 U
4-NITROPHENOL	51	27	5200	67	1900 U
4,6-DINITRO-2-METHYLPHENOL			1900 U		1900 U
SURR 1(NBZ) %RECOVERY			64		45
SURR 2(FBP) %RECOVERY			54		42
SURR 3(TPH) %RECOVERY			80		63
SURR 4(PHL) %RECOVERY			52		37
SURR 5(2FP) %RECOVERY			68		48

TABLE D.6.15 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL001018B

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	OLD FIRE TRA INACTIVE SIT
LOCATION	MS X	RPD	MATRIX SPIKE	MSD X	SN009017B
TYPE OF LOCATION	RECOVERY	SN009040B	DUPPLICATE	RECOVERY	SOIL
SAMPLE NUMBER	SN009040B	SN009040B	SN009040B	SN009040B	UG/KG
MATRIX	SOIL	SOIL	SOIL	SOIL	UG/KG
UNITS	X	X	4	X	4
ENV PROBLEM NO	4	4	4	4	4
SURR 6(TBP) %RECOVERY			78		51
M/E 51					
M/E 68-1					
M/E 68-2					
M/E 69					
M/E 70-1					
M/E 70-2					
M/E 127					
M/E 197					
M/E 198					
M/E 199					
M/E 275					
M/E 365					
M/E 441					
M/E 442					
M/E 443-1					
M/E 443-2					
INTERNAL STD AREA(ANT)			51100		65000
INTERNAL STD AREA(CRY)			37100		40200
INTERNAL STD AREA(DCB)			42400		50800
INTERNAL STD AREA(NPT)			123800		160000
INTERNAL STD AREA(PHN)			60400		76100
INTERNAL STD AREA(PRY)			26400		26200

DILUTION FACTOR  
PERCENT MOISTURE  
ACTUAL(ALLOWED) EXTRACT TIME

1  
14  
13(14 D)  
1  
11  
12(14 D)

TABLE D.6.16 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011188

DRAFT DO NOT CITE

AREA	QA RRF	QA % RSD	QA LL0106886	QA INITIAL CAL RRF	QA INITIAL CAL % RSD	QA TUNED CALIBRATION LL0111885	QA CONTINUING CALIBRATION RRF	QA CONTINUING CAL %D LL0111887	QA ISTD SHIFT LL0111888	QA RET TIM	GSA WELLS	AREA LL036133B
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	RRF	%	%	RRF	%	RRF	%	AREA	9	SOIL UG/KG		
ACENAPHTHENE	1.375	2.4				1.301	5.4			380	U	
ACENAPHTHYLENE	1.905	2.9				1.865	2.1			380	U	
ANTHRACENE	1.146	2.8				1.1	4			380	U	
BENZO(A)ANTHRACENE	1.242	5.3				1.239	0.2			380	U	
BENZO(A)PYRENE	1.516	5.9				1.32	12.9			380	U	
BENZO(B)FLUORANTHENE	1.954	3.8				1.661	15			380	U	
BENZO(G,H,I)PERYLENE	1.026	10.5				0.889	13.4			380	U	
BENZO(K)FLUORANTHENE	1.975	7.2				1.706	13.6			380	U	
BENZOIC ACID	0.172	11.8				0.106	38.4			1900	J	
BENZYL ALCOHOL	1.152	13.8				1.078	6.4			380	U	
BIS(2-CHLOROETHOXY)METHANE	0.581	7.3				0.563	3.1			380	U	
BIS(2-CHLOROISOPROPYL)ETHER	2.427	5.7				2.506	3.3			380	U	
BIS(2-CHOROETHYL)ETHER	1.98	7.5				2.149	8.5			380	U	
BIS(2-ETHYLHEXYL)PHTHALATE	1.85	5.2				1.854	0.2			170	J	
BUTYLBENZYLPHthalate	1.158	9.5				1.076	7.1			67	J	
CHRYSENE	1.212	44.2				1.278	5.4			380	U	
DI-N-BUTYLPHTHALATE	1.739	7.4				1.976	13.6			66	J	
DI-N-OCTYLPHTHALATE	4.734	10.1				4.229	10.7			380	U	
DIBENZ(A,H)ANTHRACENE	0.905	19.6				0.962	6.3			380	U	
DIBENZOFURAN	2.007	3.9				1.788	10.9			380	U	
DIETHYLPHthalate	1.811	3.2				1.738	4			380	U	
DIMETHYLPHthalate	1.535	3.9				1.438	6.3			380	U	
FLUORANTHENE	1.086	5.5				1.059	2.5			380	U	
FLUORENE	1.313	3.6				1.194	9.1			380	U	
HEXACHLOROBENZENE	0.199	1.3				0.204	2.5			380	U	
HEXACHLOROBUTADIENE	0.154	0.7				0.145	5.8			380	U	
HEXACHLOROCYCLOPENTADIENE	0.115	24.9				0.088	23.5			380	U	
HEXACHLOROETHANE	0.79	4.1				0.821	3.9			380	U	
INDENO(1,2,3-CD)PYRENE	1.333	6				1.163	12.8			380	U	
ISOPHORONE	1.008	0.7				0.963	4.5			380	U	
N-NITROSO-DI-N-PROPYLAMINE	0.496	9				0.532	7.3			380	U	
N-NITROSODIPHENYLAMINE	0.541	7.4				0.508	6.1			380	U	
NAPHTHALENE	1.094	6.7				1.1	0.5			380	U	
NITROBENZENE	0.489	11.9				0.46	5.9			380	U	
NITROBENZENE-D5	0.431	10.2				0.413	4.2			380	U	
PENTACHLOROPHENOL	0.112	10.8				0.117	4.5			1900	J	
PHENANTHRENE	1.07	4.7				1.128	5.4			380	U	
PHENOL	2.057	11.3				2.197	6.8			380	U	
PHENOL-D5	1.617	10.3				1.578	2.4					

TABLE D.6.16 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011188

DRAFT DO NOT CITE

AREA	QA INITIAL CAL RRF LL0106886	QA INITIAL CAL X RSD LL0106886	QA TUNED CALIBRATION LL0111885	QA CONTINUING CALIBRATION LL0111887	QA CONTINUING CAL XD LL0111887	ISTD SHIFT LL0111888	RET TIME	GSA WELLS LL036133B	AREA
	RRF	%	%	RRF	%	AREA	UG/KG	9	
PYRENE	1.597	7.6		1.529	4.3				380 U
TERPHENYL-D14	0.823	8.6		0.815	1				380 U
1,2-DICHLOROBENZENE	1.602	2.6		1.63	1.7				380 U
1,2,4-TRICHLOROBENZENE	0.312	3.8		0.291	6.7				380 U
1,3-DICHLOROBENZENE	1.587	5.8		1.589	0.1				380 U
1,4-DICHLOROBENZENE	1.608	2.5		1.682	4.6				380 U
2-CHLORONAPHTHALENE	1.28	5		1.201	6.2				380 U
2-CHLOROPHENOL	1.713	5		1.691	1.3				380 U
2-FLUOROBIPHENYL	1.186	2.9		1.188	0.2				380 U
2-FLUOROPHENOL	1.28	14.1		1.233	3.7				380 U
2-METHYLNAPHTHALENE	0.734	5.8		0.641	12.7				380 U
2-METHYLPHENOL	1.398	7.8		1.457	4.2				380 U
2-NITROANILINE	0.521	12.5		0.418	19.8				1900 U
2-NITROPHENOL	0.211	9.6		0.201	4.7				380 U
2,4-DICHLOROPHENOL	0.292	8.2		0.297	1.7				380 U
2,4-DIMETHYLPHENOL	0.458	7.9		0.468	2.2				380 U
2,4-DINITROPHENOL	0.101	17.6		0.071	29.7				1900 U
2,4-DINITROTOLUENE	0.386	8.1		0.355	8				380 U
2,4,5-TRICHLOROPHENOL	0.337	5.1		0.305	9.5				1900 U
2,4,6-TRIBROMOPHENOL	0.094	7.2		0.093	1.1				380 U
2,4,6-TRICHLOROPHENOL	0.359	4.2		0.325	9.5				380 U
2,6-DINITROTOLUENE	0.293	7		0.281	4.1				380 U
3-NITROANILINE	0.225	31		0.096	57.3				1900 U
3,3'-DICHLOROBENZIDINE	0.228	19.3		0.188	17.5				760 U
4-BROMOPHENYL-PHENYLETHER	0.191	3.8		0.202	5.8				380 U
4-CHLORO-3-METHYLPHENOL	0.375	12.5		0.346	7.7				380 U
4-CHLOROANILINE	0.385	27.5		0.196	49.1				380 U
4-CHLOROPHENYL-PHENYLETHER	0.547	2.7		0.526	3.8				380 U
4-METHYLPHENOL	1.357	15.5		1.358	0.1				380 U
4-NITROANILINE	0.128	34.4		0.059	53.9				1900 U
4-NITROPHENOL	0.154	8.2		0.098	36.4				1900 U
4,6-DINITRO-2-METHYLPHENOL	0.116	13.4		0.086	25.9				1900 U
SURR 1(NBZ) %RECOVERY									24
SURR 2(FBP) %RECOVERY									30
SURR 3(TPH) %RECOVERY									39
SURR 4(PHL) %RECOVERY									28
SURR 5(2FP) %RECOVERY									35
SURR 6(TBP) %RECOVERY									30

TABLE D.6.16 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011188

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	INITIAL CAL RRF LL0106886	INITIAL CAL X RSD LL0106886	TUNED CALIBRATION LL0111885	CONTINUING CALIBRATION LL0111887	CONTINUING CAL XD LL0111887	ISTD RET TIM SHIFT LL0111888	GSA AREA WELLS LL036133B SOIL UG/KG 9
M/E 51			54			52100	47000
M/E 68-1			0			54500	45200
M/E 68-2			0			27700	29500
M/E 69			58			114000	97200
M/E 70-1			0			74300	66000
M/E 70-2			0			35100	30400
M/E 127			60				
M/E 197			0				
M/E 198			100				
M/E 199			8.7				
M/E 275			15				
M/E 365			2.3				
M/E 441			7.7				
M/E 442			44				
M/E 443-1			9.4				
M/E 443-2			21				
INTERNAL STD AREA(ANT)						52100	47000
INTERNAL STD AREA(CRY)						54500	45200
INTERNAL STD AREA(DCB)						27700	29500
INTERNAL STD AREA(NPT)						114000	97200
INTERNAL STD AREA(PHN)						74300	66000
INTERNAL STD AREA(PRY)						35100	30400
DILUTION FACTOR							1
PERCENT MOISTURE							13
ACTUAL(ALLOWED) EXTRACT TIME							8(14 D)
AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	MATRIX SPIKE LL036155B	MS % RECOVERY LL036155B	RPD LL036155B	OSA AREA WELLS LL036155B	MATRIX SPIKE DUPLICATE LL036155B	MSD % RECOVERY LL036155B	
ACENAPHTHENE	9	9	9	9	9	9	
	1100 MS	32	20 *	390 U	900 MS	26 *	

TABLE D.6.16 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011188

DRAFT DO NOT CITE

AREA	QA	QA	QA	GSA	QA	MATRIX	SPIKE	MSD %
LOCATION	MATRIX	MS %	RPD	AREAS	DUPLICATE	RECOVERY	RECOVERY	RECOVERY
TYPE OF LOCATION	SPIKE	RECOVERY	LL036155B	WELLS	LL036155B	LL036155B	LL036155B	%
SAMPLE NUMBER	LL036155B	LL036155B	LL036155B	SOIL	SOIL	SOIL	SOIL	UG/KG
MATRIX	SOIL	SOIL	SOIL	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
UNITS	X	X	X	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	9	9	9	9	9	9	9	9
ACENAPHTHYLENE	390 U			390 U		390 U		
ANTHRACENE	390 U			390 U		390 U		
BENZO(A)ANTHRACENE	390 U			390 U		390 U		
BENZO(A)PYRENE	390 U			390 U		390 U		
BENZO(B)FLUORANTHENE	390 U			390 U		390 U		
BENZO(G,H,I)PERYLENE	390 U			390 U		390 U		
BENZO(K)FLUORANTHENE	390 U			390 U		390 U		
BENZOIC ACID	2000 U			2000 U		2000 U		
BENZYL ALCOHOL	390 U			390 U		390 U		
BIS(2-CHLOROETHOXY)METHANE	390 U			390 U		390 U		
BIS(2-CHLOROISOPROPYL)ETHER	390 U			390 U		390 U		
BIS(2-CHOROETHYL)ETHER	390 U			390 U		390 U		
BIS(2-ETHYLHEXYL)PHTHALATE	89 J			110 J		72 J		
BUTYL BENZYL PHTHALATE	69 J			390 U		390 U		
CHRYSENE	390 U			390 U		390 U		
DI-N-BUTYL PHTHALATE	390 U			140 J		390 U		
DI-N-OCTYL PHTHALATE	390 U			390 U		390 U		
DIBENZ(A,H)ANTHRACENE	390 U			390 U		390 U		
DIBENZOFURAN	390 U			390 U		390 U		
DIETHYL PHTHALATE	390 U			390 U		390 U		
DIMETHYL PHTHALATE	390 U			390 U		390 U		
FLUORANTHENE	390 U			390 U		390 U		
FLUORENE	390 U			390 U		390 U		
HEXA CHLOROBENZENE	390 U			390 U		390 U		
HEXA CHLOROBUTADIENE	390 U			390 U		390 U		
HEXA CHLOROCYCLOPENTADIENE	390 U			390 U		390 U		
HEXA CHLOROETHANE	390 U			390 U		390 U		
INDENO(1,2,3-CD)PYRENE	390 U			390 U		390 U		
ISOPHORONE	390 U			390 U		390 U		
N-NITROSO-DI-N-PROPYLAMINE	1100 MS	33 X	28	390 U		830 MS		25 X
N-NITROSODIPHENYLAMINE	390 U			390 U		390 U		
NAPHTHALENE	390 U			390 U		390 U		
NITROBENZENE	390 U			390 U		390 U		
NITROBENZENE-D5								
PENTACHLOROPHENOL	1600 JMS	24	37	2000 U		1100 JMS		16 X
PHENANTHRENE	390 U			390 U		390 U		
PHENOL	2000 MS	32	22	390 U		1600 MS		26
PHENOL-D5								
PYRENE	1200 MS	36	9	390 U		1100 MS		32 X

TABLE D.6.16 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011188

DRAFT DO NOT CITE

AREA	QA MATRIX SPIKE LL036155B 9	QA MS % RECOVERY LL036155B 9	QA RPD LL036155B 9	GSA AREA WELLS LL036155B 9	QA MATRIX SPIKE DUPLICATE LL036155B SOIL UG/KG 9	QA MSD % RECOVERY LL036155B 9
TERPHENYL-D14						
1,2-DICHLOROBENZENE	390 U			390 U	390 U	
1,2,4-TRICHLOROBENZENE	1000 MS	29 *	4	390 U	960 MS	28 *
1,3-DICHLOROBENZENE	390 U			390 U	390 U	
1,4-DICHLOROBENZENE	1000 MS	30	15	390 U	860 MS	26 *
2-CHLORONAPHTHALENE	390 U			390 U	390 U	
2-CHLOROPHENOL	2200 MS	30	20	390 U	1800 MS	25
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	390 U			390 U	390 U	
2-METHYLPHENOL	390 U			390 U	390 U	
2-NITROANILINE	2000 U			2000 U	2000 U	
2-NITROPHENOL	390 U			390 U	390 U	
2,4-DICHLOROPHENOL	390 U			390 U	390 U	
2,4-DIMETHYLPHENOL	390 U			390 U	390 U	
2,4-DINITROPHENOL	2000 U			2000 U	2000 U	
2,4-DINITROTOLUENE	720 MS	21 *	18	390 U	600 MS	18 *
2,4,5-TRICHLOROPHENOL	2000 U			2000 U	2000 U	
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	390 U			390 U	390 U	
2,6-DINITROTOLUENE	390 U			390 U	390 U	
3-NITROANILINE	2000 U			2000 U	2000 U	
3,5'-DICHLOROBENZIDINE	780 U			780 U	780 U	
4-BROMOPHENYL-PHENYLETHER	390 U			390 U	390 U	
4-CHLORO-3-METHYLPHENOL	1700 MS	25 *	34 *	390 U	1200 MS	18 *
4-CHLOROANILINE	390 U			390 U	390 U	
4-CHLOROPHENYL-PHENYLETHER	390 U			390 U	390 U	
4-METHYLPHENOL	390 U			390 U	390 U	
4-NITROANILINE	2000 U			2000 U	2000 U	
4-NITROPHENOL	870 JMS	13	20	2000 U	710 JMS	11
4,6-DINITRO-2-METHYLPHENOL	2000 U			2000 U	2000 U	
SURR 1(NBZ) %RECOVERY	25			25	20 *	
SURR 2(FBP) %RECOVERY	27 *			30	26 *	
SURR 3(TPH) %RECOVERY	32			38	26	
SURR 4(PHL) %RECOVERY	34			30	28	
SURR 5(2FP) %RECOVERY	37			37	32	
SURR 6(TBP) %RECOVERY	30			26	22	

M/E 51

TABLE D.6.16 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011188

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA
LOCATION	MATRIX	MS X RECOVERY	RPD	GSA AREA	MATRIX SPIKE
TYPE OF LOCATION	SPIKE	LL036155B	LL036155B	WELLS	DUPLICATE
SAMPLE NUMBER	SOIL	SOIL	SOIL	SOIL	SOIL
MATRIX	UG/KG	X	%	UG/KG	UG/KG
UNITS		9	9	9	9
ENV PROBLEM NO					
M/E 68-1					
M/E 68-2					
M/E 69					
M/E 70-1					
M/E 70-2					
M/E 127					
M/E 197					
M/E 198					
M/E 199					
M/E 275					
M/E 365					
M/E 441					
M/E 442					
M/E 443-1					
M/E 443-2					
INTERNAL STD AREA(ANT)	54300			42600	50800
INTERNAL STD AREA(CRY)	49200			33400	45200
INTERNAL STD AREA(DCB)	32300			27400	32000
INTERNAL STD AREA(NPT)	112000			93700	110000
INTERNAL STD AREA(PHN)	77000			59200	45200
INTERNAL STD AREA(PRY)	34000			24200	31200
DILUTION FACTOR	1			1	1
PERCENT MOISTURE	15			15	15
ACTUAL(ALLOWED) EXTRACT TIME	9(14 D)			9(14 D)	9(14 D)

TABLE D.6.17 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011288

DRAFT DO NOT CITE

AREA	QA RRF	QA % RSD	QA LL0106886	QA RRF	QA % RSD	QA LL0106886	QA TUNED CALIBRATION LL0112885	QA RRF	QA % RSD	QA LL0112887	QA CONTINUING CALIBRATION LL0112887	QA CAL %D LL0112887	QA CONTINUING CAL %D LL0112887	ISTD SHIFT LL0112888	RET TIME LL0112888	TIM LAS POSITAS ARROYO LL009016B	SOIL UG/KG 1
LOCATION																	
TYPE OF LOCATION																	
SAMPLE NUMBER																	
MATRIX																	
UNITS																	
ENV PROBLEM NO																	
ACENAPHTHENE	1.094	6.7						1.281	6.8							360	U
ACENAPHTHYLENE	0.312	3.8						1.808	5.1							360	U
ANTHRACENE	1.146	2.8						1.081	5.7							360	U
BENZO(A)ANTHRACENE	1.242	5.3						1.278	2.9							360	U
BENZO(A)PYRENE	1.516	5.9						1.317	13.1							360	U
BENZO(B)FLUORANTHENE	1.954	3.8						1.708	12.6							360	U
BENZO(G,H,I)PERYLENE	1.026	10.5						0.918	10.5							360	U
BENZO(K)FLUORANTHENE	1.975	7.2						1.842	6.7							360	U
BENZOIC ACID	0.79	4.1						0.115	33.1							1800	J
BENZYL ALCOHOL	1.152	13.8						1.053	8.6							360	U
BIS(2-CHLOROETHOXY)METHANE	0.489	11.9						0.564	2.9							360	U
BIS(2-CHLOROISOPROPYL)ETHER	1.398	7.8						2.422	0.2							360	U
BIS(2-CHLOROETHYL)ETHER	1.98	7.5						1.871	5.5							360	U
BIS(2-ETHYLHEXYL)PHTHALATE	1.85	5.2						2.005	8.4							99	J
BUTYLBENZYLPHthalate	1.158	9.5						1.071	7.5							360	U
CHRYSENE	1.212	44.2						1.313	8.3							360	U
DI-N-BUTYLPHTHALATE	1.739	7.4						1.871	7.6							170	J
DI-N-OCTYLPHTHALATE	4.734	10.1						4.523	4.5							360	U
DIBENZ(A,H)ANTHRACENE	0.905	19.6						1.007	11.3							360	U
DIBENZOFURAN	2.007	3.9						1.817	9.5							360	U
DIETHYLPHthalate	1.811	3.2						1.693	6.5							360	U
DIMETHYLPHthalate	0.292	8.2						1.448	5.7							360	U
FLUORANTHENE	1.086	5.5						1.055	2.9							360	U
FLUORENE	1.313	3.6						1.217	7.3							360	U
HEXAChLOROBENZENE	0.199	1.3						0.191	4							360	U
HEXAChLOROBUTADIENE	0.211	9.6						0.152	1.3							360	U
HEXAChLOROCYCLOPENTADIENE	0.172	11.8						0.085	26.1							360	U
HEXAChLOROETHANE	1.357	15.5						0.835	5.7							360	U
INDENO(1,2,3-CD)PYRENE	1.333	6						1.302	2.3							360	U
ISOPHORONE	0.496	9						1.016	0.8							360	U
N-NITROSO-DI-N-PROPYLAMINE	2.427	5.7						0.515	3.8							360	U
N-NITROSODIPHENYLAMINE	0.541	7.4						0.542	0.2							360	U
NAPHTHALENE	1.008	0.7						1.134	3.7							360	U
NITROBENZENE	1.357	15.5						0.46	5.9							360	U
NITROBENZENE-D5	0.431	10.2						0.428	0.7							360	U
PENTACHLOROPHENOL	0.112	10.8						0.099	11.6							1800	J
PHENANTHRENE	1.07	4.7						1.082	1.1							360	U
PHENOL	2.057	11.3						2.089	1.6							360	U
PHENOL-D5	1.617	10.3						1.608	0.6								

TABLE D.6.17 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011288

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	ISTD RET TIM LAS POSITAS
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	CONTINUING	CONTINUING	SHIFT	ARROYO
TYPE OF LOCATION	RRF	X RSD	CALIBRATION	CALIBRATION	CAL %D	LL011288	LL009016B
SAMPLE NUMBER	LL0106886	LL0106886	LL0112885	LL0112887	LL0112887	LL011288	SOIL
MATRIX							UG/KG
UNITS	RRF	X	X	RRF	X	AREA	1
ENV PROBLEM NO							
PYRENE	1.597	7.6		1.64	2.7		360 U
TERPHENYL-D14	0.823	8.6		0.897	9		
1,2-DICHLOROBENZENE	1.602	2.6		1.578	1.5		360 U
1,2,4-TRICHLOROBENZENE	1.008	0.7		0.302	3.2		360 U
1,3-DICHLOROBENZENE	1.587	5.8		1.56	1.7		360 U
1,4-DICHLOROBENZENE	1.608	2.5		1.654	2.9		360 U
2-CHLORONAPHTHALENE	0.581	7.3		1.206	5.8		360 U
2-CHLOROPHENOL	1.713	5		1.637	4.4		360 U
2-FLUOROBIPHENYL	1.186	2.9		1.18	0.5		
2-FLUOROPHENOL	1.28	14.1		1.189	7.1		
2-METHYLNAPHTHALENE	0.458	7.9		0.649	11.6		360 U
2-METHYLPHENOL	1.398	7.8		1.365	2.4		360 U
2-NITROANILINE	0.292	8.2		0.401	23		1800 U
2-NITROPHENOL	0.496	9		0.192	9		360 U
2,4-DICHLOROPHENOL	0.489	11.9		0.314	7.5		360 U
2,4-DIMETHYLPHENOL	0.79	4.1		0.469	2.4		360 U
2,4-DINITROPHENOL	0.385	27.5		0.103	2		1800 U
2,4-DINITROTOLUENE	0.386	8.1		0.377	2.3		360 U
2,4,5-TRICHLOROPHENOL	0.581	7.3		0.316	6.2		1800 U
2,4,6-TRIBROMOPHENOL	0.094	7.2		0.084	10.6		
2,4,6-TRICHLOROPHENOL	0.172	11.8		0.343	4.5		360 U
2,6-DINITROTOLUENE	0.312	3.8		0.287	2		360 U
3-NITROANILINE	1.094	6.7		0.135	40		1800 U
3,3'-DICHLOROBENZIDINE	0.228	19.3		0.185	18.9		720 U
4-BROMOPHENYL-PHENYLETHER	0.191	3.8		0.189	1		360 U
4-CHLORO-3-METHYLPHENOL	0.458	7.9		0.347	7.5		360 U
4-CHLOROANILINE	0.211	9.6		0.309	19.7		360 U
4-CHLOROPHENYL-PHENYLETHER	0.547	2.7		0.533	2.6		360 U
4-METHYLPHENOL	2.427	5.7		1.348	0.7		360 U
4-NITROANILINE	0.128	34.4		0.062	51.6		1800 U
4-NITROPHENOL	0.385	27.5		0.096	37.7		1800 U
4,6-DINITRO-2-METHYLPHENOL	0.116	13.4		0.092	20.7		1800 U
SURR 1(NBZ) %RECOVERY							19 X
SURR 2(FBP) %RECOVERY							20 X
SURR 3(TPH) %RECOVERY							27
SURR 4(PHL) %RECOVERY							21 X
SURR 5(2FP) %RECOVERY							26
SURR 6(TBP) %RECOVERY							19

TABLE D.6.17 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011288

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	ISTD	RET	TIM	LAS POSITAS
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	ARROYO			
TYPE OF LOCATION	RRF	% RSD	CALIBRATION	CALIBRATION	CAL XD	LL0112888	LL009016B			
SAMPLE NUMBER	LL0106886	LL0106886	LL0112885	LL0112887	LL0112887	LL0112888	SOIL			
MATRIX	RRF	%	%	RRF	%	AREA	UG/KG			
UNITS						1				
ENV PROBLEM NO										
M/E 51			55							
M/E 68-1		0								
M/E 68-2		0								
M/E 69		59								
M/E 70-1		0								
M/E 70-2		0								
M/E 127		61								
M/E 197		0								
M/E 198		100								
M/E 199		7.9								
M/E 275		15								
M/E 365		3.1								
M/E 441		6.9								
M/E 442		43								
M/E 443-1		9.4								
M/E 443-2		22								
INTERNAL STD AREA(ANT)						51100	43200			
INTERNAL STD AREA(CRY)						52600	42400			
INTERNAL STD AREA(DCB)						27300	28100			
INTERNAL STD AREA(NPT)						108000	92900			
INTERNAL STD AREA(PHN)						77100	63200			
INTERNAL STD AREA(PRY)						34500	28000			

DILUTION FACTOR 1  
PERCENT MOISTURE 7  
ACTUAL ALLOWED) EXTRACT TIME 7(14 D)

## AREA

LOCATION	LAS POSITAS	LAS POSITAS	GSA AREA	GSA AREA	STP MAIN	STP MAIN
TYPE OF LOCATION	ARROYO	ARROYO	WELLS	WELLS	POND	POND
SAMPLE NUMBER	LL009027B	LL009038B	LL036097B	LL036144B	LL038022B	LL038011B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	1	9	9	10	10

ACENAPHTHENE 370 U 360 U 400 U 390 U 1000 U 610 U

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TABLE D.6.17 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011288

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	LAS POSITAS ARROYO LL009027B SOIL UG/KG 1	LAS POSITAS ARROYO LL009038B SOIL UG/KG 1	GSA AREA WELLS LL036097B SOIL UG/KG 9	OSA AREA WELLS LL036144B SOIL UG/KG 9	STP MAIN POND LL038022B SOIL UG/KG 10	STP MAIN POND LL038011B SOIL UG/KG 10
ACENAPHTHYLENE	370 U	360 U	400 U	390 U	1000 U	610 U
ANTHRACENE	370 U	360 U	400 U	390 U	1000 U	610 U
BENZO(A)ANTHRACENE	370 U	360 U	400 U	390 U	1000 U	610 U
BENZO(A)PYRENE	370 U	360 U	400 U	390 U	1000 U	610 U
BENZO(B)FLUORANTHENE	370 U	360 U	400 U	390 U	1000 U	610 U
BENZO(G,H,I)PERYLENE	370 U	360 U	400 U	390 U	1000 U	610 U
BENZO(K)FLUORANTHENE	370 U	360 U	400 U	390 U	1000 U	610 U
BENZOIC ACID	1800 U	1800 U	2000 U	1900 U	5100 U	3000 U
BENZYL ALCOHOL	370 U	360 U	400 U	390 U	1000 U	610 U
BIS(2-CHLOROETHOXY)METHANE	370 U	360 U	400 U	390 U	1000 U	610 U
BIS(2-CHLOROISOPROPYL)ETHER	370 U	360 U	400 U	390 U	1000 U	610 U
BIS(2-CHOROETHYL)ETHER	370 U	360 U	400 U	390 U	1000 U	610 U
BIS(2-ETHYLHEXYL)PHTHALATE	320 J	99 J	390	270 J	1000 U	610 U
BUTYL BENZYL PHTHALATE	110 J	360 U	400 U	390 U	1000 U	610 U
CHRYSENE	370 U	360 U	400 U	390 U	1000 U	610 U
DI-N-BUTYL PHTHALATE	81 J	76 J	400 U	73 J	140 J	100 J
DI-N-OCTYL PHTHALATE	370 U	360 U	400 U	390 U	1000 U	610 U
DIBENZ(A,H)ANTHRACENE	370 U	360 U	400 U	390 U	1000 U	610 U
DIBENZOFURAN	370 U	360 U	400 U	390 U	1000 U	610 U
DIETHYL PHTHALATE	370 U	360 U	400 U	390 U	1000 U	78 J
DIMETHYL PHTHALATE	370 U	360 U	400 U	390 U	1000 U	610 U
FLUORANTHENE	370 U	360 U	400 U	71 J	1000 U	610 U
FLUORENE	370 U	360 U	400 U	390 U	1000 U	610 U
HEXACHLOROBENZENE	370 U	360 U	400 U	390 U	1000 U	610 U
HEXACHLOROBUTADIENE	370 U	360 U	400 U	390 U	1000 U	610 U
HEXACHLOROCYCLOPENTADIENE	370 U	360 U	400 U	390 U	1000 U	610 U
HEXACHLOROETHANE	370 U	360 U	400 U	390 U	1000 U	610 U
INDENO(1,2,3-CD)PYRENE	370 U	360 U	400 U	390 U	1000 U	610 U
ISOPHORONE	370 U	360 U	400 U	390 U	1000 U	610 U
N-NITROSO-DI-N-PROPYLAMINE	370 U	360 U	400 U	390 U	1000 U	610 U
N-NITROSODIPHENYLAMINE	370 U	360 U	400 U	390 U	1000 U	610 U
NAPHTHALENE	370 U	360 U	400 U	390 U	1000 U	610 U
NITROBENZENE	370 U	360 U	400 U	390 U	1000 U	610 U
NITROBENZENE-D5						
PENTACHLOROPHENOL	1800 U	1800 U	2000 U	1900 U	5100 U	3000 U
PHENANTHRENE	370 U	360 U	400 U	390 U	1000 U	610 U
PHENOL	370 U	360 U	400 U	390 U	1000 U	610 U
PHENOL-D5						
PYRENE	370 U	360 U	400 U	81 J	1000 U	610 U

TABLE D.6.17 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011288

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	LAS POSITAS ARROYO LL009027B UG/KG 1	LAS POSITAS ARROYO LL009038B UG/KG 1	GSA AREA WELLS LL036097B UG/KG 9	GSA AREA WELLS LL036144B UG/KG 9	STP MAIN POND LL038022B SOIL UG/KG 10	STP MAIN POND LL038011B SOIL UG/KG 10
<b>TERPHENYL-D14</b>						
1,2-DICHLOROBENZENE	370 U	360 U	400 U	390 U	1000 U	610 U
1,2,4-TRICHLOROBENZENE	370 U	360 U	400 U	390 U	1000 U	610 U
1,3-DICHLOROBENZENE	370 U	360 U	400 U	390 U	1000 U	610 U
1,4-DICHLOROBENZENE	370 U	360 U	400 U	390 U	1000 U	610 U
2-CHLORONAPHTHALENE	370 U	360 U	400 U	390 U	1000 U	610 U
2-CHLOROPHENOL	370 U	360 U	400 U	390 U	1000 U	610 U
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	370 U	360 U	400 U	390 U	1000 U	610 U
2-METHYLPHENOL	370 U	360 U	400 U	390 U	1000 U	610 U
2-NITROANILINE	1800 U	1800 U	2000 U	1900 U	5100 U	3000 U
2-NITROPHENOL	370 U	360 U	400 U	390 U	1000 U	610 U
2,4-DICHLOROPHENOL	370 U	360 U	400 U	390 U	1000 U	610 U
2,4-DIMETHYLPHENOL	370 U	360 U	400 U	390 U	1000 U	610 U
2,4-DINITROPHENOL	1800 U	1800 U	2000 U	1900 U	5100 U	3000 U
2,4-DINITROTOLUENE	370 U	360 U	400 U	390 U	1000 U	610 U
2,4,5-TRICHLOROPHENOL	1800 U	1800 U	2000 U	1900 U	5100 U	3000 U
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	370 U	360 U	400 U	390 U	1000 U	610 U
2,6-DINITROTOLUENE	370 U	360 U	400 U	390 U	1000 U	610 U
3-NITROANILINE	1800 U	1800 U	2000 U	1900 U	5100 U	3000 U
3,3'-DICHLOROBENZIDINE	740 U	710 U	800 U	780 U	2000 U	1200 U
4-BROMOPHENYL-PHENYLETHER	370 U	360 U	400 U	390 U	1000 U	610 U
4-CHLORO-3-METHYLPHENOL	370 U	360 U	400 U	390 U	1000 U	610 U
4-CHLOROANILINE	370 U	360 U	400 U	390 U	1000 U	610 U
4-CHLOROPHENYL-PHENYLETHER	370 U	360 U	400 U	390 U	1000 U	610 U
4-METHYLPHENOL	370 U	360 U	400 U	390 U	1000 U	610 U
4-NITROANILINE	1800 U	1800 U	2000 U	1900 U	5100 U	3000 U
4-NITROPHENOL	1800 U	1800 U	2000 U	1900 U	5100 U	3000 U
4,6-DINITRO-2-METHYLPHENOL	1800 U	1800 U	2000 U	1900 U	5100 U	3000 U
SURR 1(NBZ) %RECOVERY	19 *	18 *	7 *	23	1 *	30
SURR 2(FBP) %RECOVERY	31	30	12 *	33	0 *	34
SURR 3(TPH) %RECOVERY	42	41	36	44	3 *	62
SURR 4(PHL) %RECOVERY	26	25	14 *	30	84	36
SURR 5(2FP) %RECOVERY	27	26	15 *	36	95	43
SURR 6(TBP) %RECOVERY	35	40	25	39	77	36

TABLE D.6.17 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011288

DRAFT DO NOT CITE

AREA	LOCATION	LAS POSITAS	LAS POSITAS	GSA AREA	GSA AREA	STP MAIN	STP MAIN
	TYPE OF LOCATION	ARROYO	ARROYO	WELLS	WELLS	POND	POND
	SAMPLE NUMBER	LL009027B	LL009038B	LL036097B	LL036144B	LL038022B	LL038011B
	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
	ENV PROBLEM NO	1	1	9	9	10	10
M/E 68-1							
M/E 68-2							
M/E 69							
M/E 70-1							
M/E 70-2							
M/E 127							
M/E 197							
M/E 198							
M/E 199							
M/E 275							
M/E 365							
M/E 441							
M/E 442							
M/E 443-1							
M/E 443-2							
INTERNAL STD AREA(ANT)		49500	43500	40200	47500	56800	63800
INTERNAL STD AREA(CRY)		46000	47700	37400	51500	20100	41500
INTERNAL STD AREA(DCB)		31300	28400	25100	30900	31900	35400
INTERNAL STD AREA(NPT)		109000	94400	82500	103000	111000	124000
INTERNAL STD AREA(PHN)		70400	67800	54600	73200	93900	100000
INTERNAL STD AREA(PRY)		30700	27700	25200	35500	28200	36600
DILUTION FACTOR		1	1	1	1	1	1
PERCENT MOISTURE		10	6	17	14	67	45
ACTUAL ALLOWED EXTRACT TIME		8(14 D)	8(14 D)	6(14 D)	8(14 D)	7(14 D)	9(14 D)

TABLE D.6.18 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011388

DRAFT DO NOT CITE

AREA	QA RRF LL0106886	QA % LL0106886	QA %	QA RRF	QA % LL0113887	QA CAL %D LL0113887	ISTD SHIFT LL0113888	RET TIME	STP POND LL038033B	MAIN SOIL UG/KG 10
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIME	STP	MAIN
TYPE OF LOCATION	RRF	% RSD	CALIBRATION	CALIBRATION	CAL %D	SHIFT	SHIFT	STP	POND	MAIN
SAMPLE NUMBER	LL0106886	LL0106886	LL0113885	LL0113887	LL0113887	LL0113888	LL0113888	LL0113888	LL038033B	LL038033B
MATRIX										
UNITS	RRF	%	%	RRF	%	AREA	AREA	AREA	AREA	AREA
ENV PROBLEM NO										
ACENAPHTHENE	1.375	2.4		1.399	1.7				630	U
ACENAPHTHYLENE	1.905	2.9		1.898	0.4				630	U
ANTHRACENE	1.146	2.8		1.112	3				630	U
BENZO(A)ANTHRACENE	1.242	5.3		1.166	6.1				630	U
BENZO(A)PYRENE	1.516	5.9		1.247	17.7				630	U
BENZO(B)FLUORANTHENE	1.954	3.8		1.892	3.2				630	U
BENZO(G,H,I)PERYLENE	1.026	10.5		0.81	21.1				630	U
BENZO(K)FLUORANTHENE	1.975	7.2		1.597	19.1				630	U
BENZOIC ACID	0.172	11.8		0.144	16.3				3200	U
BENZYL ALCOHOL	1.152	13.8		1.023	11.2				630	U
BIS(2-CHLOROETHOXY)METHANE	0.581	7.3		0.595	2.4				630	U
BIS(2-CHLOROISOPROPYL)ETHER	2.427	5.7		2.402	1				630	U
BIS(2-CHOROETHYL)ETHER	1.98	7.5		1.987	0.4				630	U
BIS(2-ETHYLHEXYL)PHTHALATE	1.85	5.2		1.86	0.5				42000	U
BUTYLBENZYLPHthalate	1.158	9.5		1.078	6.9				630	U
CHRYSENE	1.212	44.2		1.2	1				630	U
DI-N-BUTYLPHthalate	1.739	7.4		1.962	12.8				130	J
DI-N-OCTYLPHthalate	4.734	10.1		4.63	2.2				630	U
DIBENZA(H)ANTHRACENE	0.905	19.6		0.896	1				630	U
DIBENZOFURAN	2.007	3.9		1.839	8.4				630	U
DIETHYLPHthalate	1.811	3.2		1.845	1.9				90	J
DIMETHYLPHthalate	1.535	3.9		1.474	4				630	U
FLUORANTHENE	1.086	5.5		1.085	0.1				630	U
FLUORENE	1.313	3.6		1.272	3.1				630	U
HEXACHLOROBENZENE	0.199	1.3		0.176	11.6				630	U
HEXACHLOROBUTADIENE	0.154	0.7		0.137	11				630	U
HEXACHLOROCYCLOPENTADIENE	0.115	24.9		0.052	54.8				630	U
HEXACHLOROETHANE	0.79	4.1		0.758	4.1				630	U
INDENO(1,2,3-CD)PYRENE	1.333	6		1.108	16.9				630	U
ISOPHORONE	1.008	0.7		1.004	0.4				630	U
N-NITROSO-DI-N-PROPYLAMINE	0.496	9		0.543	9.3				630	U
N-NITROSODIPHENYLAMINE	0.541	7.4		0.502	7.2				630	U
NAPHTHALENE	1.094	6.7		1.155	5.6				630	U
NITROBENZENE	0.489	11.9		0.464	5.1				630	U
NITROBENZENE-D5	0.431	10.2		0.42	2.6				630	U
PENTACHLOROPHENOL	0.112	10.8		0.093	17				3200	U
PHENANTHRENE	1.07	4.7		1.132	5.8				630	U
PHENOL	2.057	11.3		2.125	3.3				630	U
PHENOL-D5	1.617	10.3		1.651	2.1					

TABLE D.6.18 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL01138A

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TABLE D.6.18 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011388

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	ISTD SHIFT	RET	TIM	STP	MAIN
LOCATION	INITIAL CAL RRF LL0106886	INITIAL CAL % RSD LL0106886	TUNED CALIBRATION LL0113885	CONTINUING CALIBRATION LL0113887	CONTINUING CAL XD LL0113887	CONTINUING CAL XD LL0113887	LL0113888	LL0113888	POND	SOIL	UG/KG
TYPE OF LOCATION							AREA				
SAMPLE NUMBER											
MATRIX	RRF	%	%	RRF	%	%					
UNITS											
ENV PROBLEM NO											
M/E 51			50								
M/E 68-1			0								
M/E 68-2			0								
M/E 69			60								
M/E 70-1			0								
M/E 70-2			0								
M/E 127			61								
M/E 197			0								
M/E 198			100								
M/E 199			9								
M/E 275			15								
M/E 365			0								
M/E 441			7.9								
M/E 442			59								
M/E 443-1			11								
M/E 443-2			18								
INTERNAL STD AREA(ANT)							47000		55000		
INTERNAL STD AREA(CRY)							55000		48600		
INTERNAL STD AREA(DCB)							26300		31500		
INTERNAL STD AREA(NPT)							105000		114000		
INTERNAL STD AREA(PHN)							70400		95100		
INTERNAL STD AREA(PRY)							32900		33300		
DILUTION FACTOR											1
PERCENT MOISTURE											47
ACTUAL(ALLOWED) EXTRACT TIME											7(14 D)
AREA	GSA AREA	GSA AREA	STP MAIN	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA
LOCATION	WELLS	WELLS	POND	LL031070B	LL031025B	LL031025B	LL031092B	LL031092B	LL031092B	LL031092B	LL031092B
TYPE OF LOCATION	LL036075B	LL036086B	LL038055B								
SAMPLE NUMBER											
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	9	9	10	6	6	6	6	6	6	6	6
ACENAPHTHENE	380 U	65 J	540 U	350 U	360 U	350 U					

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TABLE D.6.18 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011388

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	GSA AREA WELLS LL036075B 9	GSA AREA WELLS LL036086B 9	STP MAIN POND LL038055B 10	GSA AREA GSA AREA LL031070B 6	GSA AREA GSA AREA LL031025B 6	GSA AREA GSA AREA LL031092B 6
ACENAPHTHYLENE	380 U	410 U	540 U	350 U	360 U	350 U
ANTHRACENE	380 U	410 U	540 U	350 U	360 U	350 U
BENZO(A)ANTHRACENE	380 U	410 U	540 U	350 U	360 U	350 U
BENZO(A)PYRENE	380 U	410 U	540 U	350 U	360 U	350 U
BENZO(B)FLUORANTHENE	380 U	410 U	540 U	350 U	360 U	350 U
BENZO(G,H,I)PERYLENE	380 U	410 U	540 U	350 U	360 U	350 U
BENZO(K)FLUORANTHENE	380 U	410 U	540 U	350 U	360 U	350 U
BENZOIC ACID	1900 U	2100 U	2700 U	1700 U	1800 U	1700 U
BENZYL ALCOHOL	380 U	410 U	540 U	350 U	360 U	350 U
BIS(2-CHLOROETHOXY)METHANE	380 U	410 U	540 U	350 U	360 U	350 U
BIS(2-CHLOROISOPROPYL)ETHER	380 U	410 U	540 U	350 U	360 U	350 U
BIS(2-CHLOROETHYL)ETHER	380 U	410 U	540 U	350 U	360 U	350 U
BIS(2-ETHYLHEXYL)PHTHALATE	37000	38000	31000	850	360 U	190 J
BUTYLBENZYLPHthalate	380 U	410 U	540 U	350 U	360 U	350 U
CHRYSENE	380 U	410 U	540 U	350 U	360 U	350 U
DI-N-BUTYLPHthalate	380 U	53 J	260 J	50 J	360 U	40 J
DI-N-OCTYLPHthalate	380 U	410 U	540 U	350 U	360 U	350 U
DIBENZ(A,H)ANTHRACENE	380 U	410 U	540 U	350 U	360 U	350 U
DIBENZOFURAN	380 U	410 U	540 U	350 U	360 U	350 U
DIETHYLPHthalate	380 U	49 J	85 J	350 U	360 U	350 U
DIMETHYLPHthalate	380 U	410 U	540 U	350 U	360 U	350 U
FLUORANTHENE	53 J	400 J	540 U	350 U	360 U	350 U
FLUORENE	380 U	52 J	540 U	350 U	360 U	350 U
HEXACHLOROBENZENE	380 U	410 U	540 U	350 U	360 U	350 U
HEXACHLOROBUTADIENE	380 U	410 U	540 U	350 U	360 U	350 U
HEXACHLOROCYCLOPENTADIENE	380 U	410 U	540 U	350 U	360 U	350 U
HEXACHLOROETHANE	380 U	410 U	540 U	350 U	360 U	350 U
INDENO(1,2,3-CD)PYRENE	380 U	410 U	540 U	350 U	360 U	350 U
ISOPHORONE	380 U	410 U	540 U	350 U	360 U	350 U
N-NITROSO-DI-N-PROPYLAMINE	380 U	410 U	540 U	350 U	360 U	350 U
N-NITROSODIPHENYLAMINE	380 U	410 U	540 U	350 U	360 U	350 U
NAPHTHALENE	380 U	410 U	540 U	350 U	360 U	350 U
NITROBENZENE	380 U	410 U	540 U	350 U	360 U	350 U
NITROBENZENE-D5						
PENTACHLOROPHENOL	1900 U	2100 U	2700 U	1700 U	1800 U	1700 U
PHENANTHRENE	53 J	400 J	540 U	350 U	1700	350 U
PHENOL	380 U	410 U	540 U	350 U	360 U	350 U
PHENOL-D5						
PYRENE	92 J	510	540 U	350 U	930	350 U

TABLE D.6.18 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011388

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	GSA AREA WELLS LL036075B 9	GSA AREA WELLS LL036086B 9	STP MAIN POND LL038055B 10	GSA AREA SOIL UG/KG 6	GSA AREA SOIL UG/KG 6	GSA AREA SOIL UG/KG 6	GSA AREA SOIL UG/KG 6
TERPHENYL-D14							
1,2-DICHLOROBENZENE	380 U	410 U	540 U	350 U	360 U	360 U	350 U
1,2,4-TRICHLOROBENZENE	380 U	410 U	540 U	350 U	360 U	360 U	350 U
1,3-DICHLOROBENZENE	380 U	410 U	540 U	350 U	360 U	360 U	350 U
1,4-DICHLOROBENZENE	380 U	410 U	540 U	350 U	360 U	360 U	350 U
2-CHLORONAPHTHALENE	380 U	410 U	540 U	350 U	360 U	360 U	350 U
2-CHLOROPHENOL	380 U	410 U	540 U	350 U	360 U	360 U	350 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	380 U	410 U	540 U	350 U	210 J	350 U	
2-METHYLPHENOL	380 U	410 U	540 U	350 U	360 U	350 U	
2-NITROANILINE	1900 U	2100 U	2700 U	1700 U	1800 U	1700 U	
2-NITROPHENOL							
2,4-DICHLOROPHENOL	380 U	410 U	540 U	350 U	360 U	360 U	
2,4-DIMETHYLPHENOL	380 U	410 U	540 U	350 U	360 U	360 U	
2,4-DINITROPHENOL	1900 U	2100 U	2700 U	1700 U	1800 U	1700 U	
2,4-DINITROTOLUENE	380 U	410 U	540 U	350 U	360 U	360 U	
2,4,5-TRICHLOROPHENOL	1900 U	2100 U	2700 U	1700 U	1800 U	1700 U	
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	380 U	410 U	540 U	350 U	360 U	360 U	
2,6-DINITROTOLUENE	380 U	410 U	540 U	350 U	360 U	360 U	
3-NITROANILINE	1900 U	2100 U	2700 U	1700 U	1800 U	1700 U	
3,3'-DICHLOROBENZIDINE	760 U	830 U	1100 U	700 U	700 U	690 U	
4-BROMOPHENYL-PHENYLETHER	380 U	410 U	540 U	350 U	360 U	360 U	
4-CHLORO-3-METHYLPHENOL	380 U	410 U	540 U	350 U	360 U	360 U	
4-CHLOROANILINE	380 U	410 U	540 U	350 U	360 U	360 U	
4-CHLOROPHENYL-PHENYLETHER	380 U	410 U	540 U	350 U	360 U	360 U	
4-METHYLPHENOL	380 U	410 U	540 U	350 U	360 U	360 U	
4-NITROANILINE	1900 U	2100 U	2700 U	1700 U	1800 U	1700 U	
4-NITROPHENOL	1900 U	2100 U	2700 U	1700 U	1800 U	1700 U	
4,6-DINITRO-2-METHYLPHENOL	1900 U	2100 U	2700 U	1700 U	1800 U	1700 U	
SURR 1(NBZ) %RECOVERY	41	51	28	13 *	12 *	11 *	
SURR 2(FBP) %RECOVERY	43	34	32	16 *	15 *	13 *	
SURR 3(TPH) %RECOVERY	66	54	44	23	21	19	
SURR 4(PHL) %RECOVERY	44	35	32	15 *	14 *	13 *	
SURR 5(2FP) %RECOVERY	52	40	37	20 *	16 *	16 *	
SURR 6(TBP) %RECOVERY	65	49	46	21	21	19	

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TABLE D.6.18 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL011388

DRAFT DO NOT CITE

AREA	GSA AREA WELLS LL036075B 9	GSA AREA WELLS LL036086B 9	STP MAIN POND LL038055B 10	GSA AREA GSA AREA LL031070B 6	GSA AREA GSA AREA LL031025B 6	GSA AREA GSA AREA LL031092B 6
M/E 68-1						
M/E 68-2						
M/E 69						
M/E 70-1						
M/E 70-2						
M/E 127						
M/E 197						
M/E 198						
M/E 199						
M/E 275						
M/E 365						
M/E 441						
M/E 442						
M/E 443-1						
M/E 443-2						
INTERNAL STD AREA(ANT)	46000	47400	51300	51600	60400	52100
INTERNAL STD AREA(CRY)	35000	37200	41700	52300	40700	48500
INTERNAL STD AREA(DCB)	27300	30200	30100	31700	32400	30700
INTERNAL STD AREA(NPT)	92300	100000	106000	103000	108000	112000
INTERNAL STD AREA(PHN)	75900	73100	83700	79600	69900	76100
INTERNAL STD AREA(PRY)	29300	30900	31600	37500	34500	35300
DILUTION FACTOR	1	1	1	1	1	1
PERCENT MOISTURE	12	19	38	4	7	4
ACTUAL(ALLOWED) EXTRACT TIME	4(14 D)	4(14 D)	7(14 D)	8(14 D)	8(14 D)	8(14 D)

TABLE D.6.19 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020288

DRAFT DO NOT CITE

AREA	QA RRF LL0128886	QA % RSD LL0128886	QA TUNED CALIBRATION LL0202885	QA CONTINUING CALIBRATION LL0202887	QA CONTINUING CAL %D LL0202887	QA ISTD RET SHIFT LL0202888	QA TIM ARROYO SECO ARROYOS SN002032B SOIL UG/KG 1
LOCATION							
TYPE OF LOCATION							
SAMPLE NUMBER							
MATRIX							
UNITS							
ENV PROBLEM NO							
ACENAPHTHENE	1.279	4.3		1.255	1.9		340 U
ACENAPHTHYLENE	1.946	5.5		1.888	3		340 U
ANTHRACENE	1.128	2.9		0.977	13.4		340 U
BENZO(A)ANTHRACENE	1.201	4.2		1.307	8.8		340 U
BENZO(A)PYRENE	1.283	12.3		1.363	6.2		340 U
BENZO(B)FLUORANTHENE	1.529	7.7		1.606	5.2		340 U
BENZO(G,H,I)PERYLENE	1.059	22.3		1.06	0.1		340 U
BENZO(K)FLUORANTHENE	1.26	13.4		1.555	23.4		340 U
BENZOIC ACID	0.227	5.3		0.225	0.9		1700 U
BENZYL ALCOHOL	1.134	3.6		1.163	2.6		340 U
BIS(2-CHLOROETHOXY)METHANE	0.517	2.7		0.49	5.2		340 U
BIS(2-CHLOROISOPROPYL)ETHER	2.033	3.5		2.178	7.1		340 U
BIS(2-CHOROETHYL)ETHER	1.915	8.3		1.695	11.5		340 U
BIS(2-ETHYLHEXYL)PHTHALATE	1.915	3.3		1.585	17.2		310000 U
BUTYL BENZYL PHTHALATE	1.244	4.7		1.037	16.6		340 U
CHRYSENE	1.139	41		1.304	14.5		340 U
DI-N-BUTYLPHTHALATE	1.669	5.5		1.502	10		340 U
DI-N-OCTYLPHTHALATE	3.753	6.5		3.58	4.6		340 U
DIBENZ(A,H)ANTHRACENE	0.97	50.7		0.998	2.9		340 U
DIBENZOFURAN	1.817	7.4		1.804	0.7		340 U
DIETHYLPHTHALATE	1.553	3.5		1.436	7.5		340 U
DIMETHYLPHTHALATE	1.474	3.9		1.491	1.2		340 U
FLUORANTHENE	0.879	2.8		1.071	21.8		340 U
FLUORENE	1.148	1.4		1.284	11.8		340 U
HEXACHLOROBENZENE	0.236	5.5		0.192	18.6		340 U
HEXACHLOROBUTADIENE	0.125	9		0.153	22.4		340 U
HEXACHLOROCYCLOPENTADIENE	0.194	9.4		0.193	0.5		340 U
HEXACHLOROETHANE	0.704	3		0.697	1		340 U
INDENO(1,2,3-CD)PYRENE	1.213	24.1		1.263	4.1		340 U
ISOPHORONE	0.849	3.7		0.803	5.4		340 U
N-NITROSO-DI-N-PROPYLAMINE	0.543	3.6		0.473	12.9		340 U
N-NITROSDIPHENYLAMINE	0.579	7.4		0.525	9.3		340 U
NAPHTHALENE	0.998	17		1.057	5.9		340 U
NITROBENZENE	0.428	1.7		0.415	3		340 U
NITROBENZENE-D5	0.397	1.2		0.39	1.8		340 U
PENTACHLOROPHENOL	0.15	5.3		0.142	5.3		1700 U
PHENANTHRENE	1.109	3.6		1.025	7.6		340 U
PHENOL	2.148	3.2		2.069	3.7		340 U
PHENOL-D5	1.676	2		1.607	4.1		

TABLE D.6.19 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020288

DRAFT DO NOT CITE

TABLE D.6.19 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020288

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	INITIAL CAL RRF LL0128886	INITIAL CAL % RSD LL0128886	TUNED CALIBRATION LL0202885	CONTINUING CALIBRATION LL0202887	CONTINUING CAL %D LL0202887	ISTD SHIFT LL0202888	RET TIM ARROYO SECO ARROYOS SN002032B SOIL UG/KG 1
M/E 51			37				
M/E 68-1			0				
M/E 68-2			0				
M/E 69			44				
M/E 70-1			0				
M/E 70-2			0				
M/E 127			54				
M/E 197			0				
M/E 198			100				
M/E 199			5.8				
M/E 275			23				
M/E 365			3.5				
M/E 441			6.1				
M/E 442			44				
M/E 443-1			7.6				
M/E 443-2			17				
INTERNAL STD AREA(ANT)					60600	63200	
INTERNAL STD AREA(CRY)					52900	2970	
INTERNAL STD AREA(DCB)					34400	39500	
INTERNAL STD AREA(NPT)					136000	141000	
INTERNAL STD AREA(PHN)					94400	93100	
INTERNAL STD AREA(PRY)					39800	41000	
DILUTION FACTOR							1
PERCENT MOISTURE							2
ACTUAL(ALLOWED) EXTRACT TIME							6(14 D)

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	GSA AREA GSA AREA LL031150B	GSA AREA GSA AREA LL031149B	GSA AREA GSA AREA LL031014B	ARROYO SECO ARROYOS SN003022B	ARROYO SECO ARROYOS SN001019B
ACENAPHTHENE	3800 U	3700 U	3600 U	350 U	350 U

TABLE D.6.19 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020288

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	GSA AREA GSA AREA LL031150B	GSA AREA GSA AREA LL031149B	GSA AREA GSA AREA LL031014B	ARROYO SECO ARROYOS SN003022B	ARROYO SECO ARROYOS SN001019B
	6	6	6	1	1
ACENAPHTHYLENE	3800 U	3700 U	3600 U	350 U	350 U
ANTHRACENE	5800 U	3700 U	3600 U	350 U	350 U
BENZO(A)ANTHRACENE	3800 U	3700 U	3600 U	350 U	350 U
BENZO(A)PYRENE	3800 U	3700 U	3600 U	350 U	350 U
BENZO(B)FLUORANTHENE	3800 U	3700 U	3600 U	350 U	350 U
BENZO(G,H,I)PERYLENE	3800 U	3700 U	3600 U	350 U	350 U
BENZO(K)FLUORANTHENE	3800 U	3700 U	3600 U	350 U	350 U
BENZOIC ACID	19000 U	19000 U	18000 U	1800 U	1700 U
BENZYL ALCOHOL	3800 U	3700 U	3600 U	350 U	350 U
BIS(2-CHLOROETHOXY)METHANE	3800 U	3700 U	3600 U	350 U	350 U
BIS(2-CHLORODISOPROPYL)ETHER	3800 U	3700 U	3600 U	350 U	350 U
BIS(2-CHLOROETHYL)ETHER	3800 U	3700 U	3600 U	350 U	350 U
BIS(2-ETHYLHEXYL)PHTHALATE	1700 JD	1200 JD	5500 D	50 J	60 J
BUTYLBENZYLPHthalate	3800 U	3700 U	3600 U	350 U	350 U
CHRYSENE	3800 U	3700 U	3600 U	350 U	350 U
DI-N-BUTYLPHTHALATE	3800 U	3700 U	3600 U	50 J	350 U
DI-N-DODECYLPHTHALATE	3800 U	3700 U	3600 U	350 U	350 U
DIBENZ(A,H)ANTHRACENE	3800 U	3700 U	3600 U	350 U	350 U
DIBENZOFURAN	3800 U	3700 U	3600 U	350 U	350 U
DIETHYLPHthalate	3800 U	3700 U	3600 U	350 U	350 U
DIMETHYLPHthalate	3800 U	3700 U	3600 U	350 U	350 U
FLUORANTHENE	600 JD	3700 U	3600 U	350 U	350 U
FLUORENE	3800 U	3700 U	3600 U	350 U	350 U
HEXACHLOROBENZENE	3800 U	3700 U	3600 U	350 U	350 U
HEXACHLOROBUTADIENE	3800 U	3700 U	3600 U	350 U	350 U
HEXACHLOROCYCLOPENTADIENE	3800 U	3700 U	3600 U	350 U	350 U
HEXACHLOROETHANE	3800 U	3700 U	3600 U	350 U	350 U
INDENO(1,2,3-CD)PYRENE	3800 U	3700 U	3600 U	350 U	350 U
ISOPHORONE	3800 U	3700 U	3600 U	350 U	350 U
N-NITROSO-DI-N-PROPYLAMINE	3800 U	3700 U	3600 U	350 U	350 U
N-NITROSODIPHENYLAMINE	3800 U	3700 U	3600 U	350 U	350 U
NAPHTHALENE	3800 U	3700 U	3600 U	350 U	350 U
NITROBENZENE	3800 U	3700 U	3600 U	350 U	350 U
NITROBENZENE-D5					
PENTACHLOROPHENOL	19000 U	19000 U	18000 U	1800 U	1700 U
PHENANTHRENE	500 JD	3700 U	3600 U	350 U	350 U
PHENOL	3800 U	3700 U	3600 U	350 U	350 U
PHENOL-D5					
PYRENE	3800 U	3700 U	3600 U	350 U	350 U

TABLE D.6.19 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020288

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	GSA AREA GSA AREA LL031150B	GSA AREA GSA AREA LL031149B	GSA AREA GSA AREA LL031014B	ARROYO SECO ARROYOS SN003022B	ARROYO SECO ARROYOS SN001019B
	6	6	6	1	1
TERPHENYL-D14					
1,2-DICHLOROBENZENE	3800 U	3700 U	3600 U	350 U	350 U
1,2,4-TRICHLOROBENZENE	3800 U	3700 U	3600 U	350 U	350 U
1,3-DICHLOROBENZENE	3800 U	3700 U	3600 U	350 U	350 U
1,4-DICHLOROBENZENE	3800 U	3700 U	3600 U	350 U	350 U
2-CHLORONAPHTHALENE	3800 U	3700 U	3600 U	350 U	350 U
2-CHLOROPHENOL	3800 U	3700 U	3600 U	350 U	350 U
2-FLUOROBIPHENYL					
2-FLUOROPHENOL					
2-METHYLNAPHTHALENE	3800 U	3700 U	3600 U	350 U	350 U
2-METHYLPHENOL	3800 U	3700 U	3600 U	350 U	350 U
2-NITROANILINE	19000 U	19000 U	18000 U	1800 U	1700 U
2-NITROPHENOL	3800 U	3700 U	3600 U	350 U	350 U
2,4-DICHLOROPHENOL	3800 U	3700 U	3600 U	350 U	350 U
2,4-DIMETHYLPHENOL	3800 U	3700 U	3600 U	350 U	350 U
2,4-DINITROPHENOL	19000 U	19000 U	18000 U	1800 U	1700 U
2,4-DINITROTOLUENE	3800 U	3700 U	3600 U	350 U	350 U
2,4,5-TRICHLOROPHENOL	19000 U	19000 U	18000 U	1800 U	1700 U
2,4,6-TRIBROMOPHENOL					
2,4,6-TRICHLOROPHENOL	3800 U	3700 U	3600 U	350 U	350 U
2,6-DINITROTOLUENE	3800 U	3700 U	3600 U	350 U	350 U
3-NITROANILINE	19000 U	19000 U	18000 U	1800 U	1700 U
3,3'-DICHLOROBENZIDINE	7500 U	7500 U	7200 U	700 U	690 U
4-BROMOPHENYL-PHENYLETHER	3800 U	3700 U	3600 U	350 U	350 U
4-CHLORO-3-METHYLPHENOL	3800 U	3700 U	3600 U	350 U	350 U
4-CHLOROANILINE	3800 U	3700 U	3600 U	350 U	350 U
4-CHLOROPHENYL-PHENYLETHER	3800 U	3700 U	3600 U	350 U	350 U
4-METHYLPHENOL	3800 U	3700 U	3600 U	350 U	350 U
4-NITROANILINE	19000 U	19000 U	18000 U	1800 U	1700 U
4-NITROPHENOL	19000 U	19000 U	18000 U	1800 U	1700 U
4,6-DINITRO-2-METHYLPHENOL	19000 U	19000 U	18000 U	1800 U	1700 U
SURR 1(NBZ) %RECOVERY	4 D	1 D	0 D	20 *	21 *
SURR 2(FBP) %RECOVERY	4 D	2 D	0 D	26 *	20 *
SURR 3(TPH) %RECOVERY	4 D	3 D	0 D	27	17 *
SURR 4(PHL) %RECOVERY	4 D	2 D	0 D	23 *	21 *
SURR 5(2FP) %RECOVERY	4 D	1 D	0 D	20 *	21 *
SURR 6(TBP) %RECOVERY	6 D	4 D	0 D	28	15 *

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TABLE D.6.19 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020288

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	GSA AREA GSA AREA LL031150B	GSA AREA GSA AREA LL031149B	GSA AREA GSA AREA LL031014B	ARROYO SECO ARROYOS SN003022B	ARROYO SECO ARROYOS SN001019B
	SOIL UG/KG 6	SOIL UG/KG 6	SOIL UG/KG 6	SOIL UG/KG 1	SOIL UG/KG 1

M/E 68-1  
 M/E 68-2  
 M/E 69  
 M/E 70-1  
 M/E 70-2  
 M/E 127  
 M/E 197  
 M/E 198  
 M/E 199  
 M/E 275  
 M/E 365  
 M/E 441  
 M/E 442  
 M/E 443-1  
 M/E 443-2

INTERNAL STD AREA(ANT)	47200	47300	44100	57800	59800
INTERNAL STD AREA(CRY)	54800	40000	45400	54100	63100
INTERNAL STD AREA(DCB)	30500	29800	28900	35600	35100
INTERNAL STD AREA(NPT)	103000	105000	96800	129000	130000
INTERNAL STD AREA(PHN)	70400	71100	65700	90600	90200
INTERNAL STD AREA(PRY)	37500	33300	30200	50300	50100

DILUTION FACTOR	0.1	0.1	0.1	1	1
PERCENT MOISTURE	11	11	7	5	4
ACTUAL ALLOWED EXTRACT TIME	9(14 D)	8(14 D)	8(14 D)	6(14 D)	5(14 D)

TABLE D.6.20 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020388

DRAFT DO NOT CITE

AREA	QA RRF LL0128886	QA X RSD LL0128886	QA TUNED CALIBRATION LL0203885	QA CONTINUING CALIBRATION LL0203887	QA CONTINUING CAL %D LL0203887	ISTD RET SHIFT LL0203888	TIM	ARROYO SECO
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	RRF	X	%	RRF	%	AREA	SOIL UG/KG 1	ARROYOS SN001031B
ACENAPHTHENE	0.998	17		1.249	2.3		350	U
ACENAPHTHYLENE	0.279	6.8		1.867	4.1		350	U
ANTHRACENE	1.128	2.9		0.939	16.8		350	U
BENZO(A)ANTHRACENE	1.201	4.2		1.204	0.2		350	U
BENZO(A)PYRENE	1.283	12.3		1.137	11.4		350	U
BENZO(B)FLUORANTHENE	1.529	7.7		1.271	16.9		350	U
BENZO(G,H,I)PERYLENE	1.059	22.3		1.003	5.3		350	U
BENZO(K)FLUORANTHENE	1.26	13.4		1.022	18.9		350	U
BENZOIC ACID	0.704	3		0.222	2.2		1730	U
BENZYL ALCOHOL	1.134	3.6		1.142	0.7		350	U
BIS(2-CHLOROETHOXY)METHANE	0.428	1.7		0.517	0		350	U
BIS(2-CHLOROISOPROPYL)ETHER	1.372	2.6		2.241	10.2		350	U
BIS(2-CHOROETHYL)ETHER	1.915	8.3		1.854	3.2		350	U
BIS(2-ETHYLHEXYL)PHTHALATE	1.915	3.3		1.479	22.8		790	U
BUTYL BENZYL PHTHALATE	1.244	4.7		0.919	26.1		350	U
CHRYSENE	1.139	41		1.17	2.7		350	U
DI-N-BUTYL PHTHALATE	1.669	5.5		1.416	15.2		350	U
DI-N-OCTYL PHTHALATE	3.753	6.5		2.932	21.9		350	U
DIBENZ(A,H)ANTHRACENE	0.97	50.7		0.979	0.9		350	U
DIBENZOFURAN	1.817	7.4		2.005	10.3		350	U
DIETHYL PHTHALATE	1.553	3.5		1.557	0.3		350	U
DIMETHYL PHTHALATE	0.301	3.7		1.544	4.7		350	U
FLUORANTHENE	0.879	2.8		0.999	13.7		350	U
FLUORENE	1.148	1.4		1.229	7.1		350	U
HEXA CHLOROBENZENE	0.236	5.5		0.199	15.7		350	U
HEXA CHLOROBUTADIENE	0.252	24.8		0.146	16.8		350	U
HEXA CHLOROCYCLOPENTADIENE	0.227	5.3		0.166	14.4		350	U
HEXA CHLOROETHANE	1.438	3.1		0.688	2.3		350	U
INDENO(1,2,3-CD)PYRENE	1.213	24.1		1.134	6.5		350	U
ISOPHORONE	0.543	3.6		0.869	2.4		350	U
N-NITROSO-DI-N-PROPYLAMINE	2.033	3.5		0.53	2.4		350	U
N-NITROSODIPHENYLAMINE	0.579	7.4		0.478	17.4		350	U
NAPHTHALENE	0.849	3.7		1.111	11.3		350	U
NITROBENZENE	1.438	3.1		0.415	3		350	U
NITROBENZENE-D5	0.397	1.2		0.392	1.3		1730	U
PENTACHLOROPHENOL	0.15	5.3		0.129	14		350	U
PHENANTHRENE	1.109	3.6		0.965	13		350	U
PHENOL	2.148	3.2		2.051	4.5		350	U
PHENOL-D5	1.676	2		1.625	3			

TABLE D.6.20 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020388

AREA	QA INITIAL CAL RRF LL0128886	QA % RSD LL0128886	QA TUNED CALIBRATION LL0203885	QA CONTINUING CALIBRATION LL0203887	QA CONTINUING CAL X/D LL0203887	QA ISTD SHIFT LL0203888	RET AREA	TIM	ARROYO SECO
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	RRF	%	%	RRF	%	1	SOIL	UG/KG	ARROYOS SN001031B
PYRENE	1.776	6.4		1.544	13.1			350	U
TERPHENYL-D14	0.94	3.5		0.878	6.6			350	U
1,2-DICHLOROBENZENE	1.581	6.2		1.585	0.3			350	U
1,2,4-TRICHLOROBENZENE	0.849	3.7		0.326	16.8			350	U
1,3-DICHLOROBENZENE	1.615	5.8		1.611	0.2			350	U
1,4-DICHLOROBENZENE	1.665	6.4		1.679	0.8			350	U
2-CHLORONAPHTHALENE	0.517	2.7		1.252	7.8			350	U
2-CHLOROPHENOL	1.718	3.4		1.673	2.6			350	U
2-FLUOROBIPHENYL	1.225	3.3		1.229	0.3			350	U
2-FLUOROPHENOL	1.485	3.2		1.44	3			350	U
2-METHYLNAPHTHALENE	0.399	3.7		0.722	11.9			350	U
2-METHYLPHENOL	1.372	2.6		1.317	4			350	U
2-NITROANILINE	0.301	3.7		0.513	3			1730	U
2-NITROPHENOL	0.543	3.6		0.279	10.7			350	U
2,4-DICHLOROPHENOL	0.428	1.7		0.336	11.6			350	U
2,4-DIMETHYLPHENOL	0.704	3		0.381	4.5			350	U
2,4-DINITROPHENOL	0.352	25.9		0.105	10.3			1730	U
2,4-DINITROTOLUENE	0.388	4.3		0.423	9			350	U
2,4,5-TRICHLOROPHENOL	0.517	2.7		0.377	5			1730	U
2,4,6-TRIBROMOPHENOL	0.122	6.2		0.127	4.1			350	U
2,4,6-TRICHLOROPHENOL	0.227	5.3		0.426	15.1			350	U
2,6-DINITROTOLUENE	0.279	6.8		0.326	0.9			350	U
3-NITROANILINE	0.998	17		0.181	17.4			1730	U
3,5'-DICHLOROBENZIDINE	0.239	9.2		0.227	5			690	U
4-BROMOPHENYL-PHENYLETHER	0.213	2.4		0.188	11.7			350	U
4-CHLORO-3-METHYLPHENOL	0.399	3.7		0.384	10.7			350	U
4-CHLOROANILINE	0.252	24.8		0.372	5.7			350	U
4-CHLOROPHENYL-PHENYLETHER	0.469	4.9		0.567	20.9			350	U
4-METHYLPHENOL	2.033	3.5		1.411	1.9			1730	U
4-NITROANILINE	0.143	34.3		0.098	31.5			1730	U
4-NITROPHENOL	0.352	25.9		0.18	2.3			1730	U
4,6-DINITRO-2-METHYLPHENOL	0.133	8.1		0.109	18			1730	U
SURR 1(NBZ) %RECOVERY								24	
SURR 2(FBP) %RECOVERY								23	X
SURR 3(TPH) %RECOVERY								25	
SURR 4(PHL) %RECOVERY								25	
SURR 5(2FP) %RECOVERY								23	X
SURR 6(TBP) %RECOVERY								17	X

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TABLE D.6.20 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020388

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	CONTINUING	CONTINUING	ISTD RET	TIM
TYPE OF LOCATION	RRF	% RSD	CALIBRATION	CALIBRATION	CAL %D	SHIFT	ARROYO SECO
SAMPLE NUMBER	LL0128886	LL0128886	LL0203885	LL0203887	LL0203887	LL0203888	ARROYOS
MATRIX							SN001031B
UNITS	RRF	X	%	RRF	%	AREA	SOIL
ENV PROBLEM NO							UG/KG
							1
M/E 51			43				
M/E 68-1			0				
M/E 68-2			0				
M/E 69			48				
M/E 70-1			0				
M/E 70-2			0				
M/E 127			57				
M/E 197			0				
M/E 198			100				
M/E 199			6.5				
M/E 275			20				
M/E 365			2.7				
M/E 441			6.7				
M/E 442			45				
M/E 443-1			8.4				
M/E 443-2			19				
INTERNAL STD AREA(ANT)				50200		61700	
INTERNAL STD AREA(CRY)				50000		63600	
INTERNAL STD AREA(DCB)				26900		34100	
INTERNAL STD AREA(NPT)				103000		127000	
INTERNAL STD AREA(PHN)				82000		107000	
INTERNAL STD AREA(PRY)				48000		47100	
DILUTION FACTOR							1
PERCENT MOISTURE							4
ACTUAL(ALLOWED) EXTRACT TIME						5(14 D)	
AREA							
LOCATION	ARROYO SECO	ARROYO SECO	GSA AREA	ARROYO SECO	GSA AREA		
TYPE OF LOCATION	ARROYOS	ARROYOS	GSA AREA	ARROYOS	GSA AREA		
SAMPLE NUMBER	SN001020B	SN003011B	LL031047B	SN003033B	LL031116B		
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL		
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG		
ENV PROBLEM NO	1	1	6	1	6		
ACENAPHTHENE	350 U	360 U	380	350 U	3500 U		

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TABLE D.6.20 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020388

## AREA

LOCATION  
TYPE OF LOCATION  
SAMPLE NUMBER  
MATRIX  
UNITS  
ENV PROBLEM NO

	ARROYO SECO ARROYOS SN001020B	ARROYO SECO ARROYOS SN003011B	GSA AREA GSA AREA LL031047B	ARROYO SECO ARROYOS SN003033B	GSA AREA GSA AREA LL031116B
	1 UG/KG	1 UG/KG	6 UG/KG	1 UG/KG	6 UG/KG
ACENAPHTHYLENE	350 U	360 U	350 U	350 U	3500 U
ANTHRACENE	350 U	360 U	350 U	350 U	3500 U
BENZO(A)ANTHRACENE	350 U	360 U	350 U	350 U	3500 U
BENZO(A)PYRENE	350 U	360 U	350 U	350 U	3500 U
BENZO(B)FLUORANTHENE	350 U	360 U	350 U	350 U	3500 U
BENZO(G,H,I)PERYLENE	350 U	360 U	350 U	350 U	3500 U
BENZO(K)FLUORANTHENE	350 U	360 U	350 U	350 U	3500 U
BENZOIC ACID	1730 U	1800 U	1750 U	1700 U	17400 U
BENZYL ALCOHOL	350 U	360 U	350 U	350 U	3500 U
BIS(2-CHLOROETHOXY)METHANE	350 U	360 U	350 U	350 U	3500 U
BIS(2-CHLOROISOPROPYL)ETHER	350 U	360 U	350 U	350 U	3500 U
BIS(2-CHLOROETHYL)ETHER	350 U	360 U	350 U	350 U	3500 U
BIS(2-ETHYLHEXYL)PHTHALATE	50 J	40 J	350 U	50 J	700 JD
BUTYLBENZYLPHthalate	350 U	360 U	350 U	350 U	3500 U
CHRYSENE	350 U	360 U	350 U	350 U	3500 U
DI-N-BUTYLPHTHALATE	350 U	360 U	350 U	100 J	3500 U
DI-N-OCTYLPHTHALATE	350 U	360 U	350 U	350 U	3500 U
DIBENZ(A,H)ANTHRACENE	350 U	360 U	350 U	350 U	3500 U
DIBENZOFURAN	350 U	360 U	350 U	350 U	3500 U
DIETHYLPHthalate	350 U	360 U	350 U	350 U	3500 U
DIMETHYLPHthalate	350 U	360 U	350 U	350 U	3500 U
FLUORANTHENE	350 U	360 U	350 U	350 U	3500 U
FLUORENE	350 U	360 U	350 U	350 U	3500 U
HEXAChLOROBENZENE	350 U	360 U	350 U	350 U	3500 U
HEXAChLOROBUTADIENE	350 U	360 U	350 U	350 U	3500 U
HEXAChLOROCYCLOPENTADIENE	350 U	360 U	350 U	350 U	3500 U
HEXAChLOROETHANE	350 U	360 U	350 U	350 U	3500 U
INDENO(1,2,3-CD)PYRENE	350 U	360 U	350 U	350 U	3500 U
ISOPHORONE	350 U	360 U	360 U	350 U	3500 U
N-NITROSO-DI-N-PROPYLAMINE	350 U	360 U	330 J	350 U	3500 U
N-NITROSO-DIPHENYLAMINE	350 U	360 U	350 U	350 U	3500 U
NAPHTHALENE	350 U	360 U	350 U	350 U	3500 U
NITROBENZENE	350 U	360 U	350 U	350 U	3500 U
NITROBENZENE-D5	1730 U	1800 U	500	1700 U	17400 U
PENTACHLOROPHENOL	350 U	360 U	350 U	350 U	3500 U
PHENANTHRENE	350 U	360 U	530	350 U	3500 U
PHENOL	350 U	360 U	390	350 U	3500 U
PHENOL-D5					
PYRENE	350 U	360 U			

TABLE D.6.20 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020388

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ARROYO SECO ARROYOS SN001020B SOIL UG/KG 1	ARROYO SECO ARROYOS SN003011B SOIL UG/KG 1	GSA AREA GSA AREA LL031047B SOIL UG/KG 6	ARROYO SECO ARROYOS SN003033B SOIL UG/KG 1	GSA AREA GSA AREA LL031116B SOIL UG/KG 6
<b>TERPHENYL-D14</b>					
1,2-DICHLOROBENZENE	350 U	360 U	280 J	350 U	3500 U
1,2,4-TRICHLOROBENZENE	350 U	360 U	360	350 U	3500 U
1,3-DICHLOROBENZENE	350 U	360 U	350 U	350 U	3500 U
1,4-DICHLOROBENZENE	350 U	360 U	260 J	350 U	3500 U
2-CHLORONAPHTHALENE	350 U	360 U	350 U	350 U	3500 U
2-CHLOROPHENOL	350 U	360 U	590	350 U	3500 U
2-FLUOROBIPHENYL					
2-FLUOROPHENOL					
2-METHYLNAPHTHALENE	350 U	360 U	350 U	350 U	3500 U
2-METHYLPHENOL	350 U	360 U	350 U	350 U	3500 U
2-NITROANILINE	1730 U	1800 U	1750 U	1700 U	17400 U
2-NITROPHENOL	350 U	360 U	350 U	350 U	3500 U
2,4-DICHLOROPHENOL	350 U	360 U	350 U	350 U	3500 U
2,4-DIMETHYLPHENOL	350 U	360 U	350 U	350 U	3500 U
2,4-DINITROPHENOL	1730 U	1800 U	1750 U	1700 U	17400 U
2,4-DINITROTOLUENE	350 U	360 U	300 J	350 U	3500 U
2,4,5-TRICHLOROPHENOL	1730 U	1800 U	1750 U	1700 U	17400 U
2,4,6-TRIBROMOPHENOL					
2,4,6-TRICHLOROPHENOL	350 U	360 U	350 U	350 U	3500 U
2,6-DINITROTOLUENE	350 U	360 U	350 U	350 U	3500 U
3-NITROANILINE	1730 U	1800 U	1750 U	1700 U	17400 U
3,3'-DICHLOROBENZIDINE	690 U	720 U	700 U	690 U	6900 U
4-BROMOPHENYL-PHENYLETHER	350 U	360 U	350 U	350 U	3500 U
4-CHLORO-3-METHYLPHENOL	350 U	360 U	670	350 U	3500 U
4-CHLOROANILINE	350 U	360 U	350 U	350 U	3500 U
4-CHLOROPHENYL-PHENYLETHER	350 U	360 U	350 U	350 U	3500 U
4-METHYLPHENOL	350 U	360 U	350 U	350 U	3500 U
4-NITROANILINE	1730 U	1800 U	1750 U	1700 U	17400 U
4-NITROPHENOL	1730 U	1800 U	420	1700 U	17400 U
4,6-DINITRO-2-METHYLPHENOL	1730 U	1800 U	1750 U	1700 U	17400 U
<hr/>					
SURR 1(NBZ) %RECOVERY	24	20 *	10 *	23	4 D
SURR 2(FBP) %RECOVERY	24 *	21 *	11 *	27 *	4 D
SURR 3(TPH) %RECOVERY	24	28	13 *	32	4 D
SURR 4(PHL) %RECOVERY	22 *	18 *	10 *	22 *	3 D
SURR 5(2FP) %RECOVERY	19 *	17 *	8 *	20 *	5 D
SURR 6(TBP) %RECOVERY	15 *	29	13 *	39	6 D

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TABLE D.6.20 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020388

DRAFT DO NOT CITE

AREA	ARROYO SECO	ARROYO SECO	GSA AREA	ARROYO SECO	GSA AREA
LOCATION	ARROYOS	ARROYOS	GSA AREA	ARROYOS	GSA AREA
TYPE OF LOCATION	SN001020B	SN003011B	LL031047B	SN003033B	LL031116B
SAMPLE NUMBER					
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	1	6	1	6
M/E 68-1					
M/E 68-2					
M/E 69					
M/E 70-1					
M/E 70-2					
M/E 127					
M/E 197					
M/E 198					
M/E 199					
M/E 275					
M/E 365					
M/E 441					
M/E 442					
M/E 443-1					
M/E 443-2					
INTERNAL STD AREA(ANT)	64100	68700	72800	58600	45500
INTERNAL STD AREA(CRY)	63800	72300	79600	64800	50100
INTERNAL STD AREA(DCB)	41600	45600	39300	37500	31300
INTERNAL STD AREA(NPT)	142000	153000	151000	128000	99800
INTERNAL STD AREA(PHN)	98600	110000	113000	93700	75000
INTERNAL STD AREA(PRY)	49800	58700	64400	52700	38800
DILUTION FACTOR	1	1	1	1	0.1
PERCENT MOISTURE	4	7	5	4	4
ACTUAL(ALLOWED) EXTRACT TIME	5(14 D)	6(14 D)	8(14 D)	6(14 D)	8(14 D)

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TABLE D.6.21 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020488

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	INITIAL CAL RRF LL0128886	INITIAL CAL % RSD LL0128886	ISTD RET TIM SHIFT LL0202888	TUNED CALIBRATION LL0204885	CONTINUING CALIBRATION LL0204887	CONTINUING CAL %D LL0204887	ISTD RET TIM SHIFT LL0204888
	RRF	X	AREA	%	RRF	X	AREA
ACENAPHTHENE	1.279	4.3			1.258	1.6	
ACENAPHTHYLENE	1.946	5.5			1.842	5.3	
ANTHRACENE	1.128	2.9			1.051	6.8	
BENZO(A)ANTHRACENE	1.201	4.2			1.197	0.3	
BENZO(A)PYRENE	1.283	12.3			1.323	3.1	
BENZO(B)FLUORANTHENE	1.529	7.7			1.433	6.3	
BENZO(G,H,I)PERYLENE	1.059	22.3			1.15	8.6	
BENZO(K)FLUORANTHENE	1.26	13.4			1.173	6.9	
BENZOIC ACID	0.227	5.3			0.236	4	
BENZYL ALCOHOL	1.134	3.6			1.082	4.6	
BIS(2-CHLOROETHOXY)METHANE	0.517	2.7			0.514	0.6	
BIS(2-CHLOROISOPROPYL)ETHER	2.033	3.5			2.015	0.9	
BIS(2-CHOROETHYL)ETHER	1.915	8.3			1.605	16.2	
BIS(2-ETHYLHEXYL)PHTHALATE	1.915	3.3			1.355	29.2	
BUTYLBENZYLPHthalate	1.244	4.7			0.897	27.9	
CHRYSENE	1.139	41			1.252	9.9	
DI-N-BUTYLPHthalate	1.669	5.5			1.455	12.8	
DI-N-OCTYLPHthalate	3.753	6.5			2.956	21.2	
DIBENZ(A,H)ANTHRACENE	0.97	50.7			1.077	11	
DIBENZOFURAN	1.817	7.4			1.781	2	
DIETHYLPHthalate	1.553	3.5			1.675	7.9	
DIMETHYLPHthalate	1.474	3.9			1.49	1.1	
FLUORANTHENE	0.879	2.8			1.03	17.2	
FLUORENE	1.148	1.4			1.184	3.1	
HEXACHLOROBENZENE	0.236	5.5			0.203	14	
HEXACHLOROBUTADIENE	0.125	9			0.153	22.4	
HEXACHLOROCYCLOPENTADIENE	0.194	9.4			0.16	17.5	
HEXAChloroethane	0.704	3			0.64	9.1	
INDENO(1,2,3-CD)PYRENE	1.213	24.1			1.26	3.9	
ISOPHORONE	0.849	3.7			0.835	1.6	
N-NITROSO-DI-N-PROPYLAMINE	0.543	3.6			0.475	12.5	
N-NITROSODIPHENYLAMINE	0.579	7.4			0.483	16.6	
NAPHTHALENE	0.998	17			1.124	12.6	
NITROBENZENE	0.428	1.7			0.409	4.4	
NITROBENZENE-D5	0.397	1.2			0.388	2.3	
PENTACHLOROPHENOL	0.15	5.3			0.139	7.3	
PHENANTHRENE	1.109	3.6			0.989	10.8	
PHENOL	2.148	3.2			1.978	7.9	
PHENOL-D5	1.676	2			1.537	8.3	

TABLE D.6.21 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020488

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	INITIAL CAL	INITIAL CAL	ISTD RET TIM	TUNED	CONTINUING	CONTINUING	ISTD RET TIM
TYPE OF LOCATION	RRF	X RSD	SHIFT	CALIBRATION	CALIBRATION	CAL XRD	SHIFT
SAMPLE NUMBER	LL0128886	LL0128886	LL0202888	LL0204885	LL0204887	LL0204887	LL0204888
MATRIX	RRF	X	AREA	X	RRF	X	AREA
UNITS							
ENV PROBLEM NO							
PYRENE	1.776	6.4			1.592	10.4	
TERPHENYL-D14	0.94	3.5			0.83	11.7	
1,2-DICHLOROBENZENE	1.581	6.2			1.468	7.1	
1,2,4-TRICHLOROBENZENE	0.279	6.8			0.305	9.3	
1,3-DICHLOROBENZENE	1.615	5.8			1.512	6.4	
1,4-DICHLOROBENZENE	1.665	6.4			1.471	11.7	
2-CHLORONAPHTHALENE	1.358	4.5			1.271	6.4	
2-CHLOROPHENOL	1.718	3.4			1.542	10.2	
2-FLUOROBIPHENYL	1.225	3.3			1.146	6.4	
2-FLUOROPHENOL	1.485	3.2			1.316	11.4	
2-METHYLNAPHTHALENE	9.9	9.9			0.682	5.7	
2-METHYLPHENOL	1.372	2.6			1.227	10.6	
2-NITROANILINE	0.498	3.3			0.51	2.4	
2-NITROPHENOL	0.252	24.8			0.272	7.9	
2,4-DICHLOROPHENOL	0.301	3.7			0.32	6.3	
2,4-DIMETHYLPHENOL	0.399	3.7			0.383	6.4	
2,4-DINITROPHENOL	0.117	9.6			0.11	6	
2,4-DINITROTOLUENE	0.388	4.3			0.388	7.0	
2,4,5-TRICHLOROPHENOL	0.359	5.8			0.385	7.2	
2,4,6-TRIBROMOPHENOL	0.122	6.2			0.129	5.7	
2,4,6-TRICHLOROPHENOL	0.37	3.2			0.371	0.3	
2,6-DINITROTOLUENE	0.323	5.5			0.327	1.2	
3-NITROANILINE	0.219	24.8			0.197	10	
3,3'-DICHLOROBENZIDINE	0.259	9.2			0.259	8.4	
4-BROMOPHENYL-PHENYLETHER	0.213	2.4			0.201	5.6	
4-CHLORO-3-METHYLPHENOL	0.347	2.3			0.389	12.1	
4-CHLOROANILINE	0.352	25.9			0.377	7.1	
4-CHLOROPHENYL-PHENYLETHER	0.469	4.9			0.521	11.1	
4-METHYLPHENOL	1.438	3.1			1.334	7.2	
4-NITROANILINE	0.143	34.3			0.114	20.3	
4-NITROPHENOL	0.176	3.7			0.18	2.3	
4,6-DINITRO-2-METHYLPHENOL	0.133	8.1			0.115	13.5	
SURR 1(NBZ) %RECOVERY							
SURR 2(FBP) %RECOVERY							
SURR 3(THP) %RECOVERY							
SURR 4(PHL) %RECOVERY							
SURR 5(2FP) %RECOVERY							
SURR 6(TBP) %RECOVERY							

TABLE D.6.21 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020488

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	INITIAL CAL	INITIAL CAL	ISTD RET TIM	TUNED	CONTINUING	CONTINUING	ISTD RET TIM
TYPE OF LOCATION	RRF	% RSD	SHIFT	CALIBRATION	CALIBRATION	CAL %D	SHIFT
SAMPLE NUMBER	LL0128886	LL0128886	LL0202888	LL0204885	LL0204887	LL0204887	LL0204888
MATRIX							
UNITS	RRF	%	AREA	%	RRF	%	AREA
ENV PROBLEM NO							
M/E 51				41			
M/E 68-1				0			
M/E 68-2				0			
M/E 69				48			
M/E 70-1				0			
M/E 70-2				0			
M/E 127				55			
M/E 197				0			
M/E 198				100			
M/E 199				5.6			
M/E 275				20			
M/E 365				3.3			
M/E 441				5.2			
M/E 442				44			
M/E 443-1				8.7			
M/E 443-2				20			
INTERNAL STD AREA(ANT)							63000
INTERNAL STD AREA(CRY)				66400			
INTERNAL STD AREA(DCB)							35400
INTERNAL STD AREA(NPT)							126000
INTERNAL STD AREA(PHN)				100000			
INTERNAL STD AREA(PRY)				57900			
DILUTION FACTOR							
PERCENT MOISTURE							
ACTUAL(ALLOWED) EXTRACT TIME							
AREA							
LOCATION	ARROYO SECO	GSA AREA	GSA AREA	GSA AREA			
TYPE OF LOCATION	ARROYOS	GSA AREA	GSA AREA	GSA AREA			
SAMPLE NUMBER	SN002010B	LL031105B	LL031058B	LL031036B			
MATRIX	SOIL	SOIL	SOIL	SOIL			
UNITS	UG/KG	UG/KG	UG/KG	UG/KG			
ENV PROBLEM NO	1	6	6	6			
ACENAPHTHENE	460 U	3500 U	3500 U	3400 U			

TABLE D.6.21 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020488

DRAFT DO NOT CITE

## AREA

LOCATION	ARROYO SECO	GSA AREA	GSA AREA	GSA AREA
TYPE OF LOCATION	ARROYOS	GSA AREA	GSA AREA	GSA AREA
SAMPLE NUMBER	SN002010B	LL031105B	LL031058B	LL031036B
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	6	6	6

ACENAPHTHYLENE		3500 U	3500 U	3400 U
ANTHRACENE	460 U	3500 U	3500 U	3400 U
BENZO(A)ANTHRACENE	460 U	3500 U	3500 U	3400 U
BENZO(A)PYRENE	460 U	3500 U	3500 U	3400 U
BENZO(B)FLUORANTHENE	460 U	3500 U	3500 U	3400 U
BENZO(G,H,I)PERYLENE	460 U	3500 U	3500 U	3400 U
BENZO(K)FLUORANTHENE	460 U	3500 U	3500 U	3400 U
BENZOIC ACID	2300 U	17000 U	17000 U	17000 U
BENZYL ALCOHOL	460 U	3500 U	3500 U	3400 U
BIS(2-CHLOROETHoxy)METHANE	460 U	3500 U	3500 U	3400 U
BIS(2-CHLORoisOPROPYL)ETHER	460 U	3500 U	3500 U	3400 U
BIS(2-CHOROETHYL)ETHER	460 U	3500 U	3500 U	3400 U
BIS(2-ETHYLHEXYL)PHTHALATE	460 U	690 JD	9300 D	12000 D
BUTYL BENZYL PHTHALATE	55 J	3500 U	3500 U	3400 U
CHRYSENE	460 U	3500 U	3500 U	3400 U
DI-N-BUTYL PHTHALATE	63 J	3500 U	3500 U	3400 U
DI-N-OCTYL PHTHALATE	460 U	3500 U	3500 U	3400 U
DIBENZ(A,H)ANTHRACENE	460 U	3500 U	3500 U	3400 U
DIBENZOFURAN	460 U	3500 U	3500 U	750 JD
DIETHYL PHTHALATE	2100 U	3500 U	3500 U	3400 JD
DIMETHYL PHTHALATE	460 U	3500 U	3500 U	3400 U
FLUORANTHENE	460 U	3500 U	3500 U	3400 U
FLUORENE	460 U	3500 U	3500 U	610 JD
HEXACHLOROBENZENE	460 U	3500 U	3500 U	3400 U
HEXACHLOROBUTADIENE	460 U	3500 U	3500 U	3400 U
HEXACHLOROCYCLOPENTADIENE	460 U	3500 U	3500 U	3400 U
HEXACHLOROETHANE	460 U	3500 U	3500 U	3400 U
INDENO(1,2,3-CD)PYRENE	460 U	3500 U	3500 U	3400 U
ISOPHORONE	460 U	3500 U	3500 U	3400 U
N-NITROSO-DI-N-PROPYLAMINE	460 U	3500 U	3500 U	3400 U
N-NITROSODIPHENYLAMINE	460 U	3500 U	3500 U	3400 U
NAPHTHALENE	460 U	3500 U	3500 U	3400 U
NITROBENZENE	460 U	3500 U	3500 U	3400 U
NITROBENZENE-D5				
PENTACHLOROPHENOL	2300 U	17000 U	17000 U	17000 U
PHENANTHRENE	460 U	3500 U	3500 U	2700 JD
PHENOL	460 U	3500 U	3500 U	3400 U
PHENOL-D5				
PYRENE	460 U	3500 U	3500 U	3400 U

TABLE D.6.21 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020488

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ARROYO SECO ARROYOS SN002010B	GSA AREA GSA AREA LL031105B	GSA AREA GSA AREA LL031058B	GSA AREA GSA AREA LL031036B
	1	6	6	6
TERPHENYL-D14				
1,2-DICHLOROBENZENE	460 U	3500 U	3500 U	3400 U
1,2,4-TRICHLOROBENZENE	460 U	3500 U	3500 U	3400 U
1,3-DICHLOROBENZENE	460 U	3500 U	3500 U	3400 U
1,4-DICHLOROBENZENE	460 U	3500 U	3500 U	3400 U
2-CHLORONAPHTHALENE	460 U	3500 U	3500 U	3400 U
2-CHLOROPHENOL	460 U	3500 U	3500 U	3400 U
2-FLUOROBIPHENYL				
2-FLUOROPHENOL				
2-METHYLNAPHTHALENE	460 U	3500 U	3500 U	590 JD
2-METHYLPHENOL	460 U	3500 U	3500 U	3400 U
2-NITROANILINE	2300 U	17000 U	17000 U	17000 U
2-NITROPHENOL	460 U	3500 U	3500 U	3400 U
2,4-DICHLOROPHENOL	460 U	3500 U	3500 U	3400 U
2,4-DIMETHYLPHENOL	460 U	3500 U	3500 U	3400 U
2,4-DINITROPHENOL	2300 U	17000 U	17000 U	17000 U
2,4-DINITROTOLUENE	460 U	3500 U	3500 U	3400 U
2,4,5-TRICHLOROPHENOL	2300 U	17000 U	17000 U	17000 U
2,4,6-TRIBROMOPHENOL				
2,4,6-TRICHLOROPHENOL	460 U	3500 U	3500 U	3400 U
2,6-DINITROTOLUENE	460 U	3500 U	3500 U	3400 U
3-NITROANILINE	2300 U	17000 U	17000 U	17000 U
3,3'-DICHLOROBENZIDINE	920 U	6900 U	6900 U	6900 U
4-BROMOPHENYL-PHENYLETHER	460 U	3500 U	3500 U	3400 U
4-CHLORO-3-METHYLPHENOL	460 U	3500 U	3500 U	3400 U
4-CHLOROANILINE	460 U	3500 U	3500 U	3400 U
4-CHLOROPHENYL-PHENYLETHER	460 U	3500 U	3500 U	3400 U
4-METHYLPHENOL	460 U	3500 U	3500 U	3400 U
4-NITROANILINE	2300 U	17000 U	17000 U	17000 U
4-NITROPHENOL	2300 U	17000 U	17000 U	17000 U
4,6-DINITRO-2-METHYLPHENOL	2300 U	17000 U	17000 U	17000 U
SURR 1(NBZ) %RECOVERY	1 X	4 D	2 D	4 D
SURR 2(FBP) %RECOVERY	1 X	4 D	1 D	3 D
SURR 3(TPH) %RECOVERY	22	4 D	2 D	0 D
SURR 4(PHL) %RECOVERY	4 X	2 D	2 D	3 D
SURR 5(2FP) %RECOVERY	1 X	4 D	3 D	0 D
SURR 6(TBP) %RECOVERY	23	7 D	2 D	6 D

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TABLE D.6.21 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020488

DRAFT DO NOT CITE

## AREA

LOCATION	ARROYO SECO	GSA AREA	GSA AREA	GSA AREA
TYPE OF LOCATION	ARROYOS	GSA AREA	GSA AREA	GSA AREA
SAMPLE NUMBER	SN002010B	LL031105B	LL031058B	LL031036B
MATRIX	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	6	6	6

M/E 68-1  
 M/E 68-2  
 M/E 69  
 M/E 70-1  
 M/E 70-2  
 M/E 127  
 M/E 197  
 M/E 198  
 M/E 199  
 M/E 275  
 M/E 365  
 M/E 441  
 M/E 442  
 M/E 443-1  
 M/E 443-2

INTERNAL STD AREA(ANT)	58200	52500	63600	54100
INTERNAL STD AREA(CRY)	72900	64000	59800	64100
INTERNAL STD AREA(DCB)	36400	34600	33500	33200
INTERNAL STD AREA(NPT)	124000	111000	113000	111000
INTERNAL STD AREA(PHN)	109000	93300	95000	82700
INTERNAL STD AREA(PRY)	61500	54400	54600	51800

DILUTION FACTOR	1	0.1	0.1	0.1
PERCENT MOISTURE	28	4	4	3
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)	8(14 D)	8(14 D)	8(14 D)

TABLE D.6.22 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020588

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	ISTD	RET	TIM	GSA	AREA
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	RET	TIM	GSA	GSA AREA	
TYPE OF LOCATION	RRF	% RSD	CALIBRATION	CALIBRATION	CAL %D	LL0205888	LL0205888	LL0205888	LL031081B	SOIL	
SAMPLE NUMBER	RRF	%	%	RRF	%	AREA	UG/KG	6		6	
MATRIX											
UNITS											
ENV PROBLEM NO											
ACENAPHTHENE	0.998	17		1.354	5.9					350	U
ACENAPHTHYLENE	0.279	6.8		1.979	1.7					350	U
ANTHRACENE	1.128	2.9								350	U
BENZO(A)ANTHRACENE	1.201	4.2								350	U
BENZO(A)PYRENE	1.283	12.3								350	U
BENZO(B)FLUORANTHENE	1.529	7.7								350	U
BENZO(G,H,I)PERYLENE	1.059	22.3								350	U
BENZO(K)FLUORANTHENE	1.26	13.4								350	U
BENZOIC ACID	0.704	3		0.218	4					1700	U
BENZYL ALCOHOL	1.134	3.6		1.012	10.8					350	U
BIS(2-CHLOROETHOXY)METHANE	0.428	1.7		0.497	3.9					350	U
BIS(2-CHLOROISOPROPYL)ETHER	1.372	2.6		1.969	3.1					350	U
BIS(2-CHOROETHYL)ETHER	1.915	8.3		1.647	14					350	U
BIS(2-ETHYLHEXYL)PHTHALATE	1.915	3.3								190	J
BUTYLBENZYLPHthalate	1.244	4.7								60	J
CHRYSENE	1.139	41								350	U
DI-N-BUTYLPHTHALATE	1.669	5.5								350	U
DI-N-OCTYLPHTHALATE	3.753	6.5								350	U
DIBENZ(A,H)ANTHRACENE	0.97	50.7								350	U
DIBENZOFURAN	1.817	7.4								350	U
DIETHYLPHthalate	1.553	3.5								350	U
DIMETHYLPHthalate	0.301	3.7		1.586	7.6					350	U
FLUORANTHENE	0.879	2.8								350	U
FLUORENE	1.148	1.4								350	U
HEXACHLOROBENZENE	0.236	5.5								350	U
HEXACHLOROBUTADIENE	0.252	24.8		0.153	22.4					350	U
HEXACHLOROCYCLOPENTADIENE	0.227	5.3		0.159	18					350	U
HEXACHLOROETHANE	1.438	3.1		0.6	14.8					350	U
INDENO(1,2,3-CD)PYRENE	1.213	24.1								350	U
ISOPHORONE	0.543	3.6		0.861	1.4					350	U
N-NITROSO-DI-N-PROPYLAMINE	2.033	3.5		0.444	18.2					350	U
N-NITROSODIPHENYLAMINE	0.579	7.4								350	U
NAPHTHALENE	0.849	3.7		1.063	6.5					350	U
NITROBENZENE	1.438	3.1		0.417	2.6					350	U
NITROBENZENE-D5	0.397	1.2									
PENTACHLOROPHENOL	0.15	5.3								1700	U
PHENANTHRENE	1.109	3.6								350	U
PHENOL	2.148	3.2		1.797	16.3					350	U
PHENOL-D5	1.676	2									

TABLE D.6.22 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020588

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	ISTD	RET	TIM	GSA	AREA
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	RET	TIM	GSA	AREA	
TYPE OF LOCATION	RRF	X RSD	CALIBRATION	CALIBRATION	CAL XRD	LL020588	LL020588	LL020588	LL031081B	SOIL	
SAMPLE NUMBER	LL0128886	LL0128886	LL0205885	LL0205887	LL0205887	LL020588	AREA	UG/KG	SOIL	UG/KG	
MATRIX								6			
UNITS											
ENV PROBLEM NO											
PYRENE	1.776	6.4								350	U
TERPHENYL-D14	0.94	3.5								350	U
1,2-DICHLOROBENZENE	1.581	6.2		1.387	12.3					350	U
1,2,4-TRICHLOROBENZENE	0.849	3.7		0.303	8.6					350	U
1,3-DICHLOROBENZENE	1.615	5.8		1.481	8.3					350	U
1,4-DICHLOROBENZENE	1.665	6.4		1.436	13.8					350	U
2-CHLORONAPHTHALENE	0.517	2.7		1.33	2.1					350	U
2-CHLOROPHENOL	1.718	3.4		1.451	15.5					350	U
2-FLUOROBIPHENYL	1.225	3.3									
2-FLUOROPHENOL	1.485	3.2									
2-METHYLNAPHTHALENE	0.399	3.7		0.688	6.7					350	U
2-METHYLPHENOL	1.372	2.6		1.183	13.8					350	U
2-NITROANILINE	0.301	3.7		0.573	15.1					1700	U
2-NITROPHENOL	0.543	3.6		0.201	20.2					350	U
2,4-DICHLOROPHENOL	0.428	1.7		0.311	3.3					350	U
2,4-DIMETHYLPHENOL	0.704	3		0.366	8.3					350	U
2,4-DINITROPHENOL	0.352	25.9		0.119	1.7					1700	U
2,4-DINITROTOLUENE	0.388	4.3								350	U
2,4,5-TRICHLOROPHENOL	0.517	2.7		0.398	10.9					1700	U
2,4,6-TRIBROMOPHENOL	0.122	6.2									
2,4,6-TRICHLOROPHENOL	0.227	5.3		0.405	9.5					350	U
2,6-DINITROTOLUENE	0.279	6.8		0.355	9.9					350	U
3-NITROANILINE	0.998	17		0.225	2.7					1700	U
3,3'-DICHLOROBENZIDINE	0.239	9.2								690	U
4-BROMOPHENYL-PHENYLETHER	0.213	2.4								350	U
4-CHLORO-3-METHYLPHENOL	0.399	3.7		0.395	13.8					350	U
4-CHLOROANILINE	0.252	24.8		0.345	2					350	U
4-CHLOROPHENYL-PHENYLETHER	0.469	4.9								350	U
4-METHYLPHENOL	2.033	3.5		1.231	14.4					350	U
4-NITROANILINE	0.143	34.3								1700	U
4-NITROPHENOL	0.352	25.9		0.189	7.4					1700	U
4,6-DINITRO-2-METHYLPHENOL	0.133	8.1								1700	U
SURR 1(NBZ) %RECOVERY										8	X
SURR 2(FBP) %RECOVERY										10	X
SURR 3(TPH) %RECOVERY										11	X
SURR 4(PHL) %RECOVERY										8	X
SURR 5(2FP) %RECOVERY										7	X
SURR 6(TBP) %RECOVERY										14	X

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TABLE D.6.22 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020588

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	INITIAL CAL RRF LL0128886	INITIAL CAL % RSD LL0128886	TUNED CALIBRATION LL0205885	CONTINUING CALIBRATION LL0205887	CONTINUING CAL %D LL0205887	ISTD RET SHIFT LL0205888	GSA AREA GSA AREA LL031081B SOIL UG/KG 6
M/E 51				38			
M/E 68-1				0			
M/E 68-2				0			
M/E 69				46			
M/E 70-1				0			
M/E 70-2				0			
M/E 127				53			
M/E 197				0			
M/E 198				100			
M/E 199				6.1			
M/E 275				22			
M/E 365				2.5			
M/E 441				5.6			
M/E 442				42			
M/E 443-1				7.6			
M/E 443-2				18			
INTERNAL STD AREA(ANT)					53700		52400
INTERNAL STD AREA(CRY)					61200		68000
INTERNAL STD AREA(DCB)					33900		33600
INTERNAL STD AREA(NPT)					119000		106000
INTERNAL STD AREA(PHN)					95800		86500
INTERNAL STD AREA(PRY)					54000		51600
DILUTION FACTOR							1
PERCENT MOISTURE							4
ACTUAL(ALLOWED) EXTRACT TIME							8(14 D)
AREA							
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	REANALYSIS SN002021B	GSA AREA GSA AREA LL031161B	GSA AREA GSA AREA LL031069B				
ACENAPHTHENE	350 U	3700 U	350 U				

TABLE D.6.22 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020588

## AREA

LOCATION  
TYPE OF LOCATION  
SAMPLE NUMBER  
MATRIX  
UNITS  
ENV PROBLEM NO

	REANALYSIS SN002021B	GSA AREA		GSA AREA	
		GSA AREA LL031161B	SOIL UG/KG	GSA AREA LL031069B	SOIL UG/KG
	1	6	6	6	
ACENAPHTHYLENE	350 U	3700 U	350 U		
ANTHRACENE	350 U	3700 U	350 U		
BENZO(A)ANTHRACENE	350 U	3700 U	350 U		
BENZO(A)PYRENE	350 U	3700 U	350 U		
BENZO(B)FLUORANTHENE	350 U	3700 U	350 U		
BENZO(G,H,I)PERYLENE	350 U	3700 U	350 U		
BENZO(K)FLUORANTHENE	350 U	3700 U	350 U		
BENZOIC ACID	350 U	3700 U	350 U		
BENZYL ALCOHOL	350 U	3700 U	350 U		
BIS(2-CHLOROETHOXY)METHANE	350 U	3700 U	350 U		
BIS(2-CHLOROISOPROPYL)ETHER	350 U	3700 U	350 U		
BIS(2-CHLOROETHYL)ETHER	350 U	3700 U	350 U		
BIS(2-ETHYLHEXYL)PHTHALATE	16000 U	6900 U	70 U		
BUTYL BENZYL PHTHALATE	350 U	3700 U	350 U		
CHRYSENE	350 U	3700 U	350 U		
DI-N-BUTYL PHTHALATE	350 U	3700 U	350 U		
DI-N-OCTYL PHTHALATE	350 U	3700 U	350 U		
DIBENZ(A,H)ANTHRACENE	350 U	3700 U	350 U		
DI BENZOFURAN	350 U	3700 U	350 U		
DIETHYL PHTHALATE	350 U	3700 U	350 U		
DIMETHYL PHTHALATE	350 U	3700 U	350 U		
FLUORANTHENE	350 U	3700 U	350 U		
FLUORENE	350 U	3700 U	350 U		
HEXA CHLOROBENZENE	350 U	3700 U	350 U		
HEXA CHLOROBUTADIENE	350 U	3700 U	350 U		
HEXA CHLOROCYCLOPENTADIENE	350 U	3700 U	350 U		
HEXA CHLOROETHANE	350 U	3700 U	350 U		
INDENO(1,2,3-CD)PYRENE	350 U	3700 U	350 U		
ISOPHORONE	350 U	3700 U	350 U		
N-NITROSO-DI-N-PROPYLAMINE	350 U	3700 U	350 U		
N-NITROSO-DIPHENYLAMINE	350 U	3700 U	350 U		
NAPHTHALENE	350 U	3700 U	350 U		
NITROBENZENE				1700 U	
NITROBENZENE-D5	1700 U	19000 U		350 U	
PENTACHLOROPHENOL	350 U	3700 U	350 U		
PHENANTHRENE	350 U	3700 U	350 U		
PHENOL	350 U	3700 U	350 U		
PHENOL-D5					
PYRENE					

TABLE D.6.22 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020588

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	REANALYSIS SN002021B SOIL UG/KG 1	GSA AREA GSA AREA LL031161B SOIL UG/KG 6	GSA AREA GSA AREA LL031069B SOIL UG/KG 6
TERPHENYL-D14			
1,2-DICHLOROBENZENE	350 U	3700 U	350 U
1,2,4-TRICHLOROBENZENE	350 U	3700 U	350 U
1,3-DICHLOROBENZENE	350 U	3700 U	350 U
1,4-DICHLOROBENZENE	350 U	3700 U	350 U
2-CHLORONAPHTHALENE	350 U	3700 U	350 U
2-CHLOROPHENOL	350 U	3700 U	350 U
2-FLUOROBIPHENYL			
2-FLUOROPHENOL			
2-METHYLNAPHTHALENE	350 U	3700 U	350 U
2-METHYLPHENOL	350 U	3700 U	550 U
2-NITROANILINE	1700 U	19000 U	1700 U
2-NITROPHENOL	350 U	3700 U	350 U
2,4-DICHLOROPHENOL	350 U	3700 U	350 U
2,4-DIMETHYLPHENOL	350 U	3700 U	350 U
2,4-DINITROPHENOL	1700 U	19000 U	1700 U
2,4-DINITROTOLUENE	350 U	3700 U	350 U
2,4,5-TRICHLOROPHENOL	1700 U	19000 U	1700 U
2,4,6-TRIBROMOPHENOL			
2,4,6-TRICHLOROPHENOL	350 U	3700 U	350 U
2,6-DINITROTOLUENE	350 U	3700 U	350 U
3-NITROANILINE	1700 U	19000 U	1700 U
3,3'-DICHLOROBENZIDINE	690 U	7500 U	690 U
4-BROMOPHENYL-PHENYLETHER	350 U	3700 U	350 U
4-CHLORO-3-METHYLPHENOL	350 U	3700 U	350 U
4-CHLOROANILINE	350 U	3700 U	350 U
4-CHLOROPHENYL-PHENYLETHER	350 U	3700 U	350 U
4-METHYLPHENOL	350 U	3700 U	350 U
4-NITROANILINE	1700 U	19000 U	1700 U
4-NITROPHENOL	1700 U	19000 U	1700 U
4,6-DINITRO-2-METHYLPHENOL	1700 U	19000 U	1700 U
SURR 1(NBZ) %RECOVERY	9 *	4 D	13 *
SURR 2(FBP) %RECOVERY	10 *	5 D	14 *
SURR 3(TPH) %RECOVERY	0 *	2 D	9 *
SURR 4(PHL) %RECOVERY	8 *	4 D	12 *
SURR 5(2FP) %RECOVERY	9 *	4 D	12 *
SURR 6(TBP) %RECOVERY	6 *	4 D	13 *

TABLE D.6.22 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020588

DRAFT DO NOT CITE

## AREA

LOCATION  
TYPE OF LOCATION  
SAMPLE NUMBER  
MATRIX  
UNITS  
ENV PROBLEM NO

REANALYSIS      GSA AREA      GSA AREA  
SN002021B      GSA AREA      GSA AREA  
SOIL            SOIL            SOIL  
UG/KG           UG/KG           UG/KG

M/E 68-1  
M/E 68-2  
M/E 69  
M/E 70-1  
M/E 70-2  
M/E 127  
M/E 197  
M/E 198  
M/E 199  
M/E 275  
M/E 365  
M/E 441  
M/E 442  
M/E 443-1  
M/E 443-2

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INTERNAL STD AREA(ANT)	24500	37400	47700
INTERNAL STD AREA(CRY)	23200	75200	78800
INTERNAL STD AREA(DCB)	34100	40600	44900
INTERNAL STD AREA(NPT)	96700	120000	130000
INTERNAL STD AREA(PHN)	13600	47500	62800
INTERNAL STD AREA(PRY)	59700	81700	82100

DILUTION FACTOR	1	0.1	1
PERCENT MOISTURE	4	11	4
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)	9(14 D)	8(14 D)

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TABLE D.6.23 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020988

DRAFT DO NOT CITE

AREA	QA RRF LL0128886	QA % RSD LL0128886	QA TUNED CALIBRATION LL0209885	QA CONTINUING CALIBRATION LL0209887	QA CONTINUING CAL %D LL0209887	QA ISTD SHIFT LL0209888	RET	TIM	GSA AREA GSA AREA LL031127B	AREA SOIL UG/KG 6
LOCATION										
TYPE OF LOCATION										
SAMPLE NUMBER										
MATRIX										
UNITS										
ENV PROBLEM NO	RRF	%	%	RRF	%	AREA				
ACENAPHTHENE	1.279	4.3		1.316	2.9				3500	U
ACENAPHTHYLENE	1.946	5.5		1.963	0.9				3500	U
ANTHRACENE	1.128	2.9		1.082	4.1				3500	U
BENZO(A)ANTHRACENE	1.201	4.2		1.201	0				3500	U
BENZO(A)PYRENE	1.283	12.3		1.195	6.9				3500	U
BENZO(B)FLUORANTHENE	1.529	7.7		1.425	6.8				3500	U
BENZO(G,H,I)PERYLENE	1.059	22.3		0.947	10.6				3500	U
BENZO(K)FLUORANTHENE	1.26	13.4		1.112	11.7				3500	U
BENZOIC ACID	0.227	5.3		0.232	2.2				17000	U
BENZYL ALCOHOL	1.134	3.6		1.276	12.5				3500	U
BIS(2-CHLOROETHOXY)METHANE	0.517	2.7		0.506	2.1				3500	U
BIS(2-CHLOROISOPROPYL)ETHER	2.033	3.5		1.673	17.7				3500	U
BIS(2-CHLOROETHYL)ETHER	1.915	8.3		1.861	2.8				3500	U
BIS(2-ETHYLHEXYL)PHTHALATE	1.915	3.3		1.675	12.5				3500	U
BUTYLBENZYLPHthalate	1.244	4.7		1.115	10.4				3500	U
CHRYSENE	1.139	41		1.298	14				3500	U
DI-N-BUTYLPHTHALATE	1.669	5.5		1.682	0.8				3500	U
DI-N-OCTYLPHTHALATE	3.753	6.5		3.514	6.4				3500	U
DIBENZ(A,H)ANTHRACENE	0.97	50.7		0.975	0.5				3500	U
DIBENZOFURAN	1.817	7.4		1.913	5.3				3500	U
DIETHYLPHthalate	1.553	3.5		1.596	2.8				3500	U
DIMETHYLPHthalate	1.474	3.9		1.444	2				3500	U
FLUORANTHENE	0.879	2.8		1.039	18.2				3500	U
FLUORENE	1.148	1.4		1.249	8.8				3500	U
HEXAChlorobenzene	0.236	5.5		0.213	9.7				3500	U
HEXAChlorobutadiene	0.125	9		0.137	9.6				3500	U
HEXAChlorocyclopentadiene	0.194	9.4		0.188	3.1				3500	U
HEXAChloroethane	0.704	3		0.674	4.3				3500	U
INDENO(1,2,3-CD)PYRENE	1.213	24.1		1.143	5.8				3500	U
ISOPHORONE	0.849	3.7		0.836	1.5				3500	U
N-NITROSO-DI-N-PROPYLAMINE	0.543	3.6		0.466	14.2				3500	U
N-NITROSODIPHENYLAMINE	0.579	7.4		0.581	0.3				3500	U
NAPHTHALENE	0.998	17		1.131	13.3				3500	U
NITROBENZENE	0.428	1.7		0.413	3.5				3500	U
NITROBENZENE-D5	0.397	1.2		0.396	0.3				3500	U
PENTACHLOROPHENOL	0.15	5.3		0.132	12				17000	U
PHENANTHRENE	1.109	3.6		1.117	0.7				3500	U
PHENOL	2.148	3.2		2.145	0.1				3500	U
PHENOL-D5	1.676	2		1.703	1.6					

TABLE D.6.23 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020988

DRAFT DO NOT CITE

AREA	QA RRF	QA % RSD	QA TUNED CALIBRATION LL0209885	QA CONTINUING CALIBRATION LL0209887	QA CONTINUING CAL XD LL0209887	QA ISTD SHIFT LL0209888	RET TIM	GSA AREA LL031127B
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	RRF	%	%	RRF	%	AREA	GSA AREA SOIL UG/KG 6	
PYRENE	1.776	6.4		1.71	3.7		3500	U
TERPHENYL-D14	0.94	3.5		0.888	5.5		3500	U
1,2-DICHLOROBENZENE	1.581	6.2		1.584	0.2		3500	U
1,2,4-TRICHLOROBENZENE	0.279	6.8		0.291	4.3		3500	U
1,3-DICHLOROBENZENE	1.615	5.8		1.616	0.1		3500	U
1,4-DICHLOROBENZENE	1.665	6.4		1.628	2.2		3500	U
2-CHLORONAPHTHALENE	1.358	4.5		1.305	3.9		3500	U
2-CHLOROPHENOL	1.718	3.4		1.7	1		3500	U
2-FLUOROBIPHENYL	1.225	3.3		1.179	3.8			
2-FLUOROPHENOL	1.485	3.2		1.514	2			
2-METHYLNAPHTHALENE	9.9	9.9		0.751	16.4		3500	U
2-METHYLPHENOL	1.372	2.6		1.427	4		3500	U
2-NITROANILINE	0.498	3.3		0.504	1.2		17000	U
2-NITROPHENOL	0.252	24.8		0.24	4.8		3500	U
2,4-DICHLOROPHENOL	0.301	3.7		0.305	1.3		3500	U
2,4-DIMETHYLPHENOL	0.399	3.7		0.41	2.8		3500	U
2,4-DINITROPHENOL	0.117	9.6		0.121	3.4		17000	U
2,4-DINITROTOLUENE	0.388	4.3		0.399	2.8		3500	U
2,4,5-TRICHLOROPHENOL	0.359	5.8		0.359	0		17000	U
2,4,6-TRIBROMOPHENOL	0.122	6.2		0.156	27.9			
2,4,6-TRICHLOROPHENOL	0.37	3.2		0.367	0.8		3500	U
2,6-DINITROTOLUENE	0.323	5.5		0.317	1.9		3500	U
3-NITROANILINE	0.219	24.8		0.266	21.5		17000	U
3,3'-DICHLOROBENZIDINE	0.239	9.2		0.242	1.3		6900	U
4-BROMOPHENYL-PHENYLETHER	0.213	2.4		0.185	13.1		3500	U
4-CHLORO-3-METHYLPHENOL	0.347	2.3		0.404	16.4		3500	U
4-CHLOROANILINE	0.352	25.9		0.462	31.3		3500	U
4-CHLOROPHENYL-PHENYLETHER	0.469	4.9		0.51	8.7		3500	U
4-METHYLPHENOL	1.438	3.1		1.509	4.9		3500	U
4-NITROANILINE	0.143	34.3		0.116	18.9		17000	U
4-NITROPHENOL	0.176	3.7		0.188	6.8		17000	U
4,6-DINITRO-2-METHYLPHENOL	0.133	8.1		0.125	6		17000	U
SURR 1(NBZ) %RECOVERY							1	D
SURR 2(FBP) %RECOVERY							0	D
SURR 3(TPH) %RECOVERY							1	D
SURR 4(PHL) %RECOVERY							0	D
SURR 5(2FP) %RECOVERY							1	D
SURR 6(TBP) %RECOVERY							0	D

TABLE D.6.23 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020988

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	INITIAL CAL RRF LL0128886	INITIAL CAL % RSD LL0128886	TUNED CALIBRATION LL0209885	CONTINUING CALIBRATION LL0209887	CONTINUING CAL %D LL0209887	ISTD RET SHIFT LL0209888	GSA AREA GSA AREA LL031127B SOIL UG/KG 6
M/E 51 M/E 68-1 M/E 68-2 M/E 69 M/E 70-1 M/E 70-2 M/E 127 M/E 197 M/E 198 M/E 199 M/E 275 M/E 365 M/E 441 M/E 442 M/E 443-1 M/E 443-2							
				36			
				0			
				0			
				43			
				0			
				0			
				57			
				0			
				100			
				8.5			
				19			
				0			
				7.4			
				59			
				14			
				23			
INTERNAL STD AREA(ANT)						60500	60300
INTERNAL STD AREA(CRY)						54000	49400
INTERNAL STD AREA(DCB)						33400	32500
INTERNAL STD AREA(NPT)						128000	126000
INTERNAL STD AREA(PHN)						87900	94200
INTERNAL STD AREA(PRY)						42000	36600
DILUTION FACTOR							0.1
PERCENT MOISTURE							4
ACTUAL(ALLOWED) EXTRACT TIME							8(14 D)

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034062B	BURN PIT PITS LL034040B	BLDG. 321 DRUMRACKS LL028019B	BLDG. 321 DRUMRACKS LL028020B	BLDG. 321 DRUMRACKS LL028042B
ACENAPHTHENE	360 U	360 U	420 U	380 U	400 U
	7	7	6	6	6

TABLE D.6.23 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020988

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034062B 7	BURN PIT PITS LL034040B 7	BLDG. 321 DRUMRACKS LL028019B 6	BLDG. 321 DRUMRACKS LL028020B 6	BLDG. 321 DRUMRACKS LL028042B 6
ACENAPHTHYLENE	360 U	360 U	420 U	380 U	400 U
ANTHRACENE	360 U	360 U	420 U	380 U	400 U
BENZO(A)ANTHRACENE	360 U	360 U	420 U	380 U	400 U
BENZO(A)PYRENE	360 U	360 U	420 U	380 U	400 U
BENZO(B)FLUORANTHENE	360 U	360 U	420 U	380 U	400 U
BENZO(G,H,I)PERYLENE	360 U	360 U	420 U	380 U	400 U
BENZO(K)FLUORANTHENE	360 U	360 U	420 U	380 U	400 U
BENZODIC ACID	1800 U	1800 U	2100 U	1900 U	2000 U
BENZYL ALCOHOL	360 U	360 U	420 U	380 U	400 U
BIS(2-CHLOROETHOXY)METHANE	360 U	360 U	420 U	380 U	400 U
BIS(2-CHLOROISOPROPYL)ETHER	360 U	360 U	420 U	380 U	400 U
BIS(2-CHORDETHYL)ETHER	360 U	360 U	420 U	380 U	400 U
BIS(2-ETHYLHEXYL)PHTHALATE	39 J	9500	9100	8400	150 J
BUTYLBENZYLPHthalate	360 U	360 U	420 U	39 J	110 J
CHRYSENE	360 U	360 U	420 U	380 U	400 U
DI-N-BUTYLPHthalate	360 U	360 U	420 U	380 U	400 U
DI-N-OCTYLPHthalate	360 U	360 U	420 U	380 U	400 U
DIBENZ(A,H)ANTHRACENE	360 U	360 U	420 U	380 U	400 U
DIBENZOFURAN	360 U	360 U	420 U	380 U	400 U
DIETHYLPHthalate	360 U	360 U	420 U	380 U	400 U
DIMETHYLPHthalate	360 U	360 U	420 U	380 U	400 U
FLUORANTHENE	360 U	360 U	420 U	380 U	400 U
FLUORENE	360 U	360 U	420 U	380 U	400 U
HEXACHLOROBENZENE	360 U	360 U	420 U	380 U	400 U
HEXACHLOROBUTADIENE	360 U	360 U	420 U	380 U	400 U
HEXACHLOROCYCLOPENTADIENE	360 U	360 U	420 U	380 U	400 U
HEXACHLOROETHANE	360 U	360 U	420 U	380 U	400 U
INDENO(1,2,3-CD)PYRENE	360 U	360 U	420 U	380 U	400 U
ISOPHORONE	360 U	360 U	420 U	380 U	400 U
N-NITROSO-DI-N-PROPYLAMINE	360 U	360 U	420 U	380 U	400 U
N-NITROSODIPHENYLAMINE	360 U	360 U	420 U	380 U	400 U
NAPHTHALENE	360 U	360 U	420 U	380 U	400 U
NITROBENZENE	360 U	360 U	420 U	380 U	400 U
NITROBENZENE-D5	1800 U	1800 U	2100 U	1900 U	2000 U
PENTACHLOROPHENOL	360 U	360 U	420 U	380 U	400 U
PHENANTHRENE	360 U	360 U	44 J	380 U	400 U
PHENOL	360 U	360 U	420 U	380 U	400 U
PHENOL-D5	360 U	360 U	420 U	380 U	400 U
PYRENE	360 U	360 U	420 U	380 U	400 U

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TABLE D.6.23 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020988

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034062B	BURN PIT PITS LL034040B	BLDG. 321 DRUMRACKS LL028019B	BLDG. 321 DRUMRACKS LL028020B	BLDG. 321 DRUMRACKS LL028042B
	7	7	6	6	6
<b>TERPHENYL-D14</b>					
1,2-DICHLOROBENZENE	360 U	360 U	420 U	380 U	400 U
1,2,4-TRICHLOROBENZENE	360 U	360 U	420 U	380 U	400 U
1,3-DICHLOROBENZENE	360 U	360 U	420 U	380 U	400 U
1,4-DICHLOROBENZENE	360 U	360 U	420 U	380 U	400 U
2-CHLORONAPHTHALENE	360 U	360 U	420 U	380 U	400 U
2-CHLOROPHENOL	360 U	360 U	420 U	380 U	400 U
2-FLUOROBIPHENYL					
2-FLUOROPHENOL					
2-METHYLNAPHTHALENE	360 U	360 U	420 U	380 U	400 U
2-METHYLPHENOL	360 U	360 U	420 U	380 U	400 U
2-NITROANILINE	1800 U	1800 U	2100 U	1900 U	2000 U
2-NITROPHENOL	360 U	360 U	420 U	380 U	400 U
2,4-DICHLOROPHENOL	360 U	360 U	420 U	380 U	400 U
2,4-DIMETHYLPHENOL	360 U	360 U	420 U	380 U	400 U
2,4-DINITROPHENOL	1800 U	1800 U	2100 U	1900 U	2000 U
2,4-DINITROTOLUENE	360 U	360 U	420 U	380 U	400 U
2,4,5-TRICHLOROPHENOL	1800 U	1800 U	2100 U	1900 U	2000 U
2,4,6-TRIBROMOPHENOL					
2,4,6-TRICHLOROPHENOL	360 U	360 U	420 U	380 U	400 U
2,6-DINITROTOLUENE	360 U	360 U	420 U	380 U	400 U
3-NITROANILINE	1800 U	1800 U	2100 U	1900 U	2000 U
3,3'-DICHLOROBENZIDINE	720 U	720 U	830 U	750 U	790 U
4-BROMOPHENYL-PHENYLETHER	360 U	360 U	420 U	380 U	400 U
4-CHLORO-3-METHYLPHENOL	360 U	360 U	420 U	380 U	400 U
4-CHLOROANILINE	360 U	360 U	420 U	380 U	400 U
4-CHLOROPHENYL-PHENYLETHER	360 U	360 U	420 U	380 U	400 U
4-METHYLPHENOL	360 U	360 U	420 U	380 U	400 U
4-NITROANILINE	1800 U	1800 U	2100 U	1900 U	2000 U
4-NITROPHENOL	1800 U	1800 U	2100 U	1900 U	2000 U
4,6-DINITRO-2-METHYLPHENOL	1800 U	1800 U	2100 U	1900 U	2000 U
<hr/>					
SURR 1(NBZ) %RECOVERY	11 *	8 *	13 *	13 *	13 *
SURR 2(FBP) %RECOVERY	12 *	9 *	14 *	17 *	13 *
SURR 3(TPH) %RECOVERY	16 *	14 *	17 *	27	12 *
SURR 4(PHL) %RECOVERY	14 *	10 *	14 *	19 *	15 *
SURR 5(2FP) %RECOVERY	12 *	8 *	14 *	16 *	15 *
SURR 6(TBP) %RECOVERY	17 *	15 *	20	29	17 *

DRAFT DO NOT CITE

TABLE D.6.23 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL020988

AREA	BURN PIT PITS	BURN PIT PITS	BLDG. 321 DRUMRACKS	BLDG. 321 DRUMRACKS	BLDG. 321 DRUMRACKS
LOCATION	LL034062B	LL034040B	LL028019B	LL028020B	LL028042B
TYPE OF LOCATION					
SAMPLE NUMBER					
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	7	7	6	6	6
M/E 68-1					
M/E 68-2					
M/E 69					
M/E 70-1					
M/E 70-2					
M/E 127					
M/E 197					
M/E 198					
M/E 199					
M/E 275					
M/E 365					
M/E 441					
M/E 442					
M/E 443-1					
M/E 443-2					
INTERNAL STD AREA(ANT)	82400	88900	80900	86400	56700
INTERNAL STD AREA(CRY)	70800	70600	67800	68500	52500
INTERNAL STD AREA(DCB)	40100	45400	43400	44400	31300
INTERNAL STD AREA(NPT)	163000	176000	171000	175000	120800
INTERNAL STD AREA(PHN)	124000	137000	126000	134000	87300
INTERNAL STD AREA(PRY)	51800	58700	52500	54600	51900
DILUTION FACTOR	1	1	1	1	1
PERCENT MOISTURE	7	7	20	11	16
ACTUAL(ALLOWED) EXTRACT TIME	12(14 D)	12(14 D)	11(14 D)	11(14 D)	11(14 D)

TABLE D.6.24 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021088

DRAFT DO NOT CITE

AREA	QA INITIAL CAL RRF LL0128886	QA INITIAL CAL % RSD LL0128886	QA MATRIX SPIKE DUPLICATE SOIL LL034028B	MSD % RECOVERY SOIL LL034028B	QA TUNED CALIBRATION LL0210885	QA CONTINUING CALIBRATION LL0210887	QA CONTINUING CAL %D LL0210887
	RRF	%	UG/KG 7	% 7	%	RRF	%
ACENAPHTHENE	1.279	4.3	220 JMS	6 *		1.309	2.3
ACENAPHTHYLENE	1.946	5.5	340 U			1.999	2.7
ANTHRACENE	1.128	2.9	340 U			1.037	8.1
BENZO(A)ANTHRACENE	1.201	4.2	340 U			1.192	0.7
BENZO(A)PYRENE	1.283	12.3	340 U			1.102	14.1
BENZO(B)FLUORANTHENE	1.529	7.7	340 U			1.387	9.3
BENZO(G,H,I)PERYLENE	1.059	22.3	340 U			0.871	17.8
BENZO(K)FLUORANTHENE	1.26	13.4	340 U			0.964	23.5
BENZOIC ACID	0.227	5.3	1700 U			0.231	1.8
BENZYL ALCOHOL	1.134	3.6	340 U			1.295	14.2
BIS(2-CHLOROETHOXY)METHANE	0.517	2.7	340 U			0.532	2.9
BIS(2-CHLORODISOPROPYL)ETHER	2.033	3.5	340 U			1.745	14.2
BIS(2-CHORDETHYL)ETHER	1.915	8.3	340 U			1.785	6.8
BIS(2-ETHYLHEXYL)PHTHALATE	1.915	3.3	340 U			1.63	14.9
BUTYLBENZYLPHthalate	1.244	4.7	50 J			1.1	11.6
CHRYSENE	1.139	41	340 U			1.242	9
DI-N-BUTYLPHTHALATE	1.669	5.5	340 U			1.668	0.1
DI-N-OCTYLPHTHALATE	3.753	6.5	340 U			3.282	12.5
DIBENZ(A,H)ANTHRACENE	0.97	50.7	340 U			0.927	4.4
DIBENZOFURAN	1.817	7.4	340 U			1.916	5.4
DIETHYLPHthalate	1.553	3.5	340 U			1.576	1.5
DIMETHYLPHthalate	1.474	3.9	340 U			1.473	0.1
FLUORANTHENE	0.879	2.8	340 U			0.997	13.4
FLUORENE	1.148	1.4	340 U			1.254	9.2
HEXAChLOROBENZENE	0.236	5.5	340 U			0.205	13.1
HEXAChLOROBUTADIENE	0.125	9	340 U			0.136	8.8
HEXAChLOROCYCLOPENTADIENE	0.194	9.4	340 U			0.172	11.3
HEXAChLOROETHANE	0.704	3	340 U			0.688	2.3
INDENO(1,2,3-CD)PYRENE	1.213	24.1	340 U			1.067	12
ISOPHORONE	0.849	3.7	340 U			0.877	3.3
N-NITROSO-DI-N-PROPYLAMINE	0.543	3.6	130 JMS	4 *		0.501	7.7
N-NITROSODIPHENYLAMINE	0.579	7.4	340 U			0.521	10
NAPHTHALENE	0.998	17	340 U			1.126	12.8
NITROBENZENE	0.428	1.7	340 U			0.428	0
NITROBENZENE-D5	0.397	1.2				0.403	1.5
PENTACHLOROPHENOL	0.15	5.3	460 MS	7 *		0.124	17.3
PHENANTHRENE	1.109	3.6	340 U			1.067	3.8
PHENOL	2.148	3.2	240 JMS	4 *		2.202	2.5
PHENOL-D5	1.676	2				1.706	1.8

TABLE D.6.24 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021088

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	INITIAL CAL RRF	INITIAL CAL % RSD	MATRIX SPIKE DUPLICATE LL034028B SOIL UG/KG	MSD X RECOVERY LL034028B SOIL %	TUNED CALIBRATION LL0210885	CONTINUING CALIBRATION LL0210887	CONTINUING CAL %D LL0210887
TYPE OF LOCATION	LL0128886	LL0128886	7	7	%	RRF	%
SAMPLE NUMBER							
MATRIX							
UNITS							
ENV PROBLEM NO							
D-383	PYRENE	1.776	6.4	310 JMS	9 x	1.651	7
	TERPHENYL-D14	0.94	3.5	340 U		0.858	8.7
	1,2-DICHLOROBENZENE	1.581	6.2	170 JMS	5 x	1.585	0.3
	1,2,4-TRICHLOROBENZENE	0.279	6.8	340 U		0.285	2.2
	1,3-DICHLOROBENZENE	1.615	5.8	80 JMS	2 x	1.614	0.1
	1,4-DICHLOROBENZENE	1.665	6.4	340 U		1.658	0.4
	2-CHLORONAPHTHALENE	1.358	4.5	240 JMS	3 x	1.283	5.5
	2-CHLOROPHENOL	1.718	3.4			1.715	0.2
	2-FLUOROBIPHENYL	1.225	3.3			1.125	8.2
	2-FLUOROPHENOL	1.485	3.2			1.476	0.6
	2-METHYLNAPHTHALENE	9.9	9.9	340 U		0.76	17.8
	2-METHYLPHENOL	1.372	2.6	340 U		1.45	5.7
	2-NITROANILINE	0.498	3.3	1700 U		0.514	3.2
	2-NITROPHENOL	0.252	24.8	340 U		0.237	6
	2,4-DICHLOROPHENOL	0.301	3.7	340 U		0.31	3
	2,4-DIMETHYLPHENOL	0.399	3.7	340 U		0.423	6
	2,4-DINITROPHENOL	0.117	9.6	1700 U		0.105	10.3
	2,4-DINITROTOLUENE	0.388	4.3	220 JMS	6 x	0.387	0.3
	2,4,5-TRICHLOROPHENOL	0.359	5.8	1700 U		0.352	1.9
	2,4,6-TRIBROMOPHENOL	0.122	6.2			0.151	23.8
	2,4,6-TRICHLOROPHENOL	0.37	3.2	340 U		0.352	4.9
	2,6-DINITROTOLUENE	0.323	5.5	340 U		0.312	3.4
	3-NITROANILINE	0.219	24.8	1700 U		0.218	0.5
	3,3'-DICHLOROBENZIDINE	0.239	9.2	680 U		0.265	10.9
	4-BROMOPHENYL-PHENYLETHER	0.213	2.4	340 U		0.17	20.2
	4-CHLORO-3-METHYLPHENOL	0.347	2.3	470 MS	7 x	0.413	19
	4-CHLOROANILINE	0.352	25.9	340 U		0.412	17
	4-CHLOROPHENYL-PHENYLETHER	0.469	4.9	340 U		0.501	6.8
	4-METHYLPHENOL	1.438	3.1	340 U		1.519	5.6
	4-NITROANILINE	0.143	34.3	1700 U		0.107	25.2
	4-NITROPHENOL	0.176	3.7	520 JMS	8 x	0.184	4.5
	4,6-DINITRO-2-METHYLPHENOL	0.133	8.1	1700 U		0.12	9.8
	SURR 1(NBZ) %RECOVERY			4 x			
	SURR 2(FBP) %RECOVERY			6 x			
	SURR 3(TPH) %RECOVERY			10 x			
	SURR 4(PHL) %RECOVERY			4 x			
	SURR 5(2FP) %RECOVERY			3 x			
	SURR 6(TBP) %RECOVERY			11 x			

TABLE D.6.24 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021088

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	INITIAL CAL RRF LL0128886	INITIAL CAL % RSD LL0128886	MATRIX SPIKE DUPLICATE LL034028B SOIL UG/KG 7	MSD X RECOVERY LL034028B SOIL % 7	TUNED CALIBRATION LL0210885	CONTINUING CAL %D LL0210887	CONTINUING CAL %D LL0210887
M/E 51					37		
M/E 68-1					0		
M/E 68-2					0		
M/E 69					47		
M/E 70-1					0		
M/E 70-2					0		
M/E 127					56		
M/E 197					0		
M/E 198					100		
M/E 199					7.3		
M/E 275					19		
M/E 365					4		
M/E 441					10		
M/E 442					75		
M/E 443-1					13		
M/E 443-2					17		
INTERNAL STD AREA(ANT)			65600				
INTERNAL STD AREA(CRY)			78200				
INTERNAL STD AREA(DCB)			39400				
INTERNAL STD AREA(NPT)			137000				
INTERNAL STD AREA(PHN)			108000				
INTERNAL STD AREA(PRY)			69000				
DILUTION FACTOR			1				
PERCENT MOISTURE			2				
ACTUAL(ALLOWED) EXTRACT TIME			12(14 D)				
AREA	QA		QA	QA	QA		
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ISTD RET TIM BLDG. 321 SHIFT DRUMRACKS LL0210888	BURN PIT PITS LL034051B	MATRIX SPIKE LL034028B SOIL UG/KG 6	MS % RECOVERY LL034028B SOIL UG/KG 7	RPD LL034028B SOIL % 7	BURN PIT PITS LL034028B SOIL UG/KG 7	
ACENAPHTHENE			410 U	360 U	340 UMS	0 *	200 *
						340 U	

TABLE D.6.24 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021088

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ISTD SHIFT LL021088	RET DRUMRACKS LL028031B	BLDG. PITS LL034051B	MATRIX SPIKE LL034028B	MS X RECOVERY LL034028B	RPD SOIL LL034028B	BURN PIT PITS LL034028B
	AREA	UG/KG	UG/KG	UG/KG	X	X	UG/KG
		6	7	7	7	7	7
ACENAPHTHYLENE		410 U	360 U	340 U			340 U
ANTHRACENE		410 U	360 U	340 U			340 U
BENZO(A)ANTHRACENE		410 U	360 U	340 U			340 U
BENZO(A)PYRENE		410 U	360 U	340 U			340 U
BENZO(B)FLUORANTHENE		410 U	360 U	340 U			340 U
BENZO(G,H,I)PERYLENE		410 U	360 U	340 U			340 U
BENZO(K)FLUORANTHENE		410 U	360 U	340 U			340 U
BENZOIC ACID		2100 U	1800 U	1700 U			1700 U
BENZYL ALCOHOL		410 U	360 U	340 U			340 U
BIS(2-CHLOROETHOXY)METHANE		410 U	360 U	340 U			340 U
BIS(2-CHLOROISOPROPYL)ETHER		410 U	360 U	340 U			340 U
BIS(2-CHOROETHYL)ETHER		410 U	360 U	340 U			340 U
BIS(2-ETHYLHEXYL)PHTHALATE		410 U	360 U	340 U			340 U
BUTYL BENZYL PHTHALATE		11000 U	120 J	18000 U			95 J
CHRYSENE		48 J	360 U	340 U			340 U
DI-N-BUTYLPHTHALATE		410 U	360 U	340 U			340 U
DI-N-OCTYLPHTHALATE		410 U	360 U	340 U			340 U
DIBENZ(A,H)ANTHRACENE		410 U	360 U	340 U			340 U
DIBENZOFURAN		410 U	360 U	340 U			340 U
DIETHYLPHTHALATE		410 U	360 U	340 U			340 U
DIMETHYLPHTHALATE		410 U	360 U	340 U			340 U
FLUORANTHENE		410 U	360 U	340 U			340 U
FLUORENE		410 U	360 U	340 U			340 U
HEXACHLOROBENZENE		410 U	360 U	340 U			340 U
HEXACHLOROBUTADIENE		410 U	360 U	340 U			340 U
HEXACHLOROCYCLOPENTADIENE		410 U	360 U	340 U			340 U
HEXACHLOROETHANE		410 U	360 U	340 U			340 U
INDENO(1,2,3-CD)PYRENE		410 U	360 U	340 U			340 U
ISOPHORONE		410 U	360 U	340 U			340 U
N-NITROSO-DI-N-PROPYLAMINE		410 U	360 U	340 UMS	0 X	200 X	340 U
N-NITROSODIPHENYLAMINE		410 U	360 U	340 U			340 U
NAPHTHALENE		410 U	360 U	340 U			340 U
NITROBENZENE		410 U	360 U	340 U			340 U
NITROBENZENE-D5		410 U	360 U	340 U			340 U
PENTACHLOROPHENOL		2100 U	1800 U	1700 UMS	0 X	200 X	1700 U
PHENANTHRENE		410 U	360 U	340 U			340 U
PHENOL		410 U	360 U	340 UMS	0 X	200 X	340 U
PHENOL-D5		410 U	360 U	33 JMS	1 X	160 X	340 U
PYRENE							

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TABLE D.6.24 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021088

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	RD	BURN PIT
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ISTD SHIFT LL0210888	BLDG. 321 DRUMRACKS LL028031B	BURN PIT PITS LL034051B	MATRIX SPIKE LL034028B	MS % RECOVERY LL034028B	PITS LL034028B
	AREA	UG/KG	UG/KG	UG/KG	SOIL %	SOIL %
	6	7	7	7	7	7
TERPHENYL-D14						
1,2-DICHLOROBENZENE	410 U	360 U	340 U			340 U
1,2,4-TRICHLOROBENZENE	410 U	360 U	340 UMS	0 *	200 *	340 U
1,3-DICHLOROBENZENE	410 U	360 U	340 U			340 U
1,4-DICHLOROBENZENE	410 U	360 U	340 UMS	0 *	200 *	340 U
2-CHLORONAPHTHALENE	410 U	360 U	340 U			340 U
2-CHLOROPHENOL	410 U	360 U	340 UMS	0 *	200 *	340 U
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	410 U	360 U	340 U			340 U
2-METHYLPHENOL	410 U	360 U	340 U			340 U
2-NITROANILINE	2100 U	1800 U	1700 U			1700 U
2-NITROPHENOL	410 U	360 U	340 U			340 U
2,4-DICHLOROPHENOL	410 U	360 U	340 U			340 U
2,4-DIMETHYLPHENOL	410 U	360 U	340 U			340 U
2,4-DINITROPHENOL	2100 U	1800 U	1700 U			1700 U
2,4-DINITROTOLUENE	410 U	360 U	340 UMS	0 *	200 *	340 U
2,4,5-TRICHLOROPHENOL	2100 U	1800 U	1700 U			1700 U
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	410 U	360 U	340 U			340 U
2,6-DINITROTOLUENE	410 U	360 U	340 U			340 U
3-NITROANILINE	2100 U	1800 U	1700 U			1700 U
3,3'-DICHLOROBENZIDINE	830 U	720 U	680 U			680 U
4-BROMOPHENYL-PHENYLETHER	410 U	360 U	340 U			340 U
4-CHLORO-3-METHYLPHENOL	410 U	360 U	340 UMS	0 *	200 *	340 U
4-CHLOROANILINE	410 U	360 U	340 U			340 U
4-CHLOROPHENYL-PHENYLETHER	410 U	360 U	340 U			340 U
4-METHYLPHENOL	410 U	360 U	340 U			340 U
4-NITROANILINE	2100 U	1800 U	1700 U			1700 U
4-NITROPHENOL	2100 U	1800 U	1700 UMS	0 *	200 *	1700 U
4,6-DINITRO-2-METHYLPHENOL	2100 U	1800 U	1700 U			1700 U
SURR 1(NBZ) %RECOVERY	0 *	10 *	18 *			11 *
SURR 2(FBP) %RECOVERY	0 *	16 *	17 *			13 *
SURR 3(TPH) %RECOVERY	1 *	36	27			21
SURR 4(PHL) %RECOVERY	0 *	6 *	19 *			13 *
SURR 5(2FP) %RECOVERY	0 *	4 *	17 *			10 *
SURR 6(TBP) %RECOVERY	2 *	20	24			22

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TABLE D.6.24 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021088

DRAFT DO NOT CITE

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AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ISTD RET TIM SHIFT LL0210888	BLDG. 321 DRUMRACKS LL028031B	BURN PIT PITS LL034051B	MATRIX SPIKE LL034028B	MS X RECOVERY LL034028B	RPD SOIL LL034028B	BURN PIT PITS LL034028B
	AREA	UG/KG	UG/KG	UG/KG	X	SOIL X	UG/KG
M/E 68-1							
M/E 68-2							
M/E 69							
M/E 70-1							
M/E 70-2							
M/E 127							
M/E 197							
M/E 198							
M/E 199							
M/E 275							
M/E 365							
M/E 441							
M/E 442							
M/E 443-1							
M/E 443-2							
INTERNAL STD AREA(CANT)	65700	54200	59800	71900			67100
INTERNAL STD AREA(CRY)	61500	48100	53500	48000			59200
INTERNAL STD AREA(DCB)	35100	30600	32000	38900			37500
INTERNAL STD AREA(NPT)	135000	114000	124000	147000			141000
INTERNAL STD AREA(PHN)	101000	80500	95700	111000			109000
INTERNAL STD AREA(PRY)	51400	51100	57800	65200			63900
DILUTION FACTOR		1	1	1			1
PERCENT MOISTURE		19	7	2			2
ACTUAL(ALLOWED) EXTRACT TIME		11(14 D)	12(14 D)	12(14 D)			12(14 D)
AREA							
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034120B	BURN PIT PITS LL034039B	BURN PIT PITS LL034073B	BURN PIT PITS LL034119B	BURN PIT PITS LL034084B		
ACENAPHTHENE	360 U	360 U	360 U	350 U	350 U		

TABLE D.6.24 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021088

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034120B SOIL UG/KG 7	BURN PIT PITS LL034039B SOIL UG/KG 7	BURN PIT PITS LL034073B SOIL UG/KG 7	BURN PIT PITS LL034119B SOIL UG/KG 7	BURN PIT PITS LL034084B SOIL UG/KG 7
ACENAPHTHYLENE	360 U	360 U	360 U	350 U	350 U
ANTHRACENE	360 U	360 U	360 U	350 U	350 U
BENZO(A)ANTHRACENE	360 U	360 U	360 U	350 U	350 U
BENZO(A)PYRENE	360 U	360 U	360 U	350 U	350 U
BENZO(B)FLUORANTHENE	360 U	360 U	360 U	350 U	350 U
BENZO(G,H,I)PERYLENE	360 U	360 U	360 U	350 U	350 U
BENZO(K)FLUORANTHENE	360 U	360 U	360 U	350 U	350 U
BENZOIC ACID	1800 U				
BENZYL ALCOHOL	360 U	360 U	360 U	350 U	350 U
BIS(2-CHLOROETHOXY)METHANE	360 U	360 U	360 U	350 U	350 U
BIS(2-CHLOROISOPROPYL)ETHER	360 U	360 U	360 U	350 U	350 U
BIS(2-CHOROETHYL)ETHER	360 U	360 U	360 U	350 U	350 U
BIS(2-ETHYLHEXYL)PHTHALATE	56 J	130 J	7200	150 J	5700
BUTYLBENZYL PHTHALATE	61 J	360 U	360 U	350 U	350 U
CHRYSENE	360 U	360 U	360 U	350 U	350 U
DI-N-BUTYL PHTHALATE	360 U	360 U	50 J	350 U	110 J
DI-N-OCTYL PHTHALATE	360 U	360 U	360 U	350 U	350 U
DIBENZ(A,H)ANTHRACENE	360 U	360 U	360 U	350 U	350 U
DIBENZOFURAN	360 U	360 U	360 U	350 U	350 U
DIETHYL PHTHALATE	360 U	360 U	40 J	350 U	350 U
DIMETHYL PHTHALATE	360 U	360 U	360 U	350 U	350 U
FLUORANTHENE	360 U	360 U	360 U	350 U	350 U
FLUORENE	360 U	360 U	360 U	350 U	350 U
HEXA CHLOROBENZENE	360 U	360 U	200 J	350 U	400
HEXA CHLOROBUTADIENE	360 U	360 U	360 U	350 U	350 U
HEXA CHLOROCYCLOPENTADIENE	360 U	360 U	360 U	350 U	350 U
HEXA CHLOROETHANE	360 U	360 U	360 U	350 U	350 U
INDENO(1,2,3-CD)PYRENE	360 U	360 U	360 U	350 U	350 U
ISOPHORONE	360 U	360 U	360 U	350 U	350 U
N-NITROSO-DI-N-PROPYLAMINE	360 U	360 U	360 U	350 U	350 U
N-NITROSODIPHENYLAMINE	360 U	360 U	360 U	350 U	350 U
NAPHTHALENE	360 U	360 U	360 U	350 U	350 U
NITROBENZENE	360 U	360 U	360 U	350 U	350 U
NITROBENZENE-D5					
PENTACHLOROPHENOL	1800 U				
PHENANTHRENE	360 U	360 U	360 U	350 U	350 U
PHENOL	360 U	360 U	480	350 U	350 U
PHENOL-D5					
PYRENE	360 U	360 U	360 U	350 U	350 U

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TABLE D.6.24 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021088

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034120B 7	BURN PIT PITS LL034039B 7	BURN PIT PITS LL034073B 7	BURN PIT PITS LL034119B 7	BURN PIT PITS LL034084B 7
TERPHENYL-D14					
1,2-DICHLOROBENZENE	360 U	360 U	360 U	350 U	350 U
1,2,4-TRICHLOROBENZENE	360 U	360 U	360 U	350 U	350 U
1,3-DICHLOROBENZENE	360 U	360 U	360 U	350 U	350 U
1,4-DICHLOROBENZENE	360 U	360 U	360 U	350 U	350 U
2-CHLORONAPHTHALENE	360 U	360 U	360 U	350 U	350 U
2-CHLOROPHENOL	360 U	360 U	360 U	350 U	350 U
2-FLUOROBIPHENYL					
2-FLUOROPHENOL					
2-METHYLNAPHTHALENE	360 U	360 U	360 U	350 U	350 U
2-METHYLPHENOL	360 U	360 U	360 U	350 U	350 U
2-NITROANILINE	1800 U				
2-NITROPHENOL	360 U	360 U	360 U	350 U	350 U
2,4-DICHLOROPHENOL	360 U	360 U	360 U	350 U	350 U
2,4-DIMETHYLPHENOL	360 U	360 U	360 U	350 U	350 U
2,4-DINITROPHENOL	1800 U				
2,4-DINITROTOLUENE	360 U	360 U	110 J	350 U	180 J
2,4,5-TRICHLOROPHENOL	1800 U				
2,4,6-TRIBROMOPHENOL					
2,4,6-TRICHLOROPHENOL	360 U	360 U	360 U	350 U	350 U
2,6-DINITROTOLUENE	360 U	360 U	360 U	350 U	350 U
3-NITROANILINE	1800 U				
3,3'-DICHLOROBENZIDINE	720 U	720 U	720 U	700 U	710 U
4-BROMOPHENYL-PHENYLETHER	360 U	360 U	360 U	350 U	350 U
4-CHLORO-3-METHYLPHENOL	360 U	360 U	360 U	350 U	350 U
4-CHLOROANILINE	360 U	360 U	360 U	350 U	350 U
4-CHLOROPHENYL-PHENYLETHER	360 U	360 U	360 U	350 U	350 U
4-METHYLPHENOL	360 U	360 U	360 U	350 U	350 U
4-NITROANILINE	1800 U				
4-NITROPHENOL	1800 U				
4,6-DINITRO-2-METHYLPHENOL	1800 U				
SURR 1(NBZ) %RECOVERY	12 X	7 X	17 X	1 X	26
SURR 2(FBP) %RECOVERY	13 X	8 X	17 X	0 X	26 *
SURR 3(TPH) %RECOVERY	18	12 X	17 X	2 X	24
SURR 4(PHL) %RECOVERY	15 X	8 X	21 X	0 X	28
SURR 5(2FP) %RECOVERY	10 X	7 X	1 X	0 X	1 X
SURR 6(TBP) %RECOVERY	19	12 X	24	10 X	33

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TABLE D.6.24 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021088

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034120B SOIL UG/KG 7	BURN PIT PITS LL034039B SOIL UG/KG 7	BURN PIT PITS LL034073B SOIL UG/KG 7	BURN PIT PITS LL034119B SOIL UG/KG 7	BURN PIT PITS LL034084B SOIL UG/KG 7
M/E 68-1					
M/E 68-2					
M/E 69					
M/E 70-1					
M/E 70-2					
M/E 127					
M/E 197					
M/E 198					
M/E 199					
M/E 275					
M/E 365					
M/E 441					
M/E 442					
M/E 443-1					
M/E 443-2					
INTERNAL STD AREA(ANT)	87700	66400	65500	52300	62600
INTERNAL STD AREA(CRY)	67600	57200	61500	49300	61100
INTERNAL STD AREA(DCB)	43900	36700	37500	29800	36800
INTERNAL STD AREA(NPT)	172000	139000	138000	110000	136000
INTERNAL STD AREA(PHN)	132000	105000	91600	80800	79900
INTERNAL STD AREA(PRY)	45500	61900	65200	57700	63900
DILUTION FACTOR	1	1	1	1	1
PERCENT MOISTURE	7	7	8	5	6
ACTUAL(ALLOWED) EXTRACT TIME	12(14 D)				

TABLE D.6.25 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021188

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AREA	QA INITIAL CAL RRF LL0128886	QA INITIAL CAL % RSD LL0128886	QA TUNED CALIBRATION LL0211885	QA CONTINUING CALIBRATION LL0211887	QA CONTINUING CAL XD LL0211887	QA ISTD SHIFT LL0211888	RET	TIM	BURN PIT
LOCATION							SHIFT		PITS
TYPE OF LOCATION									SOIL
SAMPLE NUMBER									UG/KG
MATRIX									7
UNITS									
ENV PROBLEM NO									
ACENAPHTHENE	1.279	4.3		1.301	1.7		360	U	
ACENAPHTHYLENE	1.946	5.5		1.99	2.3		360	U	
ANTHRACENE	1.128	2.9		1.055	6.5		360	U	
BENZO(A)ANTHRACENE	1.201	4.2		1.234	2.7		360	U	
BENZO(A)PYRENE	1.283	12.3		1.249	2.7		360	U	
BENZO(B)FLUORANTHENE	1.529	7.7		1.317	13.9		360	U	
BENZO(G,H,I)PERYLENE	1.059	22.3		0.901	14.9		360	U	
BENZO(K)FLUORANTHENE	1.26	13.4		1.24	1.6		360	U	
BENZOIC ACID	0.227	5.3		0.252	11		99	J	
BENZYL ALCOHOL	1.134	3.6		1.343	18.4		360	U	
BIS(2-CHLOROETHOXY)METHANE	0.517	2.7		0.526	1.7		360	U	
BIS(2-CHLOROISOPROPYL)ETHER	2.033	3.5		1.814	10.8		360	U	
BIS(2-CHOROETHYL)ETHER	1.915	8.3		1.919	0.2		360	U	
BIS(2-ETHYLHEXYL)PHTHALATE	1.915	3.3		1.702	11.1		4800		
BUTYLBENZYLPHthalate	1.244	4.7		1.094	12.1		360	U	
CHRYSENE	1.139	41		1.255	10.2		360	U	
DI-N-BUTYLPHthalate	1.669	5.5		1.661	0.5		91	J	
DI-N-OCTYLPHthalate	3.753	6.5		3.724	0.8		360	U	
DIBENZ(A,H)ANTHRACENE	0.97	50.7		0.98	1		360	U	
DIBENZOFURAN	1.817	7.4		1.961	7.9		360	U	
DIETHYLPHthalate	1.553	3.5		1.642	5.7		360	U	
DIMETHYLPHthalate	1.474	3.9		1.477	0.2		360	U	
FLUORANTHENE	0.879	2.8		1.041	18.4		360	U	
FLUORENE	1.148	1.4		1.26	9.8		360	U	
HEXACHLOROBENZENE	0.236	5.5		0.188	20.3		300	J	
HEXACHLOROBUTADIENE	0.125	9		0.126	0.8		360	U	
HEXACHLOROCYCLOPENTADIENE	0.194	9.4		0.176	9.3		360	U	
HEXACHLOROETHANE	0.704	3		0.717	1.8		360	U	
INDENO(1,2,3-CD)PYRENE	1.213	24.1		1.154	4.9		360	U	
ISOPHORONE	0.849	3.7		0.884	4.1		360	U	
N-NITROSO-DI-N-PROPYLAMINE	0.543	3.6		0.523	3.7		360	U	
N-NITROSODIPHENYLAMINE	0.579	7.4		0.528	8.8		360	U	
NAPHTHALENE	0.998	17		1.135	13.7		360	U	
NITROBENZENE	0.428	1.7		0.436	1.9		360	U	
NITROBENZENE-D5	0.397	1.2		0.408	2.8		1800		
PENTACHLOROPHENOL	0.15	5.3		0.122	18.7		360	U	
PHENANTHRENE	1.109	3.6		1.065	4		110	J	
PHENOL	2.148	3.2		2.282	6.2				
PHENOL-D5	1.676	2		1.794	7				

TABLE D.6.25 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021188

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AREA	QA RRF LL0128886	QA % RSD LL0128886	QA TUNED CALIBRATION LL0211885	QA CONTINUING CALIBRATION LL0211887	QA CONTINUING CAL %D LL0211887	QA ISTD SHIFT LL0211888	QA RET AREA	TIM	BURN PITS PITS LL034095B	PIT SOIL UG/KG 7
LOCATION										
TYPE OF LOCATION										
SAMPLE NUMBER										
MATRIX										
UNITS										
ENV PROBLEM NO										
PYRENE	1.776	6.4		1.633	8.1				360	U
TERPHENYL-D14	0.94	3.5		0.811	13.7				360	U
1,2-DICHLOROBENZENE	1.581	6.2		1.621	2.5				360	U
1,2,4-TRICHLOROBENZENE	0.279	6.8		0.279	0				360	U
1,3-DICHLOROBENZENE	1.615	5.8		1.623	0.5				360	U
1,4-DICHLOROBENZENE	1.665	6.4		1.662	0.2				360	U
2-CHLORONAPHTHALENE	1.358	4.5		1.235	9.1				360	U
2-CHLOROPHENOL	1.718	3.4		1.758	2.3				360	U
2-FLUOROBIPHENYL	1.225	3.3		1.177	3.9				360	U
2-FLUOROPHENOL	1.485	3.2		1.507	1.5				360	U
2-METHYLNAPHTHALENE	9.9	9.9		0.759	17.7				360	U
2-METHYLPHENOL	1.372	2.6		1.54	12.2				360	U
2-NITROANILINE	0.498	3.3		0.552	10.8				1800	U
2-NITROPHENOL	0.252	24.8		0.224	11.1				360	U
2,4-DICHLOROPHENOL	0.301	3.7		0.309	2.7				360	U
2,4-DIMETHYLPHENOL	0.399	3.7		0.426	6.8				360	U
2,4-DINITROPHENOL	0.117	9.6		0.128	9.4				1800	U
2,4-DINITROTOLUENE	0.388	4.3		0.404	4.1				160	J
2,4,5-TRICHLOROPHENOL	0.359	5.8		0.366	1.9				1800	U
2,4,6-TRIBROMOPHENOL	0.122	6.2		0.143	17.2				1800	U
2,4,6-TRICHLOROPHENOL	0.37	3.2		0.354	4.3				360	U
2,6-DINITROTOLUENE	0.323	5.5		0.328	1.5				360	U
3-NITROANILINE	0.219	24.8		0.3	37				1800	U
3,3'-DICHLOROBENZIDINE	0.239	9.2		0.257	7.5				720	U
4-BROMOPHENYL-PHENYLETHER	0.213	2.4		0.169	20.7				360	U
4-CHLORO-3-METHYLPHENOL	0.347	2.3		0.421	21.3				360	U
4-CHLOROANILINE	0.352	25.9		0.502	42.6				360	U
4-CHLOROPHENYL-PHENYLETHER	0.469	4.9		0.498	6.2				360	U
4-METHYLPHENOL	1.438	3.1		1.607	11.8				360	U
4-NITROANILINE	0.143	34.3		0.197	37.8				1800	U
4-NITROPHENOL	0.176	3.7		0.195	10.8				1800	U
4,6-DINITRO-2-METHYLPHENOL	0.133	8.1		0.124	6.8				1800	U
SURR 1(NBZ) %RECOVERY									28	
SURR 2(FBP) %RECOVERY									26	x
SURR 3(TPH) %RECOVERY									23	
SURR 4(PHL) %RECOVERY									0	x
SURR 5(2FP) %RECOVERY									2	x
SURR 6(TBP) %RECOVERY									29	

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TABLE D.6.25 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021188

AREA	QA	QA	QA	QA	QA	QA	ISTD	RET	TIM	BURN PITS
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	CONTINUING	CONTINUING	SHIFT	LL0211888	LL0211888	SOIL	PITS
TYPE OF LOCATION	RRF	X RSD	CALIBRATION	CALIBRATION	CAL XD	AREA	LL0128886	LL0211885	UG/KG	LL034095B
SAMPLE NUMBER	LL0128886	LL0128886	LL0211885	LL0211887	LL0211887	LL0211887	LL0211888	LL0211887	7	7
MATRIX										
UNITS										
ENV PROBLEM NO										
M/E 51				35						
M/E 68-1				0						
M/E 68-2				0						
M/E 69				46						
M/E 70-1				0						
M/E 70-2				55						
M/E 127				0						
M/E 197				100						
M/E 198				6.4						
M/E 199				20						
M/E 275				4.2						
M/E 365				11						
M/E 441				67						
M/E 442				12						
M/E 443-1				18						
M/E 443-2										
INTERNAL STD AREA(ANT)							76000		68600	
INTERNAL STD AREA(CRY)							73800		61400	
INTERNAL STD AREA(DCB)							40000		38800	
INTERNAL STD AREA(NPT)							159000		144000	
INTERNAL STD AREA(PHN)							118000		88800	
INTERNAL STD AREA(PRY)							55200		60200	
DILUTION FACTOR								1		
PERCENT MOISTURE								8		
ACTUAL(ALLOWED) EXTRACT TIME								12(14 D)		
AREA										
LOCATION	BURN PIT	BURN PIT	ARROYO SECO	ARROYO SECO	ARROYO SECO					
TYPE OF LOCATION	PITS	PITS	ARROYOS	ARROYOS	ARROYOS					
SAMPLE NUMBER	LL034017B	LL034108B	SN004012B	SN004023B	SN004034B					
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL					
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG					
ENV PROBLEM NO	7	7	1	1	1					
ACENAPHTHENE	430 U	360 U	390 U	360 U	350 U					

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TABLE D.6.25 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021188

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034017B	BURN PIT PITS LL034108B	ARROYO SECO ARROYOS SN004012B	ARROYO SECO ARROYOS SN004023B	ARROYO SECO ARROYOS SN004034B
	7 UG/KG	7 UG/KG	1 UG/KG	1 UG/KG	1 UG/KG
ACENAPHTHYLENE	430 U	360 U	390 U	360 U	350 U
ANTHRACENE	430 U	360 U	390 U	360 U	350 U
BENZO(A)ANTHRACENE	430 U	360 U	390 U	360 U	350 U
BENZO(A)PYRENE	430 U	360 U	390 U	360 U	350 U
BENZO(B)FLUORANTHENE	430 U	360 U	390 U	360 U	350 U
BENZO(G,H,I)PERYLENE	430 U	360 U	390 U	360 U	350 U
BENZO(K)FLUORANTHENE	430 U	360 U	390 U	360 U	350 U
BENZOIC ACID	2200 U	1800 U	2000 U	1800 U	1800 U
BENZYL ALCOHOL	430 U	360 U	390 U	360 U	350 U
BIS(2-CHLOROETHOXY)METHANE	430 U	360 U	390 U	360 U	350 U
BIS(2-CHLOROISOPROPYL)ETHER	430 U	290 J	390 U	360 U	350 U
BIS(2-CHORDETHYL)ETHER	430 U	360 U	390 U	360 U	350 U
BIS(2-ETHYLHEXYL)PHTHALATE	120 J	120 J	230 J	210 J	190 J
BUTYLBENZYLPHthalate	62 J	360 U	390 U	89 J	38 J
CHRYSENE	430 U	360 U	390 U	360 U	350 U
DI-N-BUTYLPHTHALATE	430 U	46 J	390 U	360 U	350 U
DI-N-OCTYLPHTHALATE	430 U	360 U	390 U	360 U	350 U
DIBENZ(A,H)ANTHRACENE	430 U	360 U	390 U	360 U	350 U
DIBENZOFURAN	430 U	360 U	390 U	360 U	350 U
DIETHYLPHthalate	430 U	360 U	390 U	360 U	350 U
DIMETHYLPHthalate	430 U	360 U	390 U	360 U	350 U
FLUORANTHENE	430 U	360 U	390 U	360 U	350 U
FLUORENE	430 U	360 U	390 U	360 U	350 U
HEXACHLOROBENZENE	430 U	140 J	390 U	360 U	350 U
HEXACHLOROBUTADIENE	430 U	360 U	390 U	360 U	350 U
HEXACHLOROCYCLOPENTADIENE	430 U	360 U	390 U	360 U	350 U
HEXACHLOROETHANE	430 U	360 U	390 U	360 U	350 U
INDENO(1,2,3-CD)PYRENE	430 U	360 U	390 U	360 U	350 U
ISOPHORONE	430 U	360 U	390 U	360 U	350 U
N-NITROSO-DI-N-PROPYLAMINE	430 U	360 U	390 U	360 U	350 U
N-NITROSODIPHENYLAMINE	430 U	360 U	390 U	360 U	350 U
NAPHTHALENE	430 U	360 U	390 U	360 U	350 U
NITROBENZENE	430 U	360 U	390 U	360 U	350 U
NITROBENZENE-D5					
PENTACHLOROPHENOL	2200 U	1800 U	2000 U	1800 U	1800 U
PHENANTHRENE	430 U	360 U	390 U	360 U	350 U
PHENOL	430 U	66 J	390 U	360 U	350 U
PHENOL-D5					
PYRENE	430 U	360 U	390 U	360 U	350 U

TABLE D.6.25 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021188

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034017B	BURN PIT PITS LL034108B	ARROYO SECO ARROYOS SN004012B	ARROYO SECO ARROYOS SN004025B	ARROYO SECO ARROYOS SN004034B
	7	7	1	1	1
TERPHENYL-D14					
1,2-DICHLOROBENZENE	430 U	360 U	390 U	360 U	350 U
1,2,4-TRICHLOROBENZENE	430 U	360 U	390 U	360 U	350 U
1,3-DICHLOROBENZENE	430 U	360 U	390 U	360 U	350 U
1,4-DICHLOROBENZENE	430 U	360 U	390 U	360 U	350 U
2-CHLORONAPHTHALENE	430 U	360 U	390 U	360 U	350 U
2-CHLOROPHENOL	430 U	360 U	390 U	360 U	350 U
2-FLUOROBIPHENYL					
2-FLUOROPHENOL					
2-METHYLNAPHTHALENE	430 U	360 U	390 U	360 U	350 U
2-METHYLPHENOL	430 U	360 U	390 U	360 U	350 U
2-NITROANILINE	2200 U	1800 U	2000 U	1800 U	1800 U
2-NITROPHENOL	430 U	360 U	390 U	360 U	350 U
2,4-DICHLOROPHENOL	430 U	360 U	390 U	360 U	350 U
2,4-DIMETHYLPHENOL	430 U	360 U	390 U	360 U	350 U
2,4-DINITROPHENOL	2200 U	1800 U	2000 U	1800 U	1800 U
2,4-DINITROTOLUENE	430 U	61 J	390 U	360 U	350 U
2,4,5-TRICHLOROPHENOL	2200 U	1800 U	2000 U	1800 U	1800 U
2,4,6-TRIBROMOPHENOL					
2,4,6-TRICHLOROPHENOL	430 U	360 U	390 U	360 U	350 U
2,6-DINITROTOLUENE	430 U	360 U	390 U	360 U	350 U
3-NITROANILINE	2200 U	1800 U	2000 U	1800 U	1800 U
3,3'-DICHLOROBENZIDINE	860 U	720 U	780 U	720 U	710 U
4-BROMOPHENYL-PHENYLETHER	430 U	360 U	390 U	360 U	350 U
4-CHLORO-3-METHYLPHENOL	430 U	360 U	390 U	360 U	350 U
4-CHLOROANILINE	430 U	360 U	390 U	360 U	350 U
4-CHLOROPHENYL-PHENYLETHER	430 U	360 U	390 U	360 U	350 U
4-METHYLPHENOL	430 U	360 U	390 U	360 U	350 U
4-NITROANILINE	2200 U	1800 U	2000 U	1800 U	1800 U
4-NITROPHENOL	2200 U	1800 U	2000 U	1800 U	1800 U
4,6-DINITRO-2-METHYLPHENOL	2200 U	1800 U	2000 U	1800 U	1800 U
SURR 1(NBZ) %RECOVERY	10 X	13 X	30	25	24
SURR 2(FBP) %RECOVERY	11 X	14 X	32	26 X	24 X
SURR 3(TPH) %RECOVERY	17 X	16 X	38	33	32
SURR 4(PHL) %RECOVERY	12 X	15 X	34	30	27
SURR 5(2FP) %RECOVERY	9 X	1 X	31	25	25
SURR 6(TBP) %RECOVERY	16 X	20	43	39	33

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TABLE D.6.25 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL021188

DRAFT DO NOT CITE

## AREA

LOCATION	BURN PIT	BURN PIT	ARROYO SECO	ARROYO SECO	ARROYO SECO
TYPE OF LOCATION	PITS	PITS	ARROYOS	ARROYOS	ARROYOS
SAMPLE NUMBER	LL034017B	LL034108B	SN004012B	SN004023B	SN004034B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	7	7	1	1	1

M/E 68-1  
M/E 68-2  
M/E 69  
M/E 70-1  
M/E 70-2  
M/E 127  
M/E 197  
M/E 198  
M/E 199  
M/E 275  
M/E 365  
M/E 441  
M/E 442  
M/E 443-1  
M/E 443-2

INTERNAL STD AREA(ANT)	75700	70700	72200	71700	80800
INTERNAL STD AREA(CRY)	60200	62000	64200	64400	70500
INTERNAL STD AREA(DCB)	38000	38300	38200	38600	42400
INTERNAL STD AREA(NPT)	151000	146000	150000	151000	164000
INTERNAL STD AREA(PHN)	116000	99900	118000	115000	124000
INTERNAL STD AREA(PRY)	48400	51400	54800	58000	67400

DILUTION FACTOR	1	1	1	1	1
PERCENT MOISTURE	23	7	15	7	6
ACTUAL(ALLOWED) EXTRACT TIME	12(14 D)	12(14 D)	15(14 D)	15(14 D)	15(14 D)

TABLE D.6.26 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL121987

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	ISTD SHIFT	RET CAL XD	TIM LL1219878	BLDG. 805 DRAINS LL033027B	865 AREA DITCH LL039012B	BLDG. 805 DRAINS LL033038B
LOCATION	TUNED CALIBRATION LL1219875	CONTINUING CALIBRATION LL1219877	CONTINUING CAL XD LL1219877	AREA	SOIL UG/KG 6			SOIL UG/KG 6	SOIL UG/KG 11	SOIL UG/KG 6
ACENAPHTHENE		1.305	0.2		85 J			410 U	410 U	76 J
ACENAPHTHYLENE		1.859	9.4		340 U			410 U	410 U	340 U
ANTHRACENE		1.058	3.4		110 J			410 U	410 U	81 J
BENZO(A)ANTHRACENE		1.248	4.4		190 J			410 U	410 U	160 J
BENZO(A)PYRENE		1.324	10.7		340 U			410 U	410 U	340 U
BENZO(B)FLUORANTHENE		1.284	27.9		340 U			410 U	410 U	340 U
BENZO(G,H,I)PERYLENE		0.849	6.4		340 U			410 U	410 U	340 U
BENZO(K)FLUORANTHENE		1.973	20.8		340 U			410 U	410 U	340 U
BENZOIC ACID		0.113	23.1		1700 U			2100 U	2100 U	1700 U
BENZYL ALCOHOL		1.057	0.1		340 U			410 U	410 U	340 U
BIS(2-CHLOROETHOXY)METHANE		0.504	0.6		340 U			410 U	410 U	340 U
BIS(2-CHLOROISOPROPYL)ETHER		1.779	0		340 U			410 U	410 U	340 U
BIS(2-CHLOROETHYL)ETHER		1.786	2.5		340 U			410 U	410 U	340 U
BIS(2-ETHYLHEXYL)PHTHALATE		1.617	8.8		1200 U			74 J	1100 U	
BUTYL BENZYL PHTHALATE		0.972	2.3		49 J			410 U	410 U	52 J
CHRYSENE		1.314	10.1		240 J			410 U	410 U	230 J
DI-N-BUTYLPHTHALATE		1.571	8		83 J			410 U	410 U	79 J
DI-N-OCTYLPHTHALATE		3.682	9.4		340 U			410 U	410 U	340 U
DIBENZ(A,H)ANTHRACENE		0.814	1		340 U			410 U	410 U	340 U
DIBENZOFURAN		1.957	5.4		340 U			410 U	410 U	35 J
DIETHYLPHTHALATE		1.586	1.9		340 U			410 U	410 U	340 U
DIMETHYLPHTHALATE		1.442	0.5		340 U			410 U	410 U	340 U
FLUORANTHENE		1.038	3.9		520 U			410 U	410 U	510 U
FLUORENE		1.184	2.6		59 J			410 U	410 U	59 J
HEXACHLOROBENZENE		0.271	1.5		340 U			410 U	410 U	340 U
HEXACHLOROBUTADIENE		0.189	1.1		340 U			410 U	410 U	340 U
HEXACHLOROCYCLOPENTADIENE		0.113	28.5		340 U			410 U	410 U	340 U
HEXACHLOROETHANE		0.721	4.2		340 U			410 U	410 U	340 U
INDENO(1,2,3-CD)PYRENE		1.223	12.7		340 U			410 U	410 U	340 U
ISOPHORONE		0.912	7.9		340 U			410 U	410 U	340 U
N-NITROSO-DI-N-PROPYLAMINE		0.489	3.4		340 U			410 U	410 U	340 U
N-NITROSODIPHENYLAMINE		0.478	0.6		340 U			410 U	410 U	340 U
NAPHTHALENE		1.157	21.9		340 U			410 U	410 U	340 U
NITROBENZENE		0.429	1.2		340 U			410 U	410 U	340 U
NITROBENZENE-D5		0.378	4.3		340 U			410 U	410 U	340 U
PENTACHLOROPHENOL		0.119	11.2		1700 U			2100 U	2100 U	1700 U
PHENANTHRENE		1.037	2.9		600 U			410 U	410 U	520 U
PHENOL		1.817	0.3		340 U			410 U	410 U	340 U
PHENOL-D5		1.437	0.9		340 U			410 U	410 U	340 U

TABLE D.6.26 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL121987

DRAFT DO NOT CITE

AREA	QA TUNED CALIBRATION LL1219875	QA CONTINUING CAL X'D LL1219877	QA CONTINUING CAL X'D LL1219877	QA ISTD SHIFT LL1219878	RET TIM	BLDG. 805 DRAINS SOIL 6	865 AREA DITCH SOIL 11	BLDG. 805 DRAINS SOIL 6
LOCATION								
TYPE OF LOCATION								
SAMPLE NUMBER								
MATRIX								
UNITS	%	RRF	%	AREA		UG/KG	UG/KG	UG/KG
ENV PROBLEM NO						6	11	6
PYRENE		1.569	3.5		540		410 U	470
TERPHENYL-D14		0.941	3.8					
1,2-DICHLOROBENZENE		1.545	0.3		340 U		410 U	340 U
1,2,4-TRICHLOROBENZENE		0.347	3.9		340 U		410 U	340 U
1,3-DICHLOROBENZENE		1.606	5.7		340 U		410 U	340 U
1,4-DICHLOROBENZENE		1.618	3.1		340 U		410 U	340 U
2-CHLORONAPHTHALENE		1.236	2.1		340 U		410 U	340 U
2-CHLOROPHENOL		1.596	2.6		340 U		410 U	340 U
2-FLUOROBIPHENYL		1.219	4.8					
2-FLUOROPHENOL		1.187	3.8					
2-METHYLNAPHTHALENE		0.756	7.4		340 U		410 U	340 U
2-METHYLPHENOL		1.262	0.3		340 U		410 U	340 U
2-NITROANILINE		0.34	26.1		1700 U		2100 U	1700 U
2-NITROPHENOL		0.243	9.5		340 U		410 U	340 U
2,4-DICHLOROPHENOL		0.299	8.3		340 U		410 U	340 U
2,4-DIMETHYLPHENOL		0.428	0.2		340 U		410 U	340 U
2,4-DINITROPHENOL		0.045	48.3		1700 U		2100 U	1700 U
2,4-DINITROTOLUENE		0.375	3.1		340 U		410 U	340 U
2,4,5-TRICHLOROPHENOL		0.315	10.3		1700 U		2100 U	1700 U
2,4,6-TRIBROMOPHENOL		0.148	5.1					
2,4,6-TRICHLOROPHENOL		0.36	2.7		340 U		410 U	340 U
2,6-DINITROTOLUENE		0.282	5.4		340 U		410 U	340 U
3-NITROANILINE		0.07	48.5		1700 U		2100 U	1700 U
3,3'-DICHLOROBENZIDINE		0.145	36.1		680 U		830 U	680 U
4-BROMOPHENYL-PHENYLETHER		0.241	3.9		340 U		410 U	340 U
4-CHLORO-3-METHYLPHENOL		0.339	5		340 U		410 U	340 U
4-CHLORDANILINE		0.121	57.2		340 U		410 U	340 U
4-CHLOROPHENYL-PHENYLETHER		0.621	0.5		340 U		410 U	340 U
4-METHYLPHENOL		1.209	3.3		340 U		410 U	340 U
4-NITROANILINE		0.059	47.3		1700 U		2100 U	1700 U
4-NITROPHENOL		0.084	34.5		1700 U		2100 U	1700 U
4,6-DINITRO-2-METHYLPHENOL		0.081	21.4		1700 U		2100 U	1700 U
SURR 1(NBZ) %RECOVERY					11 *		4 *	3 *
SURR 2(FBP) %RECOVERY					16 *		4 *	8 *
SURR 3(TPH) %RECOVERY					18		10 *	13 *
SURR 4(PHL) %RECOVERY					13 *		2 *	4 *
SURR 5(2FP) %RECOVERY					15 *		2 *	4 *
SURR 6(TBP) %RECOVERY					15 *		7 *	11 *

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TABLE D.6.26 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL121987

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	ISTD	RET	TIM	BLDG.	805	865	AREA	BLDG.
LOCATION	TUNED	CONTINUING	CONTINUING	QA	SHIFT	DRAINS	SOIL	DITCH	DRAINS	DITCH	SOIL	SOIL
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	%	LL1219878	LL033027B	UG/KG	LL039012B	LL033038B	LL039012B	UG/KG	UG/KG
SAMPLE NUMBER	LL1219875	LL1219877	LL1219877	%	AREA	6	6	11	6	11	6	6
MATRIX												
UNITS												
ENV PROBLEM NO												
M/E 51	41											
M/E 68-1	0											
M/E 68-2	0											
M/E 69	49											
M/E 70-1	0											
M/E 70-2	0											
M/E 127	51											
M/E 197	0											
M/E 198	100											
M/E 199	5.9											
M/E 275	21											
M/E 365	3.3											
M/E 441	9.8											
M/E 442	65											
M/E 443-1	11											
M/E 443-2	17											
INTERNAL STD AREA(ANT)					70000	86000	78400	87100				
INTERNAL STD AREA(CRY)					70100	89800	86100	101000				
INTERNAL STD AREA(DCB)					37700	50300	47400	50300				
INTERNAL STD AREA(NPT)					138000	168000	153000	178000				
INTERNAL STD AREA(PHN)					105000	137000	119000	138000				
INTERNAL STD AREA(PRY)					41700	54500	55400	57900				
DILUTION FACTOR							1	1				
PERCENT MOISTURE							2	19				
ACTUAL(ALLOWED) EXTRACT TIME							5(14 D)	5(14 D)				
AREA	QA	QA	QA	QA	RD	MATRIX SPIKE	MSD %	RECOVERY	RET. BASIN			
LOCATION	RET. BASIN	MATRIX	MS %	RD	DUPLICATE	DUPLICATE	RECOVERY	RECOVERY	ARROYO			
TYPE OF LOCATION	ARROYO	SPIKE	RECOVERY	LL004033B	LL004033B	LL004033B	LL004033B	LL004033B	LL004022B			
SAMPLE NUMBER	LL004033B	LL004033B	LL004033B		SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX	SOIL	SOIL	X		X	X	X	X	UG/KG			
UNITS	UG/KG	UG/KG	%		X	X	X	X	UG/KG			
ENV PROBLEM NO	1	1	1		1	1	1	1	1			
ACENAPHTHENE	350 U	280 JMS	8 X	43 X	180 JMS	5 X	360 U					

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TABLE D.6.26 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL121987

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	RET. BASIN
LOCATION	RET. BASIN	MATRIX	MS %	RPD	MATRIX	SPIKE	RET. BASIN
TYPE OF LOCATION	ARROYO	SPIKE	RECOVERY	LL004033B	DUPLICATE	MSD %	ARROYO
SAMPLE NUMBER	LL004033B	SOIL	LL004033B	LL004033B	SOIL	RECOVERY	LL004033B
MATRIX	SOIL	SOIL	%	SOIL	SOIL	%	SOIL
UNITS	UG/KG	UG/KG	%	UG/KG	UG/KG	%	UG/KG
ENV PROBLEM NO	1	1	1	1	1	1	1
ACENAPHTHYLENE	350 U	350 U			350 U		360 U
ANTHRACENE	350 U	350 U			350 U		360 U
BENZO(A)ANTHRACENE	350 U	350 U			350 U		360 U
BENZO(A)PYRENE	350 U	350 U			350 U		360 U
BENZO(B)FLUORANTHENE	350 U	350 U			350 U		360 U
BENZO(G,H,I)PERYLENE	350 U	350 U			350 U		360 U
BENZO(K)FLUORANTHENE	350 U	350 U			350 U		360 U
BENZOIC ACID	1700 U	1700 U			1700 U		1800 U
BENZYL ALCOHOL	350 U	350 U			350 U		360 U
BIS(2-CHLOROETHOXY)METHANE	350 U	350 U			350 U		360 U
BIS(2-CHLOROISOPROPYL)ETHER	350 U	350 U			350 U		360 U
BIS(2-CHOROETHYL)ETHER	350 U	350 U			350 U		360 U
BIS(2-ETHYLHEXYL)PHTHALATE	350 U	350 U			350 U		360 U
BUTYLBENZYLPHthalate	350 U	350 U			350 U		360 U
CHRYSENE	350 U	350 U			350 U		360 U
DI-N-BUTYLPHTHALATE	350 U	350 U			350 U		360 U
DI-N-OCTYLPHthalate	350 U	350 U			350 U		360 U
DIBENZ(A,H)ANTHRACENE	350 U	350 U			350 U		360 U
DIBENZOFURAN	350 U	350 U			350 U		360 U
DIETHYLPHthalate	350 U	350 U			350 U		360 U
DIMETHYLPHthalate	350 U	350 U			350 U		360 U
FLUORANTHENE	350 U	350 U			350 U		360 U
FLUORENE	350 U	350 U			350 U		360 U
HEXAChLOROBENZENE	350 U	350 U			350 U		360 U
HEXAChLOROBUTADIENE	350 U	350 U			350 U		360 U
HEXAChLOROCYCLOPENTADIENE	350 U	350 U			350 U		360 U
HEXAChLOROETHANE	350 U	350 U			350 U		360 U
INDENO(1,2,3-CD)PYRENE	350 U	350 U			350 U		360 U
ISOPHORONE	350 U	350 U			350 U		360 U
N-NITROSO-DI-N-PROPYLAMINE	350 U	180 JMS	5 *	200 *	350 UMS	0 *	360 U
N-NITROSODIPHENYLAMINE	350 U	350 U			350 U		360 U
NAPHTHALENE	350 U	350 U			350 U		360 U
NITROBENZENE	350 U	350 U			350 U		360 U
NITROBENZENE-D5							
PENTACHLOROPHENOL	1700 U	510 MS	8 *	9	560 MS	8 *	1800 U
PHENANTHRENE	350 U	350 U			350 U		360 U
PHENOL	350 U	320 JMS	5 *	132 *	66 JMS	1 *	360 U
PHENOL-D5							
PYRENE	350 U	530 MS	16 *	16	620 MS	18 *	360 U

TABLE D.6.26 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL121987

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	RET. BASIN
LOCATION	RET. BASIN	MATRIX SPIKE	MS X RECOVERY	RPD	MATRIX DUPLICATE	MSD X RECOVERY	RET. BASIN
TYPE OF LOCATION	ARROYO	LL004033B	LL004033B	LL004033B	LL004033B	LL004033B	ARROYO
SAMPLE NUMBER	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
MATRIX	UG/KG	UG/KG	X	X	UG/KG	X	UG/KG
UNITS	1	1	1	1	1	1	1
ENV PROBLEM NO							
TERPHENYL-D14							
1,2-DICHLOROBENZENE	350 U	350 U			350 U		360 U
1,2,4-TRICHLOROBENZENE	350 U	150 JMS	4 X	200 X	350 UMS	0 X	360 U
1,3-DICHLOROBENZENE	350 U	350 U			350 U		360 U
1,4-DICHLOROBENZENE	350 U	43 JMS	1 X	200 X	350 UMS	0 X	360 U
2-CHLORONAPHTHALENE	350 U	350 U			350 U		360 U
2-CHLOROPHENOL	350 U	310 JMS	4 X	200 X	350 UMS	0 X	360 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	350 U	350 U			350 U		360 U
2-METHYLPHENOL	350 U	350 U			350 U		360 U
2-NITROANILINE	1700 U	1700 U			1700 U		1800 U
2-NITROPHENOL	350 U	350 U			350 U		360 U
2,4-DICHLOROPHENOL	350 U	350 U			350 U		360 U
2,4-DIMETHYLPHENOL	350 U	350 U			350 U		360 U
2,4-DINITROPHENOL	1700 U	1700 U			1700 U		1800 U
2,4-DINITROTOLUENE	350 U	350 UMS	0 X	0	350 UMS	0 X	360 U
2,4,5-TRICHLOROPHENOL	1700 U	1700 U			1700 U		1800 U
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	350 U	350 U			350 U		360 U
2,6-DINITROTOLUENE	350 U	350 U			350 U		360 U
3-NITROANILINE	1700 U	1700 U			1700 U		1800 U
3,3'-DICHLOROBENZIDINE	700 U	690 U			690 U		730 U
4-BROMOPHENYL-PHENYLETHER	350 U	350 U			350 U		360 U
4-CHLORO-3-METHYLPHENOL	350 U	370 MS	5 X	51 X	220 JMS	3 X	360 U
4-CHLOROANILINE	350 U	350 U			350 U		360 U
4-CHLOROPHENYL-PHENYLETHER	350 U	350 U			350 U		360 U
4-METHYLPHENOL	350 U	350 U			350 U		360 U
4-NITROANILINE	1700 U	1700 U			1700 U		1800 U
4-NITROPHENOL	1700 U	1700 UMS	0 X	0	1700 UMS	0 X	1800 U
4,6-DINITRO-2-METHYLPHENOL	1700 U	1700 U			1700 U		1800 U
SURR 1(NBZ) %RECOVERY	0 X	5 X			0 X		0 X
SURR 2(FBP) %RECOVERY	2 X	7 X			0 X		0 X
SURR 3(TPH) %RECOVERY	14 X	8 X			0 X		18
SURR 4(PHL) %RECOVERY	1 X	4 X			2 X		0 X
SURR 5(2FP) %RECOVERY	0 X	3 X					0 X
SURR 6(TBP) %RECOVERY	8 X	10 X			20		4 X

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TABLE D.6.26 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL121987

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	RET. BASIN
LOCATION	RET. BASIN	MATRIX SPIKE	MS % RECOVERY	RPD	MATRIX SPIKE	MSD % RECOVERY	RET. BASIN
TYPE OF LOCATION	ARROYO	LL004033B	LL004033B	LL004033B	LL004033B	LL004033B	ARROYO
SAMPLE NUMBER	LL004033B	SOIL UG/KG	SOIL UG/KG	SOIL	SOIL UG/KG	SOIL UG/KG	LL004022B
MATRIX UNITS	UG/KG	%	%	%	X	X	SOIL UG/KG
ENV PROBLEM NO	1	1	1	1	1	1	1
M/E 68-1							
M/E 68-2							
M/E 69							
M/E 70-1							
M/E 70-2							
M/E 127							
M/E 197							
M/E 198							
M/E 199							
M/E 275							
M/E 365							
M/E 441							
M/E 442							
M/E 443-1							
M/E 443-2							
INTERNAL STD AREA(ANT)	72300	80000			60300		57500
INTERNAL STD AREA(CRY)	72700	76300			51700		52100
INTERNAL STD AREA(DCB)	43800	48200			36500		37400
INTERNAL STD AREA(NPT)	146000	151000			120000		122000
INTERNAL STD AREA(PHN)	108000	113000			85000		78100
INTERNAL STD AREA(PRY)	50000	52300			38500		36000
DILUTION FACTOR	1	1			1		1
PERCENT MOISTURE	4	4			4		8
ACTUAL(ALLOWED) EXTRACT TIME	5(14 D)	5(14 D)			5(14 D)		5(14 D)
AREA							
LOCATION	RET. BASIN						
TYPE OF LOCATION	ARROYO						
SAMPLE NUMBER	LL004044B						
MATRIX	SOIL						
UNITS	UG/KG						
ENV PROBLEM NO	1						
ACENAPHTHENE	360 U						

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TABLE D.6.26 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL121987

DRAFT DO NOT CITE

## AREA

LOCATION	RET. BASIN
TYPE OF LOCATION	ARROYO
SAMPLE NUMBER	LL004044B
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	1

ACENAPHTHYLENE	360 U
ANTHRACENE	360 U
BENZO(A)ANTHRACENE	360 U
BENZO(A)PYRENE	360 U
BENZO(B)FLUORANTHENE	360 U
BENZO(G,H,I)PERYLENE	360 U
BENZO(K)FLUORANTHENE	360 U
BENZOIC ACID	1800 U
BENZYL ALCOHOL	360 U
BIS(2-CHLOROETHOXY)METHANE	360 U
BIS(2-CHLOROISOPROPYL)ETHER	360 U
BIS(2-CHROETHYL)ETHER	360 U
BIS(2-ETHYLHEXYL)PHTHALATE	360 U
BUTYLBENZYLPHthalate	360 U
CHRYSENE	360 U
DI-N-BUTYLPHthalate	360 U
DI-N-OCTYLPHthalate	360 U
DIBENZ(A,H)ANTHRACENE	360 U
DIBENZOFURAN	360 U
DIETHYLPHthalate	360 U
DIMETHYLPHthalate	360 U
FLUORANTHENE	360 U
FLUORENE	360 U
HEXACHLOROBENZENE	360 U
HEXACHLOROBUTADIENE	360 U
HEXACHLOROCYCLOPENTADIENE	360 U
HEXACHLOROETHANE	360 U
INDENO(1,2,3-CD)PYRENE	360 U
ISOPHORONE	360 U
N-NITROSO-DI-N-PROPYLAMINE	360 U
N-NITROSODIPHENYLAMINE	360 U
NAPHTHALENE	360 U
NITROBENZENE	360 U
NITROBENZENE-D5	
PENTACHLOROPHENOL	1800 U
PHENANTHRENE	360 U
PHENOL	360 U
PHENOL-D5	
PYRENE	360 U

TABLE D.6.26 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL121987

DRAFT DO NOT CITE

## AREA

LOCATION	RET. BASIN
TYPE OF LOCATION	ARROYO
SAMPLE NUMBER	LL004044B
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	1
TERPHENYL-D14	
1,2-DICHLOROBENZENE	360 U
1,2,4-TRICHLOROBENZENE	360 U
1,3-DICHLOROBENZENE	360 U
1,4-DICHLOROBENZENE	360 U
2-CHLORONAPHTHALENE	360 U
2-CHLOROPHENOL	360 U
2-FLUOROBIPHENYL	
2-FLUOROPHENOL	
2-METHYLNAPHTHALENE	360 U
2-METHYLPHENOL	360 U
2-NITROANILINE	1800 U
2-NITROPHENOL	360 U
2,4-DICHLOROPHENOL	360 U
2,4-DIMETHYLPHENOL	360 U
2,4-DINITROPHENOL	1800 U
2,4-DINITROTOLUENE	360 U
2,4,5-TRICHLOROPHENOL	1800 U
2,4,6-TRIBROMOPHENOL	
2,4,6-TRICHLOROPHENOL	360 U
2,6-DINITROTOLUENE	360 U
3-NITROANILINE	1800 U
3,3'-DICHLOROBENZIDINE	720 U
4-BROMOPHENYL-PHENYLETHER	360 U
4-CHLORO-3-METHYLPHENOL	360 U
4-CHLOROANILINE	360 U
4-CHLOROPHENYL-PHENYLETHER	360 U
4-METHYLPHENOL	360 U
4-NITROANILINE	1800 U
4-NITROPHENOL	1800 U
4,6-DINITRO-2-METHYLPHENOL	1800 U
SURR 1(NBZ) %RECOVERY	0 *
SURR 2(FBP) %RECOVERY	3 *
SURR 3(TPH) %RECOVERY	16 *
SURR 4(PHL) %RECOVERY	2 *
SURR 5(2FP) %RECOVERY	0 *
SURR 6(TBP) %RECOVERY	10 *

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TABLE D.6.26 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL121987

DRAFT DO NOT CITE

AREA

LOCATION  
TYPE OF LOCATION  
SAMPLE NUMBER  
MATRIX  
UNITS  
ENV PROBLEM NO

RET. BASIN  
ARROYO  
LL004044B  
SOIL  
UG/KG  
1

M/E 68-1  
M/E 68-2  
M/E 69  
M/E 70-1  
M/E 70-2  
M/E 127  
M/E 197  
M/E 198  
M/E 199  
M/E 275  
M/E 365  
M/E 441  
M/E 442  
M/E 443-1  
M/E 443-2

INTERNAL STD AREA(ANT) 73700  
INTERNAL STD AREA(CRY) 63100  
INTERNAL STD AREA(DCB) 43300  
INTERNAL STD AREA(NPT) 143000  
INTERNAL STD AREA(PHN) 102000  
INTERNAL STD AREA(PRY) 47300

DILUTION FACTOR 1  
PERCENT MOISTURE 7  
ACTUAL(ALLOWED) EXTRACT TIME 5(14 D)

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TABLE D.6.27 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122087

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	ISTD	RET	TIM	BLDG.	805	RET.	BASIN	865 AREA
LOCATION	TUNED	CONTINUING	CONTINUING		SHIFT	DRAINS		ARROYO		DITCH		
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D		LL1220878	LL033016B		LL004011B		LL039045B		
SAMPLE NUMBER	LL1220875	LL1220877	LL1220877									
MATRIX	%	RRF	%	AREA		SOIL		SOIL		SOIL		
UNITS					6	UG/KG		UG/KG		UG/KG		
ENV PROBLEM NO								1		11		
ACENAPHTHENE		1.327	1.5			340 U		360 U		490 U		
ACENAPHTHYLENE		1.825	7.4			340 U		360 U		490 U		
ANTHRACENE		1.093	0.2			340 U		360 U		490 U		
BENZO(A)ANTHRACENE		1.233	5.6			120 J		360 U		490 U		
BENZO(A)PYRENE		1.425	3.8			340 U		360 U		490 U		
BENZO(B)FLUORANTHENE		2.171	21.9			340 U		360 U		490 U		
BENZO(G,H,I)PERYLENE		0.837	7.7			340 U		360 U		490 U		
BENZO(K)FLUORANTHENE		1.328	18.7			340 U		360 U		490 U		
BENZOIC ACID		0.12	18.4			1700 U		1800 U		2400 U		
BENZYL ALCOHOL		1.04	1.7			340 U		360 U		490 U		
BIS(2-CHLOROETHOXY)METHANE		0.522	4.2			340 U		360 U		490 U		
BIS(2-CHLOROISOPROPYL)ETHER		1.649	7.3			340 U		360 U		490 U		
BIS(2-CHOROETHYL)ETHER		1.796	3			340 U		360 U		490 U		
BIS(2-ETHYLHEXYL)PHTHALATE		1.575	6			970		360 U		490 U		
BUTYLBENZYLPHthalate		0.963	3.2			340 U		360 U		490 U		
CHRYSENE		1.311	9.9			150 J		360 U		490 U		
DI-N-BUTYLPHthalate		1.671	14.8			340 U		360 U		490 U		
DI-N-OCTYLPHthalate		3.98	18.2			340 U		360 U		49 J		
DIBENZ(A,H)ANTHRACENE		0.81	1.5			340 U		360 U		490 U		
DIBENZOFURAN		1.901	2.4			340 U		360 U		490 U		
DIETHYLPHthalate		1.782	10.2			340 U		360 U		490 U		
DIMETHYLPHthalate		1.461	1.8			340 U		360 U		490 U		
FLUORANTHENE		0.017	5.8			310 J		360 U		490 U		
FLUORENE		1.232	1.4			340 U		360 U		490 U		
HEXAChLOROBENZENE		0.25	6.4			340 U		360 U		490 U		
HEXAChLOROBUTADIENE		0.185	1.1			340 U		360 U		490 U		
HEXAChLOROCYCLOPENTADIENE		0.104	34.2			340 U		360 U		490 U		
HEXAChLOROETHANE		0.712	2.9			340 U		360 U		490 U		
INDENO(1,2,3-CD)PYRENE		1.066	1.8			340 U		360 U		490 U		
ISOPHORONE		0.887	5			340 U		360 U		490 U		
N-NITROSO-DI-N-PROPYLAMINE		0.447	5.5			340 U		360 U		490 U		
N-NITROSODIPHENYLAMINE		0.486	2.3			340 U		360 U		490 U		
NAPHTHALENE		1.143	20.4			340 U		360 U		490 U		
NITROBENZENE		0.427	0.7			340 U		360 U		490 U		
NITROBENZENE-D5		0.391	1									
PENTACHLOROPHENOL		0.112	16.4			1700 U		1800 U		2400 U		
PHENANTHRENE		1.041	2.5			300 J		360 U		490 U		
PHENOL		1.841	1.7			340 U		360 U		490 U		
PHENOL-D5		1.378	5									

**TABLE D.6.27 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122087**

DRAFT DO NOT CITE

DRAFT DO NOT CITE

TABLE D.6.27 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122087

AREA	QA	QA	QA	QA	ISTD	RET	TIM	BLDG.	805	RET.	BASIN	865 AREA
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL X'D		SHIFT	DRAINS	LL033016B	ARROYO	ARROYO	LL04011B	DITCH	
TYPE OF LOCATION	LL1220875	LL1220877	LL1220877		LL1220878	SOIL	SOIL	SOIL	SOIL	11	SOIL	
SAMPLE NUMBER						UG/KG	UG/KG	UG/KG	UG/KG	1	UG/KG	
MATRIX	%	RRF	%	AREA		6						
UNITS												
ENV PROBLEM NO												
M/E 51		36										
M/E 68-1		0										
M/E 68-2		0										
M/E 69		42										
M/E 70-1		0										
M/E 70-2		50										
M/E 127		0										
M/E 197		100										
M/E 198		6.1										
M/E 199		20										
M/E 275		4.3										
M/E 365		8.4										
M/E 441		57										
M/E 442		10										
M/E 443-1		17										
M/E 443-2												
INTERNAL STD AREA(ANT)					73300		74900		69000		79100	
INTERNAL STD AREA(CRY)					84100		80000		61000		83200	
INTERNAL STD AREA(DCB)					40000		42400		41100		48900	
INTERNAL STD AREA(NPT)					144000		148000		132000		168000	
INTERNAL STD AREA(PHN)					119000		119000		93700		141000	
INTERNAL STD AREA(PRY)					47100		55200		44600		53600	
DILUTION FACTOR									1	1	1	
PERCENT MOISTURE									1	8	31	
ACTUAL(ALLOWED) EXTRACT TIME									5(14 D)	5(14 D)	5(14 D)	
AREA												
LOCATION	865 AREA	865 AREA	STP OVERFLOW	LAS POSITAS	LAS POSITAS							
TYPE OF LOCATION	DITCH	DITCH	POND	ARROYO	ARROYO							
SAMPLE NUMBER	LL039034B	LL039023B	LL037010B	LL008026B	LL006024B							
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL							
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG							
ENV PROBLEM NO	11	11	10	1	1							
ACENAPHTHENE	420 U	390 U	340 U	370 U	370 U							

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TABLE D.6.27 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122087

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	865 AREA DITCH LL039034B SOIL UG/KG 11	865 AREA DITCH LL039023B SOIL UG/KG 11	STP OVERFLOW POND LL037010B SOIL UG/KG 10	LAS POSITAS ARROYO LL008026B SOIL UG/KG 1	LAS POSITAS ARROYO LL006024B SOIL UG/KG 1
ACENAPHTHYLENE	420 U	390 U	340 U	370 U	370 U
ANTHRACENE	420 U	390 U	340 U	370 U	370 U
BENZO(A)ANTHRACENE	420 U	390 U	340 U	370 U	370 U
BENZO(A)PYRENE	420 U	390 U	340 U	370 U	370 U
BENZO(B)FLUORANTHENE	420 U	390 U	340 U	370 U	370 U
BENZO(G,H,I)PERYLENE	420 U	390 U	340 U	370 U	370 U
BENZO(K)FLUORANTHENE	420 U	390 U	340 U	370 U	370 U
BENZOIC ACID	2100 U	1900 U	1700 U	1800 U	1800 U
BENZYL ALCOHOL	420 U	390 U	340 U	370 U	370 U
BIS(2-CHLOROETHOXY)METHANE	420 U	390 U	340 U	370 U	370 U
BIS(2-CHLOROISOPROPYL)ETHER	420 U	390 U	340 U	370 U	370 U
BIS(2-CHLOROETHYL)ETHER	420 U	390 U	340 U	370 U	370 U
BIS(2-ETHYLHEXYL)PHTHALATE	420 U	390 U	340 U	370 U	370 U
BUTYL BENZYL PHTHALATE	420 U	390 U	340 U	370 U	370 U
CHRYSENE	420 U	390 U	340 U	370 U	370 U
DI-N-BUTYLPHthalate	420 U	390 U	550	370 U	370 U
DI-N-OCTYLPHthalate	420 U	390 U	340 U	370 U	370 U
DIBENZ(A,H)ANTHRACENE	420 U	390 U	340 U	370 U	370 U
DIBENZOFURAN	420 U	390 U	340 U	370 U	370 U
DIETHYLPHthalate	420 U	390 U	340 U	370 U	370 U
DIMETHYLPHthalate	420 U	390 U	340 U	370 U	370 U
FLUORANTHENE	420 U	390 U	340 U	370 U	370 U
FLUORENE	420 U	390 U	340 U	370 U	370 U
HEXACHLOROBENZENE	420 U	390 U	340 U	370 U	370 U
HEXACHLOROBUTADIENE	420 U	390 U	340 U	370 U	370 U
HEXACHLOROCYCLOPENTADIENE	420 U	390 U	340 U	370 U	370 U
HEXACHLOROETHANE	420 U	390 U	340 U	370 U	370 U
INDENO(1,2,3-CD)PYRENE	420 U	390 U	340 U	370 U	370 U
ISOPHORONE	420 U	390 U	340 U	370 U	370 U
N-NITROSO-DI-N-PROPYLAMINE	420 U	390 U	340 U	370 U	370 U
N-NITROSODIPHENYLAMINE	420 U	390 U	340 U	370 U	370 U
NAPHTHALENE	420 U	390 U	340 U	370 U	370 U
NITROBENZENE	420 U	390 U	340 U	370 U	370 U
NITROBENZENE-D5					
PENTACHLOROPHENOL	2100 U	1900 U	1700 U	1800 U	1800 U
PHENANTHRENE	420 U	390 U	340 U	370 U	370 U
PHENOL	420 U	390 U	340 U	370 U	370 U
PHENOL-D5					
PYRENE	420 U	390 U	340 U	370 U	370 U

TABLE D.6.27 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122087

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	865 AREA DITCH LL039034B	865 AREA DITCH LL039023B	STP OVERFLOW POND LL037010B	LAS POSITAS ARROYO LL008026B	LAS POSITAS ARROYO LL006024B
	11	11	10	1	1
TERPHENYL-D14					
1,2-DICHLOROBENZENE	420 U	390 U	340 U	370 U	370 U
1,2,4-TRICHLOROBENZENE	420 U	390 U	340 U	370 U	370 U
1,3-DICHLOROBENZENE	420 U	390 U	340 U	370 U	370 U
1,4-DICHLOROBENZENE	420 U	390 U	340 U	370 U	370 U
2-CHLORONAPHTHALENE	420 U	390 U	340 U	370 U	370 U
2-CHLOROPHENOL	420 U	390 U	340 U	370 U	370 U
2-FLUOROBIPHENYL					
2-FLUOROPHENOL					
2-METHYLNAPHTHALENE	420 U	390 U	340 U	370 U	370 U
2-METHYLPHENOL	420 U	390 U	340 U	370 U	370 U
2-NITROANILINE	2100 U	1900 U	1700 U	1800 U	1800 U
2-NITROPHENOL					
2,4-DICHLOROPHENOL	420 U	390 U	340 U	370 U	370 U
2,4-DIMETHYLPHENOL	420 U	390 U	340 U	370 U	370 U
2,4-DINITROPHENOL	2100 U	1900 U	1700 U	1800 U	1800 U
2,4-DINITROTOLUENE	420 U	390 U	340 U	370 U	370 U
2,4,5-TRICHLOROPHENOL	2100 U	1900 U	1700 U	1800 U	1800 U
2,4,6-TRIBROMOPHENOL					
2,4,6-TRICHLOROPHENOL	420 U	390 U	340 U	370 U	370 U
2,6-DINITROTOLUENE	420 U	390 U	340 U	370 U	370 U
3-NITROANILINE	2100 U	1900 U	1700 U	1800 U	1800 U
3,3'-DICHLOROBENZIDINE	830 U	770 U	670 U	730 U	730 U
4-BROMOPHENYL-PHENYLETHER	420 U	390 U	340 U	370 U	370 U
4-CHLORO-3-METHYLPHENOL	420 U	390 U	340 U	370 U	370 U
4-CHLOROANILINE	420 U	390 U	340 U	370 U	370 U
4-CHLOROPHENYL-PHENYLETHER	420 U	390 U	340 U	370 U	370 U
4-METHYLPHENOL	420 U	390 U	340 U	370 U	370 U
4-NITROANILINE	2100 U	1900 U	1700 U	1800 U	1800 U
4-NITROPHENOL	2100 U	1900 U	1700 U	1800 U	1800 U
4,6-DINITRO-2-METHYLPHENOL	2100 U	1900 U	1700 U	1800 U	1800 U
SURR 1(NBZ) %RECOVERY	0 *	0 *	16 *	0 *	5 *
SURR 2(FBP) %RECOVERY	8 *	13 *	25 *	0 *	10 *
SURR 3(TPH) %RECOVERY	25	22	44	16 *	17 *
SURR 4(PHL) %RECOVERY	2 *	8 *	20 *	0 *	6 *
SURR 5(ZFP) %RECOVERY	0 *	1 *	24 *	0 *	5 *
SURR 6(TBP) %RECOVERY	18 *	15 *	31	0 *	9 *

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TABLE D.6.27 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122087

DRAFT DO NOT CITE

## AREA

LOCATION	865 AREA	865 AREA	STP OVERFLOW	LAS POSITAS	LAS POSITAS
TYPE OF LOCATION	DITCH	DITCH	POND	ARROYO	ARROYO
SAMPLE NUMBER	LL039034B	LL039023B	LL037010B	LL008026B	LL006024B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	11	11	10	1	1

M/E 68-1  
M/E 68-2  
M/E 69  
M/E 70-1  
M/E 70-2  
M/E 127  
M/E 197  
M/E 198  
M/E 199  
M/E 275  
M/E 365  
M/E 441  
M/E 442  
M/E 443-1  
M/E 443-2

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INTERNAL STD AREA(CANT)	53780	58180	53400	53000	55300
INTERNAL STD AREA(CRY)	63000	58800	51100	51200	50700
INTERNAL STD AREA(DCB)	32100	34700	36500	35000	35400
INTERNAL STD AREA(NPT)	111000	116000	119000	119000	115000
INTERNAL STD AREA(PHN)	78700	98000	86900	73700	78100
INTERNAL STD AREA(PRY)	37100	42000	36500	38600	36200

DILUTION FACTOR	1	1	1	1	1
PERCENT MOISTURE	20	14	1	9	9
ACTUAL(ALLOWED) EXTRACT TIME	5(14 D)	5(14 D)	6(14 D)	4(14 D)	5(14 D)

TABLE D.6.28 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122187

DRAFT DO NOT CITE

AREA	QA RRF LL1216876	QA % RSD LL1216876	QA %	QA RRF LL1221875	CONTINUING CALIBRATION LL1221877	CONTINUING CAL %D LL1221877	ISTD SHIFT LL1221878	RET TIME	TIM LL006013B	LAS POSITAS ARROYO SOIL UG/KG
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO							AREA	1		
ACENAPHTHENE	1.307	7			1.345	2.9		360	U	
ACENAPHTHYLENE	1.7	12.7			1.786	5.1		360	U	
ANTHRACENE	1.095	7.2			0.997	8.9		360	U	
BENZO(A)ANTHRACENE	1.306	3			1.276	2.3		360	U	
BENZO(A)PYRENE	1.482	4.4			1.44	2.8		360	U	
BENZO(B)FLUORANTHENE	1.781	10.8			1.534	13.9		360	U	
BENZO(G,H,I)PERYLENE	0.907	8.9			0.939	3.5		360	U	
BENZO(K)FLUORANTHENE	1.634	13.4			1.901	16.3		360	U	
BENZOIC ACID	0.147	25.8			0.116	21.1		1800	U	
BENZYL ALCOHOL	1.058	7.3			1.068	0.9		360	U	
BIS(2-CHLOROETHOXY)METHANE	0.501	9.5			0.495	1.2		360	U	
BIS(2-CHLOROISOPROPYL)ETHER	1.779	12			1.863	4.7		360	U	
BIS(2-CHOROETHYL)ETHER	1.743	13.2			1.887	8.3		360	U	
BIS(2-ETHYLHEXYL)PHTHALATE	1.486	12.3			1.729	16.4		360	U	
BUTYLBENZYLPHthalate	0.995	7			0.997	0.2		360	U	
CHRYSENE	1.193	37.4			1.37	14.8		360	U	
DI-N-BUTYLPHthalate	1.455	20.1			1.524	4.7		360	U	
DI-N-OCTYLPHthalate	3.367	14.8			3.783	12.4		360	U	
DIBENZ(A,H)ANTHRACENE	0.822	26.2			0.94	14.4		360	U	
DIBENZOFURAN	1.856	11.3			1.823	1.8		360	U	
DIETHYLPHthalate	1.617	10.4			1.607	0.6		360	U	
DIMETHYLPHthalate	1.435	5.6			1.399	2.5		360	U	
FLUORANTHENE	1.08	5.8			0.986	8.7		360	U	
FLUORENE	1.215	7.4			1.268	4.4		360	U	
HEXACHLOROBENZENE	0.267	3.2			0.234	12.4		360	U	
HEXACHLOROBUTADIENE	0.187	3.8			0.181	3.2		360	U	
HEXACHLOROCYCLOPENTADIENE	0.158	32.6			0.087	44.9		360	U	
HEXACHLOROETHANE	0.692	4.3			0.715	3.3		360	U	
INDENO(1,2,3-CD)PYRENE	1.085	26.9			1.255	15.7		360	U	
ISOPHORONE	0.845	7.6			0.899	6.4		360	U	
N-NITROSO-DI-N-PROPYLAMINE	0.473	5.6			0.445	5.9		360	U	
N-NITROSODIPHENYLAMINE	0.475	6.3			0.489	2.9		360	U	
NAPHTHALENE	0.949	22.2			1.125	18.5		360	U	
NITROBENZENE	0.424	10.7			0.413	2.6		360	U	
NITROBENZENE-D5	0.395	5.9			0.389	1.5				
PENTACHLOROPHENOL	0.134	13			0.098	26.9		1800	U	
PHENANTHRENE	1.068	4.7			1.047	2		360	U	
PHENOL	1.811	6.9			1.965	8.5		360	U	
PHENOL-D5	1.45	5.1			1.494	3				

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TABLE D.6.28 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122187

DRAFT DO NOT CITE

AREA	QA RRF LL1216876	QA % RSD LL1216876	QA %	QA RRF LL1221875	CONTINUING CALIBRATION LL1221877	CONTINUING CAL %D LL1221877	ISTD SHIFT LL1221878	RET TIME	LAS ARROYO LL006013B	POSITAS SOIL UG/KG
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO										1
PYRENE	1.516	3.3		1.667	10					360 U
TERPHENYL-D14	0.907	2.4		0.968	6.7					
1,2-DICHLOROBENZENE	1.54	5.4		1.636	6.2					360 U
1,2,4-TRICHLOROBENZENE	0.334	3.9		0.328	1.8					360 U
1,3-DICHLOROBENZENE	1.519	4.4		1.62	6.6					360 U
1,4-DICHLOROBENZENE	1.569	5.8		1.612	2.7					360 U
2-CHLORONAPHTHALENE	1.211	6.7		1.164	3.9					360 U
2-CHLOROPHENOL	1.556	3.1		1.567	0.7					360 U
2-FLUOROBIPHENYL	1.163	6.2		1.235	6.2					
2-FLUOROPHENOL	1.234	5.5		1.409	14.2					
2-METHYLNAPHTHALENE	0.704	13.5		0.749	6.4					360 U
2-METHYLPHENOL	1.258	7.4		1.292	2.7					360 U
2-NITROANILINE	0.46	12.8		0.33	28.3					1800 U
2-NITROPHENOL	0.222	6.1		0.229	3.2					360 U
2,4-DICHLOROPHENOL	0.326	5.7		0.295	9.5					360 U
2,4-DIMETHYLPHENOL	0.427	8.9		0.404	5.4					360 U
2,4-DINITROPHENOL	0.087	28.4		0.05	42.5					1800 U
2,4-DINITROTOLUENE	0.387	5.2		0.363	6.2					360 U
2,4,5-TRICHLOROPHENOL	0.351	6.6		0.321	8.5					1800 U
2,4,6-TRIBROMOPHENOL	0.156	8.3		0.135	13.5					
2,4,6-TRICHLOROPHENOL	0.37	7.3		0.357	3.5					360 U
2,6-DINITROTOLUENE	0.298	10.1		0.282	5.4					360 U
3-NITROANILINE	0.136	68.8		0.088	35.3					1800 U
3,3'-DICHLOROBENZIDINE	0.227	12.3		0.179	21.1					730 U
4-BROMOPHENYL-PHENYLETHER	0.232	4		0.205	11.6					360 U
4-CHLORO-3-METHYLPHENOL	0.357	9.8		0.345	3.4					360 U
4-CHLOROANILINE	0.283	51		0.245	13.4					360 U
4-CHLOROPHENYL-PHENYLETHER	0.618	3		0.552	10.7					360 U
4-METHYLPHENOL	1.25	7.1		1.364	9.1					360 U
4-NITROANILINE	0.112	27.6		0.062	44.6					1800 U
4-NITROPHENOL	0.129	23.2		0.055	57.4					1800 U
4,6-DINITRO-2-METHYLPHENOL	0.103	26.1		0.077	25.2					1800 U
SURR 1(NBZ) XRECOVERY										0 X
SURR 2(FBP) XRECOVERY										0 X
SURR 3(TPH) XRECOVERY										18
SURR 4(PHL) XRECOVERY										0 X
SURR 5(2FP) XRECOVERY										0 X
SURR 6(TBP) XRECOVERY										6

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TABLE D.6.28 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122187

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	ISTD	RET	TIM	LAS	POSITAS
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	CONTINUING	CONTINUING	SHIFT				ARROYO	
TYPE OF LOCATION	RRF	% RSD	CALIBRATION	CALIBRATION	CAL XD	LL1221878	LL006013B			SOIL	
SAMPLE NUMBER	LL1216876	LL1216876	LL1221875	LL1221877	LL1221877	LL1221878	LL006013B			UG/KG	
MATRIX	RRF	%	%	RRF	%	AREA				1	
UNITS											
ENV PROBLEM NO											
M/E 51				41							
M/E 68-1				0							
M/E 68-2				0							
M/E 69				49							
M/E 70-1				0							
M/E 70-2				0							
M/E 127				53							
M/E 197				0							
M/E 198				100							
M/E 199				7.2							
M/E 275				19							
M/E 365				3.8							
M/E 441				8.9							
M/E 442				49							
M/E 443-1				10							
M/E 443-2				21							
INTERNAL STD AREA(ANT)						77500		59200			
INTERNAL STD AREA(CRY)						74400		51400			
INTERNAL STD AREA(DCB)						39400		36200			
INTERNAL STD AREA(NPT)						151000		120000			
INTERNAL STD AREA(PHN)						121000		76600			
INTERNAL STD AREA(PRY)						47200		34200			
DILUTION FACTOR										1	
PERCENT MOISTURE										8	
ACTUAL(ALLOWED) EXTRACT TIME										5(14 D)	
AREA											
LOCATION	LAS POSITAS	LAS POSITAS									
TYPE OF LOCATION	ARROYO	ARROYO									
SAMPLE NUMBER	LL005023B	LL008037B									
MATRIX	SOIL	SOIL									
UNITS	UG/KG	UG/KG									
ENV PROBLEM NO	1	1									
ACENAPHTHENE	360 U	370 U									

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TABLE D.6.28 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122187

DRAFT DO NOT CITE

## AREA

LOCATION	LAS POSITAS	LAS POSITAS
TYPE OF LOCATION	ARROYO	ARROYO
SAMPLE NUMBER	LL005023B	LL008037B
MATRIX	SOIL	SOIL
UNITS	UG/KG	UG/KG
ENV PROBLEM NO	1	1

ACENAPHTHYLENE	360 U	370 U
ANTHRACENE	360 U	370 U
BENZO(A)ANTHRACENE	360 U	370 U
BENZO(A)PYRENE	360 U	370 U
BENZO(B)FLUORANTHENE	360 U	370 U
BENZO(G,H,I)PERYLENE	360 U	370 U
BENZO(K)FLUORANTHENE	360 U	370 U
BENZOIC ACID	1800 U	1800 U
BENZYL ALCOHOL	360 U	370 U
BIS(2-CHLOROETHOXY)METHANE	360 U	370 U
BIS(2-CHLOROISOPROPYL)ETHER	360 U	370 U
BIS(2-CHRODETHYL)ETHER	360 U	370 U
BIS(2-ETHYLHEXYL)PHTHALATE	360 U	370 U
BUTYL BENZYL PHTHALATE	360 U	370 U
CHRYSENE	360 U	370 U
DI-N-BUTYL PHTHALATE	710 U	370 U
DI-N-OCTYL PHTHALATE	360 U	370 U
DIBENZ(A,H)ANTHRACENE	360 U	370 U
DIBENZOFURAN	360 U	370 U
DIETHYL PHTHALATE	360 U	370 U
DIMETHYL PHTHALATE	360 U	370 U
FLUORANTHENE	360 U	370 U
FLUORENE	360 U	370 U
HEXA CHLOROBENZENE	360 U	370 U
HEXA CHLOROBUTADIENE	360 U	370 U
HEXA CHLOROCYCLOPENTADIENE	360 U	370 U
HEXA CHLOROETHANE	360 U	370 U
INDENO(1,2,3-CD)PYRENE	360 U	370 U
ISOPHORONE	360 U	370 U
N-NITROSO-DI-N-PROPYLAMINE	360 U	370 U
N-NITROSODIPHENYLAMINE	360 U	370 U
NAPHTHALENE	360 U	370 U
NITROBENZENE	360 U	370 U
NITROBENZENE-D5		
PENTACHLOROPHENOL	1800 U	1800 U
PHENANTHRENE	360 U	370 U
PHENOL	360 U	370 U
PHENOL-D5		
PYRENE	360 U	370 U

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TABLE D.6.28 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122187

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	LAS POSITAS ARROYO LL005023B SOIL UG/KG 1	LAS POSITAS ARROYO LL008037B SOIL UG/KG 1
TERPHENYL-D14		
1,2-DICHLOROBENZENE	360 U	370 U
1,2,4-TRICHLOROBENZENE	360 U	370 U
1,3-DICHLOROBENZENE	360 U	370 U
1,4-DICHLOROBENZENE	360 U	370 U
2-CHLORONAPHTHALENE	360 U	370 U
2-CHLOROPHENOL	360 U	370 U
2-FLUOROBIPHENYL		
2-FLUOROPHENOL		
2-METHYLNAPHTHALENE	360 U	370 U
2-METHYLPHENOL	360 U	370 U
2-NITROANILINE	1800 U	1800 U
2-NITROPHENOL	360 U	370 U
2,4-DICHLOROPHENOL	360 U	370 U
2,4-DIMETHYLPHENOL	360 U	370 U
2,4-DINITROPHENOL	1800 U	1800 U
2,4-DINITROTOLUENE	360 U	370 U
2,4,5-TRICHLOROPHENOL	1800 U	1800 U
2,4,6-TRIBROMOPHENOL		
2,4,6-TRICHLOROPHENOL	360 U	370 U
2,6-DINITROTOLUENE	360 U	370 U
3-NITROANILINE	1800 U	1800 U
3,3'-DICHLOROBENZIDINE	720 U	730 U
4-BROMOPHENYL-PHENYLETHER	360 U	370 U
4-CHLORO-3-METHYLPHENOL	360 U	370 U
4-CHLOROANILINE	360 U	370 U
4-CHLOROPHENYL-PHENYLETHER	360 U	370 U
4-METHYLPHENOL	360 U	370 U
4-NITROANILINE	1800 U	1800 U
4-NITROPHENOL	1800 U	1800 U
4,6-DINITRO-2-METHYLPHENOL	1800 U	1800 U
SURR 1(NBZ) %RECOVERY	17 *	0 *
SURR 2(FBP) %RECOVERY	29 *	0 *
SURR 3(TPH) %RECOVERY	40	18
SURR 4(PHL) %RECOVERY	25	0 *
SURR 5(2FP) %RECOVERY	27	0 *
SURR 6(TBP) %RECOVERY	34	2 *

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TABLE D.6.28 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122187

DRAFT DO NOT CITE

## AREA

LOCATION	LAS POSITAS	LAS POSITAS
TYPE OF LOCATION	ARROYO	ARROYO
SAMPLE NUMBER	LL005023B	LL008037B
MATRIX	SOIL	SOIL
UNITS	UG/KG	UG/KG
ENV PROBLEM NO	1	1

M/E 68-1
M/E 68-2
M/E 69
M/E 70-1
M/E 70-2
M/E 127
M/E 197
M/E 198
M/E 199
M/E 275
M/E 365
M/E 441
M/E 442
M/E 443-1
M/E 443-2

INTERNAL STD AREA(ANT)	66800	53900
INTERNAL STD AREA(CRY)	60700	51000
INTERNAL STD AREA(DCB)	37400	35900
INTERNAL STD AREA(NPT)	129000	109000
INTERNAL STD AREA(PHN)	98500	75000
INTERNAL STD AREA(PRY)	44800	34600

DILUTION FACTOR	1	1
PERCENT MOISTURE	8	9
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)	4(14 D)

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TABLE D.6.29 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122287

DRAFT DO NOT CITE

AREA	QA RRF LL1216876	QA % RSD LL1216876	QA %	QA RRF LL1222875	TUNED CALIBRATION LL1222875	QA CONTINUING CALIBRATION LL1222877	QA CONTINUING CAL %D LL1222877	QA ISTD SHIFT LL1222878	RET TIM LL036042B	REANALYSIS SOIL UG/KG 9
LOCATION										
TYPE OF LOCATION										
SAMPLE NUMBER										
MATRIX										
UNITS										
ENV PROBLEM NO										
ACENAPHTHENE	1.307	7				1.318	0.8		370	U
ACENAPHTHYLENE	1.7	12.7				1.809	6.4		370	U
ANTHRACENE	0.267	3.2				1.069	2.4		370	U
BENZO(A)ANTHRACENE	1.095	7.2				1.218	6.7		370	U
BENZO(A)PYRENE	1.516	3.3				1.282	13.5		370	U
BENZO(B)FLUORANTHENE	1.08	5.8				1.843	3.5		370	U
BENZO(G,H,I)PERYLENE	0.227	12.3				0.852	6.1		370	U
BENZO(K)FLUORANTHENE	1.516	3.3				1.401	14.3		370	U
BENZOIC ACID	0.147	25.8				0.091	38.1		1800	U
BENZYL ALCOHOL	1.058	7.3				0.979	7.5		370	U
BIS(2-CHLOROETHOXY)METHANE	0.501	9.5				0.482	3.8		370	U
BIS(2-CHLOROISOPROPYL)ETHER	1.779	12				1.717	3.5		370	U
BIS(2-CHRODETHYL)ETHER	1.743	13.2				1.601	8.1		370	U
BIS(2-ETHYLHEXYL)PHTHALATE	1.455	20.1				1.742	17.2		370	U
BUTYLBENZYLPHthalate	1.068	4.7				1.056	6.1		370	U
CHRYSENE	1.455	20.1				1.231	3.2		370	U
DI-N-BUTYLPHthalate	0.134	13				1.693	16.4		370	U
DI-N-OCTYLPHthalate	1.08	5.8				4.054	20.4		370	U
DIBENZ(A,H)ANTHRACENE	0.995	7				0.768	6.6		370	U
DIBENZOFURAN	1.856	11.3				2.093	12.8		370	U
DIETHYLPHthalate	1.617	10.4				1.602	0.9		370	U
DIMETHYLPHthalate	1.435	5.6				1.412	1.6		370	U
FLUORANTHENE	0.134	13				1.072	0.7		370	U
FLUORENE	1.215	7.4				1.194	1.7		370	U
HEXACHLOROBENZENE	0.232	4				0.244	8.6		370	U
HEXACHLOROBUTADIENE	0.187	3.8				0.173	7.5		370	U
HEXACHLOROCYCLOCOPENTADIENE	0.158	32.6				0.101	36.1		370	U
HEXACHLOROETHANE	0.692	4.3				0.663	4.2		370	U
INDENO(1,2,3-CD)PYRENE	0.995	7				1.001	7.7		370	U
ISOPHORONE	0.845	7.6				0.869	2.8		370	U
N-NITROSO-DI-N-PROPYLAMINE	0.473	5.6				0.477	0.8		370	U
N-NITROSODIPHENYLAMINE	0.475	6.3				0.51	7.4		370	U
NAPHTHALENE	0.949	22.2				1.115	17.5		370	U
NITROBENZENE	0.424	10.7				0.381	10.1		370	U
NITROBENZENE-D5	1.306	3				0.342	13.4			
PENTACHLOROPHENOL	0.232	4				0.112	16.4		1800	U
PHENANTHRENE	0.267	3.2				1.095	2.5		370	U
PHENOL	1.811	6.9				1.673	7.6		370	U
PHENOL-D5	1.193	37.4				1.427	1.6			

TABLE D.6.29 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122287

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	ISTD RET TIM REANALYSIS
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	CONTINUING	CONTINUING	SHIFT	
TYPE OF LOCATION	RRF	% RSD	CALIBRATION	CALIBRATION	CAL %D	LL1222877	LL036042B
SAMPLE NUMBER	LL1216876	LL1216876	LL1222875	LL1222877	LL1222877	LL1222878	SOIL
MATRIX	RRF	X	%	RRF	X	AREA	UG/KG
UNITS							9
ENV PROBLEM NO							
PYRENE	1.068	4.7		1.61	6.2		370 U
TERPHENYL-D14	1.193	37.4		0.854	5.8		
1,2-DICHLOROBENZENE	1.54	5.4		1.472	4.4		370 U
1,2,4-TRICHLOROBENZENE	0.334	3.9		0.32	4.2		370 U
1,3-DICHLOROBENZENE	1.519	4.4		1.426	6.1		370 U
1,4-DICHLOROBENZENE	1.569	5.8		1.532	2.4		370 U
2-CHLORONAPHTHALENE	1.211	6.7		1.19	1.7		370 U
2-CHLOROPHENOL	1.556	3.1		1.478	5		370 U
2-FLUOROBIPHENYL	1.306	3		1.223	5.2		
2-FLUOROPHENOL	1.486	12.3		1.112	9.9		
2-METHYLNAPHTHALENE	0.704	13.5		0.811	15.2		370 U
2-METHYLPHENOL	1.258	7.4		1.168	7.2		370 U
2-NITROANILINE	0.46	12.8		0.338	26.5		1800 U
2-NITROPHENOL	0.222	6.1		0.204	8.1		370 U
2,4-DICHLOROPHENOL	0.326	5.7		0.29	11		370 U
2,4-DIMETHYLPHENOL	0.427	8.9		0.411	3.7		370 U
2,4-DINITROPHENOL	0.087	28.4		0.05	42.5		1800 U
2,4-DINITROTOLUENE	0.387	5.2		0.362	6.5		370 U
2,4,5-TRICHLOROPHENOL	0.351	6.6		0.293	16.5		1800 U
2,4,6-TRIBROMOPHENOL	1.486	12.3		0.125	19.9		
2,4,6-TRICHLOROPHENOL	0.37	7.3		0.329	11.1		370 U
2,6-DINITROTOLUENE	0.298	10.1		0.279	6.4		370 U
3-NITROANILINE	0.136	68.8		0.074	45.6		1800 U
3,3'-DICHLOROBENZIDINE	1.095	7.2		0.161	29.1		740 U
4-BROMOPHENYL-PHENYLETHER	0.475	6.3		0.208	10.3		370 U
4-CHLORO-3-METHYLPHENOL	0.357	9.8		0.315	11.8		370 U
4-CHLOROANILINE	0.283	51		0.181	36		370 U
4-CHLOROPHENYL-PHENYLETHER	0.618	3		0.53	14.2		370 U
4-METHYLPHENOL	1.25	7.1		1.095	12.4		370 U
4-NITROANILINE	0.112	27.6		0.033	70.5		1800 U
4-NITROPHENOL	0.129	23.2		0.052	59.7		1800 U
4,6-DINITRO-2-METHYLPHENOL	0.103	26.1		0.077	25.2		1800 U
SURR 1(NBZ) XRECOVERY							0 X
SURR 2(FBP) XRECOVERY							0 X
SURR 3(TPH) XRECOVERY							12 X
SURR 4(PHL) XRECOVERY							0 X
SURR 5(2FP) XRECOVERY							0 X
SURR 6(TBP) XRECOVERY							6 X

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TABLE D.6.29 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122287

DRAFT DO NOT CITE

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AREA	QA	QA	QA	QA	QA	QA	ISTD	RET	TIM	REANALYSIS
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	CONTINUING	CONTINUING	SHIFT				
TYPE OF LOCATION	RRF	% RSD	CALIBRATION	CALIBRATION	CAL %D	LL1222878	LL036042B			
SAMPLE NUMBER	LL1216876	LL1216876	LL1222875	LL1222877	LL1222877	LL1222877	SOIL			
MATRIX	RRF	%	%	RRF	%	AREA	UG/KG			
UNITS							9			
ENV PROBLEM NO										
M/E 51				40						
M/E 68-1				0						
M/E 68-2				0						
M/E 69				48						
M/E 70-1				0						
M/E 70-2				0						
M/E 127				54						
M/E 197				0						
M/E 198				100						
M/E 199				8.2						
M/E 275				16						
M/E 365				0						
M/E 441				8.5						
M/E 442				43						
M/E 443-1				9.1						
M/E 443-2				21						
INTERNAL STD AREA(ANT)						73700	67100			
INTERNAL STD AREA(CRY)						76800	62500			
INTERNAL STD AREA(DCB)						41600	36400			
INTERNAL STD AREA(NPT)						147000	129000			
INTERNAL STD AREA(PHN)						108000	86800			
INTERNAL STD AREA(PRY)						47400	38000			
DILUTION FACTOR								1		
PERCENT MOISTURE								10		
ACTUAL(ALLOWED) EXTRACT TIME								6(14 D)		
AREA	QA	QA	QA	RPD	LAS POSITAS	LAS POSITAS	LAS POSITAS			
LOCATION	REANALYSIS	MATRIX	MS %	RD	ARROYO	ARROYO	ARROYO			
TYPE OF LOCATION		SPIKE	RECOVERY		LL006035B	LL006035B	LL006035B			
SAMPLE NUMBER	LL036235B	LL006035B	LL006035B	LL006035B	LL006035B	LL006035B	LL006035B			
MATRIX	SOIL									
UNITS	UG/KG	UG/KG	%	%	UG/KG	UG/KG	UG/KG			
ENV PROBLEM NO	9	1	1	1	1	1	1			
ACENAPHTHENE	380 U	72 JMS	2 *	103 *	360 U	360 U	350 U			

TABLE D.6.29 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122287

DRAFT DO NOT CITE

AREA	QA	QA	QA	RPD	LAS POSITAS ARROYO	LAS POSITAS ARROYO	LAS POSITAS ARROYO
LOCATION	REANALYSIS	MATRIX	MS X RECOVERY	LL006035B	LL006035B	LL007025B	LL005012B
TYPE OF LOCATION		SPIKE	%		SOIL	SOIL	SOIL
SAMPLE NUMBER					UG/KG	UG/KG	UG/KG
MATRIX					UG/KG	UG/KG	UG/KG
UNITS					1	1	1
ENV PROBLEM NO					9	1	1
ACENAPHTHYLENE		380 U	360 U			360 U	360 U
ANTHRACENE		380 U	360 U			360 U	350 U
BENZO(A)ANTHRACENE		380 U	360 U			360 U	350 U
BENZO(A)PYRENE		380 U	360 U			360 U	350 U
BENZO(B)FLUORANTHENE		380 U	360 U			360 U	350 U
BENZO(G,H,I)PERYLENE		380 U	360 U			360 U	350 U
BENZO(K)FLUORANTHENE		380 U	360 U			360 U	350 U
BENZOIC ACID		1900 U	1800 U			1800 U	1700 U
BENZYL ALCOHOL		380 U	360 U			360 U	350 U
BIS(2-CHLOROETHOXY)METHANE		380 U	360 U			360 U	350 U
BIS(2-CHLOROISOPROPYL)ETHER		380 U	360 U			360 U	350 U
BIS(2-CHLOROETHYL)ETHER		380 U	360 U			360 U	350 U
BIS(2-ETHYLHEXYL)PHTHALATE		380 U	360 U			360 U	350 U
BUTYL BENZYL PHTHALATE		380 U	360 U			360 U	350 U
CHRYSENE		380 U	360 U			360 U	350 U
DI-N-BUTYL PHTHALATE		380 U	360 U			360 U	620 U
DI-N-OCTYL PHTHALATE		380 U	360 U			360 U	350 U
DIBENZ(A,H)ANTHRACENE		380 U	360 U			360 U	350 U
DIBENZOFURAN		380 U	360 U			360 U	350 U
DIETHYL PHTHALATE		380 U	360 U			360 U	350 U
DIMETHYL PHTHALATE		380 U	360 U			360 U	350 U
FLUORANTHENE		380 U	360 U			360 U	350 U
FLUORENE		380 U	360 U			360 U	350 U
HEXACHLOROBENZENE		380 U	360 U			360 U	350 U
HEXACHLOROBUTADIENE		380 U	360 U			360 U	350 U
HEXACHLOROCYCLOPENTADIENE		380 U	360 U			360 U	350 U
HEXACHLOROETHANE		380 U	360 U			360 U	350 U
INDENO(1,2,3-CD)PYRENE		380 U	360 U			360 U	350 U
ISOPHORONE		380 U	360 U			360 U	350 U
N-NITROSO-DI-N-PROPYLAMINE		380 U	360 UMS	0 X	0	360 U	350 U
N-NITROSO-DIPHENYLAMINE		380 U	360 U			360 U	350 U
NAPHTHALENE		380 U	360 U			360 U	350 U
NITROBENZENE		380 U	360 U			360 U	350 U
NITROBENZENE-D5							
PENTACHLOROPHENOL	1900 U	1800 UMS	0 X	200 X	1800 U	1800 U	1700 U
PHENANTHRENE	380 U	360 U			360 U	360 U	350 U
PHENOL	380 U	360 UMS	0 X	0	360 U	360 U	350 U
PHENOL-D5							
PYRENE	380 U	530 MS	16 X	7	360 U	360 U	350 U

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TABLE D.6.29 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122287

DRAFT DO NOT CITE

AREA	QA	QA	QA	RPD	LAS POSITAS ARROYO	LAS POSITAS ARROYO	LAS POSITAS ARROYO
LOCATION	REANALYSIS	MATRIX SPIKE	MS % RECOVERY	LL006035B	LL006035B	LL006035B	LL005012B
TYPE OF LOCATION		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLE NUMBER	LL036235B	LL006035B	%	LL006035B	SOIL	SOIL	SOIL
MATRIX	SOIL	SOIL	%	SOIL	UG/KG	UG/KG	UG/KG
UNITS	UG/KG	UG/KG	%	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	9	1	1	1	1	1	1
TERPHENYL-D14							
1,2-DICHLOROBENZENE	380 U	360 U			360 U	360 U	350 U
1,2,4-TRICHLOROBENZENE	380 U	360 UMS	0 *	0	360 U	360 U	350 U
1,3-DICHLOROBENZENE	380 U	360 U			360 U	360 U	350 U
1,4-DICHLOROBENZENE	380 U	360 UMS	0 *	0	360 U	360 U	350 U
2-CHLORONAPHTHALENE	380 U	360 U			360 U	360 U	350 U
2-CHLOROPHENOL	380 U	360 UMS	0 *	0	360 U	360 U	350 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	380 U	360 U			360 U	360 U	350 U
2-METHYLPHENOL	380 U	360 U			360 U	360 U	350 U
2-NITROANILINE	1900 U	1800 U			1800 U	1800 U	1700 U
2-NITROPHENOL	380 U	360 U			360 U	360 U	350 U
2,4-DICHLOROPHENOL	380 U	360 U			360 U	360 U	350 U
2,4-DIMETHYLPHENOL	380 U	360 U			360 U	360 U	350 U
2,4-DINITROPHENOL	1900 U	1800 U			1800 U	1800 U	1700 U
2,4-DINITROTOLUENE	380 U	360 UMS	0 *	0	360 U	360 U	350 U
2,4,5-TRICHLOROPHENOL	1900 U	1800 U			1800 U	1800 U	1700 U
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	380 U	360 U			360 U	360 U	350 U
2,6-DINITROTOLUENE	380 U	360 U			360 U	360 U	350 U
3-NITROANILINE	1900 U	1800 U			1800 U	1800 U	1700 U
3,3'-DICHLOROBENZIDINE	760 U	720 U			720 U	720 U	700 U
4-BROMOPHENYL-PHENYLETHER	380 U	360 U			360 U	360 U	350 U
4-CHLORO-3-METHYLPHENOL	380 U	360 UMS	0 *	200 *	360 U	360 U	350 U
4-CHLOROANILINE	380 U	360 U			360 U	360 U	350 U
4-CHLOROPHENYL-PHENYLETHER	380 U	360 U			360 U	360 U	350 U
4-METHYLPHENOL	380 U	360 U			360 U	360 U	350 U
4-NITROANILINE	1900 U	1800 U			1800 U	1800 U	1700 U
4-NITROPHENOL	1900 U	1800 UMS	0 *	0	1800 U	1800 U	1700 U
4,6-DINITRO-2-METHYLPHENOL	1900 U	1800 U			1800 U	1800 U	1700 U
SURR 1(NBZ) %RECOVERY	0 *	0 *			0 *	21 *	13 *
SURR 2(FBP) %RECOVERY	0 *	0 *			1 *	28 *	27 *
SURR 3(TPH) %RECOVERY	17 *	14 *			17 *	34	40
SURR 4(PHL) %RECOVERY	0 *	0 *			0 *	26	25
SURR 5(2FP) %RECOVERY	0 *	0 *			0 *	33	23 *
SURR 6(TBP) %RECOVERY	7 *	8 *			10 *	25	29

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TABLE D.6.29 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122287

DRAFT DO NOT CITE

## AREA

## LOCATION

## TYPE OF LOCATION

## SAMPLE NUMBER

## MATRIX

## UNITS

## ENV PROBLEM NO

QA	QA	QA	REANALYSIS	MATRIX	MS X	RPD	LAS POSITAS	LAS POSITAS	LAS POSITAS
			SPIKE	SPIKE	RECOVERY	LL006035B	ARROYO	ARROYO	ARROYO
			LL036235B	LL006035B	LL006035B	LL006035B	LL006035B	LL007025B	LL005012B
			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			UG/KG	UG/KG	X	X	UG/KG	UG/KG	UG/KG
			9	1	1	1	1	1	1

M/E 68-1

M/E 68-2

M/E 69

M/E 70-1

M/E 70-2

M/E 127

M/E 197

M/E 198

M/E 199

M/E 275

M/E 365

M/E 441

M/E 442

M/E 443-1

M/E 443-2

INTERNAL STD AREA(ANT)	63900	71308			74500	74500	86900
INTERNAL STD AREA(CRY)	55300	57900			63600	69000	82300
INTERNAL STD AREA(DCB)	39700	41800			45800	46800	52100
INTERNAL STD AREA(NPT)	129000	139000			142000	150000	176000
INTERNAL STD AREA(PHN)	87700	100000			100000	101000	130000
INTERNAL STD AREA(PRY)	39800	40700			41200	48100	63400

## DILUTION FACTOR

1 1 1

## PERCENT MOISTURE

12 8 8

## ACTUAL(ALLOWED) EXTRACT TIME

6(14 D) 5(14 D) 5(14 D) 6(14 D) 7(14 D)

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## AREA

## LOCATION

## TYPE OF LOCATION

## SAMPLE NUMBER

## MATRIX

## UNITS

## ENV PROBLEM NO

QA	QA	QA	LAS POSITAS	MATRIX	SPIKE	MSD X	DUPLICATE	RECOVERY	LL006035B
			LAS POSITAS	MATRIX	SPIKE	MSD X	DUPLICATE	RECOVERY	LL006035B
			ARROYO	DUPLICATE	SPIKE	MSD X	DUPLICATE	RECOVERY	LL006035B
			LL007014B	LL006035B	LL006035B	LL006035B	LL006035B	LL006035B	LL006035B
			SOIL	SOIL	SOIL	X	SOIL	SOIL	SOIL
			UG/KG	UG/KG	X		UG/KG	UG/KG	UG/KG
			1	1	1		1	1	1

## ACENAPHTHENE

360 U 220 JMS 6 X

TABLE D.6.29 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122287

DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	LAS POSITAS	MATRIX SPIKE MSD %
TYPE OF LOCATION	ARROYO	DUPLICATE
SAMPLE NUMBER	LL007014B	RECOVERY
MATRIX	SOIL	LL006035B
UNITS	UG/KG	SOIL
ENV PROBLEM NO	1	%
	1	1
ACENAPHTHYLENE	360 U	360 U
ANTHRACENE	360 U	360 U
BENZO(A)ANTHRACENE	360 U	360 U
BENZO(A)PYRENE	360 U	360 U
BENZO(B)FLUORANTHENE	360 U	360 U
BENZO(G,H,I)PERYLENE	360 U	360 U
BENZO(K)FLUORANTHENE	360 U	360 U
BENZOIC ACID	1800 U	1800 U
BENZYL ALCOHOL	360 U	360 U
BIS(2-CHLOROETHOXY)METHANE	360 U	360 U
BIS(2-CHLOROISOPROPYL)ETHER	360 U	360 U
BIS(2-CHROETHYL)ETHER	360 U	360 U
BIS(2-ETHYLHEXYL)PHTHALATE	360 U	96 J
BUTYLBENZYLPHthalate	360 U	360 U
CHRYSENE	360 U	360 U
DI-N-BUTYLPHthalate	1100 U	360 U
DI-N-OCTYLPHthalate	360 U	360 U
DIBENZ(A,H)ANTHRACENE	360 U	360 U
DIBENZOFURAN	360 U	360 U
DIETHYLPHthalate	360 U	360 U
DIMETHYLPHthalate	360 U	360 U
FLUORANTHENE	360 U	360 U
FLUORENE	360 U	360 U
HEXACHLOROBENZENE	360 U	360 U
HEXACHLOROBUTADIENE	360 U	360 U
HEXACHLOROCYCLOPENTADIENE	360 U	360 U
HEXAChLOROETHANE	360 U	360 U
INDENO(1,2,3-CD)PYRENE	360 U	360 U
ISOPHORONE	360 U	360 U
N-NITROSO-DI-N-PROPYLAMINE	360 U	360 UMS 0 *
N-NITROSODIPHENYLAMINE	360 U	360 U
NAPHTHALENE	360 U	360 U
NITROBENZENE	360 U	360 U
NITROBENZENE-D5		
PENTACHLOROPHENOL	1800 U	470 JMS 7 *
PHENANTHRENE	360 U	360 U
PHENOL	360 U	360 UMS 0 *
PHENOL-D5		
PYRENE	360 U	570 MS 17 *

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TABLE D.6.29 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122287

AREA	QA	QA	
LOCATION	LAS POSITAS	MATRIX SPIKE	MSD %
TYPE OF LOCATION	ARROYO	DUPLICATE	RECOVERY
SAMPLE NUMBER	LL007014B	LL006035B	LL006035B
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	X
ENV PROBLEM NO	1	1	1
TERPHENYL-D14			
1,2-DICHLOROBENZENE	360 U	360 U	
1,2,4-TRICHLOROBENZENE	360 U	360 UMS	0 X
1,3-DICHLOROBENZENE	360 U	360 U	
1,4-DICHLOROBENZENE	360 U	360 UMS	0 X
2-CHLORONAPHTHALENE	360 U	360 U	
2-CHLOROPHENOL	360 U	360 UMS	0 X
2-FLUOROBIPHENYL			
2-FLUOROPHENOL			
2-METHYLNAPHTHALENE	360 U	360 U	
2-METHYLPHENOL	360 U	360 U	
2-NITROANILINE	1800 U	1800 U	
2-NITROPHENOL	360 U	360 U	
2,4-DICHLOROPHENOL	360 U	360 U	
2,4-DIMETHYLPHENOL	360 U	360 U	
2,4-DINITROPHENOL	1800 U	1800 U	
2,4-DINITROTOLUENE	360 U	360 UMS	0 X
2,4,5-TRICHLOROPHENOL	1800 U	1800 U	
2,4,6-TRIBROMOPHENOL			
2,4,6-TRICHLOROPHENOL	360 U	360 U	
2,6-DINITROTOLUENE	360 U	360 U	
3-NITROANILINE	1800 U	1800 U	
3,3'-DICHLOROBENZIDINE	720 U	720 U	
4-BROMOPHENYL-PHENYLETHER	360 U	360 U	
4-CHLORO-3-METHYLPHENOL	360 U	310 JMS	5 X
4-CHLOROANILINE	360 U	360 U	
4-CHLOROPHENYL-PHENYLETHER	360 U	360 U	
4-METHYLPHENOL	360 U	360 U	
4-NITROANILINE	1800 U	1800 U	
4-NITROPHENOL	1800 U	1800 UMS	0 X
4,6-DINITRO-2-METHYLPHENOL	1800 U	1800 U	
SURR 1(NBZ) %RECOVERY	12 X	0 X	
SURR 2(FBP) %RECOVERY	18 X	4 X	
SURR 3(TPH) %RECOVERY	31	17 X	
SURR 4(PHL) %RECOVERY	15 X	0 X	
SURR 5(2FP) %RECOVERY	18 X	0 X	
SURR 6(TBP) %RECOVERY	13 X	12 X	

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TABLE D.6.29 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122287

DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	LAS POSITAS	MATRIX SPIKE
TYPE OF LOCATION	ARROYO	DUPPLICATE
SAMPLE NUMBER	LL007014B	RECOVERY
MATRIX	SOIL	LL006035B
UNITS	UG/KG	SOIL
ENV PROBLEM NO	1	%
M/E 68-1		
M/E 68-2		
M/E 69		
M/E 70-1		
M/E 70-2		
M/E 127		
M/E 197		
M/E 198		
M/E 199		
M/E 275		
M/E 365		
M/E 441		
M/E 442		
M/E 443-1		
M/E 443-2		
INTERNAL STD AREA(ANT)	79600	50000
INTERNAL STD AREA(CRY)	75800	44900
INTERNAL STD AREA(DCB)	51600	28300
INTERNAL STD AREA(NPT)	171000	103000
INTERNAL STD AREA(PHN)	118000	74100
INTERNAL STD AREA(PRY)	55600	30500
DILUTION FACTOR	1	1
PERCENT MOISTURE	8	8
ACTUAL(ALLOWED) EXTRACT TIME	7(14 D)	5(14 D)

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TABLE D.6.30 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122887

DRAFT DO NOT CITE

AREA	QA INITIAL CAL RRF LL1216876	QA INITIAL CAL % RSD LL1216876	QA TUNED CALIBRATION LL1228875	QA CONTINUING CALIBRATION RRF LL1228877	QA CONTINUING CAL %D LL1228877	QA ISTD RET SHIFT TRAILER AREA LL1228878	TIM STG ARROYO SOIL UG/KG 1
ACENAPHTHENE	1.307	7		1.266	3.1		360 U
ACENAPHTHYLENE	1.7	12.7		1.758	3.4		360 U
ANTHRACENE	1.095	7.2		1.161	6		360 U
BENZO(A)ANTHRACENE	1.306	3		1.252	4.1		360 U
BENZO(A)PYRENE	1.482	4.4		1.377	7.1		360 U
BENZO(B)FLUORANTHENE	1.781	10.8		1.909	7.2		360 U
BENZO(G,H,I)PERYLENE	0.907	8.9		0.966	6.5		360 U
BENZO(K)FLUORANTHENE	1.634	13.4		1.207	26.1		360 U
BENZOIC ACID	0.147	25.8		0.126	14.3		1800 U
BENZYL ALCOHOL	1.058	7.3		0.962	9.1		360 U
BIS(2-CHLOROETHOXY)METHANE	0.501	9.5		0.505	0.8		360 U
BIS(2-CHLOROISOPROPYL)ETHER	1.779	12		1.565	12		360 U
BIS(2-CHLOROETHYL)ETHER	1.743	13.2		1.487	14.7		360 U
BIS(2-ETHYLHEXYL)PHTHALATE	1.486	12.3		1.699	14.3		360 U
BUTYLBENZYLPHthalate	0.995	7		1.025	3		360 U
CHRYSENE	1.193	37.4		1.256	5.3		360 U
DI-N-BUTYLPHthalate	1.455	20.1		1.778	22.2		470 U
DI-N-OCTYLPHthalate	3.367	14.8		4.269	26.8		360 U
DIBENZ(A,H)ANTHRACENE	0.822	26.2		1.034	25.8		360 U
DIBENZOFURAN	1.856	11.3		1.983	6.8		360 U
DIETHYLPHthalate	1.617	10.4		1.712	5.9		360 U
DIMETHYLPHthalate	1.435	5.6		1.523	6.1		360 U
FLUORANTHENE	1.08	5.8		1.077	0.3		360 U
FLUORENE	1.215	7.4		1.253	3.1		360 U
HEXAChlorobenzene	0.267	3.2		0.214	19.9		360 U
HEXAChlorobutadiene	0.187	3.8		0.176	5.9		360 U
HEXAChlorocyclopentadiene	0.158	32.6		0.133	15.8		360 U
HEXAChloroethane	0.692	4.3		0.681	1.6		360 U
INDENO(1,2,3-CD)PYRENE	1.085	26.9		1.228	13.2		360 U
ISOPHORONE	0.845	7.6		0.856	1.3		360 U
N-NITROSO-DI-N-PROPYLAMINE	0.473	5.6		0.341	27.9		360 U
N-NITROSOdiphenylamine	0.475	6.3		0.508	6.9		360 U
NAPHTHALENE	0.949	22.2		1.149	21.1		360 U
NITROBENZENE	0.424	10.7		0.37	12.7		360 U
NITROBENZENE-D5	0.395	5.9		0.341	13.7		
PENTACHLOROPHENOL	0.134	13		0.109	18.7		1800 U
PHENANTHRENE	1.068	4.7		1.113	4.2		360 U
PHENOL	1.811	6.9		1.561	13.8		360 U
PHENOL-D5	1.45	5.1		1.23	15.2		

TABLE D.6.30 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122887

DRAFT DO NOT CITE

AREA	QA RRF	QA %	QA %	QA RRF	QA %	QA AREA	ISTD SHIFT LL1228878	RET CAL X/D LL1228877	TIM 8.5	TRAILER ARROYO LL003032B	STG 1 UG/KG
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	INITIAL CAL RRF LL1216876	INITIAL CAL X RSD LL1216876	TUNED CALIBRATION LL1228875	CONTINUING CALIBRATION LL1228877	CONTINUING CAL X/D LL1228877						
PYRENE	1.516	3.3		1.549	2.2					360	U
TERPHENYL-D14	0.907	2.4		0.832	8.5					360	U
1,2-DICHLOROBENZENE	1.54	5.4		1.513	1.8					360	U
1,2,4-TRICHLOROBENZENE	0.334	3.9		0.338	1.2					360	U
1,3-DICHLOROBENZENE	1.519	4.4		1.458	4					360	U
1,4-DICHLOROBENZENE	1.569	5.8		1.578	0.6					360	U
2-CHLORONAPHTHALENE	1.211	6.7		1.219	0.7					360	U
2-CHLOROPHENOL	1.556	3.1		1.469	5.6					360	U
2-FLUOROBIPHENYL	1.163	6.2		1.182	1.6					360	U
2-FLUOROPHENOL	1.234	5.5		0.918	25.6					360	U
2-METHYLNAPHTHALENE	0.704	13.5		0.79	12.2					360	U
2-METHYLPHENOL	1.258	7.4		1.131	10.1					360	U
2-NITROANILINE	0.46	12.8		0.347	24.6					1800	U
2-NITROPHENOL	0.222	6.1		0.198	10.8					360	U
2,4-DICHLOROPHENOL	0.326	5.7		0.322	1.2					360	U
2,4-DIMETHYLPHENOL	0.427	8.9		0.433	1.4					360	U
2,4-DINITROPHENOL	0.087	28.9		0.071	18.4					1800	U
2,4-DINITROTOLUENE	0.387	5.2		0.357	7.8					360	U
2,4,5-TRICHLOROPHENOL	0.351	6.6		0.316	10					1800	U
2,4,6-TRIBROMOPHENOL	0.156	8.3		0.101	35.3					360	U
2,4,6-TRICHLOROPHENOL	0.37	7.3		0.344	7					360	U
2,6-DINITROTOLUENE	0.298	10.1		0.261	12.4					360	U
3-NITROANILINE	0.136	68.8		0.102	25					1800	U
3,3'-DICHLOROBENZIDINE	0.227	12.3		0.209	7.9					720	U
4-BROMOPHENYL-PHENYLETHER	0.232	4		0.198	14.7					360	U
4-CHLORO-3-METHYLPHENOL	0.357	9.8		0.347	2.8					360	U
4-CHLOROANILINE	0.283	51		0.347	22.6					360	U
4-CHLOROPHENYL-PHENYLETHER	0.618	3		0.545	11.8					360	U
4-METHYLPHENOL	1.25	7.1		1.134	9.3					360	U
4-NITROANILINE	0.112	27.6		0.094	16.1					1800	U
4-NITROPHENOL	0.129	23.2		0.118	8.5					1800	U
4,6-DINITRO-2-METHYLPHENOL	0.103	26.1		0.087	15.5					1800	U
SURR 1(NBZ) %RECOVERY										21	*
SURR 2(FBP) %RECOVERY										28	*
SURR 3(TPH) %RECOVERY										31	
SURR 4(PHL) %RECOVERY										20	*
SURR 5(2FP) %RECOVERY										18	*
SURR 6(TBP) %RECOVERY										8	*

TABLE D.6.30 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122887

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	ISTD RET TIM TRAILER STG
LOCATION	INITIAL CAL	INITIAL CAL	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL XD	ISTD SHIFT	ARROYO
TYPE OF LOCATION	RRF	X RSD	LL1228875	LL1228877	LL1228877	LL1228878	LL003032B
SAMPLE NUMBER	RRF	X	X	RRF	X	AREA	SOIL
MATRIX							UG/KG
UNITS							1
ENV PROBLEM NO							
M/E 51				63			
M/E 68-1				0			
M/E 68-2				0			
M/E 69				0			
M/E 70-1				51			
M/E 70-2				0			
M/E 127				0			
M/E 197				54			
M/E 198				0			
M/E 199				100			
M/E 275				7.2			
M/E 365				17			
M/E 441				1.8			
M/E 442				7.5			
M/E 443-1				55			
M/E 443-2				9.6			
				18			
INTERNAL STD AREA(ANT)						84000	86400
INTERNAL STD AREA(CRY)						95100	83000
INTERNAL STD AREA(DCB)						44700	51700
INTERNAL STD AREA(NPT)						162000	182000
INTERNAL STD AREA(PHN)						124000	136000
INTERNAL STD AREA(PRY)						58200	56800
DILUTION FACTOR							1
PERCENT MOISTURE							8
ACTUAL(ALLOWED) EXTRACT TIME						6(14 D)	
AREA							
LOCATION	LAS POSITAS	STP OVERFLOW					
TYPE OF LOCATION	ARROYO	POND					
SAMPLE NUMBER	LL005034B	LL037021B					
MATRIX	SOIL	SOIL					
UNITS	UG/KG	UG/KG					
ENV PROBLEM NO	1	10					
ACENAPHTHENE	350 U	340 U					

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TABLE D.6.30 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122887

DRAFT DO NOT CITE

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	LAS POSITAS ARROYO LL005034B	STP OVERFLOW POND LL037021B	SOIL SOIL UG/KG 10
ACENAPHTHYLENE	350 U	340 U	
ANTHRACENE	350 U	340 U	
BENZO(A)ANTHRACENE	350 U	340 U	
BENZO(A)PYRENE	350 U	340 U	
BENZO(B)FLUORANTHENE	350 U	340 U	
BENZO(G,H,I)PERYLENE	350 U	340 U	
BENZO(K)FLUORANTHENE	350 U	340 U	
BENZOIC ACID	1800 U	1700 U	
BENZYL ALCOHOL	350 U	340 U	
BIS(2-CHLOROETHOXY)METHANE	350 U	340 U	
BIS(2-CHLOROISOPROPYL)ETHER	350 U	340 U	
BIS(2-CHOROETHYL)ETHER	350 U	340 U	
BIS(2-ETHYLHEXYL)PHTHALATE	40 J	200 J	
BUTYLBENZYLPHthalate	69 J	340 U	
CHRYSENE	350 U	340 U	
DI-N-BUTYLPHthalate	610	580	
DI-N-OCTYLPHthalate	350 U	340 U	
DIBENZ(A,H)ANTHRACENE	350 U	340 U	
DIBENZOFURAN	350 U	340 U	
DIETHYLPHthalate	350 U	340 U	
DIMETHYLPHthalate	350 U	340 U	
FLUORANTHENE	350 U	340 U	
FLUORENE	350 U	340 U	
HEXACHLOROBENZENE	350 U	340 U	
HEXACHLOROBUTADIENE	350 U	340 U	
HEXACHLOROCYCLOPENTADIENE	350 U	340 U	
HEXACHLOROETHANE	350 U	340 U	
INDENO(1,2,3-CD)PYRENE	350 U	340 U	
ISOPHORONE	350 U	340 U	
N-NITROSO-DI-N-PROPYLAMINE	350 U	340 U	
N-NITROSODIPHENYLAMINE	350 U	340 U	
NAPHTHALENE	350 U	340 U	
NITROBENZENE	350 U	340 U	
NITROBENZENE-D5			
PENTACHLOROPHENOL	52 J	1700 U	
PHENANTHRENE	350 U	340 U	
PHENOL	350 U	340 U	
PHENOL-D5			
PYRENE	35 J	340 U	

TABLE D.6.30 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122887

DRAFT DO NOT CITE

## AREA

LOCATION	LAS POSITAS	STP OVERFLOW
TYPE OF LOCATION	ARROYO	POND
SAMPLE NUMBER	LL005034B	LL037021B
MATRIX	SOIL	SOIL
UNITS	UG/KG	UG/KG
ENV PROBLEM NO	1	10

TERPHENYL-D14		
1,2-DICHLOROBENZENE	350 U	340 U
1,2,4-TRICHLOROBENZENE	350 U	340 U
1,3-DICHLOROBENZENE	350 U	340 U
1,4-DICHLOROBENZENE	350 U	340 U
2-CHLORONAPHTHALENE	350 U	340 U
2-CHLOROPHENOL	350 U	340 U
2-FLUOROBIPHENYL		
2-FLUOROPHENOL		
2-METHYLNAPHTHALENE	350 U	340 U
2-METHYLPHENOL	45 J	340 U
2-NITROANILINE	1800 U	1700 U
2-NITROPHENOL	350 U	340 U
2,4-DICHLOROPHENOL	350 U	340 U
2,4-DIMETHYLPHENOL	350 U	340 U
2,4-DINITROPHENOL	1800 U	1700 U
2,4-DINITROTOLUENE	350 U	340 U
2,4,5-TRICHLOROPHENOL	1800 U	1700 U
2,4,6-TRIBROMOPHENOL		
2,4,6-TRICHLOROPHENOL	350 U	340 U
2,6-DINITROTOLUENE	350 U	340 U
3-NITROANILINE	1800 U	1700 U
3,3'-DICHLOROBENZIDINE	710 U	680 U
4-BROMOPHENYL-PHENYLETHER	350 U	340 U
4-CHLORO-3-METHYLPHENOL	350 U	340 U
4-CHLOROANILINE	350 U	340 U
4-CHLOROPHENYL-PHENYLETHER	350 U	340 U
4-METHYLPHENOL	350 U	340 U
4-NITROANILINE	1800 U	1700 U
4-NITROPHENOL	1800 U	1700 U
4,6-DINITRO-2-METHYLPHENOL	1800 U	1700 U
SURR 1(NBZ) %RECOVERY	21 X	17 X
SURR 2(FBP) %RECOVERY	30	25 X
SURR 3(TPH) %RECOVERY	42	36
SURR 4(PHL) %RECOVERY	29	24
SURR 5(2FP) %RECOVERY	27	22 X
SURR 6(TBP) %RECOVERY	25	23

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TABLE D.6.30 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122887

DRAFT DO NOT CITE

## AREA

LOCATION	LAS POSITAS	STP OVERFLOW
TYPE OF LOCATION	ARROYO	POND
SAMPLE NUMBER	LL005034B	LL037021B
MATRIX	SOIL	SOIL
UNITS	UG/KG	UG/KG
ENV PROBLEM NO	1	10

M/E 68-1  
 M/E 68-2  
 M/E 69  
 M/E 70-1  
 M/E 70-2  
 M/E 127  
 M/E 197  
 M/E 198  
 M/E 199  
 M/E 275  
 M/E 365  
 M/E 441  
 M/E 442  
 M/E 443-1  
 M/E 443-2

INTERNAL STD AREA(ANT)	96400	99300
INTERNAL STD AREA(CRY)	86900	97200
INTERNAL STD AREA(DCB)	57300	58800
INTERNAL STD AREA(NPT)	184000	208000
INTERNAL STD AREA(PHN)	147000	165000
INTERNAL STD AREA(PRY)	59200	64200

DILUTION FACTOR	1	1
PERCENT MOISTURE	6	2
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)	7(14 D)

TABLE D.6.31 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122987

DRAFT DO NOT CITE

AREA	QA INITIAL CAL RRF LL1216876	QA INITIAL CAL X RSD LL1216876	QA MATRIX SPIKE SOIL LL037032B	QA MS X RECOVERY % LL037032B	QA RPD LL037032B	QA TUNED CALIBRATION LL1229875	QA CONTINUING CALIBRATION LL1229877
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	RRF	X	10 UG/KG	10	10	X	RRF
ACENAPHTHENE	1.307	7	820 MS	24 X	18		1.349
ACENAPHTHYLENE	1.7	12.7	340 U				1.861
ANTHRACENE	1.095	7.2	340 U				1.109
BENZO(A)ANTHRACENE	1.306	3	340 U				1.151
BENZO(A)PYRENE	1.482	6.4	340 U				1.315
BENZO(B)FLUORANTHENE	1.781	10.8	340 U				1.545
BENZO(G,H,I)PERYLENE	0.907	8.9	340 U				0.931
BENZO(K)FLUORANTHENE	1.634	13.4	340 U				1.528
BENZOIC ACID	0.147	25.8	1700 U				0.118
BENZYL ALCOHOL	1.058	7.3	340 U				1.086
BIS(2-CHLOROETHOXY)METHANE	0.501	9.5	340 U				0.505
BIS(2-CHLORODISOPROPYL)ETHER	1.779	12	340 U				1.876
BIS(2-CHLOROETHYL)ETHER	1.743	15.2	340 U				1.861
BIS(2-ETHYLHEXYL)PHTHALATE	1.486	12.5	340 U				1.694
BUTYLBENZYLPHthalate	0.995	7	340 U				0.898
CHRYSENE	1.193	37.4	340 U				1.185
DI-N-BUTYLPHthalate	1.455	20.1	500 U				1.661
DI-N-OCTYLPHthalate	3.367	14.8	340 U				3.897
DIBENZ(A,H)ANTHRACENE	0.822	26.2	340 U				0.998
DIBENZOFURAN	1.856	11.3	340 U				2.046
DIETHYLPHthalate	1.617	10.4	340 U				1.711
DIMETHYLPHthalate	1.435	5.6	340 U				1.544
FLUORANTHENE	1.08	5.8	340 U				1.047
FLUORENE	1.215	7.4	340 U				1.234
HEXAChloroBENZENE	0.267	3.2	340 U				0.223
HEXAChloroBUTADIENE	0.187	3.8	340 U				0.161
HEXAChloroCYCLOPENTADIENE	0.158	32.6	340 U				0.104
HEXAChloroETHANE	0.692	4.3	340 U				0.715
INDENO(1,2,3-CD)PYRENE	1.085	26.9	340 U				1.286
ISOPHORONE	0.845	7.6	340 U				0.902
N-NITROSO-DI-N-PROPYLAMINE	0.473	5.6	560 MS	17 X	36		0.479
N-NITROSODIPHENYLAMINE	0.475	6.3	340 U				0.493
NAPHTHALENE	0.949	22.2	340 U				1.076
NITROBENZENE	0.424	10.7	340 U				0.434
NITROBENZENE-D5	0.395	5.9					0.369
PENTACHLOROPHENOL	0.134	13	1200 JMS	18	29		0.115
PHENANTHRENE	1.068	6.7	340 U				1.081
PHENOL	1.811	6.9	1300 MS	21 X	21		1.877
PHENOL-D5	1.45	5.1					1.507

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TABLE D.6.31 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122987

DRAFT DO NOT CITE

AREA	QA INITIAL CAL RRF LL1216876	QA INITIAL CAL % RSD LL1216876	QA MATRIX SPIKE LL037032B SOIL UG/KG 10	QA MS % RECOVERY LL037032B SOIL % 10	QA RPD LL037032B SOIL % 10	QA TUNED CALIBRATION LL1229875	QA CONTINUING CALIBRATION LL1229877 RRF
PYRENE	1.516	3.3	1500 MS	44	7		1.442
TERPHENYL-D14	0.907	2.4					0.796
1,2-DICHLOROBENZENE	1.54	5.4	340 U				1.55
1,2,4-TRICHLOROBENZENE	0.334	3.9	720 MS	21 *	5		0.302
1,3-DICHLOROBENZENE	1.519	4.4	340 U				1.504
1,4-DICHLOROBENZENE	1.569	5.8	640 MS	19 *	8		1.601
2-CHLORONAPHTHALENE	1.211	6.7	340 U				1.287
2-CHLOROPHENOL	1.556	3.1	1500 UMS	20 *	6		1.628
2-FLUOROBIPHENYL	1.163	6.2					1.216
2-FLUOROPHENOL	1.234	5.5					1.193
2-METHYLNAPHTHALENE	0.704	13.5	340 U				0.732
2-METHYLPHENOL	1.258	7.4	340 U				1.314
2-NITROANILINE	0.46	12.8	1700 U				0.443
2-NITROPHENOL	0.222	6.1	340 U				0.205
2,4-DICHLOROPHENOL	0.326	5.7	340 U				0.29
2,4-DIMETHYLPHENOL	0.427	8.9	340 U				0.419
2,4-DINITROPHENOL	0.087	28.4	1700 U				0.098
2,4-DINITROTOLUENE	0.387	5.2	760 MS	23 *	24		0.405
2,4,5-TRICHLOROPHENOL	0.351	6.6	1700 U				0.362
2,4,6-TRIBROMOPHENOL	0.156	8.3					0.113
2,4,6-TRICHLOROPHENOL	0.37	7.3	340 U				0.362
2,6-DINITROTOLUENE	0.298	10.1	340 U				0.299
3-NITROANILINE	0.136	68.8	1700 U				0.08
3,3'-DICHLOROBENZIDINE	0.227	12.3	670 U				0.187
4-BROMOPHENYL-PHENYLETHER	0.232	4	340 U				0.199
4-CHLORO-3-METHYLPHENOL	0.357	9.8	2000 MS	30	5		0.354
4-CHLOROANILINE	0.283	51	340 U				0.325
4-CHLOROPHENYL-PHENYLETHER	0.618	3	340 U				0.56
4-METHYLPHENOL	1.25	7.1	340 U				1.256
4-NITROANILINE	0.112	27.6	1700 U				0.089
4-NITROPHENOL	0.129	23.2	1200 JMS	18	18		0.123
4,6-DINITRO-2-METHYLPHENOL	0.103	26.1	1700 U				0.095
SURR 1(NBZ) %RECOVERY			20 *				
SURR 2(FBP) %RECOVERY			24 *				
SURR 3(TPH) %RECOVERY			4 *				
SURR 4(PHL) %RECOVERY			26				
SURR 5(2FP) %RECOVERY			25				
SURR 6(TBP) %RECOVERY			28				

TABLE D.6.31 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122987

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION	INITIAL CAL	INITIAL CAL	MATRIX	MS %	RPD	TUNED	CONTINUING	
TYPE OF LOCATION	RRF	X RSD	SPIKE	RECOVERY		CALIBRATION	CALIBRATION	
SAMPLE NUMBER	LL1216876	LL1216876	LL037032B	LL037032B		LL1229875	LL1229877	
MATRIX	RRF	X	SOIL	SOIL		X	RRF	
UNITS			UG/KG	%				
ENV PROBLEM NO				10		10		

M/E 51  
M/E 68-1  
M/E 68-2  
M/E 69  
M/E 70-1  
M/E 70-2  
M/E 127  
M/E 197  
M/E 198  
M/E 199  
M/E 275  
M/E 365  
M/E 441  
M/E 442  
M/E 443-1  
M/E 443-2

51  
0  
0  
54  
0  
52  
0  
100  
6.2  
16  
2.1  
7.9  
56  
10  
19

INTERNAL STD AREA(ANT)  
INTERNAL STD AREA(CRY)  
INTERNAL STD AREA(DCB)  
INTERNAL STD AREA(NPT)  
INTERNAL STD AREA(PHN)  
INTERNAL STD AREA(PRY)

107000  
86800  
61100  
200000  
167000  
12300

DILUTION FACTOR  
PERCENT MOISTURE  
ACTUAL(ALLOWED) EXTRACT TIME

1  
1  
7(14 D)

AREA	QA	QA	QA	QA	QA	QA	QA	QA
LOCATION	CONTINUING	ISTD RET	TIM	LAS POSITAS	GSA AREA	STP OVERFLOW	LAS POSITAS	TRAILER STG
TYPE OF LOCATION	CAL %	SHIFT	ARROYO	HELLS	POND	ARROYO	ARROYO	
SAMPLE NUMBER	LL1229877	LL1229878	LL008015B	LL036053B	LL037032B	LL007036B	LL003021B	
MATRIX	%	AREA	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS			UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ENV PROBLEM NO			1	9	10	1	1	
ACENAPHTHENE	3.2		370 U	400 U	340 U	360 U	370 U	

TABLE D.6.31 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122987

DRAFT DO NOT CITE

AREA	QA	QA	CONTINUING CAL ID LL1229877	ISTD SHIFT LL1229878	RET TIM LL008015B	LAS POSITAS ARROYO SOIL UG/KG	GSA AREA WELLS SOIL UG/KG	STP OVERFLOW POND LL037032B	LAS POSITAS ARROYO SOIL UG/KG	TRAILER STG ARROYO LL003021B
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	%	AREA				1	9	10	1	1
ACENAPHTHYLENE	9.5				370 U	400 U	340 U	360 U	370 U	
ANTHRACENE	1.3				370 U	400 U	340 U	360 U	370 U	
BENZO(A)ANTHRACENE	11.9				370 U	400 U	340 U	360 U	370 U	
BENZO(A)PYRENE	11.3				370 U	400 U	340 U	360 U	370 U	
BENZO(B)FLUORANTHENE	13.3				370 U	400 U	340 U	360 U	370 U	
BENZO(G,H,I)PERYLENE	2.6				370 U	400 U	340 U	360 U	370 U	
BENZO(K)FLUORANTHENE	6.5				370 U	400 U	340 U	360 U	370 U	
BENZOIC ACID	19.7			1800 U	2000 U	1700 U	1800 U	1900 U		
BENZYL ALCOHOL	2.6				370 U	400 U	340 U	360 U	370 U	
BIS(2-CHLOROETHOXY)METHANE	0.8				370 U	400 U	340 U	360 U	370 U	
BIS(2-CHLOROISOPROPYL)ETHER	5.5				370 U	400 U	340 U	360 U	370 U	
BIS(2-CHOROETHYL)ETHER	6.8				370 U	400 U	340 U	360 U	370 U	
BIS(2-ETHYLHEXYL)PHTHALATE	14				370 U	400 U	340 U	360 U	370 U	
BUTYLBENZYLPHthalate	9.7				370 U	400 U	340 U	360 U	370 U	
CHRYSENE	0.7				370 U	400 U	340 U	360 U	370 U	
DI-N-BUTYLPHthalate	14.2				370 U	400 U	690 U	530 U	390 U	
DI-N-OCTYLPHthalate	15.7				370 U	400 U	340 U	360 U	370 U	
DIBENZ(A,H)ANTHRACENE	21.4				370 U	400 U	340 U	360 U	370 U	
DIBENZOFURAN	10.2				370 U	400 U	340 U	360 U	370 U	
DIETHYLPHthalate	5.8				370 U	400 U	340 U	360 U	370 U	
DIMETHYLPHthalate	7.6				370 U	400 U	340 U	360 U	370 U	
FLUORANTHENE	3.1				370 U	400 U	340 U	360 U	370 U	
FLUORENE	1.6				370 U	400 U	340 U	360 U	370 U	
HEXACHLOROBENZENE	16.5				370 U	400 U	340 U	360 U	370 U	
HEXACHLOROBUTADIENE	13.9				370 U	400 U	340 U	360 U	370 U	
HEXACHLOROCYCLOPENTADIENE	34.2				370 U	400 U	340 U	360 U	370 U	
HEXACHLOROETHANE	3.3				370 U	400 U	340 U	360 U	370 U	
INDENO(1,2,3-CD)PYRENE	18.5				370 U	400 U	340 U	360 U	370 U	
ISOPHORONE	6.7				370 U	400 U	340 U	360 U	370 U	
N-NITROSO-DI-N-PROPYLAMINE	1.3				370 U	400 U	340 U	360 U	370 U	
N-NITROSODIPHENYLAMINE	3.8				370 U	400 U	340 U	360 U	370 U	
NAPHTHALENE	13.4				370 U	400 U	340 U	360 U	370 U	
NITROBENZENE	2.4				370 U	400 U	340 U	360 U	370 U	
NITROBENZENE-D5	6.6				370 U	400 U	340 U	360 U	370 U	
PENTACHLOROPHENOL	14.2			1800 U	2000 U	1700 U	1800 U	1900 U		
PHENANTHRENE	1.2				370 U	400 U	340 U	360 U	370 U	
PHENOL	3.6				370 U	400 U	340 U	360 U	370 U	
PHENOL-D5	3.9				370 U	400 U	340 U	360 U	370 U	
PYRENE	4.9				370 U	400 U	340 U	360 U	370 U	

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TABLE D.6.31 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122987

DRAFT DO NOT CITE

AREA	QA	QA	CONTINUING CAL XD LL1229877	ISTD SHIFT LL1229878	RET TIM	LAS POSITAS ARROYO LL008015B	OSA AREA WELLS LL036053B	STP POND LL037032B	OVERFLOW ARROYO LL007036B	LAS POSITAS ARROYO LL007036B	TRAILER STG ARROYO LL003021B
	%	AREA				1	9	10	1	1	1
TERPHENYL-D14	12.2										
1,2-DICHLOROBENZENE	0.6					370 U	400 U	340 U	360 U	370 U	
1,2,4-TRICHLOROBENZENE	9.6					370 U	400 U	340 U	360 U	370 U	
1,3-DICHLOROBENZENE	1					370 U	400 U	340 U	360 U	370 U	
1,4-DICHLOROBENZENE	2					370 U	400 U	340 U	360 U	370 U	
2-CHLORONAPHTHALENE	6.3					370 U	400 U	340 U	360 U	370 U	
2-CHLOROPHENOL	4.6					370 U	400 U	340 U	360 U	370 U	
2-FLUOROBIPHENYL	4.6										
2-FLUOROPHENOL	3.3										
2-METHYLNAPHTHALENE	4					370 U	400 U	340 U	360 U	370 U	
2-METHYLPHENOL	4.5					370 U	400 U	340 U	360 U	370 U	
2-NITROANILINE	3.7					1800 U	2000 U	1700 U	1800 U	1900 U	
2-NITROPHENOL	7.7					370 U	400 U	340 U	360 U	370 U	
2,4-DICHLOROPHENOL	11					370 U	400 U	340 U	360 U	370 U	
2,4-DIMETHYLPHENOL	1.9					370 U	400 U	340 U	360 U	370 U	
2,4-DINITROPHENOL	12.6					1800 U	2000 U	1700 U	1800 U	1900 U	
2,4-DINITROTOLUENE	4.7					1800 U	400 U	340 U	360 U	370 U	
2,4,5-TRICHLOROPHENOL	3.1					1800 U	2000 U	1700 U	1800 U	1900 U	
2,4,6-TRIBROMOPHENOL	27.6										
2,4,6-TRICHLOROPHENOL	2.2					370 U	400 U	340 U	360 U	370 U	
2,6-DINITROTOLUENE	0.3					370 U	400 U	340 U	360 U	370 U	
3-NITROANILINE	41.2					1800 U	2000 U	1700 U	1800 U	1900 U	
3,3'-DICHLOROBENZIDINE	17.6					730 U	800 U	670 U	720 U	750 U	
4-BROMOPHENYL-PHENYLETHER	14.2					370 U	400 U	340 U	360 U	370 U	
4-CHLORO-3-METHYLPHENOL	0.8					370 U	400 U	340 U	360 U	370 U	
4-CHLOROANILINE	14.8					370 U	400 U	340 U	360 U	370 U	
4-CHLOROPHENYL-PHENYLETHER	9.4					370 U	400 U	340 U	360 U	370 U	
4-METHYLPHENOL	0.5					370 U	400 U	340 U	360 U	370 U	
4-NITROANILINE	20.5					1800 U	2000 U	1700 U	1800 U	1900 U	
4-NITROPHENOL	4.7					1800 U	2000 U	1700 U	1800 U	1900 U	
4,6-DINITRO-2-METHYLPHENOL	7.8					1800 U	2000 U	1700 U	1800 U	1900 U	
SURR 1(NBZ) %RECOVERY						0 X	0 X	7 X	17 X	10 X	
SURR 2(FBP) %RECOVERY						4 X	2 X	28 X	24 X	14 X	
SURR 3(TPH) %RECOVERY						13 X	13 X	39	36	22	
SURR 4(PHL) %RECOVERY						0 X	0 X	24	20 X	14 X	
SURR 5(2FP) %RECOVERY						0 X	0 X	17 X	25	16 X	
SURR 6(TBP) %RECOVERY						17 X	12 X	27	15 X	10 X	

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TABLE D.6.31 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122987

DRAFT DO NOT CITE

AREA	QA	QA						
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	CONTINUING CAL %D LL1229877	ISTD RET SHIFT LL1229878	TIM LAS POSITAS ARROYO LL008015B	GSA AREA WELLS LL036053B	STP OVERFLOW POND LL037032B	LAS POSITAS ARROYO LL007036B	TRAILER STG ARROYO LL003021B	
	%	AREA	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
M/E 68-1			1	9	10	1	1	
M/E 68-2								
M/E 69								
M/E 70-1								
M/E 70-2								
M/E 127								
M/E 197								
M/E 198								
M/E 199								
M/E 275								
M/E 365								
M/E 441								
M/E 442								
M/E 443-1								
M/E 443-2								
INTERNAL STD AREA(ANT)	86300	68100	80000	65900	68700	65600		
INTERNAL STD AREA(CRY)	104000	75700	80300	66200	65100	63700		
INTERNAL STD AREA(DCB)	48900	35300	47200	39200	44700	38500		
INTERNAL STD AREA(NPT)	187000	125000	161000	127000	143000	126000		
INTERNAL STD AREA(PHN)	134000	106000	123000	106000	107000	95000		
INTERNAL STD AREA(PRY)	63500	48100	54100	44000	46600	38800		
DILUTION FACTOR		1		1		1		1
PERCENT MOISTURE		9		16		1		7
ACTUAL(ALLOWED) EXTRACT TIME		4(14 D)		5(14 D)		7(14 D)		7(14 D)
AREA	QA	QA						
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	TRAILER STG ARROYO LL003010B	GSA AREA WELLS LL036064B	MATRIX SPIKE DUPLICATE LL037032B	MSD X RECOVERY LL037032B				
	UG/KG 1	UG/KG 9	UG/KG 10	UG/KG 10				
ACENAPHTHENE	360 U	370 U	980 MS	29 X				

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TABLE D.6.31 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122987

DRAFT DO NOT CITE

## AREA

LOCATION  
 TYPE OF LOCATION  
 SAMPLE NUMBER  
 MATRIX  
 UNITS  
 ENV PROBLEM NO

	TRAILER STG	GSA AREA	MATRIX SPIKE	MSD X
	ARROYO	WELLS	DUPLICATE	RECOVERY
	LL003010B	LL036064B	LL037032B	LL037032B
	SOIL	SOIL	SOIL	SOIL
	UG/KG	UG/KG	UG/KG	X
	1	9	10	10
ACENAPHTHYLENE	360 U	370 U	340 U	
ANTHRACENE	360 U	370 U	340 U	
BENZO(A)ANTHRACENE	360 U	370 U	340 U	
BENZO(A)PYRENE	360 U	370 U	340 U	
BENZO(B)FLUORANTHENE	360 U	370 U	340 U	
BENZO(G,H,I)PERYLENE	360 U	370 U	340 U	
BENZO(K)FLUORANTHENE	360 U	370 U	340 U	
BENZOIC ACID	1800 U	1800 U	1700 U	
BENZYL ALCOHOL	360 U	370 U	340 U	
BIS(2-CHLOROETHOXY)METHANE	360 U	370 U	340 U	
BIS(2-CHLOROISOPROPYL)ETHER	360 U	370 U	340 U	
BIS(2-CHORDETHYL)ETHER	360 U	370 U	340 U	
BIS(2-ETHYLHEXYL)PHTHALATE	360 U	370 U	36 J	
BUTYLBENZYLPHthalate	360 U	370 U	348 U	
CHRYSENE	360 U	370 U	340 U	
DI-N-BUTYLPHthalate	490 U	370 U	608	
DI-N-OCTYLPHthalate	360 U	370 U	340 U	
DIBENZ(A,H)ANTHRACENE	360 U	370 U	340 U	
DIBENZOFURAN	360 U	370 U	340 U	
DIETHYLPHthalate	360 U	370 U	340 U	
DIMETHYLPHthalate	360 U	370 U	340 U	
FLUORANTHENE	360 U	370 U	340 U	
FLUORENE	360 U	370 U	340 U	
HEXACHLOROBENZENE	360 U	370 U	340 U	
HEXACHLOROBUTADIENE	360 U	370 U	340 U	
HEXACHLOROCYCLOPENTADIENE	360 U	370 U	340 U	
HEXACHLOROETHANE	360 U	370 U	340 U	
INDENO(1,2,3-CD)PYRENE	360 U	370 U	340 U	
ISOPHORONE	360 U	370 U	340 U	
N-NITROSO-DI-N-PROPYLAMINE	360 U	370 U	810 MS	24 X
N-NITROSODIPHENYLAMINE	360 U	370 U	340 U	
NAPHTHALENE	360 U	370 U	340 U	
NITROBENZENE	360 U	370 U	340 U	
NITROBENZENE-D5	1800 U	1800 U	1600 JMS	24
PENTACHLOROPHENOL	360 U	370 U	340 U	
PHENANTHRENE	360 U	370 U	1600 MS	26
PHENOL	360 U	370 U	1400 MS	41
PHENOL-D5				
PYRENE	360 U	370 U		

TABLE D.6.31 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122987

DRAFT DO NOT CITE

AREA	TRAILER	STG	GSA AREA	QA	QA
LOCATION	ARROYO	WELLS	MATRIX	SPIKE	MSD %
TYPE OF LOCATION	LL003010B	LL036064B	DUPLICATE	RECOVERY	
SAMPLE NUMBER			LL037032B	LL037032B	
MATRIX	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	%
ENV PROBLEM NO	1	9	10	10	
TERPHENYL-D14					
1,2-DICHLOROBENZENE	360 U	370 U	340 U		
1,2,4-TRICHLOROBENZENE	360 U	370 U	760 MS	22 *	
1,3-DICHLOROBENZENE	360 U	370 U	340 U		
1,4-DICHLOROBENZENE	360 U	370 U	690 MS	21 *	
2-CHLORONAPHTHALENE	360 U	370 U	340 U		
2-CHLOROPHENOL	360 U	370 U	1600 MS	22 *	
2-FLUOROBIPHENYL					
2-FLUOROPHENOL					
2-METHYLNAPHTHALENE	360 U	370 U	340 U		
2-METHYLPHENOL	360 U	370 U	340 U		
2-NITROANILINE	1800 U	1800 U	1700 U		
2-NITROPHENOL	360 U	370 U	340 U		
2,4-DICHLOROPHENOL	360 U	370 U	340 U		
2,4-DIMETHYLPHENOL	360 U	370 U	340 U		
2,4-DINITROPHENOL	1800 U	1800 U	1700 U		
2,4-DINITROTOLUENE	360 U	370 U	970 MS	29	
2,4,5-TRICHLOROPHENOL	1800 U	1800 U	1700 U		
2,4,6-TRIBROMOPHENOL					
2,4,6-TRICHLOROPHENOL	360 U	370 U	340 U		
2,6-DINITROTOLUENE	360 U	370 U	340 U		
3-NITROANILINE	1800 U	1800 U	1700 U		
3,3'-DICHLOROBENZIDINE	710 U	730 U	670 U		
4-BROMOPHENYL-PHENYLETHER	360 U	370 U	340 U		
4-CHLORO-3-METHYLPHENOL	360 U	370 U	2100 MS	31	
4-CHLOROANILINE	360 U	370 U	340 U		
4-CHLOROPHENYL-PHENYLETHER	360 U	370 U	340 U		
4-METHYLPHENOL	360 U	370 U	340 U		
4-NITROANILINE	1800 U	1800 U	1700 U		
4-NITROPHENOL	1800 U	1800 U	1000 JMS	15	
4,6-DINITRO-2-METHYLPHENOL	1800 U	1800 U	1700 U		
SURR 1(NBZ) %RECOVERY	14 *	0 *	23		
SURR 2(FBP) %RECOVERY	20 *	0 *	30		
SURR 3(TPH) %RECOVERY	36	16 *	42		
SURR 4(PHL) %RECOVERY	19 *	0 *	31		
SURR 5(2FP) %RECOVERY	22 *	0 *	31		
SURR 6(TBP) %RECOVERY	17 *	8 *	43		

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TABLE D.6.31 LIVERMORE/SANDIA EXTRACTABLE ORGANICS - SDG NUMBER: LL122987

DRAFT DO NOT CITE

AREA	TRAILER STG	GSA AREA	MATRIX SPIKE	MSD X	QA	QA
LOCATION	ARROYO	WELLS	DUPPLICATE	RECOVERY		
TYPE OF LOCATION	LL003010B	LL036064B	LL037032B	LL037032B		
SAMPLE NUMBER						
MATRIX	SOIL	SOIL	SOIL	SOIL		
UNITS	UG/KG	UG/KG	UG/KG	X		
ENV PROBLEM NO	1	9	10	10		
M/E 68-1						
M/E 68-2						
M/E 69						
M/E 70-1						
M/E 70-2						
M/E 127						
M/E 197						
M/E 198						
M/E 199						
M/E 275						
M/E 365						
M/E 441						
M/E 442						
M/E 443-1						
M/E 443-2						
INTERNAL STD AREA(ANT)	62900	57300	65700			
INTERNAL STD AREA(CRY)	57300	57700	66900			
INTERNAL STD AREA(DCB)	38200	34600	42000			
INTERNAL STD AREA(NPT)	127000	115000	145000			
INTERNAL STD AREA(PHN)	97000	85100	98700			
INTERNAL STD AREA(PRY)	40500	39800	47000			
DILUTION FACTOR	1	1	1			
PERCENT MOISTURE	7	9	1			
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)	7(14 D)	7(14 D)			

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>C825</b>					
SN006014E		UNKNOWN ( 9.31)		3 J	9.31
SN006014E		UNKNOWN (12.23)		3 J	12.23
SN006014E		UNKNOWN (14.10)		3 J	14.10
SN006014E		UNKNOWN (14.50)		4 J	14.50
SN006014E		UNKNOWN (14.69)		3 J	14.69
SN006014E		UNKNOWN (17.48)		3 J	17.48
SN006014E		UNKNOWN (18.75)		32 J	18.75
SN006014E		UNKNOWN (25.81)		8 J	25.81
SN006014E		UNKNOWN (33.39)		15 J	33.39
SN006014E		UNKNOWN (36.41)		12 J	36.41
SN006014E		UNKNOWN HYDROCARBON (12.33)		5 J	12.33
SN006014E		UNKNOWN HYDROCARBON (32.29)		10 J	32.29
SN006014E		UNKNOWN HYDROCARBON (35.44)		15 J	35.44
SN006025E		UNKNOWN ( 9.32)		3 J	9.32
SN006025E		UNKNOWN (12.32)		6 J	12.32
SN006025E		UNKNOWN (12.46)		2 J	12.46
SN006025E		UNKNOWN (13.00)		2 J	13.00
SN006025E		UNKNOWN (14.12)		11 J	14.12
SN006025E		UNKNOWN (14.51)		2 J	14.51
SN006025E		UNKNOWN (14.70)		2 J	14.70
SN006025E		UNKNOWN (15.13)		2 J	15.13
SN006025E		UNKNOWN (17.47)		1 J	17.47
SN006025E		UNKNOWN (17.97)		2 J	17.97
SN006025E		UNKNOWN (18.70)		4 J	18.70
SN006025E		UNKNOWN (23.28)		2 J	23.28
SN006025E		UNKNOWN (25.82)		11 J	25.82
SN006025E		UNKNOWN AROMATIC HYDROC(11.50)		2 J	11.50
SN006025E		UNKNOWN AROMATIC HYDROC(12.22)		3 J	12.22
SN006025E		UNKNOWN HYDROCARBON (32.29)		10 J	32.29
SN006025E		UNKNOWN HYDROCARBON (33.38)		15 J	33.38
SN006025E		UNKNOWN HYDROCARBON (35.44)		13 J	35.44
SN006025E		UNKNOWN HYDROCARBON (36.41)		14 J	36.41
SN006036E		UNKNOWN ( 9.32)		3 J	9.32
SN006036E		UNKNOWN (12.32)		5 J	12.32
SN006036E		UNKNOWN (12.70)		2 J	12.70
SN006036E		UNKNOWN (13.60)		3 J	13.60
SN006036E		UNKNOWN (14.09)		7 J	14.09
SN006036E		UNKNOWN (14.50)		4 J	14.50
SN006036E		UNKNOWN (14.69)		3 J	14.69
SN006036E		UNKNOWN (15.14)		1 J	15.14
SN006036E		UNKNOWN (16.48)		2 J	16.48
SN006036E		UNKNOWN (17.97)		2 J	17.97
SN006036E		UNKNOWN (18.70)		3 J	18.70
SN006036E		UNKNOWN (23.29)		1 J	23.29
SN006036E		UNKNOWN (25.81)		7 J	25.81
SN006036E		UNKNOWN (33.38)		13 J	33.38

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
C825					
	SN006036E		UNKNOWN AROMATIC ( 7.99)	2 J	7.99
	SN006036E		UNKNOWN AROMATIC HYDROC(12.22)	2 J	12.22
	SN006036E		UNKNOWN HYDROCARBON (32.29)	12 J	32.29
	SN006036E		UNKNOWN HYDROCARBON (35.43)	11 J	35.43
	SN006036E		UNKNOWN HYDROCARBON (36.42)	12 J	36.42
C826					
	SN005013E		UNKNOWN (21.66)	95 J	21.66
	SN005013E		UNKNOWN (21.75)	77 J	21.75
	SN005013E		UNKNOWN (24.92)	34 J	24.92
	SN005013E		UNKNOWN (30.44)	58 J	30.44
	SN005013E		UNKNOWN HYDROCARBON (15.48)	26 J	15.48
	SN005013E		UNKNOWN HYDROCARBON (15.61)	21 J	15.61
	SN005013E		UNKNOWN HYDROCARBON (16.22)	170 J	16.22
	SN005013E		UNKNOWN HYDROCARBON (16.49)	37 J	16.49
	SN005013E		UNKNOWN HYDROCARBON (17.26)	36 J	17.26
	SN005013E		UNKNOWN HYDROCARBON (17.45)	21 J	17.45
	SN005013E		UNKNOWN HYDROCARBON (17.56)	17 J	17.56
	SN005013E		UNKNOWN HYDROCARBON (18.13)	130 J	18.13
	SN005013E		UNKNOWN HYDROCARBON (19.51)	26 J	19.51
	SN005013E		UNKNOWN HYDROCARBON (19.91)	160 J	19.91
	SN005013E		UNKNOWN HYDROCARBON (20.76)	56 J	20.76
	SN005013E		UNKNOWN HYDROCARBON (20.98)	31 J	20.98
	SN005013E		UNKNOWN HYDROCARBON (21.14)	110 J	21.14
	SN005013E		UNKNOWN HYDROCARBON (21.59)	120 J	21.59
	SN005013E		UNKNOWN HYDROCARBON (23.16)	58 J	23.16
	SN005013E		UNKNOWN HYDROCARBON (24.67)	33 J	24.67
	SN005024E		UNKNOWN (15.47)	15 J	15.47
	SN005024E		UNKNOWN (15.61)	10 J	15.61
	SN005024E		UNKNOWN (17.44)	12 J	17.44
	SN005024E		UNKNOWN (17.57)	9 J	17.57
	SN005024E		UNKNOWN (18.67)	110 J	18.67
	SN005024E		UNKNOWN (20.74)	14 J	20.74
	SN005024E		UNKNOWN (20.96)	13 J	20.96
	SN005024E		UNKNOWN (21.61)	59 J	21.61
	SN005024E		UNKNOWN (26.53)	28 J	26.53
	SN005024E		UNKNOWN (28.57)	18 J	28.57
	SN005024E		UNKNOWN HYDROCARBON (16.21)	88 J	16.21
	SN005024E		UNKNOWN HYDROCARBON (16.48)	19 J	16.48
	SN005024E		UNKNOWN HYDROCARBON (18.12)	68 J	18.12
	SN005024E		UNKNOWN HYDROCARBON (19.50)	12 J	19.50
	SN005024E		UNKNOWN HYDROCARBON (19.91)	76 J	19.91
	SN005024E		UNKNOWN HYDROCARBON (21.13)	46 J	21.13
	SN005024E		UNKNOWN HYDROCARBON (21.58)	59 J	21.58
	SN005024E		UNKNOWN HYDROCARBON (23.16)	19 J	23.16
	SN005024E		UNKNOWN HYDROCARBON (24.25)	49 J	24.25

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<hr/>					
C826					
	SN005035E		DIMETHYLETHYLPHENOL (17.96)	8 J	17.96
	SN005035E		UNKNOWN (16.47)	5 J	16.47
	SN005035E		UNKNOWN (19.24)	7 J	19.24
	SN005035E		UNKNOWN (19.50)	4 J	19.50
	SN005035E		UNKNOWN (20.05)	4 J	20.05
	SN005035E		UNKNOWN (20.30)	3 J	20.30
	SN005035E		UNKNOWN (20.75)	3 J	20.75
	SN005035E		UNKNOWN (20.97)	4 J	20.97
	SN005035E		UNKNOWN (21.10)	5 J	21.10
	SN005035E		UNKNOWN (21.65)	15 J	21.65
	SN005035E		UNKNOWN (21.76)	9 J	21.76
	SN005035E		UNKNOWN (22.53)	7 J	22.53
	SN005035E		UNKNOWN (23.15)	7 J	23.15
	SN005035E		UNKNOWN (24.92)	11 J	24.92
	SN005035E		UNKNOWN HYDROCARBON (15.47)	7 J	15.47
	SN005035E		UNKNOWN HYDROCARBON (16.20)	27 J	16.20
	SN005035E		UNKNOWN HYDROCARBON (18.11)	20 J	18.11
	SN005035E		UNKNOWN HYDROCARBON (19.89)	20 J	19.89
	SN005035E		UNKNOWN HYDROCARBON (21.14)	22 J	21.14
	SN005035E		UNKNOWN HYDROCARBON (21.57)	15 J	21.57
C827					
	LL012055A		CAFFEINE (26.79)	7 J	26.79
	LL012055A		UNKNOWN ( 9.05)	4 J	9.05
	LL012055A		UNKNOWN (11.62)	9 J	11.62
	LL012055A		UNKNOWN (11.77)	4 J	11.77
	LL012055A		UNKNOWN (12.47)	5 J	12.47
	LL012055A		UNKNOWN (12.64)	15 J	12.64
	LL012055A		UNKNOWN (14.62)	5 J	14.62
	LL012055A		UNKNOWN (15.92)	8 J	15.92
	LL012055A		UNKNOWN (17.35)	32 J	17.35
	LL012055A		UNKNOWN (18.13)	2 J	18.13
	LL012055A		UNKNOWN (18.81)	20 J	18.81
	LL012055A		UNKNOWN (19.17)	3 J	19.17
	LL012055A		UNKNOWN (22.54)	9 J	22.54
	LL012055A		UNKNOWN (25.49)	6 J	25.49
	LL012055A		UNKNOWN (28.20)	8 J	28.20
	LL012055A		UNKNOWN (40.49)	77 J	40.49
	LL012055A		UNKNOWN (40.96)	72 J	40.96
	LL012146A		UNKNOWN ( 9.18)	4 J	9.18
	LL012146A		UNKNOWN (12.47)	3 J	12.47
	LL012146A		UNKNOWN (12.63)	53 J	12.63
	LL012146A		UNKNOWN (14.64)	5 J	14.64
	LL012146A		UNKNOWN (15.70)	30 J	15.70
	LL012146A		UNKNOWN (17.21)	6 J	17.21
	LL012146A		UNKNOWN (17.47)	2 J	17.47

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
C827					
	LL012146A		UNKNOWN (17.99)	2 J	17.99
	LL012146A		UNKNOWN (18.25)	4 J	18.25
	LL012146A		UNKNOWN (27.80)	6 J	27.80
	LL012146A		UNKNOWN (27.96)	5 J	27.96
	LL012146A		UNKNOWN (28.19)	7 J	28.19
	LL012146A		UNKNOWN (29.47)	5 J	29.47
	LL012146A		UNKNOWN (30.26)	180 J	30.26
	LL012146A		UNKNOWN (40.47)	220 J	40.47
	LL012146A		UNKNOWN (40.95)	170 J	40.95
	LL012146A		UNKNOWN (43.19)	30 J	43.19
	LL012146A		UNKNOWN (43.82)	19 J	43.82
	LL012179A		UNKNOWN ( 9.03)	4 J	9.03
	LL012179A		UNKNOWN (11.79)	5 J	11.79
	LL012179A		UNKNOWN (12.49)	8 J	12.49
	LL012179A		UNKNOWN (12.67)	100 J	12.67
	LL012179A		UNKNOWN (14.10)	2 J	14.10
	LL012179A		UNKNOWN (14.68)	8 J	14.68
	LL012179A		UNKNOWN (16.07)	13 J	16.07
	LL012179A		UNKNOWN (17.37)	37 J	17.37
	LL012179A		UNKNOWN (17.99)	3 J	17.99
	LL012179A		UNKNOWN (18.83)	28 J	18.83
	LL012179A		UNKNOWN (22.55)	13 J	22.55
	LL012179A		UNKNOWN (25.55)	15 J	25.55
	LL012179A		UNKNOWN (28.20)	21 J	28.20
	LL012179A		UNKNOWN (30.69)	24 J	30.69
	LL012179A		UNKNOWN (40.47)	150 J	40.47
	LL012179A		UNKNOWN (40.96)	160 J	40.96
	LL012179A		UNKNOWN (43.22)	24 J	43.22
	LL012179A		UNKNOWN (43.82)	22 J	43.82
	LL912032A		CAFFEINE (26.80)	6 J	26.80
	LL912032A		UNKNOWN ( 8.05)	5 J	8.05
	LL912032A		UNKNOWN ( 8.27)	3 J	8.27
	LL912032A		UNKNOWN ( 9.05)	3 J	9.05
	LL912032A		UNKNOWN (14.53)	2 J	14.53
	LL912032A		UNKNOWN (17.24)	18 J	17.24
	LL912032A		UNKNOWN (17.99)	4 J	17.99
	LL912032A		UNKNOWN (18.74)	2 J	18.74
	LL912032A		UNKNOWN (19.13)	95 J	19.13
	LL912032A		UNKNOWN (19.49)	74 J	19.49
	LL912032A		UNKNOWN (23.16)	4 J	23.16
	LL912032A		UNKNOWN (30.98)	12 J	30.98
	LL912032A		UNKNOWN (40.52)	28 J	40.52
	LL912032A		UNKNOWN (40.97)	44 J	40.97
D105					
	LL012168A		CAFFEINE (27.41)	5 J	27.41

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>D105</b>					
	LL012168A		UNKNOWN (16.99)	19 J	16.99
	LL012168A		UNKNOWN (17.80)	150 J	17.80
	LL012168A		UNKNOWN (19.09)	5 J	19.09
	LL012168A		UNKNOWN (22.84)	5 JB	22.84
	LL012168A		UNKNOWN (22.92)	3 J	22.92
	LL012168A		UNKNOWN (23.60)	4 J	23.60
	LL012168A		UNKNOWN (25.04)	3 J	25.04
	LL012168A		UNKNOWN (25.35)	5 J	25.35
	LL012168A		UNKNOWN (25.79)	8 JB	25.79
	LL012168A		UNKNOWN (26.41)	5 J	26.41
	LL012168A		UNKNOWN (27.09)	7 J	27.09
	LL012168A		UNKNOWN (28.32)	72 J	28.32
	LL012168A		UNKNOWN (28.54)	47 J	28.54
	LL012168A		UNKNOWN (28.68)	54 J	28.68
	LL012168A		UNKNOWN (30.76)	56 J	30.76
	LL012168A		UNKNOWN (30.98)	63 JB	30.98
	LL012215A		CAFFEINE (27.18)	110 J	27.18
	LL012215A		INDOLE-2,3-DIONE (25.05)	11 J	25.05
	LL012215A		PHTHALIC ANHYDRIDE (18.69)	8 J	18.69
	LL012215A		UNKNOWN (12.98)	52 J	12.98
	LL012215A		UNKNOWN (19.11)	19 J	19.11
	LL012215A		UNKNOWN (19.82)	9 J	19.82
	LL012215A		UNKNOWN (22.91)	22 J	22.91
	LL012215A		UNKNOWN (28.35)	120 J	28.35
	LL012215A		UNKNOWN (30.81)	520 J	30.81
	LL012215A		UNKNOWN (30.91)	390 J	30.91
	LL012215A		UNKNOWN (31.73)	14 J	31.73
	LL012215A		UNKNOWN (33.82)	250 J	33.82
	LL012215A		UNKNOWN (41.26)	17 J	41.26
	LL012215A		UNKNOWN ACID (25.86)	38 J	25.86
	LL012215A		UNKNOWN ACID (28.69)	210 J	28.69
	LL012215A		UNKNOWN ACID (29.78)	9 J	29.78
	LL012215A		UNKNOWN ACID (31.14)	820 J	31.14
	LL012215A		UNKNOWN ACID (31.30)	26 J	31.30
	LL012215A		9,10-ANTHRACENEDIME (28.84)	17 J	28.84
	LL012248A		CAFFEINE (27.14)	75 J	27.14
	LL012248A		UNKNOWN (12.96)	50 J	12.96
	LL012248A		UNKNOWN (19.82)	4 J	19.82
	LL012248A		UNKNOWN (23.71)	4 J	23.71
	LL012248A		UNKNOWN (25.12)	5 J	25.12
	LL012248A		UNKNOWN (25.80)	10 J	25.80
	LL012248A		UNKNOWN (26.30)	5 J	26.30
	LL012248A		UNKNOWN (28.29)	39 J	28.29
	LL012248A		UNKNOWN (28.49)	9 J	28.49
	LL012248A		UNKNOWN (30.67)	24 J	30.67
	LL012248A		UNKNOWN (30.73)	21 J	30.73
	LL012248A		UNKNOWN (30.91)	29 J	30.91

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## TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>D105</b>					
	LL012248A		UNKNOWN (31.01)	100 J	31.01
	LL012248A		UNKNOWN (32.13)	10 J	32.13
	LL012248A		UNKNOWN (33.81)	200 J	33.81
	LL012248A		UNKNOWN (41.27)	10 J	41.27
	LL012248A		UNKNOWN (43.80)	13 J	43.80
	LL012248A		9,10-ANTHRACENEDIONE (28.83)	6 J	28.83
	LL012271A		CAFFEINE (27.09)	5 J	27.09
	LL012271A		UNKNOWN (12.98)	73 J	12.98
	LL012271A		UNKNOWN (24.50)	5 J	24.50
	LL012271A		UNKNOWN (28.26)	8 J	28.26
	LL012271A		UNKNOWN (28.51)	28 J	28.51
	LL012271A		UNKNOWN (30.77)	14 J	30.77
	LL012271A		UNKNOWN (30.99)	31 J	30.99
	LL012317A		BENZENE ACETIC ACID (17.81)	110 J	17.81
	LL012317A		BENZENE ACETIC ACID (17.89)	29 J	17.89
	LL012317A		CAFFEINE (27.15)	41 J	27.15
	LL012317A		INDOLE-2,3-DIONE (25.09)	18 J	25.09
	LL012317A		PHTHALIC ANHYDRIDE (18.70)	18 J	18.70
	LL012317A		UNKNOWN (13.11)	160 J	13.11
	LL012317A		UNKNOWN (16.60)	19 J	16.60
	LL012317A		UNKNOWN (22.94)	23 J	22.94
	LL012317A		UNKNOWN (23.88)	15 J	23.88
	LL012317A		UNKNOWN (28.30)	31 J	28.30
	LL012317A		UNKNOWN (28.48)	77 JB	28.48
	LL012317A		UNKNOWN (28.67)	23 J	28.67
	LL012317A		UNKNOWN (29.79)	14 J	29.79
	LL012317A		UNKNOWN (30.74)	65 J	30.74
	LL012317A		UNKNOWN (30.84)	160 J	30.84
	LL012317A		UNKNOWN (30.93)	52 JB	30.93
	LL012317A		UNKNOWN (31.11)	800 J	31.11
	LL012317A		UNKNOWN (33.81)	60 J	33.81
	LL012317A		UNKNOWN ACID (25.86)	24 J	25.86
	LL012317A		UNKNOWN PHTHALATE (26.61)	17 J	26.61
	LL012680A		UNKNOWN (21.73)	3 J	21.73
	LL012680A		UNKNOWN (22.84)	6 J	22.84
	LL012680A		UNKNOWN (25.84)	47 J	25.84
	LL012680A		UNKNOWN (28.25)	4 J	28.25
	LL012680A		UNKNOWN (28.51)	32 J	28.51
	LL012680A		UNKNOWN (30.71)	95 J	30.71
	LL012680A		UNKNOWN (30.97)	10 J	30.97
	LL012680A		UNKNOWN (33.64)	9 J	33.64
	LL912021A		CAFFEINE (27.10)	6 J	27.10
	LL912021A		UNKNOWN (22.86)	5 J	22.86
	LL912021A		UNKNOWN (25.04)	5 J	25.04
	LL912021A		UNKNOWN (25.80)	11 J	25.80
	LL912021A		UNKNOWN (27.16)	3 J	27.16
	LL912021A		UNKNOWN (28.06)	7 J	28.06

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>D105</b>					
	LL912021A		UNKNOWN (28.30)	27 J	28.30
	LL912021A		UNKNOWN (28.58)	120 J	28.58
	LL912021A		UNKNOWN (30.55)	20 J	30.55
	LL912021A		UNKNOWN (30.73)	37 J	30.73
	LL912021A		UNKNOWN (30.80)	60 J	30.80
	LL912021A		UNKNOWN (31.04)	270 J	31.04
	LL912021A		UNKNOWN (33.80)	8 J	33.80
	LL912021A		UNKNOWN (34.66)	9 J	34.66
	LL912021A		UNKNOWN (37.56)	4 J	37.56
	LL912021A		UNKNOWN (37.80)	67 J	37.80
	LL912021A		UNKNOWN (38.04)	29 J	38.04
	LL912021A		UNKNOWN (39.72)	15 J	39.72
	LL912021A		UNKNOWN (41.27)	31 J	41.27
<b>D106</b>					
	LL012033A		CAFFEINE (27.13)	39 J	27.13
	LL012033A		UNKNOWN (12.04)	19 J	12.04
	LL012033A		UNKNOWN (17.85)	76 J	17.85
	LL012033A		UNKNOWN (19.18)	14 J	19.18
	LL012033A		UNKNOWN (19.76)	24 J	19.76
	LL012033A		UNKNOWN (22.99)	110 J	22.99
	LL012033A		UNKNOWN (25.91)	110 J	25.91
	LL012033A		UNKNOWN (27.21)	18 J	27.21
	LL012033A		UNKNOWN (28.32)	74 J	28.32
	LL012033A		UNKNOWN (28.50)	35 J	28.50
	LL012033A		UNKNOWN (28.75)	530 J	28.75
	LL012033A		UNKNOWN (29.79)	26 J	29.79
	LL012033A		UNKNOWN (30.93)	910 JB	30.93
	LL012033A		UNKNOWN (31.23)	620 J	31.23
	LL012033A		UNKNOWN (31.28)	11 JB	31.28
	LL012033A		UNKNOWN (31.76)	22 J	31.76
	LL012033A		UNKNOWN (33.05)	8 J	33.05
	LL012033A		UNKNOWN (42.54)	12 J	42.54
	LL012044A		CAFFEINE (27.15)	96 J	27.15
	LL012044A		UNKNOWN (13.00)	81 J	13.00
	LL012044A		UNKNOWN (15.06)	12 J	15.06
	LL012044A		UNKNOWN (17.89)	130 J	17.89
	LL012044A		UNKNOWN (19.20)	22 J	19.20
	LL012044A		UNKNOWN (22.90)	21 J	22.90
	LL012044A		UNKNOWN (25.58)	12 J	25.58
	LL012044A		UNKNOWN (25.87)	55 J	25.87
	LL012044A		UNKNOWN (27.71)	12 J	27.71
	LL012044A		UNKNOWN (28.34)	91 J	28.34
	LL012044A		UNKNOWN (28.68)	560 J	28.68
	LL012044A		UNKNOWN (28.74)	12 J	28.74
	LL012044A		UNKNOWN (29.79)	13 J	29.79

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
D106					
	LL012044A		UNKNOWN (30.79)	420 J	30.79
	LL012044A		UNKNOWN (30.88)	320 J	30.88
	LL012044A		UNKNOWN (31.14)	1400 J	31.14
	LL012044A		UNKNOWN (33.66)	220 J	33.66
	LL012044A		UNKNOWN (41.27)	24 J	41.27
	LL012044A		UNKNOWN (41.89)	29 J	41.89
	LL012066A		CAFFEINE (27.16)	48 J	27.16
	LL012066A		UNKNOWN (18.03)	180 J	18.03
	LL012066A		UNKNOWN (18.09)	17 J	18.09
	LL012066A		UNKNOWN (19.32)	45 J	19.32
	LL012066A		UNKNOWN (22.98)	56 J	22.98
	LL012066A		UNKNOWN (23.88)	20 J	23.88
	LL012066A		UNKNOWN (25.11)	21 J	25.11
	LL012066A		UNKNOWN (25.91)	85 J	25.91
	LL012066A		UNKNOWN (27.24)	26 J	27.24
	LL012066A		UNKNOWN (28.33)	55 J	28.33
	LL012066A		UNKNOWN (28.80)	840 J	28.80
	LL012066A		UNKNOWN (29.82)	28 J	29.82
	LL012066A		UNKNOWN (30.44)	51 J	30.44
	LL012066A		UNKNOWN (30.95)	920 J	30.95
	LL012066A		UNKNOWN (31.28)	1900 J	31.28
	LL012066A		UNKNOWN (33.84)	100 J	33.84
	LL012066A		UNKNOWN (41.29)	100 J	41.29
	LL012066A		UNKNOWN (41.76)	46 J	41.76
	LL012099A		CAFFEINE (27.17)	52 J	27.17
	LL012099A		UNKNOWN ( 9.62)	130 J	9.62
	LL012099A		UNKNOWN ( 9.84)	38 J	9.84
	LL012099A		UNKNOWN (12.32)	180 J	12.32
	LL012099A		UNKNOWN (14.79)	84 J	14.79
	LL012099A		UNKNOWN (16.61)	48 J	16.61
	LL012099A		UNKNOWN (17.82)	110 J	17.82
	LL012099A		UNKNOWN (22.93)	23 J	22.93
	LL012099A		UNKNOWN (25.09)	17 J	25.09
	LL012099A		UNKNOWN (25.88)	40 J	25.88
	LL012099A		UNKNOWN (27.89)	20 J	27.89
	LL012099A		UNKNOWN (28.36)	100 J	28.36
	LL012099A		UNKNOWN (28.52)	47 JB	28.52
	LL012099A		UNKNOWN (28.72)	280 J	28.72
	LL012099A		UNKNOWN (30.82)	310 J	30.82
	LL012099A		UNKNOWN (30.90)	280 J	30.90
	LL012099A		UNKNOWN (31.17)	1200 J	31.17
	LL012099A		UNKNOWN (33.86)	570 J	33.86
	LL012099A		UNKNOWN (41.98)	100 J	41.98
	LL012135A		CAFFEINE (27.13)	17 J	27.13
	LL012135A		UNKNOWN ( 8.64)	17 J	8.64
	LL012135A		UNKNOWN ( 9.84)	17 J	9.84
	LL012135A		UNKNOWN (13.05)	180 J	13.05

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>D106</b>					
	LL012135A	UNKNOWN (13.17)		130 J	13.17
	LL012135A	UNKNOWN (15.17)		12 J	15.17
	LL012135A	UNKNOWN (17.39)		61 J	17.39
	LL012135A	UNKNOWN (17.83)		52 J	17.83
	LL012135A	UNKNOWN (19.24)		13 J	19.24
	LL012135A	UNKNOWN (22.92)		20 J	22.92
	LL012135A	UNKNOWN (25.85)		33 J	25.85
	LL012135A	UNKNOWN (27.19)		13 J	27.19
	LL012135A	UNKNOWN (28.29)		30 J	28.29
	LL012135A	UNKNOWN (28.65)		340 J	28.65
	LL012135A	UNKNOWN (30.09)		30 J	30.09
	LL012135A	UNKNOWN (30.86)		290 J	30.86
	LL012135A	UNKNOWN (31.15)		1000 J	31.15
	LL012135A	UNKNOWN (41.28)		100 J	41.28
	LL012135A	UNKNOWN HYDROCARBON (25.04)		14 J	25.04
	LL012157A	CAFFEINE (27.12)		10 J	27.12
	LL012157A	UNKNOWN (13.02)		64 J	13.02
	LL012157A	UNKNOWN (15.09)		9 J	15.09
	LL012157A	UNKNOWN (17.79)		63 J	17.79
	LL012157A	UNKNOWN (17.87)		28 J	17.87
	LL012157A	UNKNOWN (19.18)		11 J	19.18
	LL012157A	UNKNOWN (22.89)		20 J	22.89
	LL012157A	UNKNOWN (23.87)		13 J	23.87
	LL012157A	UNKNOWN (25.86)		31 J	25.86
	LL012157A	UNKNOWN (27.20)		12 J	27.20
	LL012157A	UNKNOWN (28.32)		43 J	28.32
	LL012157A	UNKNOWN (28.69)		370 J	28.69
	LL012157A	UNKNOWN (30.03)		11 J	30.03
	LL012157A	UNKNOWN (30.78)		220 J	30.78
	LL012157A	UNKNOWN (30.88)		200 J	30.88
	LL012157A	UNKNOWN (31.15)		930 J	31.15
	LL012157A	UNKNOWN (41.28)		310 J	41.28
	LL012157A	UNKNOWN (41.71)		220 J	41.71
	LL012180A	CAFFEINE (27.21)		77 J	27.21
	LL012180A	UNKNOWN (13.11)		320 J	13.11
	LL012180A	UNKNOWN (18.17)		200 J	18.17
	LL012180A	UNKNOWN (19.39)		24 J	19.39
	LL012180A	UNKNOWN (22.99)		59 J	22.99
	LL012180A	UNKNOWN (25.33)		39 J	25.33
	LL012180A	UNKNOWN (25.67)		26 J	25.67
	LL012180A	UNKNOWN (25.92)		61 J	25.92
	LL012180A	UNKNOWN (28.35)		57 J	28.35
	LL012180A	UNKNOWN (28.51)		78 J	28.51
	LL012180A	UNKNOWN (28.71)		250 J	28.71
	LL012180A	UNKNOWN (29.28)		23 J	29.28
	LL012180A	UNKNOWN (30.79)		350 J	30.79
	LL012180A	UNKNOWN (30.93)		270 J	30.93

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>D106</b>					
	LL012180A		UNKNOWN (31.18)	1100 J	31.18
	LL012180A		UNKNOWN (33.84)	64 J	33.84
	LL012180A		UNKNOWN (41.08)	100 J	41.08
	LL012180A		UNKNOWN (41.57)	70 J	41.57
	LL012282A		CAFFEINE (27.10)	19 J	27.10
	LL012282A		UNKNOWN (17.56)	23 J	17.56
	LL012282A		UNKNOWN (19.08)	8 J	19.08
	LL012282A		UNKNOWN (22.85)	10 JB	22.85
	LL012282A		UNKNOWN (25.82)	23 J	25.82
	LL012282A		UNKNOWN (27.17)	8 J	27.17
	LL012282A		UNKNOWN (28.27)	19 J	28.27
	LL012282A		UNKNOWN (28.59)	240 J	28.59
	LL012282A		UNKNOWN (28.65)	9 J	28.65
	LL012282A		UNKNOWN (30.73)	92 J	30.73
	LL012282A		UNKNOWN (30.83)	97 J	30.83
	LL012282A		UNKNOWN (31.07)	650 J	31.07
	LL012282A		UNKNOWN (41.27)	45 J	41.27
	LL012282A		UNKNOWN HYDROCARBON (21.87)	6 J	21.87
	LL012282A		UNKNOWN HYDROCARBON (23.44)	9 J	23.44
	LL012282A		UNKNOWN HYDROCARBON (24.94)	10 J	24.94
	LL012282A		UNKNOWN HYDROCARBON (25.04)	6 J	25.04
	LL012282A		UNKNOWN HYDROCARBON (26.36)	9 J	26.36
	LL012282A		UNKNOWN HYDROCARBON (26.52)	7 J	26.52
	SBKD106		UNKNOWN (21.72)	2 J	21.72
	SBKD106		UNKNOWN (22.84)	8 J	22.84
	SBKD106		UNKNOWN (25.79)	3 J	25.79
	SBKD106		UNKNOWN (28.50)	8 J	28.50
	SBKD106		UNKNOWN (30.96)	13 J	30.96
	SBKD106		UNKNOWN (31.25)	11 J	31.25
	SBKD106		UNKNOWN (33.50)	6 J	33.50
	SBKD106		UNKNOWN (34.94)	9 J	34.94
<b>D107</b>					
	LL012306A		CAFFEINE (27.16)	30 J	27.16
	LL012306A		UNKNOWN (17.90)	18 J	17.90
	LL012306A		UNKNOWN (17.90)	77 J	17.90
	LL012306A		UNKNOWN (19.23)	12 J	19.23
	LL012306A		UNKNOWN (22.99)	64 J	22.99
	LL012306A		UNKNOWN (25.12)	18 J	25.12
	LL012306A		UNKNOWN (25.94)	85 J	25.94
	LL012306A		UNKNOWN (27.24)	21 J	27.24
	LL012306A		UNKNOWN (28.37)	67 J	28.37
	LL012306A		UNKNOWN (28.78)	720 J	28.78
	LL012306A		UNKNOWN (29.82)	19 J	29.82
	LL012306A		UNKNOWN (30.59)	29 J	30.59
	LL012306A		UNKNOWN (30.88)	350 J	30.88

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>D107</b>					
	LL012306A		UNKNOWN (30.98)	470 J	30.98
	LL012306A		UNKNOWN (31.25)	1600 J	31.25
	LL012306A		UNKNOWN (37.84)	35 J	37.84
	LL012306A		UNKNOWN (38.08)	24 J	38.08
	LL012306A		UNKNOWN (41.33)	100 J	41.33
	LL012306A		UNKNOWN (41.75)	36 J	41.75
	LL012339A		CAFFEINE (27.23)	100 J	27.23
	LL012339A		UNKNOWN (12.17)	24 J	12.17
	LL012339A		UNKNOWN (12.53)	23 J	12.53
	LL012339A		UNKNOWN (16.04)	18 J	16.04
	LL012339A		UNKNOWN (16.36)	16 J	16.36
	LL012339A		UNKNOWN (17.78)	37 J	17.78
	LL012339A		UNKNOWN (19.83)	50 J	19.83
	LL012339A		UNKNOWN (23.12)	230 J	23.12
	LL012339A		UNKNOWN (26.02)	210 J	26.02
	LL012339A		UNKNOWN (26.37)	35 J	26.37
	LL012339A		UNKNOWN (28.36)	47 J	28.36
	LL012339A		UNKNOWN (28.74)	220 J	28.74
	LL012339A		UNKNOWN (29.51)	18 J	29.51
	LL012339A		UNKNOWN (29.84)	12 J	29.84
	LL012339A		UNKNOWN (30.92)	1200 J	30.92
	LL012339A		UNKNOWN (31.19)	760 J	31.19
	LL012339A		UNKNOWN (31.80)	62 J	31.80
	LL012339A		UNKNOWN (32.53)	35 J	32.53
	LL012339A		UNKNOWN (32.95)	40 J	32.95
	LL012339A		UNKNOWN (33.41)	30 J	33.41
	LL024015F		CAFFEINE (27.33)	400 J	27.33
	LL024015F		UNKNOWN (10.63)	71 J	10.63
	LL024015F		UNKNOWN (11.40)	44 J	11.40
	LL024015F		UNKNOWN (14.52)	64 J	14.52
	LL024015F		UNKNOWN (15.85)	700 J	15.85
	LL024015F		UNKNOWN (18.39)	52 J	18.39
	LL024015F		UNKNOWN (19.55)	240 J	19.55
	LL024015F		UNKNOWN (20.01)	310 J	20.01
	LL024015F		UNKNOWN (23.32)	270 J	23.32
	LL024015F		UNKNOWN (23.82)	45 J	23.82
	LL024015F		UNKNOWN (25.94)	75 J	25.94
	LL024015F		UNKNOWN (28.36)	41 J	28.36
	LL024015F		UNKNOWN (28.54)	110 J	28.54
	LL024015F		UNKNOWN (28.81)	540 J	28.81
	LL024015F		UNKNOWN (30.25)	59 J	30.25
	LL024015F		UNKNOWN (30.31)	51 J	30.31
<b>D108</b>					
	LL003043E		UNKNOWN (21.77)	2 J	21.77
	LL003043E		UNKNOWN (33.82)	10 J	33.82

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>D108</b>					
	LL025016F		CAFFEINE (27.77)	53 J	27.77
	LL025016F		UNKNOWN ( 8.01)	110 J	8.01
	LL025016F		UNKNOWN (10.10)	140 J	10.10
	LL025016F		UNKNOWN (10.41)	88 J	10.41
	LL025016F		UNKNOWN (10.64)	95 J	10.64
	LL025016F		UNKNOWN (11.07)	100 J	11.07
	LL025016F		UNKNOWN (12.71)	47 J	12.71
	LL025016F		UNKNOWN (18.99)	21 J	18.99
	LL025016F		UNKNOWN (20.83)	56 J	20.83
	LL025016F		UNKNOWN (20.93)	25 J	20.93
	LL025016F		UNKNOWN (21.56)	21 J	21.56
	LL025016F		UNKNOWN (25.39)	73 J	25.39
	LL025016F		UNKNOWN (29.60)	57 J	29.60
	LL025016F		UNKNOWN (31.12)	35 J	31.12
	LL025016F		UNKNOWN ACID (21.27)	100 J	21.27
	LL025016F		UNKNOWN ACID (24.22)	990 J	24.22
	LL025016F		UNKNOWN ACID (26.76)	140 J	26.76
	LL025016F		UNKNOWN ACID (29.10)	570 J	29.10
	LL025016F		UNKNOWN ACID (33.78)	13 J	33.78
	LL025016F		UNKNOWN PHENOL (25.58)	100 J	25.58
	LL025027F		UNKNOWN ( 7.99)	7 J	7.99
	LL026017F		BENZENEACETIC ACID (18.52)	44 J	18.52
	LL026017F		CAFFEINE (27.23)	110 J	27.23
	LL026017F		ETHANOL,CHLORO,PHOSPHAT(25.98)	25 J	25.98
	LL026017F		PHTHALIC ANHYDRIDE (19.22)	8 J	19.22
	LL026017F		UNKNOWN ( 9.25)	7 J	9.25
	LL026017F		UNKNOWN (12.94)	29 J	12.94
	LL026017F		UNKNOWN (13.89)	26 J	13.89
	LL026017F		UNKNOWN (15.08)	1000 J	15.08
	LL026017F		UNKNOWN (17.34)	27 J	17.34
	LL026017F		UNKNOWN (19.59)	28 J	19.59
	LL026017F		UNKNOWN (22.45)	40 J	22.45
	LL026017F		UNKNOWN (30.94)	16 J	30.94
	LL026017F		UNKNOWN (33.84)	25 J	33.84
	LL026017F		UNKNOWN ACID (17.16)	13 J	17.16
	LL026017F		UNKNOWN ACID (17.26)	100 J	17.26
	LL026017F		UNKNOWN ACID (17.68)	570 J	17.68
	LL026017F		UNKNOWN ACID (18.66)	10 J	18.66
	LL026017F		UNKNOWN ACID (19.63)	13 J	19.63
	LL026017F		UNKNOWN ACID (20.19)	21 J	20.19
	LL026017F		UNKNOWN ACID (22.73)	20 J	22.73
	LL912043A		BENZENE PROPANOIC ACID (19.21)	5 J	19.21
	LL912043A		CAFFEINE (27.16)	16 J	27.16
	LL912043A		ETHYL BENZOIC ACID (18.73)	3 J	18.73
	LL912043A		SULFUR, S8 (29.80)	10 J	29.80
	LL912043A		UNKNOWN (17.01)	3 J	17.01
	LL912043A		UNKNOWN (17.76)	30 J	17.76

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
D108					
	LL912043A		UNKNOWN (25.21)	4 J	25.21
	LL912043A		UNKNOWN (27.50)	4 J	27.50
	LL912043A		UNKNOWN (28.32)	13 J	28.32
	LL912043A		UNKNOWN (30.90)	160 J	30.90
	LL912043A		UNKNOWN (31.77)	6 J	31.77
	LL912043A		UNKNOWN (33.83)	5 J	33.83
	LL912043A		UNKNOWN (41.33)	35 J	41.33
	LL912043A		UNKNOWN (42.01)	53 J	42.01
	LL912043A		UNKNOWN ACID (22.92)	11 J	22.92
	LL912043A		UNKNOWN ACID (25.87)	16 J	25.87
	LL912043A		UNKNOWN ACID (27.22)	6 J	27.22
	LL912043A		UNKNOWN ACID (28.68)	230 J	28.68
	LL912043A		UNKNOWN ACID (31.14)	460 J	31.14
	LL912043A		UNKNOWN ACID (31.19)	27 J	31.19
	SN008049E		UNKNOWN ( 7.19)	4 J	7.19
	SN008049E		UNKNOWN (12.19)	3 J	12.19
	SN008049E		UNKNOWN (21.75)	2 J	21.75
D111					
	LL012022A		BENZENE ACETIC ACID (17.89)	45 J	17.89
	LL012022A		BENZENE PROPAANOIC ACID (19.24)	9 J	19.24
	LL012022A		CAFFEINE (27.17)	49 J	27.17
	LL012022A		UNKNOWN (12.19)	19 J	12.19
	LL012022A		UNKNOWN (19.86)	17 J	19.86
	LL012022A		UNKNOWN (20.06)	19 J	20.06
	LL012022A		UNKNOWN (22.32)	7 J	22.32
	LL012022A		UNKNOWN (41.31)	18 J	41.31
	LL012022A		UNKNOWN (41.69)	80 J	41.69
	LL012022A		UNKNOWN ACID (19.80)	21 J	19.80
	LL012022A		UNKNOWN ACID (22.98)	39 J	22.98
	LL012022A		UNKNOWN ACID (25.91)	61 J	25.91
	LL012022A		UNKNOWN ACID (27.23)	16 J	27.23
	LL012022A		UNKNOWN ACID (28.78)	680 J	28.78
	LL012022A		UNKNOWN ACID (28.82)	13 J	28.82
	LL012022A		UNKNOWN ACID (29.82)	10 J	29.82
	LL012022A		UNKNOWN ACID (31.24)	670 J	31.24
	LL012022A		UNKNOWN ACID (31.28)	15 J	31.28
	LL012022A		UNKNOWN HYDROCARBON (28.35)	44 J	28.35
	LL012022A		UNKNOWN HYDROCARBON (30.95)	1200 J	30.95
	LL012088A		BENZENEPROPANOIC ACID (19.27)	10 J	19.27
	LL012088A		CAFFEINE (27.20)	32 J	27.20
	LL012088A		CHLORO-,PHENYLMETHYL PHE 27.96)	58 J	27.96
	LL012088A		PHTHALIC ANHYDRIDE (18.78)	66 J	18.78
	LL012088A		UNKNOWN (12.36)	90 J	12.36
	LL012088A		UNKNOWN (17.94)	70 J	17.94
	LL012088A		UNKNOWN (22.30)	180 J	22.30

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## TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>D111</b>					
	LL012088A		UNKNOWN (26.88)	8 J	26.88
	LL012088A		UNKNOWN (28.50)	10 J	28.50
	LL012088A		UNKNOWN (30.83)	210 J	30.83
	LL012088A		UNKNOWN (30.91)	240 J	30.91
	LL012088A		UNKNOWN (31.63)	46 J	31.63
	LL012088A		UNKNOWN (33.92)	1500 J	33.92
	LL012088A		UNKNOWN (41.63)	80 J	41.63
	LL012088A		UNKNOWN ACID (22.93)	15 J	22.93
	LL012088A		UNKNOWN ACID (25.88)	18 J	25.88
	LL012088A		UNKNOWN ACID (28.34)	15 J	28.34
	LL012088A		UNKNOWN ACID (28.71)	42 J	28.71
	LL012088A		UNKNOWN ACID (31.18)	990 J	31.18
	LL012088A		UNKNOWN PHTHALATE (26.78)	81 J	26.78
	LL012204A		BENZENE ACETIC ACID (17.72)	18 J	17.72
	LL012204A		CAFFEINE (27.21)	100 J	27.21
	LL012204A		UNKNOWN (12.59)	21 J	12.59
	LL012204A		UNKNOWN (13.04)	37 J	13.04
	LL012204A		UNKNOWN (17.84)	24 J	17.84
	LL012204A		UNKNOWN (18.79)	15 J	18.79
	LL012204A		UNKNOWN (22.32)	19 J	22.32
	LL012204A		UNKNOWN (23.46)	37 J	23.46
	LL012204A		UNKNOWN (27.46)	36 J	27.46
	LL012204A		UNKNOWN (28.38)	64 J	28.38
	LL012204A		UNKNOWN (30.09)	24 J	30.09
	LL012204A		UNKNOWN (31.03)	1100 J	31.03
	LL012204A		UNKNOWN (32.40)	22 J	32.40
	LL012204A		UNKNOWN (41.32)	80 J	41.32
	LL012204A		UNKNOWN (41.85)	40 J	41.85
	LL012204A		UNKNOWN ACID (19.81)	27 J	19.81
	LL012204A		UNKNOWN ACID (23.12)	180 J	23.12
	LL012204A		UNKNOWN ACID (25.98)	120 J	25.98
	LL012204A		UNKNOWN ACID (28.85)	1000 J	28.85
	LL012204A		UNKNOWN ACID (31.32)	700 J	31.32
	LL012237A		CAFFEINE (27.19)	57 J	27.19
	LL012237A		UNKNOWN (23.47)	41 J	23.47
	LL012237A		UNKNOWN (25.20)	26 J	25.20
	LL012237A		UNKNOWN (26.37)	17 J	26.37
	LL012237A		UNKNOWN (26.95)	35 J	26.95
	LL012237A		UNKNOWN (27.43)	66 J	27.43
	LL012237A		UNKNOWN (28.36)	44 J	28.36
	LL012237A		UNKNOWN (30.10)	25 J	30.10
	LL012237A		UNKNOWN (30.82)	230 J	30.82
	LL012237A		UNKNOWN (30.93)	150 J	30.93
	LL012237A		UNKNOWN (31.87)	38 J	31.87
	LL012237A		UNKNOWN (32.41)	39 J	32.41
	LL012237A		UNKNOWN (33.32)	45 J	33.32
	LL012237A		UNKNOWN (34.13)	75 J	34.13

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>D111</b>					
	LL012237A		UNKNOWN (36.21)	32 J	36.21
	LL012237A		UNKNOWN (41.32)	80 J	41.32
	LL012237A		UNKNOWN (41.81)	48 J	41.81
	LL012237A		UNKNOWN ACID (25.90)	27 J	25.90
	LL012237A		UNKNOWN ACID (28.72)	330 J	28.72
	LL012237A		UNKNOWN ACID (31.19)	1000 J	31.19
	LL012260A		CAFFEINE (27.13)	15 J	27.13
	LL012260A		UNKNOWN (13.06)	6 J	13.06
	LL012260A		UNKNOWN (27.96)	2 J	27.96
	LL012260A		UNKNOWN (28.30)	8 J	28.30
	LL012260A		UNKNOWN (30.83)	9 J	30.83
	LL012260A		UNKNOWN (30.93)	6 J	30.93
	LL012260A		UNKNOWN (33.22)	4 J	33.22
	LL012260A		UNKNOWN (41.30)	13 J	41.30
	LL012260A		UNKNOWN ACID (22.88)	2 J	22.88
	LL012260A		UNKNOWN ACID (25.82)	4 J	25.82
	LL012260A		UNKNOWN ACID (28.56)	27 J	28.56
	LL012260A		UNKNOWN ACID (31.01)	35 J	31.01
	SBKD111		UNKNOWN (33.66)	200 J	33.66
<b>D112</b>					
	LL012011A		CAFFEINE (27.15)	77 J	27.15
	LL012011A		UNKNOWN (17.64)	13 J	17.64
	LL012011A		UNKNOWN (25.69)	17 J	25.69
	LL012011A		UNKNOWN (28.31)	110 J	28.31
	LL012011A		UNKNOWN (30.79)	1600 J	30.79
	LL012011A		UNKNOWN (30.85)	1600 J	30.85
	LL012011A		UNKNOWN (31.29)	170 J	31.29
	LL012011A		UNKNOWN (31.75)	23 J	31.75
	LL012011A		UNKNOWN (33.66)	16 J	33.66
	LL012011A		UNKNOWN (41.43)	15 J	41.43
	LL012011A		UNKNOWN ACID (19.67)	57 J	19.67
	LL012011A		UNKNOWN ACID (22.91)	90 J	22.91
	LL012011A		UNKNOWN ACID (25.87)	120 J	25.87
	LL012011A		UNKNOWN ACID (28.61)	790 J	28.61
	LL012011A		UNKNOWN ACID (31.07)	620 J	31.07
	LL012011A		9,10-ANTHRACENEDIONE (28.89)	27 J	28.89
	LL012077A		BENZENE ACETIC ACID (17.62)	21 J	17.62
	LL012077A		CAFFEINE (27.14)	120 J	27.14
	LL012077A		UNKNOWN (22.28)	17 J	22.28
	LL012077A		UNKNOWN (30.39)	10 J	30.39
	LL012077A		UNKNOWN (33.82)	29 J	33.82
	LL012077A		UNKNOWN (42.85)	20 J	42.85
	LL012077A		UNKNOWN ACID (22.88)	28 J	22.88
	LL012077A		UNKNOWN ACID (28.54)	110 J	28.54
	LL012077A		9,10-ANTHRACENEDIONE (28.89)	19 J	28.89

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>D112</b>					
	LL012226A		BENZENEPROPANOIC ACID (19.25)	13 J	19.25
	LL012226A		CAFFEINE (27.20)	73 J	27.20
	LL012226A		UNKNOWN (13.11)	380 J	13.11
	LL012226A		UNKNOWN (15.14)	11 J	15.14
	LL012226A		UNKNOWN (17.92)	120 J	17.92
	LL012226A		UNKNOWN (20.17)	9 J	20.17
	LL012226A		UNKNOWN (24.54)	8 J	24.54
	LL012226A		UNKNOWN (25.22)	17 J	25.22
	LL012226A		UNKNOWN (28.36)	45 J	28.36
	LL012226A		UNKNOWN (28.54)	80 J	28.54
	LL012226A		UNKNOWN (30.80)	190 J	30.80
	LL012226A		UNKNOWN (30.90)	150 J	30.90
	LL012226A		UNKNOWN ACID (23.02)	92 J	23.02
	LL012226A		UNKNOWN ACID (25.92)	84 J	25.92
	LL012226A		UNKNOWN ACID (28.70)	88 J	28.70
	LL012226A		UNKNOWN ACID (29.92)	8 J	29.92
	LL012226A		UNKNOWN ACID (31.13)	660 J	31.13
	LL012226A		9,10-ANTHRAKENEDIONE (28.90)	17 J	28.90
	LL022013E		BENZENE DERIVATIVE (19.47)	95 J	19.47
	LL022013E		CAFFEINE (27.28)	360 J	27.28
	LL022013E		UNKNOWN (15.05)	21 J	15.05
	LL022013E		UNKNOWN (15.49)	21 J	15.49
	LL022013E		UNKNOWN (18.27)	350 J	18.27
	LL022013E		UNKNOWN (18.47)	920 J	18.47
	LL022013E		UNKNOWN (18.53)	310 J	18.53
	LL022013E		UNKNOWN (18.83)	260 J	18.83
	LL022013E		UNKNOWN (18.91)	290 J	18.91
	LL022013E		UNKNOWN (23.72)	18 J	23.72
	LL022013E		UNKNOWN (27.76)	72 J	27.76
	LL022013E		UNKNOWN (28.54)	16 J	28.54
	LL022013E		UNKNOWN (33.82)	37 J	33.82
	LL022013E		UNKNOWN (37.34)	67 J	37.34
	LL022013E		UNKNOWN (38.25)	55 J	38.25
	LL022013E		UNKNOWN (39.19)	89 J	39.19
	LL022013E		UNKNOWN (40.24)	52 J	40.24
	LL022013E		UNKNOWN (41.45)	50 J	41.45
	LL022013E		UNKNOWN ACID (25.86)	26 J	25.86
	LL022013E		9,10-ANTHRAKENEDIONE (28.88)	34 J	28.88
	LL022024E		HALOGENATED UNKNOWN (26.85)	2 J	26.85
	LL022024E		PHENOL, DICHLORO (21.75)	5 J	21.75
	LL022024E		UNKNOWN (33.66)	4 J	33.66
<b>D113</b>					
	LL012191A		ANTHRAKENEDIONE (28.87)	10 J	28.87
	LL012191A		CAFFEINE (27.14)	45 J	27.14
	LL012191A		UNKNOWN (12.98)	150 J	12.98

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS	RETENTION & PREFIX	TIME
<b>D113</b>						
	LL012191A		UNKNOWN (15.00)	10 J	15.00	
	LL012191A		UNKNOWN (16.77)	50 J	16.77	
	LL012191A		UNKNOWN (17.68)	38 J	17.68	
	LL012191A		UNKNOWN (18.08)	9 J	18.08	
	LL012191A		UNKNOWN (20.23)	23 J	20.23	
	LL012191A		UNKNOWN (28.29)	17 J	28.29	
	LL012191A		UNKNOWN (28.53)	23 J	28.53	
	LL012191A		UNKNOWN (30.74)	16 J	30.74	
	LL012191A		UNKNOWN (30.84)	34 J	30.84	
	LL012191A		UNKNOWN (31.04)	190 J	31.04	
	LL012191A		UNKNOWN (33.70)	1400 J	33.70	
	LL012191A		UNKNOWN ACID (22.92)	38 J	22.92	
	LL012191A		UNKNOWN ACID (25.85)	27 J	25.85	
	LL012191A		UNKNOWN HYDROCARBON (24.96)	11 J	24.96	
	LL012191A		UNKNOWN HYDROCARBON (25.06)	6 J	25.06	
	LL012191A		UNKNOWN HYDROCARBON (26.39)	11 J	26.39	
	LL012679A		UNKNOWN (12.37)	9 J	12.37	
	LL012691A		UNKNOWN (33.68)	10 J	33.68	
<b>LL001018</b>						
	LL001018B		ALKYL HYDROCARBON (34.08)	840 J	34.08	
	LL001018B		AROMATIC HYDROCARBON (18.31)	700 J	18.31	
	LL001018B		AROMATIC HYDROCARBON (21.13)	3100 J	21.13	
	LL001018B		PROBABLE CYCLIC ALKENE (18.69)	850 J	18.69	
	LL001018B		PROBABLE CYCLIC ALKENE (18.84)	9200 J	18.84	
	LL001018B		PROBABLE HYDROCARBON ( 6.94)	1300 J	6.94	
	LL001018B		PROBABLE HYDROCARBON ( 8.45)	1100 J	8.45	
	LL001018B		PROBABLE HYDROCARBON (10.22)	750 J	10.22	
	LL001018B		PROBABLE HYDROCARBON (19.17)	1800 J	19.17	
	LL001018B		UNKNOWN ( 5.42)	1400 J	5.42	
	LL001018B		UNKNOWN ( 5.70)	2900 J	5.70	
	LL001018B		UNKNOWN ( 6.67)	1200 J	6.67	
	LL001018B		UNKNOWN ( 8.10)	1700 J	8.10	
	LL001018B		UNKNOWN (10.85)	2600 J	10.85	
	LL001018B		UNKNOWN (20.74)	720 J	20.74	
	LL001018B		UNKNOWN (35.15)	750 J	35.15	
	LL001018B		UNKNOWN (35.24)	870 J	35.24	
	LL001018B	123422	DIACETONE ALCOHOL ( 6.22)	33000 J	6.22	
	LL001029B		ALKYL HYDROCARBON ( 6.92)	32 J	6.92	
	LL001029B		ALKYL HYDROCARBON (34.10)	210 J	34.10	
	LL001029B		PROBABLE CYCLIC ALKENE ( 8.43)	16 J	8.43	
	LL001029B		PROBABLE CYCLIC ALKENE (18.84)	1200 J	18.84	
	LL001029B		PROBABLE HYDROCARBON ( 5.87)	11 J	5.87	
	LL001029B		PROBABLE HYDROCARBON (19.18)	260 J	19.18	
	LL001029B		PROBABLE HYDROCARBON (21.26)	150 J	21.26	
	LL001029B		PROBABLE HYDROCARBON (37.52)	210 J	37.52	

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
LL001018					
LL001029B			UNKNOWN ( 5.39)	20 J	5.39
LL001029B			UNKNOWN ( 5.74)	66 J	5.74
LL001029B			UNKNOWN ( 6.65)	25 J	6.65
LL001029B			UNKNOWN ( 8.11)	36 J	8.11
LL001029B			UNKNOWN (20.75)	150 J	20.75
LL001029B			UNKNOWN (21.15)	760 J	21.15
LL001029B			UNKNOWN (41.48)	170 J	41.48
LL001029B			UNKNOWN ALKOXY COMPOUND(27.75)	220 J	27.75
LL001029B	123422		AROMATIC HYDROCARBON (18.32)	100 J	18.32
LL001029B	123422		DIACETONE ALCOHOL ( 6.40)	1400 J	6.40
LL001029B	470826		CINEOLE (10.85)	34 J	10.85
LL001029B	544638		TETRADECANOIC ACID(9CI)(26.25)	200 J	26.25
LL001030B			ALKYL HYDROCARBON ( 6.73)	1000 J	6.73
LL001030B			ALKYL HYDROCARBON ( 6.91)	1700 J	6.91
LL001030B			AROMATIC HYDROCARBON (10.23)	1300 J	10.23
LL001030B			AROMATIC HYDROCARBON (21.14)	1200 J	21.14
LL001030B			CARBOXYLIC ACID (26.26)	840 J	26.26
LL001030B			CYCLIC HYDROCARBON (24.15)	440 J	24.15
LL001030B			PROBABLE CYCLIC ALKENE ( 8.44)	580 J	8.44
LL001030B			PROBABLE CYCLIC ALKENE (18.72)	500 J	18.72
LL001030B			PROBABLE CYCLIC ALKENE (18.85)	3900 J	18.85
LL001030B			PROBABLE HYDROCARBON ( 5.87)	620 J	5.87
LL001030B			PROBABLE HYDROCARBON (19.18)	490 J	19.18
LL001030B			UNKNOWN ( 5.52)	2200 J	5.52
LL001030B			UNKNOWN ( 8.10)	1200 J	8.10
LL001030B			UNKNOWN (26.76)	490 J	26.76
LL001030B			UNKNOWN (35.26)	530 J	35.26
LL001030B			UNKNOWN ALKOXY COMPOUND( 6.63)	860 J	6.63
LL001030B			UNKNOWN ALKOXY COMPOUND(27.75)	420 J	27.75
LL001030B	123422		DIACETONE ALCOHOL ( 6.21)	22000 J	6.21
LL001030B	470826		CINEOLE (VAN) (10.85)	840 J	10.85
LL002019B			ALKYL HYDROCARBON ( 5.87)	440 J	5.87
LL002019B			ALKYL HYDROCARBON ( 6.71)	910 J	6.71
LL002019B			ALKYL HYDROCARBON ( 6.92)	1300 J	6.92
LL002019B			UNKNOWN ( 5.52)	820 J	5.52
LL002019B			UNKNOWN ( 5.74)	2100 J	5.74
LL002019B			UNKNOWN ( 8.10)	900 J	8.10
LL002019B			UNKNOWN (11.32)	340 J	11.32
LL002019B			UNKNOWN ALKOXY COMPOUND 6.66)	580 J	6.66
LL002019B			UNKNOWN ALKOXY COMPOUND(28.36)	160 J	28.36
LL002019B	123422		DIACETONE ALCOHOL ( 6.38)	30000 J	6.38
LL002020B	123422		DIACETONE ALCOHOL ( 6.36)	1400 J	6.36
LL002031B			ALKYL HYDROCARBON ( 5.88)	450 J	5.88
LL002031B			ALKYL HYDROCARBON ( 6.72)	850 J	6.72
LL002031B			ALKYL HYDROCARBON ( 6.93)	1300 J	6.93
LL002031B			ALKYL HYDROCARBON (14.49)	1400 J	14.49
LL002031B			CARBOXYLIC ACID (26.23)	150 J	26.23

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL001018</b>					
LL002031B			PROBABLE CYCLIC ALKENE (18.80)	180 J	18.80
LL002031B			UNKNOWN ( 5.51)	930 J	5.51
LL002031B			UNKNOWN ( 5.74)	2100 J	5.74
LL002031B			UNKNOWN ( 8.09)	1000 J	8.09
LL002031B			UNKNOWN (19.82)	770 J	19.82
LL002031B			UNKNOWN (22.38)	540 J	22.38
LL002031B			UNKNOWN (24.59)	340 J	24.59
LL002031B			UNKNOWN (26.57)	280 J	26.57
LL002031B			UNKNOWN ALKOXY COMPOUND (6.65)	670 J	6.65
LL002031B	123422		DIACETONE ALCOHOL ( 6.34)	29000 J	6.34
LL002031B	540976		CYCLOHEXASILOXANE, DODE(16.95)	780 J	16.95
LL002031B	541026		CYCLOPENTASILOXANE, DEC(13.70)	130 J	13.70
LL011010B			POSSIBLE KETONE ( 6.64)	890 J	6.64
LL011010B			PROBABLE ALIPHATIC HYDR (6.79)	260 J	6.79
LL011010B			PROBABLE ALIPHATIC HYDR (6.99)	410 J	6.99
LL011010B			UNKNOWN ( 5.64)	1800 J	5.64
LL011010B			UNKNOWN ( 8.15)	240 J	8.15
LL011010B			UNKNOWN ( 9.04)	200 J	9.04
LL011010B	123422		DIACETONE ALCOHOL ( 6.43)	29000 J	6.43
LL013012B			ALIPHATIC HYDROCARBON ( 4.88)	790 J	4.88
LL013012B			ARYL HYDROCARBON ( 8.22)	220 J	8.22
LL013012B			POSSIBLE AMIDE/AMINE ( 7.91)	340 J	7.91
LL013012B			PROBABLE ALIPHATIC HYDR (3.39)	250 J	3.39
LL013012B			UNKNOWN ( 5.65)	1200 J	5.65
LL013012B			UNKNOWN ( 6.61)	120 J	6.61
LL013012B			UNKNOWN ( 6.85)	160 J	6.85
LL013012B			UNKNOWN ( 7.07)	360 J	7.07
LL013012B			UNKNOWN ( 7.13)	260 J	7.13
LL013012B			UNKNOWN ( 7.97)	130 J	7.97
LL013012B			UNKNOWN ( 8.94)	400 J	8.94
LL013012B			UNKNOWN (10.42)	82 J	10.42
LL013012B	123422		DIACETONE ALCOHOL ( 6.35)	23000 J	6.35
LL013023B			ARYL HYDROCARBON ( 8.22)	550 J	8.22
LL013023B			POSSIBLE ALCOHOL ( 7.73)	140 J	7.73
LL013023B			POSSIBLE ALIPHATIC KETO (3.43)	420 J	3.43
LL013023B			POSSIBLE AMIDE/AMINE ( 6.85)	240 J	6.85
LL013023B			POSSIBLE AMIDE/AMINE ( 7.91)	800 J	7.91
LL013023B			PROBABLE ALIPHATIC HYDR (4.89)	1600 J	4.89
LL013023B			UNKNOWN ( 4.58)	190 J	4.58
LL013023B			UNKNOWN ( 5.82)	4300 J	5.82
LL013023B			UNKNOWN ( 7.07)	760 J	7.07
LL013023B			UNKNOWN ( 7.13)	670 J	7.13
LL013023B			UNKNOWN ( 8.92)	840 J	8.92
LL013023B			UNKNOWN (10.44)	280 J	10.44
LL013023B	123422		DIACETONE ALCOHOL ( 6.35)	28000 J	6.35
LL013034B			UNKNOWN ( 5.62)	2200 J	5.62
LL013034B			UNKNOWN (10.38)	250 J	10.38

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL001018</b>					
	LL013034B	123422	DIACETONE ALCOHOL ( 6.26)	17000 J	6.26
	LL029010B		UNKNOWN PHTHALATE ESTER(32.70)	2300 J	32.70
	LL029010B	123422	DIACETONE ALCOHOL ( 6.20)	15000 J	6.20
	LL029021B		ARYL HYDROCARBON ( 8.23)	350 J	8.23
	LL029021B		CARBOXYLIC ACID ESTER (31.17)	270 J	31.17
	LL029021B		CARBOXYLIC ACID ESTER (31.24)	1600 J	31.24
	LL029021B		PROBABLE ALIPHATIC HYDR (4.86)	1900 J	4.86
	LL029021B		UNKNOWN ( 8.08)	630 J	8.08
	LL029021B		UNKNOWN (27.88)	49 J	27.88
	LL029021B		UNKNOWN PHTHALATE ESTER(32.20)	87 J	32.20
	LL029021B		UNKNOWN PHTHALATE ESTER(32.26)	140 J	32.26
	LL029021B		UNKNOWN PHTHALATE ESTER(32.38)	42 J	32.38
	LL029021B		UNKNOWN PHTHALATE ESTER(32.91)	6000 J	32.91
	LL029021B	123422	DIACETONE ALCOHOL ( 6.30)	27000 J	6.30
	LL029032B		ARYL HYDROCARBON ( 8.26)	2200 J	8.26
	LL029032B		CARBOXYLIC ACID ESTER (31.23)	51000 J	31.23
	LL029032B		PROBABLE ALIPHATIC HYDR (4.91)	7800 J	4.91
	LL029032B		UNKNOWN ( 5.81)	1100 J	5.81
	LL029032B		UNKNOWN (35.31)	160 J	35.31
	LL029032B		UNKNOWN PHTHALATE ESTER(32.26)	2300 J	32.26
	LL029032B	123422	DIACETONE ALCOHOL ( 6.21)	120000 J	6.21
	LL030013B		CARBOXYLIC ACID ESTER (31.19)	790 J	31.19
	LL030013B		CARBOXYLIC ACID ESTER (31.29)	1500 J	31.29
	LL030013B		POSSIBLE ALIPHATIC KETO (5.63)	340 J	5.63
	LL030013B		PROBABLE ALIPHATIC HYDR (4.87)	330 J	4.87
	LL030013B		UNKNOWN ( 8.13)	270 J	8.13
	LL030013B		UNKNOWN PHTHALATE ESTER(28.13)	300 J	28.13
	LL030013B		UNKNOWN PHTHALATE ESTER(32.25)	270 J	32.25
	LL030013B		UNKNOWN PHTHALATE ESTER(32.99)	22000 J	32.99
	LL030013B		UNKNOWN PHTHALATE ESTER(33.23)	4500 J	33.23
	LL030013B	123422	DIACETONE ALCOHOL ( 6.35)	15000 J	6.35
	LL030024B	123422	DIACETONE ALCOHOL ( 6.20)	15000 J	6.20
	LL030035B		UNKNOWN PHTHALATE (32.97)	1600 J	32.97
	LL030035B	123422	DIACETONE ALCOHOL ( 6.40)	1600 J	6.40
	LL030046B		PROBABLE ALIPHATIC HYDR (4.86)	350 J	4.86
	LL030046B		UNKNOWN PHTHALATE ESTER(32.35)	32 J	32.35
	LL030046B		UNKNOWN PHTHALATE ESTER(32.93)	180 J	32.93
	LL030046B	123422	DIACETONE ALCOHOL ( 6.15)	1800 J	6.15
	LL032015B		ARYL HYDROCARBON ( 8.20)	190 J	8.20
	LL032015B		POSSIBLE ALIPHATIC KETO( 6.58)	580 J	6.58
	LL032015B		POSSIBLE AMIDE/AMINE ( 7.88)	160 J	7.88
	LL032015B		PROBABLE ALIPHATIC HYDR( 4.89)	360 J	4.89
	LL032015B		PROBABLE ALIPHATIC HYDR( 6.92)	140 J	6.92
	LL032015B		UNKNOWN ( 5.61)	1900 J	5.61
	LL032015B		UNKNOWN ( 7.04)	180 J	7.04
	LL032015B		UNKNOWN ( 7.08)	110 J	7.08
	LL032015B		UNKNOWN ( 8.91)	180 J	8.91

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL001018</b>					
LL032015B			UNKNOWN ( 8.96)	220 J	8.96
LL032015B			UNKNOWN ( 9.10)	310 J	9.10
LL032015B	123422		DIACETONE ALCOHOL ( 6.29)	21000 J	6.29
LL032026B			ARYL HYDROCARBON ( 8.21)	170 J	8.21
LL032026B			POSSIBLE ALIPHATIC KETO (6.57)	400 J	6.57
LL032026B			PROBABLE ALIPHATIC HYDR (4.88)	170 J	4.88
LL032026B			UNKNOWN ( 5.48)	1500 J	5.48
LL032026B			UNKNOWN (36.92)	66 J	36.92
LL032026B	123422		DIACETONE ALCOHOL ( 6.23)	19000 J	6.23
LL032037B			POSSIBLE ALIPHATIC KETO (6.57)	640 J	6.57
LL032037B			POSSIBLE AMIDE/AMINE ( 7.87)	190 J	7.87
LL032037B			PROBABLE ALIPHATIC HYDR (4.88)	670 J	4.88
LL032037B			PROBABLE ALIPHATIC HYDR (6.72)	170 J	6.72
LL032037B			PROBABLE ALIPHATIC HYDR (6.91)	250 J	6.91
LL032037B			UNKNOWN ( 5.62)	2100 J	5.62
LL032037B			UNKNOWN ( 7.03)	220 J	7.03
LL032037B			UNKNOWN ( 8.91)	190 J	8.91
LL032037B			UNKNOWN ( 8.97)	290 J	8.97
LL032037B	123422		DIACETONE ALCOHOL ( 6.35)	29000 J	6.35
LL032071B			PHTHALATE ESTER (28.11)	39 J	28.11
LL032071B			PHTHALATE ESTER (32.63)	83 J	32.63
LL032071B			PROBABLE HYDROCARBON ( 6.76)	260 J	6.76
LL032071B			PROBABLE HYDROCARBON FR(36.00)	460000 J	36.00
LL032071B			UNKNOWN ( 4.89)	360 J	4.89
LL032071B			UNKNOWN ( 5.56)	1600 J	5.56
LL032071B			UNKNOWN ( 6.60)	600 J	6.60
LL032071B			UNKNOWN ( 6.96)	390 J	6.96
LL032071B			UNKNOWN ( 7.13)	150 J	7.13
LL032071B			UNKNOWN ( 8.12)	170 J	8.12
LL032071B			UNKNOWN ( 8.96)	250 J	8.96
LL032071B	123422		ARYL HYDROCARBON(MWI20)( 8.25)	170 J	8.25
LL032071B	123422		DIACETONE ALCOHOL ( 6.32)	23000 J	6.32
LL032082B			POSSIBLE AMIDE/AMINE ( 9.12)	350 J	9.12
LL032082B			POSSIBLE KETONE ( 6.57)	450 J	6.57
LL032082B			PROBABLE ALIPHATIC HYDR (4.87)	170 J	4.87
LL032082B			PROBABLE ALIPHATIC HYDR (6.72)	180 J	6.72
LL032082B			PROBABLE ALIPHATIC HYDR (6.91)	260 J	6.91
LL032082B			PROBABLE HYDROCARBON FR(36.00)	640000 J	36.00
LL032082B			UNKNOWN ( 5.47)	410 J	5.47
LL032082B	123422		DIACETONE ALCOHOL ( 6.26)	20000 J	6.26
LL032093B			CARBOXYLIC ACID (26.32)	200 J	26.32
LL032093B			PHTHALATE ESTER (32.86)	710 J	32.86
LL032093B			PROBABLE HYDROCARBON ( 6.74)	290 J	6.74
LL032093B			PROBABLE HYDROCARBON ( 6.95)	450 J	6.95
LL032093B			PROBABLE HYDROCARBON (36.00)	500000 J	36.00
LL032093B			UNKNOWN ( 5.50)	1200 J	5.50
LL032093B			UNKNOWN ( 6.58)	660 J	6.58

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
LL001018					
LL032093B			UNKNOWN ( 9.11)	780 J	9.11
LL032093B			UNKNOWN (29.75)	29 J	29.75
LL032093B			UNKNOWN (29.82)	99 J	29.82
LL032093B	123422		DIACETONE ALCOHOL ( 6.30)	21000 J	6.30
LL032106B			PHTHALATE ESTER (32.62)	74 J	32.62
LL032106B			PROBABLE HYDROCARBON ( 6.98)	210 J	6.98
LL032106B			PROBABLE HYDROCARBON (15.94)	180 J	15.94
LL032106B			PROBABLE HYDROCARBON (18.18)	190 J	18.18
LL032106B			PROBABLE HYDROCARBON (19.21)	500 J	19.21
LL032106B			PROBABLE HYDROCARBON (19.82)	340 J	19.82
LL032106B			PROBABLE HYDROCARBON (22.81)	280 J	22.81
LL032106B			PROBABLE HYDROCARBON (22.90)	800 J	22.90
LL032106B			PROBABLE HYDROCARBON (24.33)	370 J	24.33
LL032106B			PROBABLE HYDROCARBON FR(22.00)	50000 J	22.00
LL032106B			PROBABLE HYDROCARBON FR(37.00)	120000 J	37.00
LL032106B			UNKNOWN ( 5.49)	240 J	5.49
LL032106B			UNKNOWN ( 5.54)	1200 J	5.54
LL032106B			UNKNOWN ( 6.63)	670 J	6.63
LL032106B			UNKNOWN ( 8.16)	250 J	8.16
LL032106B			UNKNOWN ( 9.16)	270 J	9.16
LL032106B			UNKNOWN (23.52)	260 J	23.52
LL032106B			UNKNOWN (25.89)	300 J	25.89
LL032106B	123422		DIACETONE ALCOHOL ( 6.39)	22000 J	6.39
LL032106B	7704349		SULFUR (27.19)	180 J	27.19
LL032117B			PHTHALATE ESTER (32.57)	46 J	32.57
LL032117B			PROBABLE HYDROCARBON (18.15)	210 J	18.15
LL032117B			PROBABLE HYDROCARBON (19.17)	580 J	19.17
LL032117B			PROBABLE HYDROCARBON (19.79)	490 J	19.79
LL032117B			PROBABLE HYDROCARBON (21.32)	300 J	21.32
LL032117B			PROBABLE HYDROCARBON (22.40)	360 J	22.40
LL032117B			PROBABLE HYDROCARBON (22.78)	520 J	22.78
LL032117B			PROBABLE HYDROCARBON (22.87)	1400 J	22.87
LL032117B			PROBABLE HYDROCARBON (23.25)	290 J	23.25
LL032117B			PROBABLE HYDROCARBON (24.29)	640 J	24.29
LL032117B			PROBABLE HYDROCARBON (32.22)	58 J	32.22
LL032117B			PROBABLE HYDROCARBON FR(22.00)	50000 J	22.00
LL032117B			PROBABLE HYDROCARBON FR(37.00)	180000 J	37.00
LL032117B			UNKNOWN ( 5.48)	250 J	5.48
LL032117B			UNKNOWN ( 5.59)	1500 J	5.59
LL032117B			UNKNOWN ( 6.62)	800 J	6.62
LL032117B			UNKNOWN ( 8.13)	350 J	8.13
LL032117B			UNKNOWN ( 8.99)	220 J	8.99
LL032117B			UNKNOWN ( 9.13)	390 J	9.13
LL032117B	123422		DIACETONE ALCOHOL ( 6.32)	20000 J	6.32
LL032128B			PROBABLE HYDROCARBON FR(22.00)	4700 J	22.00
LL032128B			PROBABLE HYDROCARBON FR(38.00)	14000 J	38.00
LL032128B	123422		DIACETONE ALCOHOL ( 6.28)	1400 J	6.28

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL001018</b>					
LL032139B			PHTHALATE ESTER (32.27)	34 J	32.27
LL032139B			PROBABLE HYDROCARBON (28.19)	10 J	28.19
LL032139B			PROBABLE HYDROCARBON FR(38.00)	65000 J	38.00
LL032139B	67685		DIMETHYLSULFOXIDE ( 6.00)	5400 J	6.00
LL032139B	67710		SULFONYLBISMETHANE ( 9.12)	400 J	9.12
LL032140B			PHTHALATE ESTER (28.09)	19 J	28.09
LL032140B			PHTHALATE ESTER (32.26)	22 J	32.26
LL032140B			UNKNOWN (35.64)	19 J	35.64
LL032140B			UNKNOWN (36.48)	35 J	36.48
LL032140B			UNKNOWN (39.46)	18 J	39.46
LL032140B			UNKNOWN (39.83)	22 J	39.83
LL032140B			UNKNOWN (43.22)	19 J	43.22
LL032140B			UNKNOWN (44.06)	35 J	44.06
LL032140B			UNKNOWN (47.02)	18 J	47.02
LL032140B			UNKNOWN (47.39)	22 J	47.39
LL032140B	67685		DIMETHYL SULFOXIDE ( 5.95)	7800 J	5.95
LL032140B	67710		SULFONYLBISMETHANE ( 9.03)	1700 J	9.03
LL032151B			PHTHALATE ESTER (28.09)	9 J	28.09
LL032151B			PHTHALATE ESTER (32.24)	53 J	32.24
LL032151B			PHTHALATE ESTER (32.40)	10 J	32.40
LL032151B			PROBABLE HYDROCARBON (28.16)	21 J	28.16
LL032151B			PROBABLE HYDROCARBON FR(38.00)	40000 J	38.00
LL032151B			UNKNOWN ( 5.43)	470 J	5.43
LL032151B	123795		DIOCTYL ADIPATE (31.19)	13 J	31.19
LL032151B	67685		DIMETHYL SULFOXIDE ( 6.15)	14000 J	6.15
LL032151B	67710		SULFONYLBISMETHANE ( 8.67)	1600 J	8.67
LL036019B			ARYL HYDROCARBON ( 8.26)	610 J	8.26
LL036019B			POSSIBLE AMIDE/AMINE ( 7.96)	740 J	7.96
LL036019B			PROBABLE ALIPHATIC HYDR (4.91)	1800 J	4.91
LL036019B			UNKNOWN ( 3.42)	510 J	3.42
LL036019B			UNKNOWN ( 5.72)	4800 J	5.72
LL036019B			UNKNOWN ( 6.90)	330 J	6.90
LL036019B			UNKNOWN ( 7.12)	830 J	7.12
LL036019B			UNKNOWN ( 7.18)	510 J	7.18
LL036019B			UNKNOWN ( 7.79)	130 J	7.79
LL036019B			UNKNOWN ( 8.00)	330 J	8.00
LL036019B			UNKNOWN ( 8.99)	810 J	8.99
LL036019B			UNKNOWN (10.47)	240 J	10.47
LL036019B	123422		DIACETONE ALCOHOL ( 6.29)	24000 J	6.29
LL036020B			ARYL HYDROCARBON ( 8.26)	230 J	8.26
LL036020B			POSSIBLE AMIDE/AMINE ( 7.95)	330 J	7.95
LL036020B			PROBABLE ALIPHATIC HYDR (4.91)	860 J	4.91
LL036020B			UNKNOWN ( 3.41)	300 J	3.41
LL036020B			UNKNOWN ( 5.75)	2500 J	5.75
LL036020B			UNKNOWN ( 7.11)	350 J	7.11
LL036020B			UNKNOWN ( 7.16)	210 J	7.16
LL036020B			UNKNOWN ( 8.98)	330 J	8.98

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	COMPOUND ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL001018</b>					
	LL036020B	123422	DIACETONE ALCOHOL ( 6.44)	27000 J	6.44
	LL036031B		ARYL HYDROCARBON ( 8.23)	220 J	8.23
	LL036031B		POSSIBLE ALIPHATIC KETO (3.42)	190 J	3.42
	LL036031B		POSSIBLE ALIPHATIC KETO (5.52)	200 J	5.52
	LL036031B		POSSIBLE AMIDE/AMINE ( 7.91)	280 J	7.91
	LL036031B		PROBABLE ALIPHATIC HYDRO(4.89)	630 J	4.89
	LL036031B		UNKNOWN ( 5.61)	460 J	5.61
	LL036031B		UNKNOWN ( 5.68)	780 J	5.68
	LL036031B		UNKNOWN ( 6.86)	130 J	6.86
	LL036031B		UNKNOWN ( 7.08)	310 J	7.08
	LL036031B		UNKNOWN ( 7.14)	170 J	7.14
	LL036031B		UNKNOWN ( 7.97)	180 J	7.97
	LL036031B		UNKNOWN ( 8.94)	340 J	8.94
	LL036031B		UNKNOWN (10.42)	110 J	10.42
	LL036031B	123422	DIACETONE ALCOHOL ( 6.36)	20000 J	6.36
<b>LL001018B</b>					
	LL011021B		PHTHALATE ESTER (32.19)	85 J	32.19
	LL011021B		PHTHALATE ESTER (32.43)	11 J	32.43
	LL011021B		PHTHALATE ESTER (32.53)	11 J	32.53
	LL011021B		PROBABLE HYDROCARBON ( 6.70)	280 J	6.70
	LL011021B		PROBABLE HYDROCARBON ( 6.91)	510 J	6.91
	LL011021B		PROBABLE HYDROCARBON (18.77)	180 J	18.77
	LL011021B		PROBABLE HYDROCARBON (28.68)	18 J	28.68
	LL011021B		PROBABLE SILOXANE (36.62)	12 J	36.62
	LL011021B		PROBABLE SILOXANE (37.70)	15 J	37.70
	LL011021B		PROBABLE SILOXANE (38.90)	13 J	38.90
	LL011021B		PROBABLE SILOXANE (40.36)	10 J	40.36
	LL011021B		PROBABLE SILOXANE (42.17)	10 J	42.17
	LL011021B		PROBABLE SILOXANE (44.48)	9 J	44.48
	LL011021B		UNKNOWN ( 5.45)	1500 J	5.45
	LL011021B		UNKNOWN ( 6.57)	800 J	6.57
	LL011021B		UNKNOWN ( 8.07)	190 J	8.07
	LL011021B	123422	DIACETONE ALCOHOL ( 6.26)	23000 J	6.26
	LL011032B		PROBABLE HYDROCARBON (28.70)	410 J	28.70
	LL011032B		UNKNOWN ( 5.55)	1600 J	5.55
	LL011032B		UNKNOWN ( 5.92)	120 J	5.92
	LL011032B		UNKNOWN ( 6.60)	1100 J	6.60
	LL011032B		UNKNOWN ( 6.85)	3100 J	6.85
	LL011032B		UNKNOWN ( 8.08)	360 J	8.08
	LL011032B		UNKNOWN ( 8.97)	290 J	8.97
	LL011032B		UNKNOWN SILOXANE ( 5.77)	310 J	5.77
	LL011032B		UNKNOWN SILOXANE (13.67)	89 J	13.67
	LL011032B	123422	DIACETONE ALCOHOL ( 6.23)	17000 J	6.23
	SN007015B		PHTHALATE ESTER (32.05)	39 J	32.05
	SN007015B		PROBABLE HYDROCARBON ( 6.72)	320 J	6.72

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL001018B</b>					
SN007015B			PROBABLE HYDROCARBON ( 6.93)	470 J	6.93
SN007015B			UNKNOWN ( 5.60)	2000 J	5.60
SN007015B			UNKNOWN ( 6.60)	650 J	6.60
SN007015B			UNKNOWN ( 8.07)	180 J	8.07
SN007015B			UNKNOWN ( 8.97)	220 J	8.97
SN007015B			UNKNOWN ( 9.07)	550 J	9.07
SN007015B			UNKNOWN (31.20)	48 J	31.20
SN007015B			UNKNOWN SILOXANE ( 5.75)	180 J	5.75
SN007015B	123422		DIACETONE ALCOHOL ( 6.18)	13000 J	6.18
SN007015B	123795		DIOCTYL ADIPATE (31.05)	1600 J	31.05
SN007026B			PHTHALATE ESTER (32.07)	13 J	32.07
SN007026B			PROBABLE HYDROCARBON ( 6.49)	140 J	6.49
SN007026B			PROBABLE HYDROCARBON ( 6.73)	430 J	6.73
SN007026B			PROBABLE HYDROCARBON ( 6.93)	660 J	6.93
SN007026B			PROBABLE HYDROCARBON (31.21)	21 J	31.21
SN007026B			PROBABLE HYDROCARBON (31.49)	14 J	31.49
SN007026B			UNKNOWN ( 5.53)	1000 J	5.53
SN007026B			UNKNOWN ( 5.90)	110 J	5.90
SN007026B			UNKNOWN ( 6.61)	710 J	6.61
SN007026B			UNKNOWN ( 7.36)	92 J	7.36
SN007026B			UNKNOWN ( 8.08)	310 J	8.08
SN007026B			UNKNOWN ( 8.96)	260 J	8.96
SN007026B			UNKNOWN ( 9.09)	170 J	9.09
SN007026B			UNKNOWN SILOXANE ( 5.76)	98 J	5.76
SN007026B	123422		DIACETONE ALCOHOL ( 6.26)	16000 J	6.26
SN007026B	123795		DIOCTYL ADIPATE (31.07)	1600 J	31.07
SN007037B			PHTHALATE ESTER (32.06)	18 J	32.06
SN007037B			PROBABLE HYDROCARBON ( 6.49)	180 J	6.49
SN007037B			PROBABLE HYDROCARBON ( 6.72)	530 J	6.72
SN007037B			PROBABLE HYDROCARBON ( 6.93)	790 J	6.93
SN007037B			UNKNOWN ( 5.62)	2200 J	5.62
SN007037B			UNKNOWN ( 5.90)	150 J	5.90
SN007037B			UNKNOWN ( 6.62)	710 J	6.62
SN007037B			UNKNOWN ( 8.08)	330 J	8.08
SN007037B			UNKNOWN ( 8.97)	240 J	8.97
SN007037B			UNKNOWN ( 9.08)	340 J	9.08
SN007037B	123422		DIACETONE ALCOHOL ( 6.18)	11000 J	6.18
SN007037B	123795		DIOCTYL ADIPATE (31.07)	1600 J	31.07
SN007048B			PROBABLE HYDROCARBON ( 6.87)	160 J	6.87
SN007048B			UNKNOWN ( 5.42)	730 J	5.42
SN007048B			UNKNOWN ( 6.56)	310 J	6.56
SN007048B			UNKNOWN ( 9.00)	130 J	9.00
SN007048B			UNKNOWN SILOXANE ( 5.70)	110 J	5.70
SN007048B	122349		1,3,5-TRIAZINE-2,4-DIAM(23.36)	1300 J	23.36
SN007048B	123422		DIACETONE ALCOHOL ( 6.23)	14000 J	6.23
SN007048B	123795		DIOCTYL ADIPATE (31.07)	1400 J	31.07
SN007059B			PHTHALATE ESTER (32.52)	25 J	32.52

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS	RETENTION & PREFIX	TIME
LL001018B						
SN007059B			PROBABLE HYDROCARBON ( 5.91)	440	J	5.91
SN007059B			PROBABLE HYDROCARBON ( 6.73)	970	J	6.73
SN007059B			PROBABLE HYDROCARBON ( 6.94)	1400	J	6.94
SN007059B			UNKNOWN ( 5.61)	2000	J	5.61
SN007059B			UNKNOWN ( 6.49)	630	J	6.49
SN007059B			UNKNOWN ( 6.61)	870	J	6.61
SN007059B			UNKNOWN ( 8.07)	210	J	8.07
SN007059B	122349		1,3,5-TRIAZINE-2,4-DIAM(23.31)	360	J	23.31
SN007059B	123422		DIACETONE ALCOHOL ( 6.10)	27000	J	6.10
SN007059B	123795		DIOCTYL ADIPATE (31.06)	1400	J	31.06
SN007060B			PROBABLE HYDROCARBON ( 5.90)	380	J	5.90
SN007060B			PROBABLE HYDROCARBON ( 6.49)	600	J	6.49
SN007060B			PROBABLE HYDROCARBON ( 6.73)	900	J	6.73
SN007060B			PROBABLE HYDROCARBON ( 6.93)	1300	J	6.93
SN007060B			UNKNOWN ( 5.46)	220	J	5.46
SN007060B			UNKNOWN ( 5.54)	280	J	5.54
SN007060B			UNKNOWN ( 6.61)	720	J	6.61
SN007060B			UNKNOWN ( 8.08)	300	J	8.08
SN007060B			UNKNOWN (10.08)	200	J	10.08
SN007060B			UNKNOWN SILOXANE ( 5.76)	130	J	5.76
SN007060B	122349		1,3,5-TRIAZINE-2,4-DIAM(23.31)	1200	J	23.31
SN007060B	123422		DIACETONE ALCOHOL ( 6.27)	22000	J	6.27
SN007060B	123795		DIOCTYL ADIPATE (31.06)	1400	J	31.06
SN008016B			PHTHALATE ESTER (32.21)	190	J	32.21
SN008016B			PHTHALATE ESTER (32.58)	86	J	32.58
SN008016B			PROBABLE HYDROCARBON ( 6.74)	490	J	6.74
SN008016B			PROBABLE HYDROCARBON ( 6.93)	830	J	6.93
SN008016B			PROBABLE HYDROCARBON (28.20)	67	J	28.20
SN008016B			UNKNOWN ( 5.51)	1900	J	5.51
SN008016B			UNKNOWN ( 6.59)	1100	J	6.59
SN008016B			UNKNOWN ( 8.08)	370	J	8.08
SN008016B			UNKNOWN ( 8.08)	370	J	8.08
SN008016B			UNKNOWN ( 8.96)	390	J	8.96
SN008016B			UNKNOWN ( 9.08)	850	J	9.08
SN008016B			UNKNOWN (23.36)	270	J	23.36
SN008016B			UNKNOWN SILOXANE ( 5.76)	170	J	5.76
SN008016B	123422		DIACETONE ALCOHOL ( 6.31)	27000	J	6.31
SN008016B	123795		DIOCTYL ADIPATE (31.20)	1500	J	31.20
SN008027B			PROBABLE HYDROCARBON ( 6.74)	310	J	6.74
SN008027B			PROBABLE HYDROCARBON ( 6.94)	550	J	6.94
SN008027B			UNKNOWN ( 5.59)	2200	J	5.59
SN008027B			UNKNOWN ( 6.60)	1000	J	6.60
SN008027B			UNKNOWN ( 8.09)	400	J	8.09
SN008027B			UNKNOWN ( 8.97)	680	J	8.97
SN008027B			UNKNOWN SILOXANE ( 5.78)	190	J	5.78
SN008027B	123422		DIACETONE ALCOHOL ( 6.31)	22000	J	6.31
SN008027B	123795		DIOCTYL ADIPATE (31.19)	1500	J	31.19

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL001018B</b>					
SN008038B			PROBABLE HYDROCARBON ( 6.51)	160 J	6.51
SN008038B			PROBABLE HYDROCARBON ( 6.75)	790 J	6.75
SN008038B			PROBABLE HYDROCARBON ( 6.95)	1400 J	6.95
SN008038B			PROBABLE HYDROCARBON (25.06)	230 J	25.06
SN008038B			UNKNOWN ( 5.64)	3800 J	5.64
SN008038B			UNKNOWN ( 5.92)	160 J	5.92
SN008038B			UNKNOWN ( 6.63)	1300 J	6.63
SN008038B			UNKNOWN ( 8.11)	640 J	8.11
SN008038B			UNKNOWN ( 8.98)	520 J	8.98
SN008038B			UNKNOWN (23.64)	160 J	23.64
SN008038B			UNKNOWN (31.51)	23 J	31.51
SN008038B			UNKNOWN SILOXANE ( 5.77)	180 J	5.77
SN008038B	122349		1,3,5-TRIAZINE-2,4-DIAM(23.36)	670 J	23.36
SN008038B	123422		DIACETONE ALCOHOL ( 6.26)	19000 J	6.26
SN008038B	123795		DIOCTYL ADIPATE (31.22)	1600 J	31.22
SN009017B			PROBABLE HYDROCARBON ( 5.90)	300 J	5.90
SN009017B			PROBABLE HYDROCARBON ( 6.74)	860 J	6.74
SN009017B			PROBABLE HYDROCARBON ( 6.93)	1300 J	6.93
SN009017B			UNKNOWN ( 5.57)	840 J	5.57
SN009017B			UNKNOWN ( 5.74)	1800 J	5.74
SN009017B			UNKNOWN ( 6.65)	720 J	6.65
SN009017B			UNKNOWN ( 8.10)	400 J	8.10
SN009017B			UNKNOWN ( 9.01)	120 J	9.01
SN009017B	123422		DIACETONE ALCOHOL ( 6.21)	9900 J	6.21
SN009017B	123795		DIOCTYL ADIPATE (31.09)	1500 J	31.09
SN009028B			UNKNOWN ( 5.54)	960 J	5.54
SN009028B			UNKNOWN ( 5.62)	1500 J	5.62
SN009028B			UNKNOWN (35.12)	1500 J	35.12
SN009028B			UNKNOWN SILOXANE (22.23)	1000 J	22.23
SN009028B			UNKNOWN SILOXANE (24.48)	700 J	24.48
SN009028B			UNKNOWN SILOXANE (28.23)	76 J	28.23
SN009028B			UNKNOWN SILOXANE (29.85)	72 J	29.85
SN009028B			UNKNOWN SILOXANE (32.76)	74 J	32.76
SN009028B			UNKNOWN SILOXANE (34.09)	660 J	34.09
SN009028B			UNKNOWN SILOXANE (35.32)	610 J	35.32
SN009028B			UNKNOWN SILOXANE (36.47)	720 J	36.47
SN009028B			UNKNOWN SILOXANE (37.56)	760 J	37.56
SN009028B			UNKNOWN SILOXANE (38.72)	680 J	38.72
SN009028B			UNKNOWN SILOXANE (40.13)	700 J	40.13
SN009028B			UNKNOWN SILOXANE (41.88)	700 J	41.88
SN009028B			UNKNOWN SILOXANE (44.12)	630 J	44.12
SN009028B			UNKNOWN SILOXANE (46.98)	590 J	46.98
SN009028B	123422		DIACETONE ALCOHOL ( 6.33)	26000 J	6.33
SN009028B	123795		DIOCTYL ADIPATE (31.09)	1500 J	31.09
SN009039B			PROBABLE HYDROCARBON ( 6.77)	280 J	6.77
SN009039B			PROBABLE HYDROCARBON ( 6.96)	450 J	6.96
SN009039B			UNKNOWN ( 5.67)	1800 J	5.67

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL001018B</b>					
			UNKNOWN ( 5.71)	690 J	5.71
			UNKNOWN ( 5.74)	1100 J	5.74
			UNKNOWN ( 6.70)	1100 J	6.70
			UNKNOWN ( 8.14)	590 J	8.14
			UNKNOWN SILOXANE (36.34)	17 J	36.34
			UNKNOWN SILOXANE (41.23)	10 J	41.23
			UNKNOWN SILOXANE (47.53)	68 J	47.53
	SN009039B	123422	DIACETONE ALCOHOL ( 6.23)	14000 J	6.23
	SN009039B	123795	DIOCTYL ADIPATE (31.12)	1500 J	31.12
			UNKNOWN ( 5.70)	2600 J	5.70
	SN009040B		UNKNOWN ( 6.67)	1100 J	6.67
	SN009040B		UNKNOWN ( 8.13)	480 J	8.13
	SN009040B		UNKNOWN SILOXANE ( 5.77)	240 J	5.77
	SN009040B		UNKNOWN SILOXANE (41.59)	23 J	41.59
	SN009040B	123422	DIACETONE ALCOHOL ( 6.20)	22000 J	6.20
	SN009040B	123795	DIOCTYL ADIPATE (31.14)	1600 J	31.14
	SN010010B		PROBABLE HYDROCARBON ( 6.71)	180 J	6.71
	SN010010B		PROBABLE HYDROCARBON ( 6.92)	260 J	6.92
	SN010010B		UNKNOWN ( 5.50)	2200 J	5.50
	SN010010B		UNKNOWN ( 6.58)	780 J	6.58
	SN010010B		UNKNOWN ( 8.06)	400 J	8.06
	SN010010B		UNKNOWN ( 8.95)	570 J	8.95
	SN010010B		UNKNOWN (10.11)	180 J	10.11
	SN010010B	123422	DIACETONE ALCOHOL ( 6.25)	20000 J	6.25
	SN010010B	123795	DIOCTYL ADIPATE (31.18)	1400 J	31.18
	SN010010B	1912249	ATRAZINE (23.49)	360 J	6.25
	SN010021B		ALKOXY ARYL HYDROCARBON(16.07)	1500 J	16.07
	SN010021B		PROBABLE HYDROCARBON ( 6.74)	550 J	6.74
	SN010021B		PROBABLE HYDROCARBON ( 6.93)	780 J	6.93
	SN010021B		PROBABLE HYDROCARBON (32.17)	79 J	32.17
	SN010021B		PROBABLE HYDROCARBON (34.08)	52 J	34.08
	SN010021B		UNKNOWN ( 5.59)	2900 J	5.59
	SN010021B		UNKNOWN ( 6.61)	1200 J	6.61
	SN010021B		UNKNOWN ( 8.08)	500 J	8.08
	SN010021B		UNKNOWN ( 8.96)	510 J	8.96
	SN010021B		UNKNOWN ( 9.10)	230 J	9.10
	SN010021B		UNKNOWN (12.10)	530 J	12.10
	SN010021B		UNKNOWN (15.53)	150 J	15.53
	SN010021B		UNKNOWN (37.43)	95 J	37.43
	SN010021B		UNKNOWN (38.06)	48 J	38.06
	SN010021B		UNKNOWN SILOXANE ( 5.77)	370 J	5.77
	SN010021B	123422	DIACETONE ALCOHOL ( 6.27)	22000 J	6.27
	SN010021B	123795	DIOCTYL ADIPATE (31.17)	1400 J	31.17
	SN010032B		CARBOXYLIC ACID (26.24)	47 J	26.24
	SN010032B		PROBABLE HYDROCARBON ( 6.72)	380 J	6.72
	SN010032B		PROBABLE HYDROCARBON ( 6.93)	600 J	6.93
	SN010032B		PROBABLE HYDROCARBON (32.00)	190000 J	32.00

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL001018B</b>					
SN010032B			UNKNOWN ( 5.50)	1700 J	5.50
SN010032B			UNKNOWN ( 6.58)	880 J	6.58
SN010032B			UNKNOWN ( 8.08)	160 J	8.08
SN010032B	122349		1,3,5-TRIAZINE-2,4-DIAM(23.39)	42 J	23.39
SN010032B	123422		DIACETONE ALCOHOL ( 6.31)	24000 J	6.31
SN010032B	123795		DIOCTYL ADIPATE (31.22)	1400 J	31.22
SN010032B	1912249		ATRAZINE (23.56)	95 J	23.56
SN010043B			PHTHALATE ESTER (32.59)	140 J	32.59
SN010043B			PHTHALATE ESTER (32.65)	290 J	32.65
SN010043B			PROBABLE HYDROCARBON ( 6.74)	230 J	6.74
SN010043B			PROBABLE HYDROCARBON ( 6.93)	330 J	6.93
SN010043B			PROBABLE HYDROCARBON (32.00)	140000 J	32.00
SN010043B			UNKNOWN ( 5.47)	1100 J	5.47
SN010043B			UNKNOWN ( 6.58)	520 J	6.58
SN010043B			UNKNOWN ( 8.09)	210 J	8.09
SN010043B			UNKNOWN ( 8.98)	180 J	8.98
SN010043B			UNKNOWN ( 9.08)	1500 J	9.08
SN010043B			UNKNOWN SILOXANE ( 5.77)	140 J	5.77
SN010043B	123422		DIACETONE ALCOHOL ( 6.28)	20000 J	6.28
SN010043B	123795		DIOCTYL ADIPATE (31.21)	1400 J	31.21
SN010054B			ALKOXY ARYL HYDROCARBON(16.10)	190 J	16.10
SN010054B			PROBABLE HYDROCARBON ( 6.87)	73 J	6.87
SN010054B			PROBABLE HYDROCARBON (30.12)	200 J	30.12
SN010054B			PROBABLE HYDROCARBON (31.33)	150 J	31.33
SN010054B			PROBABLE HYDROCARBON (32.18)	260 J	32.18
SN010054B			PROBABLE HYDROCARBON (34.10)	260 J	34.10
SN010054B			PROBABLE HYDROCARBON (37.53)	230 J	37.53
SN010054B			UNKNOWN ( 5.43)	120 J	5.43
SN010054B			UNKNOWN ( 6.54)	190 J	6.54
SN010054B			UNKNOWN (12.10)	100 J	12.10
SN010054B			UNKNOWN (23.48)	73 J	23.48
SN010054B			UNKNOWN (28.26)	340 J	28.26
SN010054B			UNKNOWN (37.44)	420 J	37.44
SN010054B			UNKNOWN SILOXANE (13.68)	97 J	13.68
SN010054B	123422		DIACETONE ALCOHOL ( 6.12)	6200 J	6.12
SN010054B	123795		DIOCTYL ADIPATE ( 31.18)	7500 J	31.18
SN011011B			PHTHALATE ESTER (32.50)	25 J	32.50
SN011011B			PROBABLE HYDROCARBON ( 5.95)	210 J	5.95
SN011011B			PROBABLE HYDROCARBON ( 6.76)	630 J	6.76
SN011011B			PROBABLE HYDROCARBON ( 6.95)	1000 J	6.95
SN011011B			PROBABLE HYDROCARBON (12.43)	110 J	12.43
SN011011B			PROBABLE HYDROCARBON (24.96)	310 J	24.96
SN011011B			UNKNOWN ( 5.59)	920 J	5.59
SN011011B			UNKNOWN ( 6.52)	400 J	6.52
SN011011B			UNKNOWN ( 6.64)	990 J	6.64
SN011011B			UNKNOWN ( 8.10)	260 J	8.10
SN011011B			UNKNOWN ( 8.98)	170 J	8.98

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## TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL001018B</b>					
			UNKNOWN (10.20)	160 J	10.20
			UNKNOWN SILOXANE ( 5.80)	250 J	5.80
		123422	DIACETONE ALCOHOL ( 6.30)	29000 J	6.30
		123795	DIOCTYL ADIPATE (31.05)	1600 J	31.05
			PHTHALATE ESTER (32.05)	25 J	32.05
			PROBABLE HYDROCARBON ( 6.72)	460 J	6.72
			PROBABLE HYDROCARBON ( 6.92)	710 J	6.92
			UNKNOWN ( 5.53)	1600 J	5.53
			UNKNOWN ( 5.89)	130 J	5.89
			UNKNOWN ( 6.59)	690 J	6.59
			UNKNOWN ( 8.09)	110 J	8.09
			UNKNOWN ( 8.97)	230 J	8.97
			UNKNOWN ( 9.07)	530 J	9.07
			UNKNOWN SILOXANE ( 5.75)	170 J	5.75
		123422	DIACETONE ALCOHOL ( 6.26)	24000 J	6.26
		123795	DIOCTYL ADIPATE (31.05)	1500 J	6.26
			PHTHALATE ESTER (32.06)	58 J	32.06
			PROBABLE HYDROCARBON ( 6.72)	310 J	6.72
			PROBABLE HYDROCARBON ( 6.92)	440 J	6.92
			UNKNOWN ( 5.54)	1400 J	5.54
			UNKNOWN ( 6.58)	540 J	6.58
			UNKNOWN ( 8.97)	230 J	8.97
			UNKNOWN ( 9.07)	1000 J	9.07
			UNKNOWN SILOXANE ( 5.74)	160 J	5.74
		123422	DIACETONE ALCOHOL ( 6.14)	12000 J	6.14
		123795	DIOCTYL ADIPATE (31.05)	1500 J	31.05
<b>LL011188</b>					
			UNKNOWN ( 6.20)	240 J	6.20
		LL036133B	UNKNOWN (13.00)	150 J	13.00
		LL036133B	UNKNOWN (27.30)	270 J	27.30
		LL036155B	UNKNOWN ( 6.20)	180 J	6.20
		LL036155B	UNKNOWN (21.00)	110 J	21.00
		LL036155B	UNKNOWN (23.00)	270 J	23.00
<b>LL011288</b>					
			UNKNOWN ( 6.20)	160 J	6.20
		LL009016B	UNKNOWN (15.40)	140 J	15.40
		LL009016B	UNKNOWN (20.20)	180 J	20.20
		LL009016B	UNKNOWN (21.20)	240 J	21.20
		LL009016B	UNKNOWN (22.10)	380 J	22.10
		LL009016B	UNKNOWN (23.00)	290 J	23.00
		LL009016B	UNKNOWN (23.40)	330 J	23.40
		LL009016B	UNKNOWN (25.20)	270 J	25.20
		LL009027B	UNKNOWN (22.00)	240 J	22.00

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL011288</b>					
	LL009027B		UNKNOWN (23.40)	430 J	23.40
	LL009027B		UNKNOWN (25.20)	550 J	25.20
	LL009027B		UNKNOWN (26.20)	170 J	26.20
	LL009027B		UNKNOWN (27.30)	1800 J	27.30
	LL009027B		UNKNOWN (28.50)	280 J	28.50
	LL009038B		UNKNOWN (22.00)	240 J	22.00
	LL009038B		UNKNOWN (23.40)	360 J	23.40
	LL009038B		UNKNOWN (25.20)	460 J	25.20
	LL009038B		UNKNOWN (27.20)	2000 J	27.20
	LL009038B		UNKNOWN (30.10)	2700 J	30.10
	LL036097B		UNKNOWN (21.10)	640 J	21.10
	LL036097B		UNKNOWN (23.00)	11000 J	23.00
	LL036144B		UNKNOWN ( 6.10)	180 J	6.10
	LL038011B		UNKNOWN ( 6.20)	450 J	6.20
	LL038011B		UNKNOWN ( 8.10)	600 J	8.10
	LL038011B		UNKNOWN ( 8.30)	690 J	8.30
	LL038011B		UNKNOWN ( 8.40)	64 J	8.40
	LL038011B		UNKNOWN ( 8.50)	330 J	8.50
	LL038011B		UNKNOWN (14.30)	480 J	14.30
	LL038011B		UNKNOWN (16.00)	730 J	16.00
	LL038011B		UNKNOWN (16.30)	1200 J	16.30
	LL038011B		UNKNOWN (16.40)	3400 J	16.40
	LL038011B		UNKNOWN (17.40)	2100 J	17.40
	LL038011B		UNKNOWN (19.10)	630 J	19.10
	LL038011B		UNKNOWN (20.20)	680 J	20.20
	LL038011B		UNKNOWN (20.40)	910 J	20.40
	LL038011B		UNKNOWN (23.00)	2000 J	23.00
	LL038011B		UNKNOWN (24.00)	6400 J	24.00
	LL038011B		UNKNOWN (24.30)	170000 J	24.30
	LL038011B		UNKNOWN (26.10)	1400 J	26.10
	LL038011B		UNKNOWN (26.50)	1800 J	26.50
	LL038022B		UNKNOWN ( 7.50)	4000 J	7.50
	LL038022B		UNKNOWN ( 8.00)	1400 J	8.00
	LL038022B		UNKNOWN ( 8.10)	2800 J	8.10
	LL038022B		UNKNOWN ( 8.30)	2100 J	8.30
	LL038022B		UNKNOWN ( 8.30)	3700 J	8.30
	LL038022B		UNKNOWN ( 8.50)	2100 J	8.50
	LL038022B		UNKNOWN (13.60)	1700 J	13.60
	LL038022B		UNKNOWN (16.00)	8200 J	16.00
	LL038022B		UNKNOWN (16.30)	2500 J	16.30
	LL038022B		UNKNOWN (16.40)	16000 J	16.40
	LL038022B		UNKNOWN (17.40)	9400 J	17.40
	LL038022B		UNKNOWN (18.30)	2200 J	18.30
	LL038022B		UNKNOWN (18.40)	2000 J	18.40
	LL038022B		UNKNOWN (19.10)	1000 J	19.10
	LL038022B		UNKNOWN (20.20)	1200 J	20.20
	LL038022B		UNKNOWN (23.00)	26000 J	23.00

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL011288</b>					
	LL038022B		UNKNOWN (23.40)	1200 J	23.40
	LL038022B		UNKNOWN (23.50)	1000 J	23.50
	LL038022B		UNKNOWN (24.20)	46000 J	24.20
	LL038022B		UNKNOWN (26.50)	5100 J	26.50
<b>LL011388</b>					
	LL031025B		UNKNOWN (12.50)	1100 J	12.50
	LL031025B		UNKNOWN (13.10)	2500 J	13.10
	LL031025B		UNKNOWN (14.00)	2600 J	14.00
	LL031025B		UNKNOWN (14.20)	3800 J	14.20
	LL031025B		UNKNOWN (15.10)	2000 J	15.10
	LL031025B		UNKNOWN (15.30)	3900 J	15.30
	LL031025B		UNKNOWN (16.00)	2600 J	16.00
	LL031025B		UNKNOWN (16.40)	4500 J	16.40
	LL031025B		UNKNOWN (17.40)	4200 J	17.40
	LL031025B		UNKNOWN (17.50)	3900 J	17.50
	LL031025B		UNKNOWN (18.40)	4100 J	18.40
	LL031025B		UNKNOWN (19.00)	1200 J	19.00
	LL031025B		UNKNOWN (19.30)	4000 J	19.30
	LL031025B		UNKNOWN (20.30)	4300 J	20.30
	LL031025B		UNKNOWN (21.20)	4400 J	21.20
	LL031025B		UNKNOWN (21.40)	1700 J	21.40
	LL031025B		UNKNOWN (22.10)	4200 J	22.10
	LL031025B		UNKNOWN (22.50)	3500 J	22.50
	LL031025B		UNKNOWN (23.40)	2100 J	23.40
	LL031070B		UNKNOWN (16.30)	170 J	16.30
	LL031070B		UNKNOWN (16.30)	290 J	16.30
	LL031070B		UNKNOWN (17.30)	360 J	17.30
	LL031070B		UNKNOWN (17.40)	420 J	17.40
	LL031070B		UNKNOWN (18.30)	230 J	18.30
	LL031070B		UNKNOWN (18.30)	500 J	18.30
	LL031070B		UNKNOWN (19.30)	710 J	19.30
	LL031070B		UNKNOWN (20.20)	1000 J	20.20
	LL031070B		UNKNOWN (21.10)	850 J	21.10
	LL031070B		UNKNOWN (21.30)	1600 J	21.30
	LL031070B		UNKNOWN (23.10)	1400 J	23.10
	LL031070B		UNKNOWN (23.40)	2100 J	23.40
	LL031070B		UNKNOWN (24.00)	1600 J	24.00
	LL031070B		UNKNOWN (24.30)	1500 J	24.30
	LL031070B		UNKNOWN (24.50)	1800 J	24.50
	LL031070B		UNKNOWN (25.00)	1500 J	25.00
	LL031070B		UNKNOWN (25.60)	1500 J	25.60
	LL031070B		UNKNOWN (26.40)	1600 J	26.40
	LL031092B		UNKNOWN (10.30)	1400 J	10.30
	LL031092B		UNKNOWN (18.30)	140 J	18.30
	LL031092B		UNKNOWN (19.30)	140 J	19.30

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL011388</b>					
	LL031092B		UNKNOWN (20.20)	180 J	20.20
	LL031092B		UNKNOWN (20.20)	200 J	20.20
	LL031092B		UNKNOWN (20.30)	50 J	20.30
	LL031092B		UNKNOWN (23.40)	320 J	23.40
	LL031092B		UNKNOWN (25.20)	320 J	25.20
	LL031092B		UNKNOWN (27.20)	390 J	27.20
	LL036075B		UNKNOWN ( 6.10)	410 J	6.10
	LL036075B		UNKNOWN (13.50)	160 J	13.50
	LL036075B		UNKNOWN (14.20)	260 J	14.20
	LL036075B		UNKNOWN (14.30)	320 J	14.30
	LL036075B		UNKNOWN (15.20)	240 J	15.20
	LL036075B		UNKNOWN (16.30)	390 J	16.30
	LL036075B		UNKNOWN (16.40)	650 J	16.40
	LL036075B		UNKNOWN (17.00)	200 J	17.00
	LL036075B		UNKNOWN (17.30)	250 J	17.30
	LL036075B		UNKNOWN (17.40)	250 J	17.40
	LL036075B		UNKNOWN (18.30)	380 J	18.30
	LL036075B		UNKNOWN (18.40)	360 J	18.40
	LL036075B		UNKNOWN (19.30)	260 J	19.30
	LL036075B		UNKNOWN (20.20)	470 J	20.20
	LL036075B		UNKNOWN (20.20)	840 J	20.20
	LL036075B		UNKNOWN (22.10)	330 J	22.10
	LL036075B		UNKNOWN (22.50)	13000 J	22.50
	LL036086B		UNKNOWN ( 6.20)	260 J	6.20
	LL036086B		UNKNOWN (20.20)	640 J	20.20
	LL036086B		UNKNOWN (20.40)	260 J	20.40
	LL036086B		UNKNOWN (22.50)	15000 J	22.50
	LL036086B		UNKNOWN (28.00)	860 J	28.00
	LL036086B		UNKNOWN (29.30)	820 J	29.30
	LL038033B		UNKNOWN ( 6.10)	610 J	6.10
	LL038033B		UNKNOWN ( 7.40)	640 J	7.40
	LL038033B		UNKNOWN ( 8.10)	610 J	8.10
	LL038033B		UNKNOWN ( 8.30)	830 J	8.30
	LL038033B		UNKNOWN ( 8.50)	360 J	8.50
	LL038033B		UNKNOWN (16.00)	460 J	16.00
	LL038033B		UNKNOWN (16.30)	880 J	16.30
	LL038033B		UNKNOWN (16.30)	1600 J	16.30
	LL038033B		UNKNOWN (17.40)	970 J	17.40
	LL038033B		UNKNOWN (18.10)	340 J	18.10
	LL038033B		UNKNOWN (18.20)	450 J	18.20
	LL038033B		UNKNOWN (20.20)	1000 J	20.20
	LL038033B		UNKNOWN (22.50)	22000 J	22.50
	LL038033B		UNKNOWN (25.20)	5100 J	25.20
	LL038033B		UNKNOWN (26.50)	2000 J	26.50
	LL038055B		UNKNOWN ( 6.10)	400 J	6.10
	LL038055B		UNKNOWN ( 8.10)	620 J	8.10
	LL038055B		UNKNOWN ( 8.20)	420 J	8.20

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL011388</b>					
	LL038055B		UNKNOWN ( 8.30)	960 J	8.30
	LL038055B		UNKNOWN ( 8.50)	400 J	8.50
	LL038055B		UNKNOWN ( 9.20)	260 J	9.20
	LL038055B		UNKNOWN (10.00)	320 J	10.00
	LL038055B		UNKNOWN (16.00)	620 J	16.00
	LL038055B		UNKNOWN (16.30)	1200 J	16.30
	LL038055B		UNKNOWN (16.30)	2100 J	16.30
	LL038055B		UNKNOWN (17.40)	1200 J	17.40
	LL038055B		UNKNOWN (19.10)	340 J	19.10
	LL038055B		UNKNOWN (19.20)	360 J	19.20
	LL038055B		UNKNOWN (20.20)	850 J	20.20
	LL038055B		UNKNOWN (20.40)	280 J	20.40
	LL038055B		UNKNOWN (22.00)	450 J	22.00
	LL038055B		UNKNOWN (22.50)	3900 J	22.50
	LL038055B		UNKNOWN (23.00)	2200 J	23.00
	LL038055B		UNKNOWN (26.50)	1400 J	26.50
<b>LL020288</b>					
	LL031014B		UNKNOWN (14.40)	2700 J	14.40
	LL031014B		UNKNOWN (15.50)	3400 J	15.50
	LL031014B		UNKNOWN (16.50)	6100 J	16.50
	LL031014B		UNKNOWN (16.60)	4500 J	16.60
	LL031014B		UNKNOWN (17.50)	5900 J	17.50
	LL031014B		UNKNOWN (18.00)	3300 J	18.00
	LL031014B		UNKNOWN (19.00)	6100 J	19.00
	LL031014B		UNKNOWN (20.00)	7300 J	20.00
	LL031014B		UNKNOWN (20.50)	4900 J	20.50
	LL031014B		UNKNOWN (21.50)	5100 J	21.50
	LL031014B		UNKNOWN (22.40)	3200 J	22.40
	SN001019B		UNKNOWN ( 6.30)	280 J	6.30
	SN002032B		UNKNOWN (24.20)	280 J	24.20
	SN003022B		UNKNOWN ( 6.30)	310 J	6.30
	SN003022B		UNKNOWN ( 8.40)	240 J	8.40
	SN003022B		UNKNOWN (12.10)	180 J	12.10
	SN003022B		UNKNOWN (19.30)	380 J	19.30
	SN003022B		UNKNOWN (24.10)	520 J	24.10
	SN003022B		UNKNOWN (26.10)	280 J	26.10
	SN003022B		UNKNOWN (27.20)	170 J	27.20
<b>LL020388</b>					
	LL031116B		UNKNOWN (22.00)	2600 J	22.00
	SN001020B		UNKNOWN ( 6.30)	270 J	6.30
	SN001020B		UNKNOWN (23.40)	210 J	23.40
	SN001020B		UNKNOWN (25.20)	150 J	25.20
	SN001031B		UNKNOWN ( 6.30)	310 J	6.30

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## TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL020388</b>					
	SN001031B		UNKNOWN (23.40)	180 J	23.40
	SN003011B		UNKNOWN ( 6.30)	290 J	6.30
	SN003011B		UNKNOWN ( 7.00)	270 J	7.00
	SN003033B		UNKNOWN ( 6.30)	390 J	6.30
	SN003033B		UNKNOWN ( 7.00)	280 J	7.00
	SN003033B		UNKNOWN ( 8.20)	320 J	8.20
	SN003033B		UNKNOWN (12.00)	380 J	12.00
	SN003033B		UNKNOWN (14.00)	600 J	14.00
	SN003033B		UNKNOWN (15.10)	260 J	15.10
	SN003033B		UNKNOWN (15.20)	290 J	15.20
	SN003033B		UNKNOWN (16.00)	370 J	16.00
	SN003033B		UNKNOWN (16.40)	340 J	16.40
	SN003033B		UNKNOWN (17.10)	310 J	17.10
	SN003033B		UNKNOWN (19.10)	490 J	19.10
	SN003033B		UNKNOWN (22.10)	1600 J	22.10
	SN003033B		UNKNOWN (22.50)	290 J	22.50
	SN003033B		UNKNOWN (23.40)	3200 J	23.40
	SN003033B		UNKNOWN (25.20)	1200 J	25.20
	SN003033B		UNKNOWN (26.20)	330 J	26.20
	SN003033B		UNKNOWN (27.20)	860 J	27.20
	SN003033B		UNKNOWN (27.20)	910 J	27.20
	SN003033B		UNKNOWN (30.00)	490 J	30.00
	SN003033B		UNKNOWN (30.10)	770 J	30.10
<b>LL020488</b>					
	LL031036B		UNKNOWN (13.10)	8400 J	13.10
	LL031036B		UNKNOWN (13.30)	18000 J	13.30
	LL031036B		UNKNOWN (14.20)	18000 J	14.20
	LL031036B		UNKNOWN (14.40)	44000 J	14.40
	LL031036B		UNKNOWN (15.30)	11000 J	15.30
	LL031036B		UNKNOWN (15.50)	55000 J	15.50
	LL031036B		UNKNOWN (16.20)	22000 J	16.20
	LL031036B		UNKNOWN (16.40)	7100 J	16.40
	LL031036B		UNKNOWN (16.60)	49000 J	16.60
	LL031036B		UNKNOWN (17.00)	43000 J	17.00
	LL031036B		UNKNOWN (18.00)	38000 J	18.00
	LL031036B		UNKNOWN (18.00)	55000 J	18.00
	LL031036B		UNKNOWN (19.00)	53000 J	19.00
	LL031036B		UNKNOWN (19.10)	6600 J	19.10
	LL031036B		UNKNOWN (19.50)	52000 J	19.50
	LL031036B		UNKNOWN (20.50)	42000 J	20.50
	LL031036B		UNKNOWN (21.40)	53000 J	21.40
	LL031036B		UNKNOWN (22.30)	36000 J	22.30
	LL031036B		UNKNOWN (23.20)	15000 J	23.20
	SN002010B		UNKNOWN ( 6.30)	190 J	6.30
	SN002010B		UNKNOWN (19.10)	260 J	19.10

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## TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID NUM	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL020488</b>					
	SN002010B		UNKNOWN (23.40)	610 J	23.40
	SN002010B		UNKNOWN (26.10)	230 J	26.10
	SN002010B		UNKNOWN (27.10)	460 J	27.10
<b>LL020588</b>					
	LL031069B		UNKNOWN ( 6.30)	220 J	6.30
	LL031069B		UNKNOWN (20.40)	220 J	20.40
	LL031069B		UNKNOWN (25.50)	240 J	25.50
	LL031081B		UNKNOWN (17.60)	180 J	17.60
	LL031081B		UNKNOWN (18.00)	190 J	18.00
	LL031081B		UNKNOWN (19.00)	250 J	19.00
	LL031081B		UNKNOWN (19.30)	140 J	19.30
	LL031081B		UNKNOWN (19.50)	250 J	19.50
	LL031081B		UNKNOWN (20.40)	200 J	20.40
	LL031081B		UNKNOWN (20.40)	220 J	20.40
	LL031081B		UNKNOWN (20.50)	260 J	20.50
	LL031081B		UNKNOWN (22.00)	390 J	22.00
	LL031081B		UNKNOWN (22.30)	280 J	22.30
	LL031081B		UNKNOWN (22.50)	310 J	22.50
	LL031081B		UNKNOWN (23.20)	410 J	23.20
	LL031081B		UNKNOWN (23.40)	500 J	23.40
	LL031081B		UNKNOWN (24.10)	570 J	24.10
	LL031081B		UNKNOWN (24.20)	650 J	24.20
	LL031081B		UNKNOWN (26.10)	510 J	26.10
	LL031081B		UNKNOWN (26.20)	710 J	26.20
<b>LL020988</b>					
	LL028020B		UNKNOWN ( 6.30)	210 J	6.30
	LL028020B		UNKNOWN ( 7.00)	630 J	7.00
	LL028020B		UNKNOWN (20.40)	260 J	20.40
	LL028020B		UNKNOWN (23.20)	560 J	23.20
	LL028020B		UNKNOWN (24.10)	24 J	24.10
	LL028020B		UNKNOWN (31.20)	590 J	31.20
	LL028042B		UNKNOWN (23.10)	300 J	23.10
	LL028042B		UNKNOWN (23.20)	5200 J	23.20
	LL028042B		UNKNOWN (24.10)	400 J	24.10
	LL028042B		UNKNOWN (27.30)	290 J	27.30
	LL031127B		UNKNOWN (21.40)	1600 J	21.40
	LL034040B		UNKNOWN ( 7.00)	190 J	7.00
	LL034040B		UNKNOWN (18.00)	410 J	18.00
	LL034040B		UNKNOWN (20.40)	290 J	20.40
	LL034040B		UNKNOWN (24.10)	81 J	24.10
	LL034062B		UNKNOWN ( 6.60)	260 J	6.60
	LL034062B		UNKNOWN ( 9.20)	250 J	9.20
	LL034062B		UNKNOWN (20.40)	190 J	20.40

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## TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL020988</b>					
	LL034062B		UNKNOWN (23.10)	160 J	23.10
<b>LL021088</b>					
	LL028031B		UNKNOWN ( 6.30)	310 J	6.30
	LL028031B		UNKNOWN ( 6.60)	780 J	6.60
	LL028031B		UNKNOWN (18.30)	130 J	18.30
	LL028031B		UNKNOWN (20.40)	310 J	20.40
	LL028031B		UNKNOWN (23.20)	4700 J	23.20
	LL028031B		UNKNOWN (24.10)	180 J	24.10
	LL028031B		UNKNOWN (24.20)	130 J	24.20
	LL034028B		UNKNOWN (20.40)	260 J	20.40
	LL034028B		UNKNOWN (23.10)	540 J	23.10
	LL034028B		UNKNOWN (24.10)	190 J	24.10
	LL034039B		UNKNOWN ( 7.00)	720 J	7.00
	LL034039B		UNKNOWN ( 7.20)	390 J	7.20
	LL034039B		UNKNOWN (20.40)	170 J	20.40
	LL034039B		UNKNOWN (23.10)	390 J	23.10
	LL034039B		UNKNOWN (24.00)	190 J	24.00
	LL034039B		UNKNOWN (25.50)	250 J	25.50
	LL034039B		UNKNOWN (28.00)	430 J	28.00
	LL034039B		UNKNOWN (31.10)	340 J	31.10
	LL034051B		UNKNOWN (18.00)	190 J	18.00
	LL034051B		UNKNOWN (20.40)	210 J	20.40
	LL034051B		UNKNOWN (23.10)	280 J	23.10
	LL034051B		UNKNOWN (24.10)	220 J	24.10
	LL034073B		UNKNOWN ( 8.00)	240 J	8.00
	LL034073B		UNKNOWN ( 8.40)	300 J	8.40
	LL034073B		UNKNOWN (11.10)	1200 J	11.10
	LL034073B		UNKNOWN (14.40)	1100 J	14.40
	LL034073B		UNKNOWN (17.00)	410 J	17.00
	LL034073B		UNKNOWN (17.10)	370 J	17.10
	LL034073B		UNKNOWN (18.10)	2500 J	18.10
	LL034073B		UNKNOWN (21.10)	390 J	21.10
	LL034084B		UNKNOWN ( 7.30)	5600 J	7.30
	LL034084B		UNKNOWN ( 8.10)	650 J	8.10
	LL034084B		UNKNOWN ( 8.30)	160 J	8.30
	LL034084B		UNKNOWN ( 8.40)	830 J	8.40
	LL034084B		UNKNOWN ( 9.20)	580 J	9.20
	LL034084B		UNKNOWN (11.10)	2100 J	11.10
	LL034084B		UNKNOWN (13.10)	130 J	13.10
	LL034084B		UNKNOWN (13.30)	200 J	13.30
	LL034084B		UNKNOWN (13.40)	150 J	13.40
	LL034084B		UNKNOWN (14.40)	1500 J	14.40
	LL034084B		UNKNOWN (15.50)	160 J	15.50
	LL034084B		UNKNOWN (17.00)	230 J	17.00
	LL034084B		UNKNOWN (17.10)	400 J	17.10

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL021088</b>					
	LL034084B		UNKNOWN (18.10)	2500 J	18.10
	LL034084B		UNKNOWN (21.10)	430 J	21.10
	LL034084B		UNKNOWN (24.00)	38 J	24.00
	LL034084B		UNKNOWN (25.50)	56 J	25.50
	LL034084B		UNKNOWN (28.10)	320 J	28.10
	LL034119B		UNKNOWN ( 6.50)	440 J	6.50
	LL034119B		UNKNOWN ( 7.00)	7700 J	7.00
	LL034119B		UNKNOWN ( 7.20)	180 J	7.20
	LL034119B		UNKNOWN (11.10)	460 J	11.10
	LL034119B		UNKNOWN (14.40)	580 J	14.40
	LL034119B		UNKNOWN (18.00)	240 J	18.00
	LL034119B		UNKNOWN (20.40)	350 J	20.40
	LL034119B		UNKNOWN (23.10)	560 J	23.10
	LL034119B		UNKNOWN (23.20)	290 J	23.20
	LL034119B		UNKNOWN (24.40)	320 J	24.40
	LL034120B		UNKNOWN ( 6.50)	210 J	6.50
	LL034120B		UNKNOWN ( 7.00)	5400 J	7.00
	LL034120B		UNKNOWN ( 7.50)	160 J	7.50
	LL034120B		UNKNOWN (18.00)	440 J	18.00
	LL034120B		UNKNOWN (20.40)	230 J	20.40
	LL034120B		UNKNOWN (23.10)	200 J	23.10
	LL034120B		UNKNOWN (23.10)	260 J	23.10
	LL034120B		UNKNOWN (23.20)	930 J	23.20
	LL034120B		UNKNOWN (27.30)	690 J	27.30
	LL034120B		UNKNOWN (27.40)	840 J	27.40
	LL034120B		UNKNOWN (28.10)	830 J	28.10
	LL034120B		UNKNOWN (28.40)	850 J	28.40
	LL034120B		UNKNOWN (30.50)	710 J	30.50
	LL034120B		UNKNOWN (31.10)	500 J	31.10
	LL034120B		UNKNOWN (31.10)	680 J	31.10
	LL034120B		UNKNOWN (34.20)	600 J	34.20
<b>LL021188</b>					
	LL034017B		UNKNOWN ( 7.00)	820 J	7.00
	LL034017B		UNKNOWN (20.40)	350 J	20.40
	LL034017B		UNKNOWN (23.10)	270 J	23.10
	LL034017B		UNKNOWN (24.10)	230 J	24.10
	LL034017B		UNKNOWN (28.10)	330 J	28.10
	LL034017B		UNKNOWN (31.10)	890 J	31.10
	LL034095B		UNKNOWN ( 7.40)	1900 J	7.40
	LL034095B		UNKNOWN ( 7.40)	4200 J	7.40
	LL034095B		UNKNOWN ( 8.10)	1100 J	8.10
	LL034095B		UNKNOWN ( 8.40)	310 J	8.40
	LL034095B		UNKNOWN ( 8.40)	1300 J	8.40
	LL034095B		UNKNOWN (11.10)	2700 J	11.10
	LL034095B		UNKNOWN (12.00)	150 J	12.00

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL021188</b>					
LL034095B			UNKNOWN (13.30)	190 J	13.30
LL034095B			UNKNOWN (13.40)	150 J	13.40
LL034095B			UNKNOWN (14.40)	2400 J	14.40
LL034095B			UNKNOWN (15.40)	160 J	15.40
LL034095B			UNKNOWN (17.00)	220 J	17.00
LL034095B			UNKNOWN (17.10)	320 J	17.10
LL034095B			UNKNOWN (18.10)	2500 J	18.10
LL034095B			UNKNOWN (21.10)	460 J	21.10
LL034095B			UNKNOWN (23.10)	68 J	23.10
LL034095B			UNKNOWN (24.10)	36 J	24.10
LL034095B			UNKNOWN (26.00)	40 J	26.00
LL034095B			UNKNOWN (28.10)	240 J	28.10
LL034095B			UNKNOWN (31.20)	240 J	31.20
LL034108B			UNKNOWN ( 7.20)	6000 J	7.20
LL034108B			UNKNOWN ( 8.00)	320 J	8.00
LL034108B			UNKNOWN ( 8.40)	310 J	8.40
LL034108B			UNKNOWN (11.10)	1100 J	11.10
LL034108B			UNKNOWN (14.40)	900 J	14.40
LL034108B			UNKNOWN (17.00)	170 J	17.00
LL034108B			UNKNOWN (17.10)	220 J	17.10
LL034108B			UNKNOWN (18.10)	2600 J	18.10
LL034108B			UNKNOWN (19.10)	150 J	19.10
LL034108B			UNKNOWN (21.10)	190 J	21.10
LL034108B			UNKNOWN (23.10)	490 J	23.10
LL034108B			UNKNOWN (24.10)	170 J	24.10
LL034108B			UNKNOWN (26.20)	200 J	26.20
LL034108B			UNKNOWN (27.30)	680 J	27.30
LL034108B			UNKNOWN (28.20)	590 J	28.20
LL034108B			UNKNOWN (29.00)	510 J	29.00
LL034108B			UNKNOWN (31.00)	460 J	31.00
LL034108B			UNKNOWN (31.20)	580 J	31.20
SN004012B			UNKNOWN ( 6.30)	410 J	6.30
SN004012B			UNKNOWN ( 7.00)	500 J	7.00
SN004012B			UNKNOWN ( 7.40)	210 J	7.40
SN004012B			UNKNOWN ( 8.40)	380 J	8.40
SN004012B			UNKNOWN (18.40)	270 J	18.40
SN004012B			UNKNOWN (23.20)	2300 J	23.20
SN004012B			UNKNOWN (24.10)	580 J	24.10
SN004012B			UNKNOWN (26.00)	180 J	26.00
SN004012B			UNKNOWN (27.00)	300 J	27.00
SN004012B			UNKNOWN (28.10)	370 J	28.10
SN004023B			UNKNOWN ( 6.30)	390 J	6.30
SN004023B			UNKNOWN ( 7.00)	350 J	7.00
SN004023B			UNKNOWN ( 8.40)	340 J	8.40
SN004023B			UNKNOWN (23.30)	9300 J	23.30
SN004023B			UNKNOWN (24.10)	310 J	24.10
SN004023B			UNKNOWN (26.00)	180 J	26.00

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL021188</b>					
	SN004034B		UNKNOWN ( 6.30)	370 J	6.30
	SN004034B		UNKNOWN (23.10)	390 J	23.10
	SN004034B		UNKNOWN (23.20)	150 J	23.20
	SN004034B		UNKNOWN (23.30)	8400 J	23.30
	SN004034B		UNKNOWN (24.10)	140 J	24.10
	SN004034B		UNKNOWN (28.10)	200 J	28.10
<b>LL121987</b>					
	LL033027B		UNKNOWN ( 6.20)	260 J	6.20
	LL033027B		UNKNOWN (11.10)	180 J	11.10
	LL033027B		UNKNOWN (23.30)	280 J	23.30
	LL033027B		UNKNOWN (23.40)	280 J	23.40
	LL033027B		UNKNOWN (24.20)	2900 J	24.20
	LL033027B		UNKNOWN (25.00)	380 J	25.00
	LL033027B		UNKNOWN (25.30)	270 J	25.30
	LL033027B		UNKNOWN (26.40)	440 J	26.40
	LL033027B		UNKNOWN (27.30)	710 J	27.30
	LL033027B		UNKNOWN (30.20)	770 J	30.20
	LL033038B		UNKNOWN (23.40)	290 J	23.40
	LL033038B		UNKNOWN (23.50)	140 J	23.50
	LL033038B		UNKNOWN (24.00)	250 J	24.00
	LL033038B		UNKNOWN (25.30)	160 J	25.30
	LL033038B		UNKNOWN (27.00)	480 J	27.00
	LL033038B		UNKNOWN (29.00)	470 J	29.00
	LL033038B		UNKNOWN (30.40)	560 J	30.40
	LL039012B		UNKNOWN (20.30)	230 J	20.30
	LL039012B		UNKNOWN (25.30)	190 J	25.30
	LL039012B		UNKNOWN (27.10)	930 J	27.10
	LL039012B		UNKNOWN (27.40)	350 J	27.40
	LL039012B		UNKNOWN (27.50)	380 J	27.50
<b>LL122087</b>					
	LL033016B		UNKNOWN ( 6.20)	150 J	6.20
	LL033016B		UNKNOWN ( 7.50)	200 J	7.50
	LL033016B		UNKNOWN (23.00)	200 J	23.00
	LL033016B		UNKNOWN (23.40)	150 J	23.40
	LL033016B		UNKNOWN (25.30)	330 J	25.30
	LL033016B		UNKNOWN (30.40)	630 J	30.40
	LL033016B		UNKNOWN (32.00)	650 J	32.00
	LL037010B		UNKNOWN (20.30)	220 J	20.30
	LL037010B		UNKNOWN (21.20)	630 J	21.20
	LL037010B		UNKNOWN (22.10)	600 J	22.10
	LL037010B		UNKNOWN (23.00)	380 J	23.00
	LL037010B		UNKNOWN (23.50)	340 J	23.50
	LL037010B		UNKNOWN (24.40)	370 J	24.40

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL122087</b>					
LL037010B			UNKNOWN (25.30)	290 J	25.30
LL037010B			UNKNOWN (25.40)	180 J	25.40
LL037010B			UNKNOWN (26.30)	180 J	26.30
LL037010B			UNKNOWN (27.40)	420 J	27.40
LL039023B			UNKNOWN (16.40)	220 J	16.40
LL039023B			UNKNOWN (17.20)	220 J	17.20
LL039023B			UNKNOWN (17.50)	1300 J	17.50
LL039023B			UNKNOWN (18.20)	720 J	18.20
LL039023B			UNKNOWN (18.40)	880 J	18.40
LL039023B			UNKNOWN (19.10)	1000 J	19.10
LL039023B			UNKNOWN (19.20)	1100 J	19.20
LL039023B			UNKNOWN (20.10)	1200 J	20.10
LL039023B			UNKNOWN (20.30)	5200 J	20.30
LL039023B			UNKNOWN (21.00)	710 J	21.00
LL039023B			UNKNOWN (23.60)	440 J	23.60
LL039034B			UNKNOWN (20.30)	280 J	20.30
LL039034B			UNKNOWN (24.00)	220 J	24.00
LL039045B			UNKNOWN ( 6.20)	470 J	6.20
LL039045B			UNKNOWN (16.40)	200 J	16.40
LL039045B			UNKNOWN (17.50)	300 J	17.50
LL039045B			UNKNOWN (20.30)	600 J	20.30
LL039045B			UNKNOWN (25.30)	190 J	25.30
LL039045B			UNKNOWN (30.40)	530 J	30.40
<b>LL122187</b>					
LL005023B			UNKNOWN ( 7.50)	200 J	7.50
LL005023B			UNKNOWN (14.10)	430 J	14.10
LL005023B			UNKNOWN (15.60)	340 J	15.60
LL005023B			UNKNOWN (20.30)	440 J	20.30
LL005023B			UNKNOWN (21.20)	870 J	21.20
LL005023B			UNKNOWN (22.10)	400 J	22.10
LL005023B			UNKNOWN (23.00)	190 J	23.00
LL005023B			UNKNOWN (25.30)	220 J	25.30
LL005023B			UNKNOWN (25.40)	170 J	25.40
LL005023B			UNKNOWN (27.50)	330 J	27.50
<b>LL122287</b>					
LL005012B			UNKNOWN ( 6.20)	180 J	6.20
LL005012B			UNKNOWN ( 8.30)	210 J	8.30
LL005012B			UNKNOWN (25.50)	170 J	25.50
LL005012B			UNKNOWN (28.00)	280 J	28.00
LL005012B			UNKNOWN (31.00)	230 J	31.00
LL007014B			UNKNOWN ( 6.30)	150 J	6.30
LL007014B			UNKNOWN ( 7.20)	1500 J	7.20
LL007014B			UNKNOWN (20.40)	140 J	20.40

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TABLE D 6.32 LIVERMORE/SANDIA QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>LL122287</b>					
	LL007025B		UNKNOWN ( 6.20)	200 J	6.20
	LL007025B		UNKNOWN (23.10)	190 J	23.10
	LL007025B		UNKNOWN (23.30)	660 J	23.30
	LL007025B		UNKNOWN (25.50)	160 J	25.50
	LL036042B		UNKNOWN (27.10)	310 J	27.10
	LL036042B		UNKNOWN (29.00)	410 J	29.00
<b>LL122287</b>					
	LL003032B		UNKNOWN ( 6.30)	210 J	6.30
	LL037021B		UNKNOWN (15.30)	120 J	15.30
	LL037021B		UNKNOWN (16.50)	660 J	16.50
	LL037021B		UNKNOWN (18.20)	210 J	18.20
	LL037021B		UNKNOWN (24.00)	230 J	24.00
	LL037021B		UNKNOWN (25.40)	220 J	25.40
	LL037021B		UNKNOWN (27.30)	260 J	27.30
	LL037021B		UNKNOWN (27.50)	400 J	27.50
	LL037021B		UNKNOWN (27.50)	770 J	27.50
	LL037021B		UNKNOWN (30.50)	270 J	30.50
	LL037021B		UNKNOWN (32.10)	560 J	32.10
	LL037021B		UNKNOWN (32.50)	800 J	32.50
	LL037021B		UNKNOWN (33.10)	710 J	33.10
	LL037021B		UNKNOWN (37.30)	800 J	37.30
<b>LL122987</b>					
	LL007036B		UNKNOWN (20.20)	300 J	20.20
	LL007036B		UNKNOWN (21.10)	200 J	21.10
	LL007036B		UNKNOWN (25.30)	310 J	25.30
	LL037032B		UNKNOWN (18.00)	160 J	18.00
	LL037032B		UNKNOWN (25.20)	170 J	25.20
	LL037032B		UNKNOWN (27.20)	930 J	27.20
	LL037032B		UNKNOWN (30.10)	350 J	30.10
	LL037032B		UNKNOWN (36.30)	690 J	36.30



TABLE D.7.1 DIRECTORY FOR VOLATILE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
1	LL001018A	0810	D.7.11 (D-480)
1	LL001029A	0810	D.7.11 (D-482)
1	LL001030A	0811	D.7.12 (D-485)
1	LL001041B	0808	D.7.9 (D-472)
1	LL002019A	0808	D.7.9 (D-471)
1	LL002019A	0811	D.7.12 (D-486)
1	LL002020A	0811	D.7.12 (D-485)
1	LL002031A	0812	D.7.13 (D-489)
1	LL003010A	0821	D.7.21 (D-524)
1	LL003021A	0821	D.7.21 (D-524)
1	LL003032A	0826	D.7.26 (D-544)
1	LL003043A	0812	D.7.13 (D-490)
1	LL004011A	0812	D.7.13 (D-490)
1	LL004022A	0812	D.7.13 (D-490)
1	LL004033A	0812	D.7.13 (D-490)
1	LL004044A	0812	D.7.13 (D-490)
1	LL005012A	0827	D.7.27 (D-548)
1	LL005023A	0826	D.7.26 (D-544)
1	LL005034A	0816	D.7.17 (D-508)
1	LL006013A	0816	D.7.17 (D-508)
1	LL006024A	0814	D.7.15 (D-500)
1	LL006035A	0814	D.7.15 (D-500)
1	LL006046A	0812	D.7.13 (D-489)
1	LL007014A	0821	D.7.21 (D-523)
1	LL007025A	0827	D.7.27 (D-547)
1	LL007036A	0827	D.7.27 (D-547)
1	LL008026A	0814	D.7.15 (D-500)
1	LL008037A	0814	D.7.15 (D-499)
1	LL009016A	0828	D.7.28 (D-552)
1	LL009027A	0828	D.7.28 (D-552)
1	LL009038A	0828	D.7.28 (D-552)
1	LL011010A	0829	D.7.29 (D-556)
1	LL011021A	0829	D.7.29 (D-556)
1	LL011032A	0829	D.7.29 (D-556)
1	SN001019A	0830	D.7.30 (D-560)
1	SN001020A	0830	D.7.30 (D-560)
1	SN001031A	0830	D.7.30 (D-560)
1	SN001042A	0822	D.7.22 (D-528)
1	SN002010A	0830	D.7.30 (D-560)
1	SN002021A	0831	D.7.31 (D-563)
1	SN002032A	0831	D.7.31 (D-563)
1	SN003011A	0831	D.7.31 (D-564)
1	SN003022A	0831	D.7.31 (D-564)
1	SN003033A	0831	D.7.31 (D-564)
1	SN004012A	0910	D.7.37 (D-587)
1	SN004023A	0910	D.7.37 (D-588)
1	SN004034A	0910	D.7.37 (D-588)
2	LL012340A	0809	D.7.10 (D-476)
2	LL012351A	0911	D.7.38 (D-592)
2	LL012362A	0913	D.7.40 (D-600)
2	LL012373A	G912	D.7.6 (D-462)

TABLE D.7.1 DIRECTORY FOR VOLATILE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
2	LL012384A	0913	D.7.40 (D-600)
2	LL012395A	G913	D.7.7 (D-466)
2	LL012408A	0809	D.7.10 (D-476)
2	LL012419A	G911	D.7.5 (D-458)
2	LL012420A	G912	D.7.6 (D-461)
2	LL012464A	G912	D.7.6 (D-462)
2	LL012475A	0913	D.7.40 (D-600)
2	LL012486A	G913	D.7.7 (D-465)
2	LL012497A	0912	D.7.39 (D-596)
2	LL012500A	G913	D.7.7 (D-466)
2	LL012511A	0913	D.7.40 (D-600)
2	LL012522A	0808	D.7.9 (D-472)
2	LL012544A	0913	D.7.40 (D-599)
2	LL012555A	0809	D.7.10 (D-476)
2	LL012577A	0912	D.7.39 (D-596)
2	LL012588A	0809	D.7.10 (D-475)
2	LL012599A	0815	D.7.16 (D-503)
2	LL012602A	0912	D.7.39 (D-596)
2	LL012613A	G912	D.7.6 (D-462)
2	LL012624A	0913	D.7.40 (D-600)
2	LL012635A	G913	D.7.7 (D-466)
2	LL012646A	0912	D.7.39 (D-595)
2	LL012657A	0913	D.7.40 (D-600)
2	LL012668A	G913	D.7.7 (D-466)
2	LL012715A	0809	D.7.10 (D-476)
2	LL012737A	0809	D.7.10 (D-475)
2	LL012759A	0808	D.7.9 (D-472)
2	LL012771A	0809	D.7.10 (D-476)
2	LL012793A	0808	D.7.9 (D-472)
2	LL012817A	G911	D.7.5 (D-458)
2	LL012828A	0815	D.7.16 (D-503)
2	LL012839A	G911	D.7.5 (D-458)
2	LL012840A	0911	D.7.38 (D-592)
2	LL012851A	0815	D.7.16 (D-504)
2	LL012862A	0815	D.7.16 (D-504)
2	LL012873A	G911	D.7.5 (D-458)
2	LL012884A	G911	D.7.5 (D-457)
2	LL012895A	0815	D.7.16 (D-504)
2	LL012908A	0815	D.7.16 (D-504)
2	LL012919A	0912	D.7.39 (D-596)
2	LL012920A	G912	D.7.6 (D-462)
2	LL012931A	G912	D.7.6 (D-462)
2	LL012942A	0912	D.7.39 (D-596)
2	LL012953A	0912	D.7.39 (D-595)
2	LL012964A	G911	D.7.5 (D-458)
2	LL012975A	0913	D.7.40 (D-599)
2	LL012986A	0912	D.7.39 (D-596)
2	LL012997A	G912	D.7.6 (D-461)
2	LL912010A	G912	D.7.6 (D-462)
2	LL912065A	0817	D.7.18 (D-512)
2	LL912076A	0817	D.7.18 (D-511)
2	LL912098A	0817	D.7.18 (D-512)

TABLE D.7.1 DIRECTORY FOR VOLATILE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
2	LL912112A	0818	D.7.19 (D-515)
2	LL912134A	0817	D.7.18 (D-511)
2	LL912156A	0817	D.7.18 (D-512)
2	LL912178A	0817	D.7.18 (D-512)
2	LL912189A	0818	D.7.19 (D-516)
2	LL912190A	0818	D.7.19 (D-516)
2	LL912203A	0818	D.7.19 (D-516)
2	LL912214A	0818	D.7.19 (D-516)
2	LL912225A	0818	D.7.19 (D-516)
2	LL912236A	0818	D.7.19 (D-516)
2	LL912247A	0819	D.7.20 (D-520)
2	LL912258A	0819	D.7.20 (D-520)
2	LL912269A	0819	D.7.20 (D-520)
2	LL912270A	0819	D.7.20 (D-520)
2	LL912281A	0819	D.7.20 (D-520)
2	LL912292A	0819	D.7.20 (D-520)
2	LL912305A	0821	D.7.21 (D-523)
2	LL912316A	0822	D.7.22 (D-528)
2	LL912327A	0823	D.7.23 (D-532)
2	LL912338A	0823	D.7.23 (D-532)
2	LL912349A	0823	D.7.23 (D-531)
2	LL912350A	0825	D.7.25 (D-539)
2	LL912361A	0823	D.7.23 (D-532)
2	LL912372A	0823	D.7.23 (D-532)
2	LL912383A	0822	D.7.22 (D-528)
2	LL912394A	0823	D.7.23 (D-532)
2	LL912407A	0823	D.7.23 (D-532)
2	LL912418A	0824	D.7.24 (D-535)
2	LL912429A	0822	D.7.22 (D-528)
2	LL912430A	0823	D.7.23 (D-531)
2	SN005013A	0822	D.7.22 (D-527)
2	SN005024A	0822	D.7.22 (D-527)
2	SN005035A	0822	D.7.22 (D-528)
2	SN005057A	0822	D.7.22 (D-528)
3	LL013012A	0829	D.7.29 (D-556)
3	LL013023A	0829	D.7.29 (D-556)
3	LL013034A	0830	D.7.30 (D-559)
3	SN006014A	0816	D.7.17 (D-507)
3	SN006025A	0816	D.7.17 (D-507)
3	SN006036A	0816	D.7.17 (D-508)
3	SN006047A	0816	D.7.17 (D-508)
4	LL014013A	0808	D.7.9 (D-472)
4	LL015014A	0809	D.7.10 (D-476)
4	LL015025A	0810	D.7.11 (D-479)
4	LL016015A	0825	D.7.25 (D-540)
4	LL017016A	0825	D.7.25 (D-540)
4	LL018017A	0826	D.7.26 (D-543)
4	LL019018A	0826	D.7.26 (D-543)
4	LL020011A	0824	D.7.24 (D-536)
4	LL021012A	0824	D.7.24 (D-535)
4	LL022013A	0808	D.7.9 (D-471)
4	LL022024A	0808	D.7.9 (D-472)

TABLE D.7.1 DIRECTORY FOR VOLATILE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER (PG)
4	LL024015A	0824	D.7.24 (D-536)
4	LL025016A	0824	D.7.24 (D-536)
4	LL025027A	0824	D.7.24 (D-536)
4	LL026017A	0824	D.7.24 (D-536)
4	SN007015A	0910	D.7.37 (D-588)
4	SN007026A	0910	D.7.37 (D-588)
4	SN007037A	0910	D.7.37 (D-588)
4	SN007048A	0910	D.7.37 (D-588)
4	SN007059A	0911	D.7.38 (D-591)
4	SN007060A	0911	D.7.38 (D-591)
4	SN008016A	0909	D.7.36 (D-584)
4	SN008027A	0909	D.7.36 (D-584)
4	SN008038A	0909	D.7.36 (D-584)
4	SN008049A	0825	D.7.25 (D-540)
4	SN009017A	0911	D.7.38 (D-592)
4	SN009028A	0911	D.7.38 (D-592)
4	SN009039A	0911	D.7.38 (D-592)
4	SN009040A	0911	D.7.38 (D-592)
4	SN010010A	0903	D.7.34 (D-575)
4	SN010021A	0903	D.7.34 (D-575)
4	SN010032A	0903	D.7.34 (D-576)
4	SN010043A	0903	D.7.34 (D-576)
4	SN010054A	0903	D.7.34 (D-576)
4	SN011011A	0909	D.7.36 (D-584)
4	SN011022A	0909	D.7.36 (D-584)
4	SN011033A	0910	D.7.37 (D-587)
6	LL028019A	0902	D.7.33 (D-572)
6	LL028020A	0902	D.7.33 (D-572)
6	LL028031A	0902	D.7.33 (D-572)
6	LL028042A	0902	D.7.33 (D-572)
6	LL029010A	0827	D.7.27 (D-548)
6	LL029021A	0827	D.7.27 (D-548)
6	LL029032A	0827	D.7.27 (D-548)
6	LL030013A	0827	D.7.27 (D-548)
6	LL030024A	0827	D.7.27 (D-548)
6	LL030035A	0828	D.7.28 (D-551)
6	LL030046A	0828	D.7.28 (D-551)
6	LL031014A	0831	D.7.31 (D-564)
6	LL031025A	0831	D.7.31 (D-564)
6	LL031036A	0831	D.7.31 (D-564)
6	LL031047A	0901	D.7.32 (D-567)
6	LL031058A	0901	D.7.32 (D-567)
6	LL031069A	0901	D.7.32 (D-568)
6	LL031070A	0901	D.7.32 (D-568)
6	LL031081A	0901	D.7.32 (D-568)
6	LL031092A	0901	D.7.32 (D-568)
6	LL031105A	0901	D.7.32 (D-568)
6	LL031116A	0901	D.7.32 (D-568)
6	LL031127A	0902	D.7.33 (D-571)
6	LL031149A	0902	D.7.33 (D-571)
6	LL031150A	0902	D.7.33 (D-572)
6	LL031161A	0902	D.7.33 (D-572)

TABLE D.7.1 DIRECTORY FOR VOLATILE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER (PG)
6	LL032015A	0903	D.7.34 (D-576)
6	LL032026A	0903	D.7.34 (D-576)
6	LL032037A	0903	D.7.34 (D-576)
6	LL032071A	0904	D.7.35 (D-579)
6	LL032082A	0904	D.7.35 (D-579)
6	LL032093A	0904	D.7.35 (D-580)
6	LL032106A	0904	D.7.35 (D-580)
6	LL032117A	0904	D.7.35 (D-580)
6	LL032128A	G908	D.7.4 (D-453)
6	LL032139A	G908	D.7.4 (D-453)
6	LL032140A	G908	D.7.4 (D-454)
6	LL032151A	G904	D.7.3 (D-449)
6	LL032253A	0824	D.7.24 (D-536)
6	LL033016A	0813	D.7.14 (D-493)
6	LL033027A	0813	D.7.14 (D-494)
6	LL033038A	0813	D.7.14 (D-494)
7	LL034017A	G904	D.7.3 (D-449)
7	LL034028A	G904	D.7.3 (D-450)
7	LL034039A	G904	D.7.3 (D-450)
7	LL034040A	G904	D.7.3 (D-450)
7	LL034051A	G908	D.7.4 (D-454)
7	LL034062A	G908	D.7.4 (D-454)
7	LL034073A	G908	D.7.4 (D-454)
7	LL034084A	G908	D.7.4 (D-454)
7	LL034095A	G908	D.7.4 (D-454)
7	LL034108A	0909	D.7.36 (D-583)
7	LL034119A	0909	D.7.36 (D-583)
7	LL034120A	0909	D.7.36 (D-584)
7	LL034131A	0825	D.7.25 (D-539)
9	LL036019A	0830	D.7.30 (D-559)
9	LL036020A	0830	D.7.30 (D-560)
9	LL036031A	0830	D.7.30 (D-560)
9	LL036042A	0816	D.7.17 (D-508)
9	LL036053A	0814	D.7.15 (D-500)
9	LL036064A	0814	D.7.15 (D-500)
9	LL036075A	0829	D.7.29 (D-555)
9	LL036086A	0829	D.7.29 (D-555)
9	LL036097A	0829	D.7.29 (D-556)
9	LL036133A	0828	D.7.28 (D-552)
9	LL036144A	0828	D.7.28 (D-552)
9	LL036155A	0828	D.7.28 (D-552)
10	LL037010A	0826	D.7.26 (D-544)
10	LL037021A	0821	D.7.21 (D-524)
10	LL037032A	0821	D.7.21 (D-524)
10	LL038011A	0917	D.7.41 (D-604)
10	LL038022A	0917	D.7.41 (D-603)
10	LL038033A	0917	D.7.41 (D-603)
10	LL038055A	0917	D.7.41 (D-604)
11	LL039012A	0813	D.7.14 (D-494)
11	LL039023A	0813	D.7.14 (D-496)
11	LL039034A	0813	D.7.14 (D-496)
11	LL039045A	0814	D.7.15 (D-499)

TABLE D.7.1 DIRECTORY FOR VOLATILE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
99	LLN02013A	0808	D.7.9 (D-471)
99	LLN05016A	0810	D.7.11 (D-479)
99	LLN07018A	0810	D.7.11 (D-480)
99	LLN09010A	0812	D.7.13 (D-490)
99	LLN12015A	G911	D.7.5 (D-457)
99	LLN14017A	0819	D.7.20 (D-519)
99	LLN15018A	0818	D.7.19 (D-515)
99	LLN19012A	0819	D.7.20 (D-519)
99	LLN23018A	G913	D.7.7 (D-465)
99	LLN27012A	0825	D.7.25 (D-540)
99	LLN29014A	0825	D.7.25 (D-540)
99	LLN31018A	0825	D.7.25 (D-540)
99	LLN33010A	0826	D.7.26 (D-544)

TABLE D.7.2 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G901

AREA	QA	QA	QA	QA
LOCATION	TUNED	ISTD	RET TIM	INITIAL CAL
TYPE OF LOCATION	CALIBRATION	SHIFT	RRF	% RSD
SAMPLE NUMBER	LL0901875	LL0901878	LL0901876	LL0901876
MATRIX	WATER	WATER	WATER	WATER
UNITS	%	AREA	RRF	%
ENV PROBLEM NO				
ACETONE			0.729	32.4
BENZENE			0.862	6.5
BROMODICHLOROMETHANE			0.74	6.2
BROMOFLUOROBENZENE			0.84	2.1
BROMOFORM			0.52	14.3
BROMOMETHANE			0.896	51.1
CARBON DISULFIDE			3.148	7.1
CARBON TETRACHLORIDE			0.83	4.8
CHLOROBENZENE			1.072	3.5
CHLOROETHANE			0.948	7.6
CHLOROFORM			3.723	5.3
CHLORMETHANE			1.285	8.7
CIS-1,3-DICHLOROPROPENE			0.434	6.3
DIBROMOCHLOROMETHANE			0.566	8.4
ETHYLBENZENE			0.536	2.5
METHYLENE CHLORIDE			1.688	1.9
STYRENE			1.062	3.7
TETRACHLOROETHENE			0.558	3.6
TOLUENE			0.81	2.5
TOLUENE-D8			1.239	2.1
TRANS-1,3-DICHLOROPROPENE			0.743	5.8
TRICHLOROETHENE			0.457	5.3
VINYL ACETATE			0.434	44.1
VINYL CHLORIDE			1.377	14.5
XYLENE (TOTAL)			0.639	1.3
1,1-DICHLOROETHANE			2.344	4.6
1,1-DICHLOROETHENE			1.192	4.3
1,1,1-TRICHLOROETHANE			0.845	3.5
1,1,2-TRICHLOROETHANE			0.328	4.2
1,1,2,2-TETRACHLOROETHANE			0.564	6.3
1,2-DICHLOROETHANE			3.5	3
1,2-DICHLOROETHANE-D4			2.918	5.3
1,2-DICHLOROETHENE			1.358	4.8
1,2-DICHLOROPROPANE			0.258	6.5
2-BUTANONE			0.031	6.6
2-HEXANONE			0.261	3.6
4-METHYL-2-PENTANONE			0.36	2.9

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TABLE D.7.2 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G901

AREA	QA	QA	QA	QA	INITIAL CAL	INITIAL CAL
LOCATION	TUNED	ISTD	RET	TIM	% RSD	%
TYPE OF LOCATION	CALIBRATION	SHIFT	RRF	RRF	LL0901876	LL0901876
SAMPLE NUMBER	LL0901875	LL0901878	LL0901876	LL0901876	WATER	WATER
MATRIX	WATER	WATER	WATER	WATER		
UNITS	%	AREA	RRF	RRF		
ENV PROBLEM NO						
M/E 75		58				
M/E 95		100				
M/E 96		6.8				
M/E 173-1		0				
M/E 173-2		0				
M/E 174		73				
M/E 175-1		6.5				
M/E 175-2		8.8				
M/E 176-1		71				
M/E 176-2		97				
M/E 177-1		4.1				
M/E 177-2		5.8				
INTERNAL STD AREA(BCM)			2130000			
INTERNAL STD AREA(CBZ)			7870000			
INTERNAL STD AREA(DFB)			9150000			
DILUTION FACTOR						
PERCENT MOISTURE						
ACTUAL(ALLOWED) HOLD TIME						

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TABLE D.7.3 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G904

AREA	QA	QA	QA	QA	QA	ISTD	RET	TIM	METHOD	DRUM	RACK	BURN PIT
LOCATION	TUNED	CONTINUING	CONTINUING	SHIFT	BLANK	SUMP				PITS		
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	LL0904878	VBKG904	LL032151A				LL034017A		
SAMPLE NUMBER	LL0904875	LL0904877	LL0904877	WATER	WATER	WATER				SOIL		
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER				SOIL		
UNITS	%	RRF	%	AREA	UG/L	UG/KG				UG/KG		
ENV PROBLEM NO						6				7		
ACETONE		0.818	12.3				15		180 B		70 B	
BENZENE		0.484	43.8				5 U		7		6 UU	
BROMODICHLOROMETHANE		0.487	34.2				5 U		5 U		6 UU	
BROMOFLUOROBENZENE		0.878	4.6									
BROMOFORM		0.271	47.9				5 U		5 U		6 UU	
BROMOMETHANE		0.948	5.7				10 UU		11 UU		13 UU	
CARBON DISULFIDE		1.512	52				5 UU		5 UU		6 UU	
CARBON TETRACHLORIDE		0.539	35				5 UU		5 UU		6 UU	
CHLOROBENZENE		0.601	44				10 UU		11 UU		13 UU	
CHLOROETHANE		0.619	34.7				10 UU		5 UU		6 UU	
CHLOROFORM		2.349	36.9				10 UU		5 UU		6 UU	
CHLOROMETHANE		0.434	66.2				10 UU		11 UU		13 UU	
CIS-1,3-DICHLOROPROPENE		0.294	32.3				10 UU		5 UU		6 UU	
DIBROMOCHLOROMETHANE		0.358	36.7				10 UU		5 UU		6 UU	
ETHYLBENZENE		0.295	45				10 UU		5 UU		6 UU	
METHYLENE CHLORIDE		1.19	29.5				4 UU		85 B		33 B	
STYRENE		0.608	42.7				4 UU		5 UU		6 UU	
TETRACHLOROETHENE		0.301	46.2				4 UU		5 UU		6 UU	
TOLUENE		0.451	44.3				5 UU		11		17	
TOLUENE-D8		1.122	9.4									
TRANS-1,3-DICHLOROPROPENE		0.471	36.6				5 UU		5 UU		6 UU	
TRICHLOROETHENE		0.268	41.4				5 UU		5 UU		6 UU	
VINYL ACETATE		0.271	37.5				10 UU		11 UU		13 UU	
VINYL CHLORIDE		0.873	36.6				10 UU		11 UU		13 UU	
XYLENE (TOTAL)		0.354	44.6				10 UU		5 UU		6 UU	
1,1-DICHLOROETHANE		1.32	43.7				69 UU		5 UU		6 UU	
1,1-DICHLOROETHENE		0.663	44.4				69 UU		5 UU		6 UU	
1,1,1-TRICHLOROETHANE		0.557	34.1				69 UU		5 UU		6 UU	
1,1,2-TRICHLOROETHANE		0.201	38.6				69 UU		5 UU		6 UU	
1,1,2,2-TETRACHLOROETHANE		0.32	43.3				69 UU		5 UU		6 UU	
1,2-DICHLOROETHANE		2.309	34				69 UU		5 UU		6 UU	
1,2-DICHLOROETHANE-D4		2.883	1.2				69 UU		5 UU		6 UU	
1,2-DICHLOROETHENE		0.757	44.3				69 UU		5 UU		6 UU	
1,2-DICHLOROPROPANE		0.15	41.8				69 UU		5 UU		6 UU	
2-BUTANONE		0	100				10 UU		11 UU		13 UU	
2-HEXANONE		0.183	29.9				10 UU		11 UU		13 UU	
4-METHYL-2-PENTANONE		0.194	46.2				10 UU		11 UU		13 UU	

SURR 1(TOL) %RECOVERY

99

118 \*

122 \*

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TABLE D.7.3 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G904

AREA	QA	QA	QA	QA	QA	DRUM RACK	BURN PIT
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIM	SUMP
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT		BLANK	PITS
SAMPLE NUMBER	LL0904875	LL0904877	LL0904877	LL0904878		VBK904	LL032151A
MATRIX	WATER	WATER	WATER	WATER		WATER	SOIL
UNITS	%	RRF	%	AREA		UG/L	UG/KG
ENV PROBLEM NO						6	7
SURR 2(BFB) %RECOVERY						99	99
SURR 3(DCE) %RECOVERY						87	105
M/E 50	23						
M/E 75	62						
M/E 95	100						
M/E 96	6.8						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	85						
M/E 175-1	6.4						
M/E 175-2	7.6						
M/E 176-1	86						
M/E 176-2	101						
M/E 177-1	5.2						
M/E 177-2	6						
INTERNAL STD AREA(BCM)				1180000		925000	944000
INTERNAL STD AREA(CBZ)				4260000		2480000	2950000
INTERNAL STD AREA(DFB)				4860000		3860000	4130000
DILUTION FACTOR					1	1.06	1.3
PERCENT MOISTURE						6	22.8
ACTUAL(ALLOWED) HOLD TIME						25(14 D)	25(14 D)
AREA							
LOCATION	BURN PIT	BURN PIT	BURN PIT				
TYPE OF LOCATION	PITS	PITS	PITS				
SAMPLE NUMBER	LL034028A	LL034039A	LL034040A				
MATRIX	SOIL	SOIL	SOIL				
UNITS	UG/KG	UG/KG	UG/KG				
ENV PROBLEM NO	7	7	7				
ACETONE	10 U	82 B	230 BE				
BENZENE	4 J	5 U	24				
BROMODICHLOROMETHANE	5 U	5 U	5 U				

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TABLE D.7.3 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 9904

AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034028A SOIL UG/KG 7	BURN PIT PITS LL034039A SOIL UG/KG 7	BURN PIT PITS LL034040A SOIL UG/KG 7
BROMOFLUOROBENZENE			
BROMOFORM	5 U	5 U	5 U
BROMOMETHANE	10 U	11 U	11 U
CARBON DISULFIDE	55 U	55 U	55 U
CARBON TETRACHLORIDE	55 U	55 U	55 U
CHLOROBENZENE	55 U	55 U	55 U
CHLOROETHANE	105 U	115 U	115 U
CHLOROFORM	105 U	115 U	115 U
CHLOROMETHANE	105 U	115 U	115 U
CIS-1,3-DICHLOROPROPENE	55 U	55 U	55 U
DIBROMOCHLOROMETHANE	55 U	55 U	55 U
ETHYL BENZENE	55 U	55 U	55 U
METHYLENE CHLORIDE	50 B	85 B	320 B
STYRENE	55 U	55 U	68
TETRACHLOROETHENE	55 U	55 U	55 U
TOLUENE	9	55	55
TOLUENE-D8			
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U
TRICHLOROETHENE	55 U	55 U	55 U
VINYL ACETATE	10 U	11 U	11 U
VINYL CHLORIDE	10 U	11 U	11 U
XYLENE (TOTAL)			
1,1-DICHLOROETHANE	55 U	55 U	55 U
1,1-DICHLOROETHENE	55 U	55 U	55 U
1,1,1-TRICHLOROETHANE	55 U	55 U	31
1,1,2-TRICHLOROETHANE	55 U	55 U	55 U
1,1,2,2-TETRACHLOROETHANE	55 U	55 U	55 U
1,2-DICHLOROETHANE	5	5	5
1,2-DICHLOROETHANE-D4	5 U	5 U	5 U
1,2-DICHLOROETHENE	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U
2-BUTANONE	10 U	11 U	11 U
2-HEXANONE	10 U	11 U	11 U
4-METHYL-2-PENTANONE	10 U	11 U	11 U
SURR 1(TOL) %RECOVERY	118 *	120 *	153 *
SURR 2(BFB) %RECOVERY	99	93	89
SURR 3(DCE) %RECOVERY	100	115	112

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M/E 50

TABLE D.7.3 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G904

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AREA

LOCATION	BURN PIT	BURN PIT	BURN PIT
TYPE OF LOCATION	PITS	PITS	PITS
SAMPLE NUMBER	LL034028A	LL034039A	LL034040A
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	7	7	7
M/E 75			
M/E 95			
M/E 96			
M/E 173-1			
M/E 173-2			
M/E 174			
M/E 175-1			
M/E 175-2			
M/E 176-1			
M/E 176-2			
M/E 177-1			
M/E 177-2			
INTERNAL STD AREA(BCM)	894000	785000	556000
INTERNAL STD AREA(CBZ)	2850000	2500000	1220000
INTERNAL STD AREA(DFB)	3980000	3350000	2090000
DILUTION FACTOR	1.02	1.08	1.08
PERCENT MOISTURE	2	7	7.4
ACTUAL(ALLOWED) HOLD TIME	25(14 D)	25(14 D)	25(14 D)

TABLE D.7.4 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G908

AREA	QA	QA	QA	QA	QA	QA	DRUM RACK	DRUM RACK
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	RET TIM	METHOD	SUMP	SUMP
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL ID	LL0908878	BLANK	WATER	LL032128A	LL032139A
SAMPLE NUMBER	LL0908875	LL0908877	LL0908877	VBKG908	WATER	WATER	SOIL	SOIL
MATRIX	WATER	WATER	WATER	WATER	UG/L	UG/KG	UG/KG	UG/KG
UNITS	X	RRF	X	AREA			6	6
ENV PROBLEM NO								
D-453								
ACETONE	0.889	22		18	180	B	91	B
BENZENE	0.769	10.8		5	5	U	5	U
BROMODICHLOROMETHANE	0.679	8.3		5	5	U	5	U
BROMOFLUOROBENZENE	0.902	7.4		5	5	U	5	U
BROMOFORM	0.423	18.7		5	5	U	5	U
BROMOMETHANE	1.083	20.8		10	11	U	11	U
CARBON DISULFIDE	2.186	30.6		5	5	U	5	U
CARBON TETRACHLORIDE	0.718	13.5		5	5	U	5	U
CHLOROBENZENE	1.022	4.7		5	5	U	5	U
CHLOROETHANE	0.831	12.4		10	11	U	11	U
CHLOROFORM	3.394	8.8		5	5	U	5	U
CHLORMETHANE	0.629	51.1		10	11	U	11	U
CIS-1,3-DICHLOROPROPENE	0.407	6.4		5	5	U	5	U
DIBROMOCHLOROMETHANE	0.536	5.4		5	5	U	5	U
ETHYLBENZENE	0.514	4.4		5	5	U	5	U
METHYLENE CHLORIDE	1.683	0.2		10	19	U	17	U
STYRENE	1.037	2.4		5	5	U	5	U
TETRACHLOROETHENE	0.53	5.1		5	5	U	5	U
TOLEUNE	0.767	5.3		5	5	U	5	U
TOLUENE-D8	1.268	2.3		5	5	U	5	U
TRANS-1,3-DICHLOROPROPENE	0.676	9.1		5	5	U	5	U
TRICHLOROETHENE	0.426	6.9		5	5	U	5	U
VINYL ACETATE	0.413	4.9		10	11	U	11	U
VINYL CHLORIDE	1.03	25.2		10	11	U	11	U
XYLENE (TOTAL)	0.598	6.4		5	5	U	5	U
1,1-DICHLOROETHANE	1.969	16		5	5	U	5	U
1,1-DICHLOROETHENE	0.977	18		5	5	U	5	U
1,1,1-TRICHLOROETHANE	0.754	10.8		5	5	U	5	U
1,1,2-TRICHLOROETHANE	0.312	4.9		5	5	U	5	U
1,1,2,2-TETRACHLOROETHANE	0.316	44		5	5	U	5	U
1,2-DICHLOROETHANE	3.253	7		5	5	U	5	U
1,2-DICHLOROETHANE-D4	2.948	1		5	5	U	5	U
1,2-DICHLOROETHENE	1.162	14.4		5	5	U	5	U
1,2-DICHLOROPROPANE	0.223	13.4		5	5	U	5	U
2-BUTANONE	0.036	17.7		10	390	E	11	U
2-HEXANONE	0.294	12.7		10	11	U	11	U
4-METHYL-2-PENTANONE	0.334	7.3		10	11	U	11	U
SURR 1(TOL) %RECOVERY				131	*	131	*	109

TABLE D.7.4 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G908

AREA	QA	QA	QA	QA	QA	DRUM RACK	DRUM RACK
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	SUMP
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		SUMP
SAMPLE NUMBER	LL0908875	LL0908877	LL0908877	LL0908878	VPKG908		LL032128A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						6	6
SURR 2(BFB) %RECOVERY					94	72 *	83
SURR 3(DCE) %RECOVERY					98	101	93
M/E 50	21						
M/E 75	60						
M/E 95	100						
M/E 96	7						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	86						
M/E 175-1	7.7						
M/E 175-2	8.9						
M/E 176-1	84						
M/E 176-2	97						
M/E 177-1	7.5						
M/E 177-2	8.9						
INTERNAL STD AREA(BCM)				1380000	1260000	948000	1060000
INTERNAL STD AREA(CBZ)				5010000	4130000	2140000	2590000
INTERNAL STD AREA(DFB)				5950000	5200000	3900000	4090000
DILUTION FACTOR					1	1.07	1.06
PERCENT MOISTURE						6.9	5.6
ACTUAL(ALLOWED) HOLD TIME						29(14 D)	29(14 D)
AREA							
LOCATION	DRUM RACK	BURN PIT	BURN PIT	BURN PIT	BURN PIT	BURN PIT	BURN PIT
TYPE OF LOCATION	SUMP	PITS	PITS	PITS	PITS	PITS	PITS
SAMPLE NUMBER	LL032140A	LL034051A	LL034062A	LL034073A	LL034084A	LL034095A	LL034095A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	6	7	7	7	7	7	7
ACETONE	210 B	150 B	140 B	740 BE	480 BE	400 BE	
BENZENE	7	5 U	4 J	53	54	56	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	

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TABLE D.7.4 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G908

AREA	LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	DRUM RACK SUMP LL032140A	BURN PIT PITS LL034051A	BURN PIT PITS LL034062A	BURN PIT PITS LL034073A	BURN PIT PITS LL034084A	BURN PIT PITS LL034095A
		6	7	7	7	7	7
D-455	BROMOFLUOROBENZENE						
	BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U
	BROMOMETHANE	11 U	11 U	11 U	11 U	11 U	11 U
	CARBON DISULFIDE	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	CARBON TETRACHLORIDE	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	CHLOROBENZENE	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	CHLOROETHANE	11 UU	11 UU	11 UU	11 UU	11 UU	11 UU
	CHLOROFORM	11 UU	11 UU	11 UU	11 UU	11 UU	11 UU
	CHLOROMETHANE	11 UU	11 UU	11 UU	11 UU	11 UU	11 UU
	CIS-1,3-DICHLOROPROPENE	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	DIBROMOCHLOROMETHANE	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	ETHYLBENZENE	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	METHYLENE CHLORIDE	34 B	51 B	43 B	10 B	43 B	38 B
	STYRENE	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	TETRACHLOROETHENE	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	TOLUENE	5 U	5 U	9	30	35	58
	TOLUENE-D8						
	TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
	TRICHLOROETHENE	5 U	5 U	5 U	210 E	220 E	180 U
	VINYL ACETATE	11 U	11 U	11 U	11 U	11 U	11 U
	VINYL CHLORIDE	11 U	11 U	11 U	11 U	11 U	11 U
	XYLENE (TOTAL)	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	1,1-DICHLOROETHANE	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	1,1-DICHLOROETHENE	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	1,1,1-TRICHLOROETHANE	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	1,1,2-TRICHLOROETHANE	13 U	8 U	8 U	5 UU	5 UU	5 UU
	1,1,2,2-TETRACHLOROETHANE	5 UU	5 UU	5 UU	5 UU	5 UU	5 UU
	1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
	1,2-DICHLOROETHANE-D4						
	1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
	1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U
	2-BUTANONE	82	11 U				
	2-HEXANONE	11 U	11 U	11 U	11 U	11 U	11 U
	4-METHYL-2-PENTANONE	11 U	11 U	11 U	11 U	18	11 U
	SURR 1(TOL) %RECOVERY	116	128 *	133 *	154 *	135 *	246 *
	SURR 2(BFB) %RECOVERY	76	93	89	92	80	115
	SURR 3(DCE) %RECOVERY	96	99	107	101	101	98

M/E 50

TABLE D.7.4 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G908

## AREA

LOCATION	DRUM RACK	BURN PIT				
TYPE OF LOCATION	SUMP	PITS	PITS	PITS	PITS	PITS
SAMPLE NUMBER	LL032140A	LL034051A	LL034062A	LL034073A	LL034084A	LL034095A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	6	7	7	7	7	7
M/E 75						
M/E 95						
M/E 96						
M/E 173-1						
M/E 173-2						
M/E 174						
M/E 175-1						
M/E 175-2						
M/E 176-1						
M/E 176-2						
M/E 177-1						
M/E 177-2						
INTERNAL STD AREA(BCM)	980000	606000	765000	801000	897000	854000
INTERNAL STD AREA(CBZ)	2010000	1350000	1790000	1660000	2270000	1100000
INTERNAL STD AREA(DFB)	3690000	2270000	2900000	2940000	3630000	3300000
DILUTION FACTOR	1.06	1.08	1.08	1.08	1.06	1.08
PERCENT MOISTURE	5.7	7.4	7.4	7.8	5.9	7.7
ACTUAL(ALLOWED) HOLD TIME	29(14 D)	30(14 D)				

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TABLE D.7.5 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G911

AREA	QA	QA	QA	QA	QA	ISTD	RET	TIM	METHOD	TRIP	BLANK	BLDG.
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	RET	BLANK	TRIP	BLANK	BLDG.			
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	SHIFT	BLANK	TRIP	BLANK	BLDG.				
SAMPLE NUMBER	LL0911875	LL0911877	LL0911877	LL0911878	VPKG911	LLN12015A	WATER	WATER	SEWERS			
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER			
UNITS	RRF	%	AREA	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L			
ENV PROBLEM NO				99					2			
ACETONE	0.607	16.7			14		12	B	15	B		
BENZENE	0.826	4.2			5	U	5	U	5	U		
BROMODICHLOROMETHANE	0.904	22.2			5	U	5	U	5	U		
BROMOFLUOROBENZENE	0.884	5.3										
BROMOFORM	0.554	6.4			5	U	5	U	5	U		
BROMOMETHANE	1.355	51.1			10	U	10	U	10	U		
CARBON DISULFIDE	2.104	33.2			5	U	5	U	5	U		
CARBON TETRACHLORIDE	0.974	17.4			5	U	5	U	5	U		
CHLOROBENZENE	1.101	2.7			5	U	5	U	5	U		
CHLOROETHANE	0.905	4.6			10	U	10	U	10	U		
CHLOROFORM	3.88	4.2			5	U	5	U	5	U		
CHLOROMETHANE	0.643	50			10	U	10	U	10	U		
CIS-1,3-DICHLOROPROPENE	0.519	19.5			5	U	5	U	5	U		
DI-BROMOCHLOROMETHANE	0.721	27.4			5	U	5	U	5	U		
ETHYL BENZENE	0.554	3.3			10	U	10	U	10	U		
METHYLENE CHLORIDE	1.96	16.2			5	U	5	U	5	U		
STYRENE	1.09	2.6			10	U	10	U	10	U		
TETRACHLOROETHENE	0.568	1.7			5	U	5	U	5	U		
TOLUENE	0.8	1.2			5	U	5	U	5	U		
TOLUENE-D8	1.213	2.1			5	U	5	U	5	U		
TRANS-1,3-DICHLOROPROPENE	0.801	7.8			5	U	5	U	5	U		
TRICHLOROETHENE	0.442	3.2			5	U	5	U	5	U		
VINYL ACETATE	0.227	47.7			10	U	10	U	10	U		
VINYL CHLORIDE	1.052	23.6			10	U	10	U	10	U		
XYLENE (TOTAL)	0.631	1.2			10	U	10	U	10	U		
1,1-DICHLOROETHANE	2.159	7.9			5	U	5	U	5	U		
1,1,1-DICHLOROETHENE	0.991	16.9			5	U	5	U	5	U		
1,1,1-TRICHLOROETHANE	0.996	17.8			5	U	5	U	5	U		
1,1,2-TRICHLOROETHANE	0.368	12.2			5	U	5	U	5	U		
1,1,2,2-TETRACHLOROETHANE	0.635	12.6			5	U	5	U	5	U		
1,2-DICHLOROETHANE	3.962	13.2			5	U	5	U	5	U		
1,2-DICHLOROETHANE-D4	3.182	9			5	U	5	U	5	U		
1,2-DICHLOROETHENE	1.179	13.2			5	U	5	U	5	U		
1,2-DICHLOROPROpane	0.247	4.1			5	U	5	U	5	U		
2-BUTANONE	0.027	11.5			10	U	10	U	10	U		
2-HEXANONE	0.26	0.2			10	U	10	U	10	U		
4-METHYL-2-PENTANONE	0.345	4.4			10	U	10	U	10	U		
SURR 1(TOL) %RECOVERY					104		104		97			

TABLE D.7.5 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G911

AREA	QA	QA	QA	QA	QA	TRIP BLANK	BLDG. 131
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD SHIFT	TIM	BLANK	SEWERS
TYPE OF LOCATION	LL0911875	LL0911877	LL0911877	LL0911878	METHOD	TRIP BLANK	LL012884A
SAMPLE NUMBER	WATER	WATER	WATER	WATER	VBKG911	LLN12015A	WATER
MATRIX	%	RRF	%	AREA	WATER	WATER	WATER
UNITS					UG/L	UG/L	UG/L
ENV PROBLEM NO						99	2
SURR 2(BFB) %RECOVERY					100	99	92
SURR 3(DCE) %RECOVERY					94	101	91
M/E 50	25						
M/E 75	62						
M/E 95	100						
M/E 96	7.2						
M/E 173-1	3.3						
M/E 173-2	4.3						
M/E 174	77						
M/E 175-1	7.1						
M/E 175-2	9.3						
M/E 176-1	75						
M/E 176-2	97						
M/E 177-1	7.4						
M/E 177-2	9.9						
INTERNAL STD AREA(BCM)				1970000	2100000	1990000	2050000
INTERNAL STD AREA(CBZ)				6500000	6420000	7150000	7430000
INTERNAL STD AREA(DFB)				7910000	8390000	8840000	9120000
DILUTION FACTOR					1	1	1
PERCENT MOISTURE							
ACTUAL(ALLOWED) HOLD TIME					32(14 D)	36(14 D)	
AREA							
LOCATION	BLDG. 131	BLDG. 322	BLDG. 169	BLDG. 322	BLDG. 131		
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS		
SAMPLE NUMBER	LL012817A	LL012873A	LL012419A	LL012839A	LL012964A		
MATRIX	WATER	WATER	WATER	WATER	WATER		
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L		
ENV PROBLEM NO	2	2	2	2	2		
ACETONE	20 B	16 B	87 B	5 JB	11 B		
BENZENE	5 U	5 U	5 U	5 U	5 U		
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U		

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TABLE D.7.5 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G911

**AREA**

LOCATION	BLDG. 131	BLDG. 322	BLDG. 169	BLDG. 322	BLDG. 131
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL012817A	LL012873A	LL012419A	LL012839A	LL012964A
MATRIX	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L
ENV. PROBLEM NO.	2	2	2	2	2
BROMOFLUOROBENZENE					
BROMOFORM	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U				
CARBON DISULFIDE	5 U	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	10 U				
CHLOROFORM	15 U	16 U	19 U	19 U	19 U
CHLOROMETHANE	10 U				
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U
ETHYL BENZENE	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	14 B	2 JB	2 JB	2 JB	220 BE
STYRENE	15 U	25 U	25 U	25 U	25 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U
TOLUENE	5 U	5 U	5 U	5 U	5 U
TOLUENE-D8					
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U	5 U
VINYL ACETATE	10 U				
VINYL CHLORIDE	10 U				
XYLENE (TOTAL)	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	2 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	10 U				
2-HEXANONE	10 U				
4-METHYL-2-PENTANONE	10 U				
SURR 1(TOL) %RECOVERY	103	101	97	101	98
SURR 2(BFB) %RECOVERY	98	99	95	98	94
SURR 3(DCE) %RECOVERY	100	95	93	96	91

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TABLE D.7.5 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G911

AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 131 SEWERS LL012817A WATER UG/L 2	BLDG. 322 SEWERS LL012873A WATER UG/L 2	BLDG. 169 SEWERS LL012419A WATER UG/L 2	BLDG. 322 SEWERS LL012839A WATER UG/L 2	BLDG. 131 SEWERS LL012964A WATER UG/L 2
M/E 75					
M/E 95					
M/E 96					
M/E 173-1					
M/E 173-2					
M/E 174					
M/E 175-1					
M/E 175-2					
M/E 176-1					
M/E 176-2					
M/E 177-1					
M/E 177-2					
INTERNAL STD AREA(BCM)	1920000	2100000	2050000	1960000	2040000
INTERNAL STD AREA(CBZ)	7200000	7450000	7300000	6970000	7330000
INTERNAL STD AREA(DFB)	8680000	8900000	8860000	8530000	8930000
DILUTION FACTOR	1	1	1	1	1
PERCENT MOISTURE					
ACTUAL(ALLOWED) HOLD TIME	36(14 D)	36(14 D)	37(14 D)	37(14 D)	36(14 D)

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TABLE D.7.6 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G912

AREA	QA TUNED CALIBRATION LL0912875 WATER %	QA CONTINUING CALIBRATION LL0912877 WATER RRF	QA CONTINUING CAL X'D LL0912877 WATER %	QA ISTD SHIFT LL0912878 WATER AREA	RET TIM VBKG912	METHOD BLANK WATER UG/L	QA BLDG. 169 SEWERS LL012420A WATER UG/L 2	QA BLDG. 298 SEWERS LL012997A WATER UG/L 2
ACETONE	0.788	8.1		10 J		17 B	11 B	
BENZENE	0.721	16.3		5 U		5 U	5 U	
BROMODICHLOROMETHANE	0.8	8.2		5 U		5 U	5 U	
BROMOFLUOROBENZENE	0.903	7.5		5 U		5 U	5 U	
BROMOFORM	0.472	9.2		5 U		5 U	5 U	
BROMOMETHANE	1.15	28.3		10 U		10 U	10 U	
CARBON DISULFIDE	1.731	45		5 U		5 U	5 U	
CARBON TETRACHLORIDE	0.895	7.9		5 U		5 U	5 U	
CHLOROBENZENE	1.013	5.5		5 U		5 U	5 U	
CHLOROETHANE	0.727	23.3		10 U		10 U	10 U	
CHLOROFORM	3.65	2		5 U		5 U	5 U	
CHLOROMETHANE	0.475	63.1		10 U		10 U	10 U	
CIS-1,3-DICHLOROPROPENE	0.475	9.4		5 U		5 U	5 U	
DIBROMOCHLOROMETHANE	0.619	9.2		5 U		5 U	5 U	
ETHYL BENZENE	0.532	0.7		5 U		5 U	5 U	
METHYLENE CHLORIDE	1.772	5		22 U	JB	22 U	22 U	
STYRENE	1.083	2		5 U		5 U	5 U	
TETRACHLOROETHENE	0.537	3.8		5 U		5 U	5 U	
TOLUENE	0.749	7.4		5 U		5 U	5 U	
TOLUENE-D8	1.25	0.8		5 U		5 U	5 U	
TRANS-1,3-DICHLOROPROPENE	0.724	2.7		5 U		5 U	5 U	
TRICHLOROETHENE	0.418	8.5		5 U		5 U	5 U	
VINYL ACETATE	0.376	13.3		10 U		10 U	10 U	
VINYL CHLORIDE	0.833	39.5		10 U		10 U	10 U	
XYLENE (TOTAL)	0.646	1.1		5 U		5 U	5 U	
1,1-DICHLOROETHANE	1.97	15.9		5 U		5 U	5 U	
1,1-DICHLOROETHENE	0.879	26.2		5 U		5 U	5 U	
1,1,1-TRICHLOROETHANE	0.913	8		5 U		5 U	5 U	
1,1,2-TRICHLOROETHANE	0.313	4.5		5 U		5 U	5 U	
1,1,2,2-TETRACHLOROETHANE	0	100		5 U		5 U	5 U	
1,2-DICHLOROETHANE	3.69	5.4		5 U		5 U	5 U	
1,2-DICHLOROETHANE-D4	3.197	9.6		5 U		5 U	5 U	
1,2-DICHLOROETHENE	1.114	18		5 U		5 U	5 U	
1,2-DICHLOROPROPANE	0.226	12.4		5 U		5 U	5 U	
2-BUTANONE	0.036	15.7		10 U		10 U	10 U	
2-HEXANONE	0.293	12.4		10 U		10 U	10 U	
6-METHYL-2-PENTANONE	0.308	14.6		10 U		10 U	10 U	
SURR 1(TOL) %RECOVERY						97	98	97

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TABLE D.7.6 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G912

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AREA	QA	QA	QA	QA	QA	BLDG. 169	BLDG. 298
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	METHOD	SEWERS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		SEWERS
SAMPLE NUMBER	LL0912875	LL0912877	LL0912877	LL0912878	VBKG912		LL012420A
MATRIX	WATER	WATER	WATER	WATER	WATER		WATER
UNITS	%	RRF	%	AREA	UG/L		UG/L
ENV PROBLEM NO					2		2
SURR 2(BFB) %RECOVERY				102	97	95	
SURR 3(DCE) %RECOVERY				95	97	94	
M/E 50	21						
M/E 75	58						
M/E 95	100						
M/E 96	5.8						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	84						
M/E 175-1	7.1						
M/E 175-2	8.5						
M/E 176-1	82						
M/E 176-2	98						
M/E 177-1	8.2						
M/E 177-2	9.9						
INTERNAL STD AREA(BCM)			1860000	1910000	1870000	1790000	
INTERNAL STD AREA(CBZ)			6620000	6510000	6910000	6590000	
INTERNAL STD AREA(DFB)			7790000	7940000	8180000	8190000	
DILUTION FACTOR				1	1	1	
PERCENT MOISTURE							
ACTUAL(ALLOWED) HOLD TIME				36(14 D)	36(14 D)		
AREA							
LOCATION	BLDG. 322	BLDG. 321	BLDG. 222	BLDG. 331	BLDG. 298	BLDG. 151	
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	
SAMPLE NUMBER	LL012931A	LL012920A	LL012464A	LL012613A	LL912010A	LL012373A	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	2	2	2	2	2	2	
ACETONE	3 JB	14 B	35 B	4 JB	46 B	17 B	
BENZENE	5 U	5 U	5 U	5 U	5 U	5 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	

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TABLE D.7.6 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G912

## AREA

LOCATION	BLDG. 322	BLDG. 321	BLDG. 222	BLDG. 331	BLDG. 298	BLDG. 151
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL012931A	LL012920A	LL012464A	LL012613A	LL912010A	LL012373A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2	2	2

BROMOFLUOROBENZENE						
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U					
CARBON DISULFIDE	5 U	5 U	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	10 U					
CHLOROFORM	18	19	10	22	10	11
CHLOROMETHANE	10 U					
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	2 JB	3 JB	3 JB	2 JB	4 JB	4 JB
STYRENE	25	25	25	25	25	25
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
TOLUENE	5 U	5 U	5 U	5 U	5 U	5 U
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
VINYL ACETATE	10	10	10	10	10	10
VINYL CHLORIDE	10 U					
XYLENE (TOTAL)	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	10 U					
2-HEXANONE	10 U					
4-METHYL-2-PENTANONE	10 U					
SURR 1(TOL) %RECOVERY	96	97	92	94	97	92
SURR 2(BFB) %RECOVERY	96	104	105	103	102	109
SURR 3(DCE) %RECOVERY	94	98	100	99	103	100

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TABLE D.7.6 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G912

## AREA

LOCATION	BLDG. 322	BLDG. 321	BLDG. 222	BLDG. 331	BLDG. 298	BLDG. 151
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL012931A	LL012920A	LL012464A	LL012613A	LL912010A	LL012373A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2	2	2
M/E 75						
M/E 95						
M/E 96						
M/E 173-1						
M/E 173-2						
M/E 174						
M/E 175-1						
M/E 175-2						
M/E 176-1						
M/E 176-2						
M/E 177-1						
M/E 177-2						
INTERNAL STD AREA(BCM)	1860000	1830000	1810000	1830000	1760000	1830000
INTERNAL STD AREA(CBZ)	6720000	6690000	6190000	6670000	6390000	6390000
INTERNAL STD AREA(DFB)	8130000	8110000	7710000	7950000	7720000	7780000
DILUTION FACTOR	1	1	1	1	1	1
PERCENT MOISTURE						
ACTUAL(ALLOWED) HOLD TIME	36(14 D)	36(14 D)	33(14 D)	34(14 D)	37(14 D)	34(14 D)

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TABLE D.7.7 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 9913

AREA	QA	QA	QA	QA	QA	ISTD	RET	TIME	METHOD	TRIP	BLANK	BLDG.	222
LOCATION	TUNED	CONTINUING	CONTINUING	SHIFT	BLANK	TRIP	BLANK		SEWERS				
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	LL0913878	VBKG913	LLN23018A			LL012486A				
SAMPLE NUMBER	LL0913875	LL0913877	LL0913877	WATER	WATER	WATER			WATER	WATER			
MATRIX				WATER	WATER	WATER			WATER	WATER			
UNITS	%	RRF	%	AREA	UG/L	UG/L			UG/L	UG/L			
ENV PROBLEM NO					99							2	
ACETONE		0.99	35.9			10	B			10	B	100	B
BENZENE		1.037	20.2			5	U			5	U	5	U
BROMODICHLOROMETHANE		0.835	12.9			5	U			5	U	5	U
BROMOFLUOROBENZENE		0.904	7.6										
BROMOFORM		0.445	14.6			5	U			5	U	5	U
BROMOMETHANE		1.608	79.4			10	U			10	U	10	J
CARBON DISULFIDE		3.751	19.2			5	U			5	U	5	U
CARBON TETRACHLORIDE		0.892	7.5			5	U			5	U	5	U
CHLOROBENZENE		1.198	11.7			5	U			5	U	5	U
CHLOROETHANE		1.486	56.7			10	U			10	U	10	J
CHLOROFORM		3.944	5.9			5	U			15	U	10	J
CHLOROMETHANE		2.098	63.3			10	U			10	U	10	J
CIS-1,3-DICHLOROPROPENE		0.57	31.3			5	U			5	U	5	U
DIBROMOCHLOROMETHANE		0.627	10.8			5	U			5	U	5	U
ETHYL BENZENE		0.623	16.3			5	U			5	U	3	JB
METHYLENE CHLORIDE		2.069	22.6			2	J			3	JB	3	JB
STYRENE		1.254	18.1			5	U			5	U	5	U
TETRACHLOROETHENE		0.545	2.4			5	U			5	U	5	U
TOLUENE		0.94	16.1			5	U			5	U	5	U
TOLUENE-D8		1.292	4.2										
TRANS-1,3-DICHLOROPROPENE		0.957	28.7			5	U			5	U	5	U
TRICHLOROETHENE		0.481	5.2			5	U			5	U	5	U
VINYL ACETATE		0.682	57.2			10	U			10	U	10	U
VINYL CHLORIDE		2.229	61.9			10	U			10	U	10	U
XYLENE (TOTAL)		0.756	18.3			5	U			5	U	5	U
1,1-DICHLOROETHANE		2.965	26.5			5	U			5	U	5	U
1,1-DICHLOROETHENE		1.38	15.8			5	U			5	U	5	U
1,1,1-TRICHLOROETHANE		0.908	7.4			5	U			5	U	5	U
1,1,2-TRICHLOROETHANE		0.376	14.8			5	U			5	U	5	U
1,1,2,2-TETRACHLOROETHANE		0.613	8.6			5	U			5	U	5	U
1,2-DICHLOROETHANE		4.156	18.8			5	U			5	U	5	U
1,2-DICHLOROETHANE-D4		3.085	5.7										
1,2-DICHLOROETHENE		1.538	13.2			5	U			5	U	5	U
1,2-DICHLOROPROpane		0.324	25.6			5	U			5	U	5	U
2-BUTANONE		0.05	60.5			10	U			10	U	10	U
2-HEXANONE		0.37	41.8			10	U			10	U	10	U
4-METHYL-2-PENTANONE		0.395	9.7			10	U			10	U	10	U
SURR 1(TOL) %RECOVERY						106				106		79	x

TABLE D.7.7 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G913

AREA	QA	QA	QA	QA	QA	QA	TRIP BLANK	BLDG. 222
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	RET	TIM	BLANK	SEWERS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	LL0913878	BLANK	VBKG913	LLN23018A	LL012486A
SAMPLE NUMBER	LL0913875	LL0913877	LL0913877	WATER	WATER	WATER	WATER	WATER
MATRIX	WATER	WATER	WATER	%	RRF	%	UG/L	UG/L
UNITS	%						UG/L	UG/L
ENV PROBLEM NO							99	2
SURR 2(BFB) %RECOVERY							93	119 *
SURR 3(DCE) %RECOVERY							96	99
M/E 50	31							
M/E 75	59							
M/E 95	100							
M/E 96	15							
M/E 173-1	0							
M/E 173-2	0							
M/E 174	68							
M/E 175-1	7.4							
M/E 175-2	11							
M/E 176-1	71							
M/E 176-2	104							
M/E 177-1	8.9							
M/E 177-2	13							
INTERNAL STD AREA(BCM)				1190000		1240000	1100000	1120000
INTERNAL STD AREA(CBZ)				4260000		3960000	4070000	3450000
INTERNAL STD AREA(DBF)				4950000		5170000	4780000	4830000
DILUTION FACTOR							1	1
PERCENT MOISTURE							1	1
ACTUAL(ALLOWED) HOLD TIME							32(14 D)	33(14 D)

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AREA

LOCATION	BLDG. 151	BLDG. 241	BLDG. 331	BLDG. 511	REANALYSIS
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	
SAMPLE NUMBER	LL012395A	LL012500A	LL012635A	LL012668A	LL036224A
MATRIX	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2	9
ACETONE	14 B	18 B	9 JB	10 B	25 B
BENZENE	5 U	5 U	5 U	5 U	5 U
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U

TABLE D.7.7 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 6913

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AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 151 SEWERS LL012395A WATER UG/L 2	BLDG. 241 SEWERS LL012500A WATER UG/L 2	BLDG. 331 SEWERS LL012635A WATER UG/L 2	BLDG. 511 SEWERS LL012668A WATER UG/L 2	REANALYSIS LL036224A WATER UG/L 9
BROMOFLUOROBENZENE					
BROMOFORM	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	5 U	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	10 U	10 U	10 U	10 U	10 U
CHLOROFORM	9	11	17	28	105
CHLOROMETHANE	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U
DOBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	2 JB	2 JB	3 JB	2 JB	JB
STYRENE	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U
TOLUENE	5	5	5	5	5
TOLUENE-D8					
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U	5 U
VINYL ACETATE	10 U	10 U	10 U	10 U	10 U
VINYL CHLORIDE	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U
2-HEXANONE	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	10 U
SURR 1(TOL) %RECOVERY	94	92	95	99	97
SURR 2(BFB) %RECOVERY	101	108	96	102	96
SURR 3(DCE) %RECOVERY	95	99	101	105	103

M/E 50

TABLE D.7.7 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: G913

AREA

LOCATION	BLDG. 151	BLDG. 241	BLDG. 331	BLDG. 511	REANALYSIS
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	
SAMPLE NUMBER	LL012395A	LL012500A	LL012635A	LL012668A	LL036224A
MATRIX	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2	9

M/E 75  
 M/E 95  
 M/E 96  
 M/E 173-1  
 M/E 173-2  
 M/E 174  
 M/E 175-1  
 M/E 175-2  
 M/E 176-1  
 M/E 176-2  
 M/E 177-1  
 M/E 177-2

INTERNAL STD AREA(BCM)	1110000	1120000	1070000	1080000	1100000
INTERNAL STD AREA(CBZ)	3900000	3850000	3890000	4140000	4050000
INTERNAL STD AREA(DFB)	4810000	4870000	4780000	4710000	4670000

DILUTION FACTOR	1	1	1	1	1
PERCENT MOISTURE					
ACTUAL(ALLOWED) HOLD TIME	33(14 D)	33(14 D)	33(14 D)	33(14 D)	38(14 D)

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TABLE D.7.8 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0806

AREA	QA	QA	QA	QA	QA
LOCATION	TUNED	METHOD	ISTD	RET TIM	INITIAL CAL
TYPE OF LOCATION	CALIBRATION	BLANK	SHIFT	RRF	X RSD
SAMPLE NUMBER	LL0806875	VBK0806	LL0806878	LL0806876	LL0806876
MATRIX	WATER	WATER	WATER	WATER	WATER
UNITS	X	UG/L	AREA	RRF	X
ENV PROBLEM NO					
ACETONE				0.501	22.4
BENZENE				0.952	9.3
BROMODICHLOROMETHANE				0.513	9.9
BROMOFLUOROBENZENE				0.674	11.6
BROMOFORM				0.325	6.7
BROMOMETHANE				0.497	39.9
CARBON DISULFIDE				3.557	3
CARBON TETRACHLORIDE				0.446	7.9
CHLOROBENZENE				0.991	5.1
CHLOROETHANE				0.286	17.7
CHLOROFORM				2.817	1.9
CHLOROMETHANE				0.838	7.2
CIS-1,3-DICHLOROPROPENE				0.333	13.4
DIBROMOCHLOROMETHANE				0.406	11.6
ETHYL BENZENE				0.541	3.3
METHYLENE CHLORIDE				1.806	13.5
STYRENE				1.086	7.5
TETRACHLOROETHENE				0.416	9.2
TOLUENE				0.818	8.9
TOLUENE-D8				1.261	11.1
TRANS-1,3-DICHLOROPROPENE				0.672	10
TRICHLOROETHENE				0.369	8.3
VINYL ACETATE				0.267	67.5
VINYL CHLORIDE				0.515	28.2
XYLENE (TOTAL)				0.632	7.3
1,1-DICHLOROETHANE				2.364	5
1,1-DICHLOROETHENE				1.204	2.6
1,1,1-TRICHLOROETHANE				0.464	4.7
1,1,2-TRICHLOROETHANE				0.278	11.3
1,1,2,2-TETRACHLOROETHANE				0.568	17.5
1,2-DICHLOROETHANE				2.278	4.9
1,2-DICHLOROETHANE-D4				2.042	12.4
1,2-DICHLOROETHENE				1.375	3
1,2-DICHLOROPROPANE				0.293	11.3
2-BUTANONE				0.03	4.1
2-HEXANONE				0.266	10.4
4-METHYL-2-PENTANONE				0.354	10.2

M/E 50

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TABLE D.7.8 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0806

AREA	QA	QA	QA	QA	QA
LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	TUNED CALIBRATION LL0806875 WATER %	METHOD BLANK VBK0806 WATER UG/L	ISTD RET SHIFT LL0806878 WATER AREA	TIM RRF LL0806876 WATER RRF	INITIAL CAL % RSD LL0806876 WATER %
M/E 75		48			
M/E 95		100			
M/E 96		8.5			
M/E 173-1		0			
M/E 173-2		0			
M/E 174		81			
M/E 175-1		6.5			
M/E 175-2		8			
M/E 176-1		80			
M/E 176-2		98			
M/E 177-1		5.5			
M/E 177-2		6.9			
INTERNAL STD AREA(BCM)		3060000	3210000		
INTERNAL STD AREA(CBZ)		1E+07	2E+07		
INTERNAL STD AREA(DFB)		2E+07	2E+07		
DILUTION FACTOR					
PERCENT MOISTURE					
ACTUAL(ALLOWED) HOLD TIME					

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TABLE D.7.9 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0808

AREA	QA	QA	QA	QA	QA	BLDG.	231	TRIP	BLANK
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	SUMP	TRIP	BLANK
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	VBK0808	LL022013A	LLN02013A	
SAMPLE NUMBER	LL0808875	LL0808877	LL0808877	LL0808878	WATER	WATER	WATER	WATER	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO					4	99			
ACETONE		0.583	16.2		12	10	U	U	63 B
BENZENE		0.987	3.6		5 U	5	U	U	5 U
BROMODICHLOROMETHANE		0.491	4.2		5 U	5	U	U	5 U
BROMOFLUOROBENZENE		0.581	13.8		5 U	5	U	U	5 U
BROMOFORM		0.319	2		10 U	10	U	U	10 U
BROMOMETHANE		0.724	45.8		10 U	10	U	U	10 U
CARBON DISULFIDE		3.29	7.5		10 U	10	U	U	10 U
CARBON TETRACHLORIDE		0.446	0.1		10 U	10	U	U	10 U
CHLOROBENZENE		1.032	4.1		10 U	10	U	U	10 U
CHLOROETHANE		0.433	51.3		10 U	10	U	U	10 U
CHLOROFORM		3.012	6.9		10 U	10	U	U	10 U
CHLORMETHANE		0.643	23.2		10 U	10	U	U	10 U
CIS-1,3-DICHLOROPROPENE		0.333	0.1		10 U	10	U	U	10 U
DIBROMOCHLOROMETHANE		0.435	7.3		10 U	10	U	U	10 U
ETHYL BENZENE		0.573	5.8		11 U	11	U	BE	11 JB
METHYLENE CHLORIDE		1.835	1.6		11 U	11	U	BE	13 UU
STYRENE		1.155	6.3		11 U	11	U	BE	13 UU
TETRACHLOROETHENE		0.42	1		11 U	11	U	BE	13 UU
TOLUENE		0.899	9.9		11 U	11	U	BE	13 UU
TOLUENE-D8		1.158	8.2		11 U	11	U	BE	13 UU
TRANS-1,3-DICHLOROPROPENE		0.634	5.6		11 U	11	U	BE	13 UU
TRICHLOROETHENE		0.389	5.6		11 U	11	U	BE	13 UU
VINYL ACETATE		0.383	43.2		10 U	10	U	BE	10 UU
VINYL CHLORIDE		0.582	12.8		10 U	10	U	BE	10 UU
XYLENE (TOTAL)		0.691	9.3		10 U	10	U	BE	10 UU
1,1-DICHLOROETHANE		2.283	3.4		10 U	10	U	BE	10 UU
1,1-DICHLOROETHENE		1.215	0.9		10 U	10	U	BE	10 UU
1,1,1-TRICHLOROETHANE		0.471	1.4		10 U	10	U	BE	10 UU
1,1,2-TRICHLOROETHANE		0.283	1.8		10 U	10	U	BE	10 UU
1,1,2,2-TETRACHLOROETHANE		0.506	10.9		10 U	10	U	BE	10 UU
1,2-DICHLOROETHANE		2.163	5.1		10 U	10	U	BE	10 UU
1,2-DICHLOROETHANE-D4		1.666	18.4		10 U	10	U	BE	10 UU
1,2-DICHLOROETHENE		1.441	4.8		10 U	10	U	BE	10 UU
1,2-DICHLOROPROPANE		0.262	10.6		10 U	10	U	BE	10 UU
2-BUTANONE		0.028	8.9		10 U	10	U	BE	10 UU
2-HEXANONE		0.235	11.9		10 U	10	U	BE	10 UU
4-METHYL-2-PENTANONE		0.296	16.3		10 U	10	U	BE	10 UU

SURR 1(TOL) %RECOVERY

86 \*

99

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TABLE D.7.9 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0808

AREA	QA	QA	QA	QA	QA	BLDG. 231	TRIP BLANK
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	SUMP	TRIP BLANK
SAMPLE NUMBER	LL0808875	LL0808877	LL0808877	LL0808878	VBK0808	LL022013A	LLN02013A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						9	99
SURR 2(BFB) %RECOVERY					106	107	107
SURR 3(DCE) %RECOVERY					97	97	96
M/E 50		17					
M/E 75		49					
M/E 95		100					
M/E 96		6.6					
M/E 173-1		0					
M/E 173-2		0					
M/E 174		92					
M/E 175-1		6.6					
M/E 175-2		7.2					
M/E 176-1		90					
M/E 176-2		98					
M/E 177-1		7.9					
M/E 177-2		8.7					
INTERNAL STD AREA(BCM)			3800000	3810000	3930000	4050000	
INTERNAL STD AREA(CBZ)			2E+07	2E+07	2E+07	2E+07	
INTERNAL STD AREA(DFB)			2E+07	2E+07	2E+07	2E+07	
DILUTION FACTOR					1	1	1
PERCENT MOISTURE							
ACTUAL(ALLOWED) HOLD TIME					4(14 D)	3(14 D)	
AREA							
LOCATION	BLDG. 231	ARROYO SECO	BLDG. 131	BLDG. 298	BLDG. 298	BLDG. 322	
TYPE OF LOCATION	SUMP	ARROYO	TANK	SEWERS	SEWERS	SEWERS	
SAMPLE NUMBER	LL022024A	LL001041B	LL014013A	LL012793A	LL012522A	LL012759A	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	4	1	4	2	2	2	
ACETONE	10 B	5 JB	5 JB	11 B	21 B	46 B	
BENZENE	5 U	5 U	5 U	5 U	5 U	5 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	

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TABLE D.7.9 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0808

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO.	BLDG. 231 SUMP LL022024A WATER UG/L 4	ARROYO SECO ARROYO LL001041B WATER UG/L 1	BLDG. 131 TANK LL014013A WATER UG/L 4	BLDG. 298 SEWERS LL012793A WATER UG/L 2	BLDG. 298 SEWERS LL012522A WATER UG/L 2	BLDG. 322 SEWERS LL012759A WATER UG/L 2
BROMOFLUOROBENZENE						
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROFORM	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	11 B	11 B	11 B	11 B	11 B	11 B
STYRENE	11 B	11 B	11 B	11 B	11 B	11 B
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
TOLUENE	0.9 J	1 J	1 J	1 J	0.7	0.7
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
VINYL ACETATE	5 U	5 U	5 U	5 U	5 U	5 U
VINYL CHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	10 U	10 U
SURR 1(TOL) %RECOVERY	96	87 *	97	100	102	97
SURR 2(BFB) %RECOVERY	103	101	111	108	109	106
SURR 3(DCE) %RECOVERY	96	93	99	100	101	99

M/E 50

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TABLE D.7.9 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0808

AREA

LOCATION	BLDG. 231	ARROYO SECO	BLDG. 131	BLDG. 298	BLDG. 298	BLDG. 322
TYPE OF LOCATION	SUMP	ARROYO	TANK	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL022024A	LL001041B	LL014013A	LL012793A	LL012522A	LL012759A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	4	1	4	2	2	2

M/E 75  
 M/E 95  
 M/E 96  
 M/E 173-1  
 M/E 173-2  
 M/E 174  
 M/E 175-1  
 M/E 175-2  
 M/E 176-1  
 M/E 176-2  
 M/E 177-1  
 M/E 177-2

INTERNAL STD AREA(BCM)	4070000	4030000	3990000	4010000	3810000	4020000
INTERNAL STD AREA(CBZ)	2E+07	2E+07	2E+07	2E+07	2E+07	2E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07	2E+07	2E+07

DILUTION FACTOR	1	1	1	1	1	1
PERCENT MOISTURE						
ACTUAL(ALLOWED) HOLD TIME	4(14 D)	4(14 D)	4(14 D)	3(14 D)	3(14 D)	4(14 D)

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TABLE D.7.10 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0809

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AREA	QA	QA	QA	QA	QA	BLDG. 322 SEWERS LL012588A 2	BLDG. 321 SEWERS LL012737A 2
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL XD	ISTD SHIFT	RET TIM METHOD		
TYPE OF LOCATION	LL0809875	LL0809877	LL0809877	LL0809878	BLANK WATER UG/L		
SAMPLE NUMBER	WATER %	WATER RRF	WATER %	WATER AREA	WATER UG/L		
MATRIX							
UNITS							
ENV PROBLEM NO							
ACETONE		0.451	10.1		10	790 BE	26 B
BENZENE		0.856	10.1		5 U	5 U	5 U
BROMODICHLOROMETHANE		0.411	19.8		5 U	5 U	5 U
BROMOFLUOROBENZENE		0.611	9.2				
BROMOFORM		0.275	15.4				
BROMOMETHANE		0.703	41.6				
CARBON DISULFIDE		3.032	14.7				
CARBON TETRACHLORIDE		0.39	12.6				
CHLOROBENZENE		1.037	4.7				
CHLOROETHANE		0.349	21.7				
CHLOROFORM		2.725	3.3				
CHLOROMETHANE		0.589	29.7				
CIS-1,3-DICHLOROPROPENE		0.285	14.6				
DIBROMOCHLOROMETHANE		0.366	9.9				
ETHYL BENZENE		0.548	1.2				
METHYLENE CHLORIDE		1.71	5.3				
STYRENE		1.036	4.6				
TETRACHLOROETHENE		0.384	7.8				
TOLUENE		0.803	1.7		0.8	0.8 JB	1 JB
TOLUENE-D8		1.173	7				
TRANS-1,3-DICHLOROPROPENE		0.584	13				
TRICHLOROETHENE		0.355	3.7				
VINYL ACETATE		0.319	19.5				
VINYL CHLORIDE		0.544	5.5				
XYLENE (TOTAL)		0.607	4				
1,1-DICHLOROETHANE		2.215	6.3				
1,1-DICHLOROETHENE		1.115	7.4				
1,1,1-TRICHLOROETHANE		0.397	14.5				
1,1,2-TRICHLOROETHANE		0.253	9.1				
1,1,2,2-TETRACHLOROETHANE		0.402	29.3				
1,2-DICHLOROETHANE		2.042	10.4				
1,2-DICHLOROETHANE-D4		1.694	17				
1,2-DICHLOROETHENE		1.343	2.3				
1,2-DICHLOROPROPANE		0.254	13.3				
2-BUTANONE		0.02	32.8				
2-HEXANONE		0.158	40.5				
4-METHYL-2-PENTANONE		0.242	31.6				
SURR 1(TOL) %RECOVERY					102	98	98

TABLE D.7.10 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0809

AREA	QA	QA	QA	QA	QA	BLDG. 322 SEWERS LL012588A 2	BLDG. 321 SEWERS LL012737A 2
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		
SAMPLE NUMBER	LL0809875	LL0809877	LL0809877	LL0809878	VBK0809		
MATRIX	WATER	WATER	WATER	WATER	WATER		
UNITS	X	RRF	%	AREA	UG/L		
ENV PROBLEM NO							
SURR 2(BFB) %RECOVERY					99	99	97
SURR 3(DCE) %RECOVERY					94	97	96
M/E 50	15						
M/E 75	45						
M/E 95	100						
M/E 96	9.6						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	86						
M/E 175-1	6.8						
M/E 175-2	8						
M/E 176-1	85						
M/E 176-2	100						
M/E 177-1	5.5						
M/E 177-2	6.4						
INTERNAL STD AREA(BCM)				3840000	3870000	3870000	3780000
INTERNAL STD AREA(CBZ)				2E+07	2E+07	2E+07	2E+07
INTERNAL STD AREA(DFB)				2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR					1	1	1
PERCENT MOISTURE							
ACTUAL ALLOWED HOLD TIME					4(14 D)	4(14 D)	
AREA							
LOCATION	BLDG. 321	BLDG. 169	BLDG. 169	BLDG. 131	BLDG. 131	BLDG. 141	
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SUMP	
SAMPLE NUMBER	LL012555A	LL012771A	LL012408A	LL012715A	LL012340A	LL015014A	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	2	2	2	2	2	4	
ACETONE	37 B	12 B	7 JB	36 B	610 BE	51 B	
BENZENE	5 U	5 U	5 U	5 U	1 J	5 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	

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TABLE D.7.10 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0809

## AREA

LOCATION  
TYPE OF LOCATION  
SAMPLE NUMBER  
MATRIX  
UNITS  
ENV PROBLEM NO

	BLDG. 321 SEWERS LL012555A WATER UG/L 2	BLDG. 169 SEWERS LL012771A WATER UG/L 2	BLDG. 169 SEWERS LL012408A WATER UG/L 2	BLDG. 131 SEWERS LL012715A WATER UG/L 2	BLDG. 131 SEWERS LL012340A WATER UG/L 2	BLDG. 141 SUMP LL015014A WATER UG/L 4
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## BROMOFLUOROBENZENE

BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U
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## BROMOMETHANE

CARBON DISULFIDE	10 U					
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## CARBON TETRACHLORIDE

CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U
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## CHLOROETHANE

CHLOROFORM	10 U					
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## CHLOROMETHANE

CIS-1,3-DICHLOROPROPENE	10 U					
-------------------------	------	------	------	------	------	------

## DIBROMOCHLOROMETHANE

ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U	5 U
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## METHYLENE CHLORIDE

STYRENE	12 B	19 B	28 B	12 B	12 B	12 B
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## TETRACHLOROETHENE

TOLUENE	5 U	5 U	5 U	5 U	5 U	5 U
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## TOLUENE-D8

TRANSM-1,3-DICHLOROPROPENE	2 JB	1 JB	0.9 JB	2 JB	2 JB	0.8 JB
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## TRICHLOROETHENE

VINYL ACETATE	5 U	5 U	5 U	5 U	5 U	5 U
---------------	-----	-----	-----	-----	-----	-----

## VINYL CHLORIDE

XYLENE (TOTAL)	10 U					
----------------	------	------	------	------	------	------

## 1,1-DICHLOROETHANE

1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
--------------------	-----	-----	-----	-----	-----	-----

## 1,1,1-TRICHLOROETHANE

1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
-----------------------	-----	-----	-----	-----	-----	-----

## 1,1,2,2-TETRACHLOROETHANE

1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
--------------------	-----	-----	-----	-----	-----	-----

## 1,2-DICHLOROETHANE-D4

1,2-DICHLOROETHENE	5 U	2 J	5 U	5 U	5 U	5 U
--------------------	-----	-----	-----	-----	-----	-----

## 1,2-DICHLOROPROPANE

2-BUTANONE	5 U	5 U	5 U	5 U	5 U	5 U
------------	-----	-----	-----	-----	-----	-----

## 2-HEXANONE

4-METHYL-2-PENTANONE	10 U					
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## SURR 1(TOL) %RECOVERY

SURR 2(BFB) %RECOVERY	99	98	99	95	98	95
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## SURR 3(DCE) %RECOVERY

SURR 3(DCE) %RECOVERY	96	95	98	97	107	96
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## SURR 3(DCE) %RECOVERY

SURR 3(DCE) %RECOVERY	98	99	98	94	95	98
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TABLE D.7.10 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0809

## AREA

LOCATION	BLDG. 321	BLDG. 169	BLDG. 169	BLDG. 131	BLDG. 131	BLDG. 141
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SUMP
SAMPLE NUMBER	LL012555A	LL012771A	LL012408A	LL012715A	LL012340A	LL015014A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2	2	4

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

INTERNAL STD AREA(BCM)	3670000	3840000	3690000	3820000	3840000	3840000
INTERNAL STD AREA(CBZ)	2E+07	2E+07	2E+07	2E+07	2E+07	2E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07	2E+07	2E+07

DILUTION FACTOR	1	1	1	1	1	1
PERCENT MOISTURE						
ACTUAL(ALLOWED) HOLD TIME	4(14 D)	5(14 D)				

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TABLE D.7.11 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0810

AREA	QA	QA	QA	QA	QA	BLDG.	TRIP
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	METHOD	BLANK	BLANK
TYPE OF LOCATION	CALIBRATION	CAL X'D	CAL X'D	SHIFT	BLANK	SUMP	TRIP
SAMPLE NUMBER	LL0810875	LL0810877	LL0810877	LL0810878	VBK0810	LL015025A	LLN05016A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					4		99
ACETONE	0.406	19		12		15 B	13 B
BENZENE	0.876	8		5 U		5 U	5 U
BROMODICHLOROMETHANE	0.471	8.2		5 U		5 U	5 U
BROMOFLUOROBENZENE	0.548	18.6		5 U		5 U	5 U
BROMOFORM	0.298	8.5		5 U		5 U	5 U
BROMOMETHANE	0.666	34.1		10 U		10 U	10 U
CARBON DISULFIDE	2.906	18.3		5 U		5 U	5 U
CARBON TETRACHLORIDE	0.408	8.5		5 U		5 U	5 U
CHLOROBENZENE	1.018	2.7		5 U		5 U	5 U
CHLOROETHANE	0.322	12.3		10 U		10 U	10 U
CHLOROFORM	2.692	4.4		5 U		5 U	5 U
CHLOROMETHANE	0.535	36.1		10 U		10 U	10 U
CIS-1,3-DICHLOROPROPENE	0.305	8.4		5 U		5 U	5 U
DIBROMOCHLOROMETHANE	0.386	5		5 U		5 U	5 U
ETHYL BENZENE	0.547	1.2		5 U		1 J	1 J
METHYLENE CHLORIDE	1.654	8.4		13 U		13 B	12 B
STYRENE	1.056	2.8		5 U		5 U	5 U
TETRACHLOROETHENE	0.427	2.5		5 U		5 U	5 U
TOLUENE	0.828	1.3		0.8 U		1 JB	1 JB
TOLUENE-D8	1.129	10.5					
TRANS-1,3-DICHLOROPROPENE	0.631	6.1		5 U		5 U	5 U
TRICHLOROETHENE	0.362	1.9		5 U		5 U	5 U
VINYL ACETATE	0.297	11.3		10 U		10 U	10 U
VINYL CHLORIDE	0.521	1.1		10 U		10 U	10 U
XYLENE (TOTAL)	0.638	1		5 U		5 U	5 U
1,1-DICHLOROETHANE	2.154	8.9		5 U		5 U	5 U
1,1-DICHLOROETHENE	1.086	9.8		5 U		5 U	5 U
1,1,1-TRICHLOROETHANE	0.417	10.3		5 U		5 U	5 U
1,1,2-TRICHLOROETHANE	0.264	4.9		5 U		5 U	5 U
1,1,2,2-TETRACHLOROETHANE	0.494	12.9		5 U		5 U	5 U
1,2-DICHLOROETHANE	2.083	8.6		5 U		5 U	5 U
1,2-DICHLOROETHANE-D4	1.696	16.9		5 U		5 U	5 U
1,2-DICHLOROETHENE	1.32	4		5 U		5 U	5 U
1,2-DICHLOROPROPANE	0.237	19.1		5 U		5 U	5 U
2-BUTANONE	0.022	27.9		10 U		10 U	10 U
2-HEXANONE	0.186	30.2		10 U		10 U	10 U
4-METHYL-2-PENTANONE	0.262	26		10 U		10 U	10 U
SURR 1(TOL) %RECOVERY				104		91	102

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TABLE D.7.11 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0810

AREA	QA	QA	QA	QA	QA	BLDG. 141	TRIP BLANK
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	SUMP	TRIP BLANK
SAMPLE NUMBER	LL0810875	LL0810877	LL0810877	LL0810878	VBK0810	LLC15025A	LLN05016A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					4	99	99
SURR 2(BFB) %RECOVERY					109	104	106
SURR 3(DCE) %RECOVERY					99	97	100
M/E 50		15					
M/E 75		44					
M/E 95		100					
M/E 96		6.3					
M/E 173-1		0					
M/E 173-2		0					
M/E 174		85					
M/E 175-1		7.3					
M/E 175-2		8.6					
M/E 176-1		86					
M/E 176-2		101					
M/E 177-1		5.7					
M/E 177-2		6.7					
INTERNAL STD AREA(BCM)				3740000	3770000	3930000	3920000
INTERNAL STD AREA(CBZ)				2E+07	2E+07	2E+07	2E+07
INTERNAL STD AREA(DFB)				2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR					1	1	1
PERCENT MOISTURE							
ACTUAL(ALLOWED) HOLD TIME					6(14 D)	4(14 D)	
AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	TRIP BLANK	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %	ARROYO SECO
TYPE OF LOCATION	TRIP BLANK	SPIKE	RECOVERY	LLN07018A	DUPLICATE	RECOVERY	ARROYO
SAMPLE NUMBER	LLN07018A	LLN07018A	LLN07018A	LLN07018A	LLN07018A	LLN07018A	LL001018A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	SOIL
UNITS	UG/L	UG/L	%	%	UG/L	%	UG/KG
ENV PROBLEM NO	99	99	99	99	99	99	1
ACETONE	13 B	16 B			17 B		9 JB
BENZENE	4 J	68 MS	107	10	61 MS	96	5 U
BROMODICHLOROMETHANE	5 U	5 U			5 U		5 U

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TABLE D.7.11 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0810

AREA	QA	QA	QA	QA	QA	QA	QA	
LOCATION	TRIP BLANK	MATRIX	MS % RECOVERY	RPD	MATRIX	SPIKE	MSD % RECOVERY	ARROYO SECO
TYPE OF LOCATION	TRIP BLANK	SPIKE	LLN07018A	LLN07018A	DUPLICATE	LLN07018A	LLN07018A	ARROYO
SAMPLE NUMBER	LLN07018A	WATER	WATER	WATER	WATER	WATER	WATER	LL001018A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	SOIL
UNITS	UG/L	UG/L	X	X	UG/L	UG/L	X	UG/KG
ENV PROBLEM NO	99	99	99	99	99	99	99	1
D-481	BROMOFLUOROBENZENE							
	BROMOFORM	5 U	5 U			5 U		5 U
	BROMOMETHANE	10 U	10 U			10 U		11 U
	CARBON DISULFIDE	5 U	5 U			5 U		5 U
	CARBON TETRACHLORIDE	5 U	5 U			5 U		5 U
	CHLOROBENZENE	2 J	60 MS	94	1	60 MS	93	11 U
	CHLOROETHANE	10 U	10 U			10 U		11 U
	CHLOROFORM	5 U	5 U			5 U		5 U
	CHLOROMETHANE	10 U	10 U			10 U		11 U
	CIS-1,3-DICHLOROPROPENE	5 U	5 U			5 U		11 U
	DIBROMOCHLOROMETHANE	5 U	5 U			5 U		5 U
	ETHYL BENZENE	1 J	2 J			2 J		5 U
	METHYLENE CHLORIDE	13 B	34 B			36 B		18 B
	STYRENE	5 U	5 U			5 U		5 U
	TETRACHLOROETHENE	5 U	5 U			5 U		5 U
	TOLUENE	3 JB	64 MS	103	6	60 MS	97	5 U
	TOLUENE-D8							
	TRANS-1,3-DICHLOROPROPENE	5 U	5 U			5 U		5 U
	TRICHLOROETHENE	2 J	67 MS	104	9	61 MS	95	5 U
	VINYL ACETATE	10 U	10 U			10 U		11 U
	VINYL CHLORIDE	10 U	10 U			10 U		11 U
	XYLENE (TOTAL)							
	1,1-DICHLOROETHANE	5 U	5 U			5 U		5 U
	1,1-DICHLOROETHENE	5 U	5 U			5 U		5 U
	1,1,1-TRICHLOROETHANE	3 J	69 MS	114	0	68 MS	113	5 U
	1,1,2-TRICHLOROETHANE	5 U	5 U			5 U		5 U
	1,1,2,2-TETRACHLOROETHANE	5 U	5 U			5 U		5 U
	1,2-DICHLOROETHANE	5 U	5 U			5 U		5 U
	1,2-DICHLOROETHANE-D4	5 U	5 U			5 U		5 U
	1,2-DICHLOROETHENE	5 U	5 U			5 U		5 U
	1,2-DICHLOROPROPANE	5 U	5 U			5 U		5 U
	2-BUTANONE	10 U	10 U			10 U		11 U
	2-HEXANONE	10 U	10 U			10 U		11 U
	4-METHYL-2-PENTANONE	10 U	10 U			10 U		11 U
	SURR 1(TOL) %RECOVERY	100	108			99		113
	SURR 2(BFB) %RECOVERY	111	113			106		96
	SURR 3(DCE) %RECOVERY	95	98			97		93

TABLE D.7.11 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0810

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AREA	QA	QA	QA	QA	QA	QA	ARROYO SECO
LOCATION	TRIP BLANK	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %	ARROYO
TYPE OF LOCATION	TRIP BLANK	SPIKE	RECOVERY		DUPLICATE	RECOVERY	LL001018A
SAMPLE NUMBER	LLN07018A	LLN07018A	LLN07018A	LLN07018A	LLN07018A	LLN07018A	LL001018A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	SOIL
UNITS	UG/L	UG/L	%	%	UG/L	%	UG/KG
ENV PROBLEM NO	99	99	99	99	99	99	1

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

INTERNAL STD AREA(BCM)	4220000	3900000	3800000	3360000
INTERNAL STD AREA(CBZ)	2E+07	2E+07	2E+07	1E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR	1	1	1	1.05
PERCENT MOISTURE				
ACTUAL(ALLOWED) HOLD TIME	4(14 D)	4(14 D)	4(14 D)	6(14 D)

## AREA

LOCATION	ARROYO SECO
TYPE OF LOCATION	ARROYO
SAMPLE NUMBER	LL001029A
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	1
ACETONE	16 B
BENZENE	5 U
BROMODICHLOROMETHANE	5 U
BROMOFLUOROBENZENE	
BROMOFORM	5 U
BROMOMETHANE	10 U
CARBON DISULFIDE	5 U

TABLE D.7.11 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0810

AREA

LOCATION	ARROYO SECO
TYPE OF LOCATION	ARROYO
SAMPLE NUMBER	LL001029A
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	1

CARBON TETRACHLORIDE	5 U
CHLOROBENZENE	5 U
CHLOROETHANE	10 U
CHLOROFORM	5 U
CHLOROMETHANE	10 U
CIS-1,3-DICHLOROPROPENE	5 U
DIBROMOCHLOROMETHANE	5 U
ETHYL BENZENE	5 U
METHYLENE CHLORIDE	34 B
STYRENE	5 U
TETRACHLOROETHENE	5 U
TOLUENE	2 JB
TOLUENE-D8	5 U
TRANS-1,3-DICHLOROPROPENE	5 U
TRICHLOROETHENE	5 U
VINYL ACETATE	10 U
VINYL CHLORIDE	10 U
XYLENE (TOTAL)	5 U
1,1-DICHLOROETHANE	5 U
1,1-DICHLOROETHENE	5 U
1,1,1-TRICHLOROETHANE	5 U
1,1,2-TRICHLOROETHANE	5 U
1,1,2,2-TETRACHLOROETHANE	5 U
1,2-DICHLOROETHANE	5 U
1,2-DICHLOROETHANE-D4	5 U
1,2-DICHLOROETHENE	5 U
1,2-DICHLOROPROPANE	5 U
2-BUTANONE	10 U
2-HEXANONE	10 U
4-METHYL-2-PENTANONE	10 U
SURR 1(TOL) %RECOVERY	117
SURR 2(BFB) %RECOVERY	88
SURR 3(DCE) %RECOVERY	96

M/E	50
M/E	75
M/E	95
M/E	96

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TABLE D.7.11 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0810

AREA

LOCATION	ARROYO SECO
TYPE OF LOCATION	ARROYO
SAMPLE NUMBER	LL001029A
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	1

M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

INTERNAL STD AREA(BCM)	3330000
INTERNAL STD AREA(CBZ)	1E+07
INTERNAL STD AREA(DFB)	2E+07

DILUTION FACTOR	1.04
PERCENT MOISTURE	
ACTUAL(ALLOWED) HOLD TIME	6(14 D)

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TABLE D.7.12 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0811

AREA	QA	QA	QA	QA	QA	ARROYO SECO	ARROYO SECO
LOCATION	TUNED CALIBRATION	CONTINUING CAL X/D	CONTINUING CAL X/D	ISTD SHIFT	RET TIM	METHOD	ARROYO ARROYO
TYPE OF LOCATION	LL0811875	LL0811877	LL0811877	LL0811878	WBK0811	BLANK	LL001030A LL002020A
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER	WATER	SOIL SOIL
MATRIX	X	RRF	X	AREA	UG/L	UG/L	UG/KG UG/KG
UNITS							1 1
ENV PROBLEM NO							
ACETONE	0.441	12.1			12	14 B	12 B
BENZENE	0.914	4			5 U	5 U	5 U
BROMODICHLOROMETHANE	0.449	12.4			5 U	5 U	5 U
BROMOFLUOROBENZENE	0.627	6.9					
BROMOFORM	0.304	6.6			5 U	5 U	5 U
BROMOMETHANE	0.628	26.5			10 U	10 U	10 U
CARBON DISULFIDE	2.931	17.6			5 U	5 U	5 U
CARBON TETRACHLORIDE	0.426	4.5			5 U	5 U	5 U
CHLOROBENZENE	1.099	10.9			5 U	5 U	5 U
CHLOROETHANE	0.365	27.4			10 U	10 U	10 U
CHLOROFORM	2.89	2.6			5 U	5 U	5 U
CHLOROMETHANE	0.556	33.7			10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	0.322	3.4			5 U	5 U	5 U
DIBROMOCHLOROMETHANE	0.399	1.6			5 U	5 U	5 U
ETHYLBENZENE	0.565	4.5			1 U	1 JB	1 JB
METHYLENE CHLORIDE	1.747	3.3			11 U	13 B	13 B
STYRENE	1.122	3.3			5 U	5 U	5 U
TETRACHLOROETHENE	0.446	7.2			5 U	5 U	5 U
TOLUENE	0.859	5.1			0.7	1 JB	0.8 JB
TOLUENE-D8	1.158	8.2					
TRANS-1,3-DICHLOROPROPENE	0.644	4.1			5 U	5 U	5 U
TRICHLOROETHENE	0.381	3.5			5 U	5 U	5 U
VINYL ACETATE	0.32	19.6			10 U	10 U	10 U
VINYL CHLORIDE	0.498	3.4			10 U	10 U	10 U
XYLENE (TOTAL)	0.68	7.5			5 U	5 U	5 U
1,1-DICHLOROETHANE	2.281	3.5			5 U	5 U	5 U
1,1-DICHLOROETHENE	1.136	5.6			5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	0.418	10			5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	0.276	0.9			5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	0.501	11.7			5 U	5 U	5 U
1,2-DICHLOROETHANE	2.186	4.1			5 U	5 U	5 U
1,2-DICHLOROETHANE-D4	1.723	15.6					
1,2-DICHLOROETHENE	1.379	0.3			5 U	5 U	5 U
1,2-DICHLOROPROPANE	0.265	9.3			5 U	5 U	5 U
2-BUTANONE	0.022	25.6			10 U	10 U	10 U
2-HEXANONE	0.191	28.2			10 U	10 U	10 U
4-METHYL-2-PENTANONE	0.262	26.1			10 U	10 U	10 U
SURR 1(TOL) %RECOVERY					99	108	101

TABLE D.7.12 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: D811

AREA	QA	QA	QA	QA	QA	ARROYO SECO	ARROYO SECO
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	ARROYO	ARROYO
SAMPLE NUMBER	LL0811875	LL0811877	LL0811877	LL0811878	VBK0811	LL001030A	LL002020A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						1	1
SURR 2(BFB) %RECOVERY					94	85	89
SURR 3(DCE) %RECOVERY					95	94	94
M/E 50	16						
M/E 75	45						
M/E 95	100						
M/E 96	7.3						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	88						
M/E 175-1	6.8						
M/E 175-2	7.8						
M/E 176-1	85						
M/E 176-2	97						
M/E 177-1	5.9						
M/E 177-2	7						
INTERNAL STD AREA(BCM)				3720000	3850000	3620000	4080000
INTERNAL STD AREA(CBZ)				2E+07	2E+07	1E+07	2E+07
INTERNAL STD AREA(DFB)				2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR					1	1.02	1.03
PERCENT MOISTURE						1.7	2.9
ACTUAL(ALLOWED) HOLD TIME						7(14 D)	7(14 D)
AREA							
LOCATION	ARROYO SECO						
TYPE OF LOCATION	ARROYO						
SAMPLE NUMBER	LL002019A						
MATRIX	SOIL						
UNITS	UG/KG						
ENV PROBLEM NO	1						
ACETONE	13 B						
BENZENE	5 U						
BROMODICHLOROMETHANE	5 U						

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TABLE D.7.12 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0811

AREA

LOCATION	ARROYO SECO
TYPE OF LOCATION	ARROYO
SAMPLE NUMBER	LL002019A
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	1
BROMOFLUOROBENZENE	
BROMOFORM	5 U
BROMOMETHANE	11 U
CARBON DISULFIDE	5 U
CARBON TETRACHLORIDE	5 U
CHLOROBENZENE	5 U
CHLOROETHANE	11 U
CHLOROFORM	5 U
CHLOROMETHANE	11 U
CIS-1,3-DICHLOROPROPENE	5 U
DIBROMOCHLOROMETHANE	5 U
ETHYLBENZENE	1 JB
METHYLENE CHLORIDE	23 B
STYRENE	5 U
TETRACHLOROETHENE	5 U
TOLUENE	0.8 JB
TOLUENE-D8	
TRANS-1,3-DICHLOROPROPENE	5 U
TRICHLOROETHENE	5 U
VINYL ACETATE	11 U
VINYL CHLORIDE	11 U
XYLENE (TOTAL)	5 U
1,1-DICHLOROETHANE	5 U
1,1-DICHLOROETHENE	5 U
1,1,1-TRICHLOROETHANE	5 U
1,1,2-TRICHLOROETHANE	5 U
1,1,2,2-TETRACHLOROETHANE	5 U
1,2-DICHLOROETHANE	5 U
1,2-DICHLOROETHANE-D4	5 U
1,2-DICHLOROETHENE	5 U
1,2-DICHLOROPROPANE	5 U
2-BUTANONE	11 U
2-HEXANONE	11 U
4-METHYL-2-PENTANONE	11 U
SURR 1(TOL) %RECOVERY	103
SURR 2(BFB) %RECOVERY	93
SURR 3(DCE) %RECOVERY	96

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M/E 50

TABLE D.7.12 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0811

AREA

LOCATION	ARROYO SECO
TYPE OF LOCATION	ARROYO
SAMPLE NUMBER	LL002019A
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	1

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

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INTERNAL STD AREA(BCM)	3760000
INTERNAL STD AREA(CBZ)	2E+07
INTERNAL STD AREA(DFB)	2E+07

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DILUTION FACTOR	1.06
PERCENT MOISTURE	5.3
ACTUAL(ALLOWED) HOLD TIME	7(14 D)

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TABLE D.7.13 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0812

AREA	QA TUNED CALIBRATION LL0812875	QA CONTINUING CALIBRATION LL0812877	QA CONTINUING CAL XD LL0812877	QA ISTD SHIFT LL0812878	RET	TIM	METHOD	ARROYO SECO ARROYO LL002031A	LAS POSITAS ARROYO LL006046A
LOCATION	WATER %	WATER RRF	WATER %	WATER AREA	BLANK	WATER UG/L	SOIL UG/KG	WATER UG/L	WATER UG/L
ACETONE	0.481	4.1			13		14 B	16 B	
BENZENE	0.902	5.3			5 U		5 U	5 U	
BROMODICHLOROMETHANE	0.458	10.6			5 U		5 U	5 U	
BROMOFLUOROBENZENE	0.613	9			10 U		11 U	10 U	
BROMOFORM	0.299	8.2			5 U		5 U	5 U	
BROMOMETHANE	0.521	5			5 U		11 U	10 U	
CARBON DISULFIDE	2.816	20.8			5 U		5 U	5 U	
CARBON TETRACHLORIDE	0.408	8.6			5 U		5 U	5 U	
CHLOROBENZENE	1.047	5.7			5 U		5 U	5 U	
CHLOROETHANE	0.311	8.5			10 U		11 U	10 U	
CHLOROFORM	2.759	2.1			5 U		5 U	5 U	
CHLOROMETHANE	0.492	41.3			10 U		11 U	10 U	
CIS-1,3-DICHLOROPROPENE	0.316	5.2			5 U		5 U	5 U	
DIBROMOCHLOROMETHANE	0.403	0.6			5 U		5 U	1 JB	
ETHYL BENZENE	0.558	3			1 U		5 U	5 U	
METHYLENE CHLORIDE	1.722	4.6			12		28 B	13 B	
STYRENE	1.117	2.8			5 U		5 U	5 U	
TETRACHLOROETHENE	0.418	0.4			5 U		5 U	5 U	
TOLUENE	0.845	3.3			0.9 J		5 U	2 JB	
TOLUENE-D8	1.192	5.5							
TRANS-1,3-DICHLOROPROPENE	0.629	6.4			5 U		5 U	5 U	
TRICHLOROETHENE	0.375	1.7			5 U		5 U	5 U	
VINYL ACETATE	0.332	24.3			10		11 U	10 U	
VINYL CHLORIDE	0.413	19.8			10 U		11 U	10 U	
XYLENE (TOTAL)	0.656	3.7			5 U		5 U	5 U	
1,1-DICHLOROETHANE	2.147	9.2			5 U		5 U	5 U	
1,1,1-DICHLOROETHENE	1.093	9.2			5 U		5 U	5 U	
1,1,1-TRICHLOROETHANE	0.413	11			5 U		5 U	5 U	
1,1,2-TRICHLOROETHANE	0.284	2.1			5 U		5 U	5 U	
1,1,2,2-TETRACHLOROETHANE	0.505	11			5 U		5 U	5 U	
1,2-DICHLOROETHANE	2.075	8.9			5 U		5 U	5 U	
1,2-DICHLOROETHANE-D4	1.703	16.6							
1,2-DICHLOROETHENE	1.326	3.5			5 U		5 U	5 U	
1,2-DICHLOROPROPANE	0.26	11			5 U		5 U	5 U	
2-BUTANONE	0.026	15.2			10 U		11 U	10 U	
2-HEXANONE	0.219	17.6			10 U		11 U	10 U	
4-METHYL-2-PENTANONE	0.276	21.9			10 U		11 U	10 U	
SURR 1(TOL) %RECOVERY					98		107	92	

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TABLE D.7.13 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0812

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AREA	QA	QA	QA	QA	QA	ARROYO SECO	LAS POSITAS
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIM	METHOD
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		ARROYO
SAMPLE NUMBER	LL0812875	LL0812877	LL0812877	LL0812878	VBK0812		LL002031A
MATRIX	WATER	WATER	WATER	WATER	WATER		LL006046A
UNITS	%	RRF	%	AREA	UG/L	SOIL	WATER
ENV PROBLEM NO						UG/KG	UG/L
SURR 2(BFB) %RECOVERY					100	100	98
SURR 3(DCE) %RECOVERY					95	100	97
M/E 50	17						
M/E 75	47						
M/E 95	100						
M/E 96	7.7						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	90						
M/E 175-1	7.1						
M/E 175-2	7.9						
M/E 176-1	86						
M/E 176-2	96						
M/E 177-1	6						
M/E 177-2	7						
INTERNAL STD AREA(BCM)				3700000	3820000	2850000	3370000
INTERNAL STD AREA(CBZ)				2E+07	2E+07	1E+07	2E+07
INTERNAL STD AREA(DFB)				2E+07	2E+07	1E+07	2E+07
DILUTION FACTOR					1	1.08	1
PERCENT MOISTURE						7.3	
ACTUAL(ALLOWED) HOLD TIME						8(14 D)	6(14 D)
AREA							
LOCATION	TRAILER STG	TRIP BLANK	RET. BASIN	RET. BASIN	RET. BASIN	RET. BASIN	
TYPE OF LOCATION	ARROYO	TRIP BLANK	ARROYO	ARROYO	ARROYO	ARROYO	
SAMPLE NUMBER	LL003043A	LLN09010A	LL004011A	LL004022A	LL004033A	LL004044A	
MATRIX	WATER	WATER	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	
ENV PROBLEM NO	1	99	1	1	1	1	
ACETONE	10 B	16 B	19 B	18 B	17 B	15 B	
BENZENE	5 U	5 U	5 U	5 U	5 U	5 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	

TABLE D.7.13 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0812

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	TRAILER STG ARROYO LL003043A	TRIP BLANK ARROYO LLN09010A	RET. BASIN ARROYO LL004011A	RET. BASIN ARROYO LL004022A	RET. BASIN ARROYO LL004033A	RET. BASIN ARROYO LL004044A
	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG
BROMOFLUOROBENZENE						
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U	10 U	11 U	11 U	10 U	11 U
CARBON DISULFIDE	5 U	5 U	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	10 U	10 U	11 U	11 U	10 U	11 U
CHLOROFORM	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROMETHANE	10 U	10 U	11 U	11 U	10 U	11 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	1 JB	1 JB	1 JB	5 U	2 JB	23 B
METHYLENE CHLORIDE	13 B	13 B	20 B	18 B	19 B	5 U
STYRENE	5 U	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
TOLUENE	2 JB	1 JB	0.9 JB	0.9 JB	1 JB	5 U
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
VINYL ACETATE	10 U	10 U	11 U	11 U	10 U	11 U
VINYL CHLORIDE	10 U	10 U	11 U	11 U	10 U	11 U
XYLENE (TOTAL)	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	11 U
2-BUTANONE	10 U	10 U	11 U	11 U	10 U	11 U
2-HEXANONE	10 U	10 U	11 U	11 U	10 U	11 U
4-METHYL-2-PENTANONE	10 U	10 U	11 U	11 U	10 U	11 U
SURR 1(TOL) %RECOVERY	94	98	94	92	102	93
SURR 2(BFB) %RECOVERY	104	107	101	100	104	100
SURR 3(DCE) %RECOVERY	103	109	108	105	105	104

M/E 50

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TABLE D.7.13 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0812

## AREA

LOCATION	TRAILER STG	TRIP BLANK	RET. BASIN	RET. BASIN	RET. BASIN	RET. BASIN
TYPE OF LOCATION	ARROYO	TRIP BLANK	ARROYO	ARROYO	ARROYO	ARROYO
SAMPLE NUMBER	LL003043A	LLN09010A	LL004011A	LL004022A	LL004033A	LL004044A
MATRIX	WATER	WATER	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	99	1	1	1	1

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

INTERNAL STD AREA(BCM)	3370000	3330000	3040000	3110000	3010000	2990000
INTERNAL STD AREA(CBZ)	2E+07	2E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07	2E+07	2E+07

DILUTION FACTOR	1	1	1.08	1.09	1.04	1.07
PERCENT MOISTURE			7.6	8.4	4	6.9
ACTUAL(ALLOWED) HOLD TIME	6(14 D)	5(14 D)	7(14 D)	7(14 D)	7(14 D)	7(14 D)

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TABLE D.7.14 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0813

AREA	QA TUNED CALIBRATION LL0813875	QA CONTINUING CALIBRATION LL0813877	QA CONTINUING CAL XD LL0813877	QA ISTD SHIFT LL0813878	QA RET TIM BLANK VBK0813	QA METHOD WATER WATER UG/L	QA BLDG. 805 DRAINS LL033016A	QA MATRIX SPIKE LL033016A
LOCATION	TYPE OF LOCATION	SAMPLE NUMBER	MATRIX	UNITS	ENV PROBLEM NO		6	6
				X				
				RRF				
ACETONE		0.585	16.7			13	58 B	55 B
BENZENE		0.972	2			5 U	1 J	65 MS
BROMODICHLOROMETHANE		0.47	8.4			5 U	5 U	5 U
BROMOFLUOROBENZENE		0.658	2.3					
BROMOFORM		0.301	7.5			5 U	5 U	5 U
BROMOMETHANE		0.838	68.8			10 U	10 U	10 U
CARBON DISULFIDE		3.942	10.8			5 U	5 U	5 U
CARBON TETRACHLORIDE		0.427	4.2			5 U	5 U	5 U
CHLOROBENZENE		1.105	11.6			5 U	5 U	53 MS
CHLOROETHANE		0.516	80.2			10 U	10 U	10 U
CHLOROFORM		3.082	9.4			10 U	10 U	10 U
CHLOROMETHANE		1.006	20			10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.325	2.6			10 U	10 U	10 U
DIBROMOCHLOROMETHANE		0.404	0.5			5 U	5 U	5 U
ETHYLBENZENE		0.598	10.5			10 U	10 U	10 U
METHYLENE CHLORIDE		1.543	14.5			5 U	5 U	41 MS
STYRENE		1.184	8.9			5 U	5 U	10 U
TETRACHLOROETHENE		0.458	10			5 U	5 U	5 U
TOLUENE		0.907	10.9			0.9	5 JB	74 MS
TOLUENE-D8		1.308	3.7					
TRANS-1,3-DICHLOROPROPENE		0.657	2.2			5 U	5 U	5 U
TRICHLOROETHENE		0.389	5.4			5 U	5 U	48 MS
VINYL ACETATE		0.356	33.1			10 U	10 U	10 U
VINYL CHLORIDE		0.796	54.4			10 U	10 U	10 U
XYLENE (TOTAL)		0.717	13.4			5 U	5 U	5 U
1,1-DICHLOROETHANE		2.492	5.6			5 U	5 U	5 U
1,1-DICHLOROETHENE		1.377	14.4			5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.447	3.8			5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		0.275	1.2			5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.525	7.5			5 U	5 U	5 U
1,2-DICHLOROETHANE		2.192	3.8			5 U	5 U	5 U
1,2-DICHLOROETHANE-D4		1.845	9.6			5 U	5 U	5 U
1,2-DICHLOROETHENE		1.555	13.1			5 U	5 U	5 U
1,2-DICHLOROPROPANE		0.273	6.8			5 U	5 U	5 U
2-BUTANONE		0.027	10.8			10 U	10 U	10 U
2-HEXANONE		0.244	8.3			10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.29	17.9			10 U	4 J	5 J
SURR 1(TOL) %RECOVERY						97	126 X	119 X

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TABLE D.7.14 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0813

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIM	METHOD
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		
SAMPLE NUMBER	LL0813875	LL0813877	LL0813877	LL0813878	VBK0813		
MATRIX	WATER	WATER	WATER	WATER	WATER		
UNITS	%	RRF	%	AREA	UG/L		
ENV PROBLEM NO							
SURR 2(BFB) %RECOVERY					99	84	72 *
SURR 3(DCE) %RECOVERY					93	99	99
M/E 50	16						
M/E 75	46						
M/E 95	100						
M/E 96	7.9						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	89						
M/E 175-1	6.4						
M/E 175-2	7.2						
M/E 176-1	85						
M/E 176-2	96						
M/E 177-1	6.2						
M/E 177-2	7.3						
INTERNAL STD AREA(BCM)				3540000	3700000	2590000	2600000
INTERNAL STD AREA(CBZ)				2E+07	2E+07	6440000	6150000
INTERNAL STD AREA(DFB)				2E+07	2E+07	1E+07	1E+07
DILUTION FACTOR					1	1.01	1.01
PERCENT MOISTURE						1.3	1.3
ACTUAL(ALLOWED) HOLD TIME						8(14 D)	8(14 D)
AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	MS %	RPD	MATRIX SPIKE	MSD %	BLDG. 805	BLDG. 805	865 AREA
TYPE OF LOCATION	RECOVERY		DUPLICATE	RECOVERY	DRAINS	DRAINS	DITCH
SAMPLE NUMBER	LL033016A	LL033016A	LL033016A	LL033016A	LL033027A	LL033038A	LL039012A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	%	%	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	6	6	6	6	6	6	11
ACETONE			78 B		62 B	96 B	14 B
BENZENE	105	12	74 MS	119	4 J	3 J	6 U
BROMODICHLOROMETHANE			5 U		5 U	5 U	6 U

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TABLE D.7.14 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0813

AREA	QA	QA	QA	QA	BLDG. 805	BLDG. 805	865 AREA
LOCATION	MS X RECOVERY	RPD	MATRIX SPIKE	MSD X RECOVERY	DRAINS	DRAINS	DITCH
TYPE OF LOCATION	LL033016A	LL033016A	DUPLICATE	LL033016A	LL033027A	LL033038A	LL039012A
SAMPLE NUMBER							
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	%	%	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	6	6	6	6	6	6	11
BROMOFLUOROBENZENE							
BROMOFORM							
BROMOMETHANE							
CARBON DISULFIDE							
CARBON TETRACHLORIDE							
CHLOROBENZENE							
CHLOROETHANE	84	10	59 MS	93			
CHLOROFORM			10 U				
CHLORMETHANE			5 U				
CIS-1,3-DICHLOROPROPENE			7				
DIBROMOCHLOROMETHANE			10 U				
ETHYL BENZENE			5 U				
METHYLENE CHLORIDE			5 U				
STYRENE			32				
TETRACHLOROETHENE			5 U				
TOLUENE	117	15	85 MS	137			
TOLUENE-D8			5 U				
TRANS-1,3-DICHLOROPROPENE			53 MS				
TRICHLOROETHENE	76	8	10 U				
VINYL ACETATE			10 U				
VINYL CHLORIDE			10 U				
XYLENE (TOTAL)			5 U				
1,1-DICHLOROETHANE			5 U				
1,1-DICHLOROETHENE	91	7	58 MS	98			
1,1,1-TRICHLOROETHANE			4 J				
1,1,2-TRICHLOROETHANE			5 JUU				
1,1,2,2-TETRACHLOROETHANE			5 UUU				
1,2-DICHLOROETHANE			5 U				
1,2-DICHLOROETHANE-D4			5 U				
1,2-DICHLOROETHENE			5 U				
1,2-DICHLOROPROPANE			5 U				
2-BUTANONE			46				
2-HEXANONE			10 U				
4-METHYL-2-PENTANONE			7 J				
SURR 1(TOL) %RECOVERY			135 *				
SURR 2(BFB) %RECOVERY			71 *				
SURR 3(DCE) %RECOVERY			102				
M/E	50						
				116	132 *	107	
				76	82	88	
				100	94	112	

TABLE D.7.14 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0813

AREA	QA	QA	QA	QA	BLDG. 805	BLDG. 805	865 AREA
LOCATION	MS %	RPD	MATRIX	SPIKE	MSD %	DRAINS	DRAINS
TYPE OF LOCATION	RECOVERY		DUPLICATE	RECOVERY		LL033027A	LL033038A
SAMPLE NUMBER	LL033016A	LL033016A	LL033016A	LL033016A			LL039012A
MATRIX	SOIL	SOIL	SOIL	SOIL		SOIL	SOIL
UNITS	%	%	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	6	6	6	6	6	6	11
M/E 75							
M/E 95							
M/E 96							
M/E 173-1							
M/E 173-2							
M/E 174							
M/E 175-1							
M/E 175-2							
M/E 176-1							
M/E 176-2							
M/E 177-1							
M/E 177-2							
INTERNAL STD AREA(BCM)		2540000		2200000	2240000	1980000	
INTERNAL STD AREA(CBZ)		5030000		5960000	4570000	8490000	
INTERNAL STD AREA(DFB)		1E+07		1E+07	8940000	1E+07	
DILUTION FACTOR		1.01		1.02	1.02	1.24	
PERCENT MOISTURE		1.3		2.3	1.6	19.4	
ACTUAL(ALLOWED) HOLD TIME		8(14 D)		8(14 D)	8(14 D)	8(14 D)	
AREA							
LOCATION	865 AREA	865 AREA					
TYPE OF LOCATION	DITCH	DITCH					
SAMPLE NUMBER	LL039023A	LL039034A					
MATRIX	SOIL	SOIL					
UNITS	UG/KG	UG/KG					
ENV PROBLEM NO	11	11					
ACETONE	12 U	12 U					
BENZENE	6 U	6 U					
BROMODICHLOROMETHANE	6 U	6 U					
BROMOFLUOROBENZENE							
BROMOFORM	6 U	6 U					
BROMOMETHANE	12 U	12 U					
CARBON DISULFIDE	6 U	6 U					

TABLE D.7.14 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0813

## AREA

LOCATION	865 AREA	865 AREA
TYPE OF LOCATION	DITCH	DITCH
SAMPLE NUMBER	LL039023A	LL039034A
MATRIX	SOIL	SOIL
UNITS	UG/KG	UG/KG
ENV PROBLEM NO	11	11
CARBON TETRACHLORIDE	6 U	6 U
CHLOROBENZENE	6 U	6 U
CHLOROETHANE	12 U	12 U
CHLOROFORM	6 U	2 U
CHLOROMETHANE	12 U	12 U
CIS-1,3-DICHLOROPROPENE	6 U	6 U
DIBROMOCHLOROMETHANE	6 U	6 U
ETHYLBENZENE	6 U	6 U
METHYLENE CHLORIDE	11 U	7 U
STYRENE	6 U	6 U
TETRACHLOROETHENE	6 U	6 U
TOLUENE	1 JB	6 U
TOLUENE-D8		
TRANS-1,3-DICHLOROPROPENE	6 U	6 U
TRICHLOROETHENE	6 U	6 U
VINYL ACETATE	12 U	12 U
VINYL CHLORIDE	12 U	12 U
XYLENE (TOTAL)	6 U	6 U
1,1-DICHLOROETHANE	6 U	6 U
1,1-DICHLOROETHENE	6 U	6 U
1,1,1-TRICHLOROETHANE	6 U	6 U
1,1,2-TRICHLOROETHANE	6 U	6 U
1,1,2,2-TETRACHLOROETHANE	6 U	6 U
1,2-DICHLOROETHANE	6 U	6 U
1,2-DICHLOROETHANE-D4		
1,2-DICHLOROETHENE	6 U	6 U
1,2-DICHLOROPROPANE	6 U	6 U
2-BUTANONE	12 U	12 U
2-HEXANONE	12 U	12 U
4-METHYL-2-PENTANONE	12 U	12 U
SURR 1(TOL) %RECOVERY	105	88
SURR 2(BFB) %RECOVERY	93	105
SURR 3(DCE) %RECOVERY	100	107
M/E 50		
M/E 75		
M/E 95		
M/E 96		

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TABLE D.7.14 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0813

AREA

LOCATION	865 AREA	865 AREA
TYPE OF LOCATION	DITCH	DITCH
SAMPLE NUMBER	LL039023A	LL039034A
MATRIX	SOIL	SOIL
UNITS	UG/KG	UG/KG
ENV PROBLEM NO	11	11

M/E 173-1  
 M/E 173-2  
 M/E 174  
 M/E 175-1  
 M/E 175-2  
 M/E 176-1  
 M/E 176-2  
 M/E 177-1  
 M/E 177-2

INTERNAL STD AREA(BCM)	2850000	2490000
INTERNAL STD AREA(CBZ)	1E+07	9310000
INTERNAL STD AREA(DFB)	1E+07	1E+07

DILUTION FACTOR	1.16	1.25
PERCENT MOISTURE	13.8	19.8
ACTUAL(ALLOWED) HOLD TIME	9(14 D)	9(14 D)

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TABLE D.7.15 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0814

AREA	QA	QA	QA	QA	QA	865 AREA	LAS POSITAS
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL ZD	ISTD SHIFT	RET TIM	METHOD	ARROYO
TYPE OF LOCATION	LL0814875	LL0814877	LL0814877	LL0814878	BLANK	VBK0814	LL008037A
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER	UG/L	SOIL
MATRIX	X	RRF	%	AREA	UG/L	UG/KG	UG/KG
UNITS						11	1
ENV PROBLEM NO							
ACETONE	0.427	14.9		13	44	B	44 B
BENZENE	0.87	8.6		5 U	7 U		6 U
BROMODICHLOROMETHANE	0.492	4		5 U	7 U		6 U
BROMOFLUOROBENZENE	0.668	0.8		5 U	7 U		6 U
BROMOFORM	0.287	11.8		5 U	15 U		11 U
BROMOMETHANE	0.639	28.7		10 U	2 J		12 J
CARBON DISULFIDE	3.289	7.5		5 U	7 U		6 U
CARBON TETRACHLORIDE	0.446	0.1		5 U	7 U		6 U
CHLOROBENZENE	1.004	1.3		5 U	7 U		6 U
CHLOROETHANE	0.43	50.3		10 U	15 U		11 U
CHLOROFORM	2.567	8.9		5 U	7 U		11 U
CHLOROMETHANE	0.846	1		10 U	15 U		11 U
CLS-1,3-DICHLOROPROPENE	0.311	6.6		5 U	7 U		6 U
DIBROMOCHLOROMETHANE	0.394	2.9		5 U	7 U		4 JB
ETHYL BENZENE	0.547	1.1		2 J	4 JB		4 JB
METHYLENE CHLORIDE	1.301	28		5 U	7 U		6 U
STYRENE	1.064	2.1		5 U	7 U		6 U
TETRACHLOROETHENE	0.405	2.6		5 U	7 U		6 U
TOLUENE	0.82	0.3		1	2 JB		2 JB
TOLUENE-D8	1.322	4.8					
TRANS-1,3-DICHLOROPROPENE	0.609	9.4		5 U	7 U		6 U
TRICHLOROETHENE	0.359	2.6		5 U	7 U		6 U
VINYL ACETATE	0.4	49.5		10 U	15 U		11 U
VINYL CHLORIDE	0.634	22.9		10 U	15 U		11 U
XYLENE (TOTAL)	0.639	1		5 U	7 U		6 U
1,1-DICHLOROETHANE	2.087	11.7		5 U	7 U		6 U
1,1-DICHLOROETHENE	1.159	3.7		5 U	7 U		6 U
1,1,1-TRICHLOROETHANE	0.461	0.7		5 U	7 U		6 U
1,1,2-TRICHLOROETHANE	0.269	3.2		5 U	7 U		6 U
1,1,2,2-TETRACHLOROETHANE	0.498	12.3		5 U	7 U		6 U
1,2-DICHLOROETHANE	1.957	14.1		5 U	7 U		6 U
1,2-DICHLOROETHANE-D4	1.817	11					
1,2-DICHLOROETHENE	1.292	6		5 U	7 U		6 U
1,2-DICHLOROPROPANE	0.255	12.8		5 U	7 U		6 U
2-BUTANONE	0.029	4.5		10 U	15 U		11 U
2-HEXANONE	0.202	24		10 U	15 U		11 U
4-METHYL-2-PENTANONE	0.225	36.5		10 U	15 U		11 U
SURR 1(TOL) %RECOVERY				99	133 X		110

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TABLE D.7.15 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0814

AREA	QA	QA	QA	QA	QA	865 AREA	LAS POSITAS
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	RET TIM METHOD	DITCH	ARROYO
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	LL0814878	BLANK	LL039045A	LL008037A
SAMPLE NUMBER	LL0814875	LL0814877	LL0814877	VBK0814			
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						11	1
SURR 2(BFB) %RECOVERY					101	110	89
SURR 3(DCE) %RECOVERY					98	128 *	123 *
M/E 50		18					
M/E 75		49					
M/E 95		100					
M/E 96		6.1					
M/E 173-1		0					
M/E 173-2		0					
M/E 174		88					
M/E 175-1		6.9					
M/E 175-2		7.9					
M/E 176-1		88					
M/E 176-2		99					
M/E 177-1		5.1					
M/E 177-2		5.8					
INTERNAL STD AREA(BCM)				3630000	3670000	2580000	137000
INTERNAL STD AREA(CBZ)				2E+07	2E+07	1E+07	766000
INTERNAL STD AREA(DFB)				2E+07	2E+07	1E+07	900000
DILUTION FACTOR						1	1.46
PERCENT MOISTURE							1.1
ACTUAL(ALLOWED) HOLD TIME							31.3
							9(14 D)
							7(14 D)
AREA							
LOCATION	LAS POSITAS	GSA AREA	LAS POSITAS	LAS POSITAS	GSA AREA		
TYPE OF LOCATION	ARROYO	WELLS	ARROYO	ARROYO	WELLS		
SAMPLE NUMBER	LL006035A	LL036064A	LL008026A	LL006024A	LL036053A		
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL		
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG		
ENV PROBLEM NO	1	9	1	1	9		
ACETONE	18 B	19 B	18 B	22 B	19 B		
BENZENE	5 U	6 U	6 U	6 U	6 U		
BROMODICHLOROMETHANE	5 U	6 U	6 U	6 U	6 U		

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TABLE D.7.15 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0814

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	LAS POSITAS ARROYO WELLS UG/KG 1	GSA AREA WELLS UG/KG 9	LAS POSITAS ARROYO WELLS UG/KG 1	LAS POSITAS ARROYO WELLS UG/KG 1	GSA AREA WELLS SOIL UG/KG 9
BROMOFLUOROBENZENE					
BROMOFORM	5 U	6 U	6 U	6 U	6 U
BROMOMETHANE	11 U	11 U	11 U	11 U	12 U
CARBON DISULFIDE	5 U	6 U	6 U	6 U	6 U
CARBON TETRACHLORIDE	5 U	6 U	6 U	6 U	6 U
CHLOROBENZENE	5 U	6 U	6 U	6 U	6 U
CHLOROETHANE	11 U	11 U	11 U	11 U	12 U
CHLOROFORM	5 U	6 U	6 U	6 U	6 U
CHLOROMETHANE	11 U	11 U	11 U	11 U	12 U
CIS-1,3-DICHLOROPROPENE	5 U	6 U	6 U	6 U	6 U
DIBROMOCHLOROMETHANE	5 U	6 U	6 U	6 U	6 U
ETHYL BENZENE	2 JB	2 JB	6 U	2 JB	6 U
METHYLENE CHLORIDE	6 U	6 U	6 U	6 U	6 U
STYRENE	5 U	6 U	6 U	6 U	6 U
TETRACHLOROETHENE	5 U	6 U	6 U	6 U	6 U
TOLUENE	1 JB	1 JB	1 JB	1 JB	6 U
TOLUENE-D8					
TRANS-1,3-DICHLOROPROPENE	5 U	6 U	6 U	6 U	6 U
TRICHLOROETHENE	5 U	6 U	6 U	6 U	6 U
VINYL ACETATE	11 U	11 U	11 U	11 U	12 U
VINYL CHLORIDE	11 U	11 U	11 U	11 U	12 U
XYLENE (TOTAL)	5 U	6 U	6 U	6 U	6 U
1,1-DICHLOROETHANE	5 U	6 U	6 U	6 U	6 U
1,1-DICHLOROETHENE	5 U	6 U	6 U	6 U	6 U
1,1,1-TRICHLOROETHANE	5 U	6 U	6 U	6 U	6 U
1,1,2-TRICHLOROETHANE	5 U	6 U	6 U	6 U	6 U
1,1,2,2-TETRACHLOROETHANE	5 U	6 U	6 U	6 U	6 U
1,2-DICHLOROETHANE	5 U	6 U	6 U	6 U	6 U
1,2-DICHLOROETHANE-D4					
1,2-DICHLOROETHENE	5 U	6 U	6 U	6 U	6 U
1,2-DICHLOROPROPANE	5 U	6 U	6 U	6 U	6 U
2-BUTANONE	11 U	11 U	11 U	11 U	12 U
2-HEXANONE	11 U	11 U	11 U	11 U	12 U
4-METHYL-2-PENTANONE	11 U	11 U	11 U	11 U	12 U
SURR 1(TOL) %RECOVERY	101	100	97	99	108
SURR 2(BFB) %RECOVERY	91	98	98	101	106
SURR 3(DCE) %RECOVERY	99	100	96	95	100

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M/E 50

TABLE D.7.15 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0814

AREA

LOCATION TYPE OF LOCATION	LAS POSITAS ARROYO	GSA AREA WELLS	LAS POSITAS ARROYO	LAS POSITAS ARROYO	GSA AREA WELLS
SAMPLE NUMBER	LL006035A	LL036064A	LL008026A	LL006024A	LL036053A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	9	1	1	9

M/E 75  
 M/E 95  
 M/E 96  
 M/E 173-1  
 M/E 173-2  
 M/E 174  
 M/E 175-1  
 M/E 175-2  
 M/E 176-1  
 M/E 176-2  
 M/E 177-1  
 M/E 177-2

INTERNAL STD AREA(BCM)	3340000	2930000	3340000	2980000	2950000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07	1E+07

DILUTION FACTOR	1.08	1.1	1.1	1.1	1.19
PERCENT MOISTURE	7.6	9.2	9.1	8.7	15.9
ACTUAL(ALLOWED) HOLD TIME	8(14 D)	10(14 D)	7(14 D)	9(14 D)	9(14 D)

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TABLE D.7.16 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0815

AREA	QA	QA	QA	QA	QA	BLDG. 322	BLDG. 321
LOCATION	TUNED CALIBRATION	CONTINUING CALibration	CONTINUING CAL XD	ISTD SHIFT	RET	SEWERS	SEWERS
TYPE OF LOCATION	LL0815875	LL0815877	LL0815877	LL0815878	BLANK	LL012599A	LL012828A
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX	X	RRF	X	AREA	UG/L	UG/L	UG/L
UNITS							
ENV PROBLEM NO						2	2
ACETONE	0.515	2.7		12	U	10	B
BENZENE	0.897	5.8		5	U	5	U
BROMODICHLOROMETHANE	0.469	8.6		5	U	5	U
BROMOFLUOROBENZENE	0.72	6.9		5	U	5	U
BROMOFORM	0.307	5.8		5	U	5	U
BROMOMETHANE	0.732	47.4		10	U	10	U
CARBON DISULFIDE	3.545	0.3		5	U	5	U
CARBON TETRACHLORIDE	0.426	4.6		5	U	5	U
CHLOROBENZENE	1.154	16.5		5	U	5	U
CHLOROETHANE	0.439	53.2		10	U	10	U
CHLOROFORM	2.919	3.6		5	U	19	17
CHLOROMETHANE	0.878	4.9		10	U	10	U
CIS-1,3-DICHLOROPROPENE	0.307	7.8		5	U	5	U
DIBROMOCHLOROMETHANE	0.401	1.3		5	U	5	U
ETHYLBENZENE	0.661	22.2		1	JB	1	JB
METHYLENE CHLORIDE	1.46	19.1		5	U	5	U
STYRENE	1.319	21.4		5	U	5	U
TETRACHLOROETHENE	0.499	20.1		5	U	5	U
TOLUENE	0.991	21.2		0.8	J	0.8	JB
TOLUENE-D8	1.411	11.9					1 JB
TRANS-1,3-DICHLOROPROPENE	0.602	10.4		5	U	5	U
TRICHLOROETHENE	0.35	5		5	U	5	U
VINYL ACETATE	0.37	38.3		10	U	10	U
VINYL CHLORIDE	0.669	29.8		10	U	10	U
XYLENE (TOTAL)	0.804	27.2		5	U	5	U
1,1-DICHLOROETHANE	2.407	1.8		5	U	5	U
1,1-DICHLOROETHENE	1.291	7.2		5	U	5	U
1,1,1-TRICHLOROETHANE	0.436	6.1		5	U	5	U
1,1,2-TRICHLOROETHANE	0.276	0.6		5	U	5	U
1,1,2,2-TETRACHLOROETHANE	0.589	3.8		5	U	5	U
1,2-DICHLOROETHANE	2.205	3.2		5	U	5	U
1,2-DICHLOROETHANE-D4	1.818	11					
1,2-DICHLOROETHENE	1.469	6.9		5	U	5	U
1,2-DICHLOROPROPANE	0.242	17.3		5	U	5	U
2-BUTANONE	0.029	5.4		10	U	10	U
2-HEXANONE	0.247	7.3		10	U	10	U
4-METHYL-2-PENTANONE	0.31	12.4		10	U	10	U
SURR 1(TOL) %RECOVERY				90		91	92

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TABLE D.7.16 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0815

AREA	QA	QA	QA	QA	QA	QA	BLDG. 322	BLDG. 321
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIM	METHOD	SEWERS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK			SEWERS
SAMPLE NUMBER	LL0815875	LL0815877	LL0815877	LL0815878	VBK0815		LL012599A	LL012828A
MATRIX	WATER	WATER	WATER	WATER	WATER		WATER	WATER
UNITS	%	RRF	%	AREA	UG/L		UG/L	UG/L
ENV PROBLEM NO							2	2
SURR 2(BFB) %RECOVERY					94		91	93
SURR 3(DCE) %RECOVERY					101		98	91
M/E 50	16							
M/E 75	45							
M/E 95	100							
M/E 96	5.2							
M/E 173-1	0							
M/E 173-2	0							
M/E 174	90							
M/E 175-1	7							
M/E 175-2	7.7							
M/E 176-1	87							
M/E 176-2	96							
M/E 177-1	4.4							
M/E 177-2	5							
INTERNAL STD AREA(BCM)				3850000	3700000	3640000	3790000	
INTERNAL STD AREA(CBZ)				2E+07	2E+07	2E+07	2E+07	
INTERNAL STD AREA(DFB)				2E+07	2E+07	2E+07	2E+07	
DILUTION FACTOR					1	1	1	
PERCENT MOISTURE								
ACTUAL(ALLOWED) HOLD TIME					9(14 D)	9(14 D)		
AREA								
LOCATION	BLDG. 169	BLDG. 321	BLDG. 298	BLDG. 298				
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS				
SAMPLE NUMBER	LL012895A	LL012862A	LL012908A	LL012851A				
MATRIX	WATER	WATER	WATER	WATER				
UNITS	UG/L	UG/L	UG/L	UG/L				
ENV PROBLEM NO	2	2	2	2				
ACETONE	75 B	13 B	22 B	41 B				
BENZENE	5 U	5 U	5 U	5 U				
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U				

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TABLE D.7.16 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0815

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 169 SEWERS LL012895A	BLDG. 321 SEWERS LL012862A	BLDG. 298 SEWERS LL012908A	BLDG. 298 SEWERS LL012851A
	2	2	2	2
BROMOFLUOROBENZENE				
BROMOFORM	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U	10 U	10 U	10 U
CARBON DISULFIDE	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U
CHLOROETHANE	10 U	10 U	10 U	10 U
CHLOROFORM	11 U	14 U	10 U	17 U
CHLORMETHANE	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U
ETHYLBENZENE	1 JB	1 JB	1 JB	2 JB
METHYLENE CHLORIDE	44 U	5 U	5 U	5 U
STYRENE	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U
TOLUENE	1 JB	1 JB	1 JB	0.9 JB
TOLUENE-D8				
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U
VINYL ACETATE	10 U	10 U	10 U	10 U
VINYL CHLORIDE	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4	5 U	5 U	5 U	5 U
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U
2-BUTANONE	10 U	10 U	10 U	10 U
2-HEXANONE	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U
SURR 1(TOL) %RECOVERY	86 *	83 *	94	83 *
SURR 2(BFB) %RECOVERY	84 *	88	89	90
SURR 3(DCE) %RECOVERY	90	93	95	97

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M/E 50

TABLE D.7.16 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0815

AREA

LOCATION	BLDG. 169	BLDG. 321	BLDG. 298	BLDG. 298
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL012895A	LL012862A	LL012908A	LL012851A
MATRIX	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2

M/E 75  
 M/E 95  
 M/E 96  
 M/E 173-1  
 M/E 173-2  
 M/E 174  
 M/E 175-1  
 M/E 175-2  
 M/E 176-1  
 M/E 176-2  
 M/E 177-1  
 M/E 177-2

INTERNAL STD AREA(BCM)	3790000	3710000	3690000	3500000
INTERNAL STD AREA(CBZ)	2E+07	2E+07	2E+07	2E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07

DILUTION FACTOR	1	1	1	1
PERCENT MOISTURE				
ACTUAL(ALLOWED) HOLD TIME	10(14 D)	10(14 D)	10(14 D)	10(14 D)

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TABLE D.7.17 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0816

AREA	QA TUNED CALIBRATION LL0816875 WATER %	QA CONTINUING CALIBRATION LL0816877 WATER RRF	QA CONTINUING CAL XD LL0816877 WATER %	QA ISTD RET SHIFT BLANK WATER AREA	QA METHOD VBK0816 WATER UG/L	SPRAY BOOTH SPRAY BOOTH SN006014A WATER UG/L 3	SPRAY BOOTH SPRAY BOOTH SN006025A WATER UG/L 3
ACETONE	0.495		26.3		14	78 B	94 B
BENZENE	0.837		13.1	5 U	5 U	5 U	5 U
BROMODICHLOROMETHANE	0.463		13.5	5 U	5 U	5 U	5 U
BROMOFLUOROBENZENE	0.705		1.2				
BROMOFORM	0.306		17.5				
BROMOMETHANE	0.87		66.4	10 U	10 U	10 U	10 U
CARBON DISULFIDE	3.811		4.5	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	0.429		11	5 U	5 U	5 U	5 U
CHLOROBENZENE	1.201		24.9	5 U	5 U	5 U	5 U
CHLOROETHANE	0.456		21.8	10 U	10 U	10 U	10 U
CHLOROFORM	3.02		1.3	5 U	5 U	5 U	5 U
CHLOROMETHANE	0.935		23.2	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	0.299		15.3	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	0.382		17.3	5 U	5 U	5 U	5 U
ETHYL BENZENE	0.637		25.6	10 U	10 U	10 U	10 U
METHYLENE CHLORIDE	1.522		19.5	5 U	5 U	5 U	5 U
STYRENE	1.32		26.4	10 U	10 U	10 U	10 U
TETRACHLOROETHENE	0.476		13.1	5 U	5 U	5 U	5 U
TOLUENE	0.982		25.8	0.8	2 JB	1 JB	2 JB
TOLUENE-D8	1.386		9.9			1100 E	1100 E
TRANS-1,3-DICHLOROPROPENE	0.597		12.1			5 U	5 U
TRICHLOROETHENE	0.338		5.9			5 U	5 U
VINYL ACETATE	0.29		25.9			10 U	10 U
VINYL CHLORIDE	0.753		1.9			10 U	10 U
XYLENE (TOTAL)	0.786		32.7			10 U	10 U
1,1-DICHLOROETHANE	2.448		6.9			5 U	5 U
1,1-DICHLOROETHENE	1.32		0.1			5 U	5 U
1,1,1-TRICHLOROETHANE	0.438		17			5 U	5 U
1,1,2-TRICHLOROETHANE	0.264		9.9			5 U	5 U
1,1,2,2-TETRACHLOROETHANE	0.56		2.1			5 U	5 U
1,2-DICHLOROETHANE	2.146		11.9			5 U	5 U
1,2-DICHLOROETHANE-D4	1.784		21.7			5 U	5 U
1,2-DICHLOROETHENE	1.54		6.1			5 U	5 U
1,2-DICHLOROPROPANE	0.245		19.7			5 U	5 U
2-BUTANONE	0.025		36.2			10 U	10 U
2-HEXANONE	0.229		21.2			10 U	10 U
4-METHYL-2-PENTANONE	0.312		22.9			10 U	6 J
SURR 1(TOL) %RECOVERY					94	92	91

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TABLE D.7.17 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0816

AREA	QA	QA	QA	QA	QA	SPRAY BOOTH	SPRAY BOOTH
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	SPRAY BOOTH
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	SPRAY BOOTH	SPRAY BOOTH
SAMPLE NUMBER	LL0816875	LL0816877	LL0816877	LL0816878	VBK0816	SN006014A	SN006025A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						3	3
SURR 2(BFB) %RECOVERY					92	90	82 *
SURR 3(DCE) %RECOVERY					96	100	103
M/E 50	16						
M/E 75	46						
M/E 95	100						
M/E 96	7.1						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	84						
M/E 175-1	7.2						
M/E 175-2	8.6						
M/E 176-1	82						
M/E 176-2	98						
M/E 177-1	5.6						
M/E 177-2	6.8						
INTERNAL STD AREA(BCM)				3680000	3740000	3730000	3620000
INTERNAL STD AREA(CBZ)				2E+07	2E+07	2E+07	2E+07
INTERNAL STD AREA(DFB)				2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR						1	1
PERCENT MOISTURE						1	1
ACTUAL(ALLOWED) HOLD TIME						6(14 D)	6(14 D)
AREA							
LOCATION	SPRAY BOOTH	SPRAY BOOTH	LAS POSITAS	GSA AREA	LAS POSITAS		
TYPE OF LOCATION	SPRAY BOOTH	SPRAY BOOTH	ARROYO	WELLS	ARROYO		
SAMPLE NUMBER	SN006036A	SN006047A	LL006013A	LL036042A	LL005034A		
MATRIX	WATER	WATER	SOIL	SOIL	SOIL		
UNITS	UG/L	UG/L	UG/KG	UG/KG	UG/KG		
ENV PROBLEM NO	3	3	1	9	1		
ACETONE	10 U	6 JB	17 B	19 B	11 U		
BENZENE	5 U	5 U	6 U	6 U	0.8 J		
BROMODICHLOROMETHANE	5 U	5 U	6 U	6 U	6 U		

TABLE D.7.17 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0816

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	SPRAY BOOTH SPRAY BOOTH SN006036A WATER UG/L 3	SPRAY BOOTH SPRAY BOOTH SN006047A WATER UG/L 3	LAS POSITAS ARROYO LL006013A SOIL UG/KG 1	GSA AREA WELLS LL036042A SOIL UG/KG 9	LAS POSITAS ARROYO LL005034A SOIL UG/KG 1
BROMOFLUOROBENZENE					
BROMOFORM	5 U	5 U	6 U	6 U	6 U
BROMOMETHANE	10 U	10 U	12 U	12 U	11 U
CARBON DISULFIDE	5 U	5 U	6 U	6 U	6 U
CARBON TETRACHLORIDE	5 U	5 U	6 U	6 U	6 U
CHLOROBENZENE	5 U	5 U	6 U	6 U	6 U
CHLOROETHANE	10 U	10 U	12 U	12 U	11 U
CHLOROFORM	0.9 U	18 U	12 U	12 U	11 U
CHLOROMETHANE	10 U	10 U	12 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	6 U	6 U	6 U
DIBROMOCHLOROMETHANE	5 U	5 U	6 U	6 U	6 U
ETHYL BENZENE	2 JB	2 JB	2 JB	2 JB	2 JB
METHYLENE CHLORIDE	1100 E	5 U	6 U	6 U	12 U
STYRENE	5 U	5 U	6 U	6 U	6 U
TETRACHLOROETHENE	5 U	5 U	6 U	6 U	6 U
TOLUENE	1 JB	1 JB	1 JB	1 JB	3 JB
TOLUENE-D8					
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	6 U	6 U	6 U
TRICHLOROETHENE	5 U	5 U	6 U	6 U	6 U
VINYL ACETATE	10 U	10 U	12 U	12 U	11 U
VINYL CHLORIDE	10 U	10 U	12 U	12 U	11 U
XYLENE (TOTAL)	2 U	5 U	6 U	6 U	6 U
1,1-DICHLOROETHANE	5 U	5 U	6 U	6 U	6 U
1,1-DICHLOROETHENE	5 U	5 U	6 U	6 U	6 U
1,1,1-TRICHLOROETHANE	2 U	5 U	6 U	6 U	6 U
1,1,2-TRICHLOROETHANE	2 U	5 U	6 U	6 U	6 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	6 U	6 U	6 U
1,2-DICHLOROETHANE	5 U	5 U	6 U	6 U	6 U
1,2-DICHLOROETHANE-D4					
1,2-DICHLOROETHENE	5 U	5 U	6 U	6 U	6 U
1,2-DICHLOROPROPANE	5 U	5 U	6 U	6 U	6 U
2-BUTANONE	10 U	10 U	12 U	12 U	11 U
2-HEXANONE	10 U	10 U	12 U	12 U	11 U
4-METHYL-2-PENTANONE	5 J	10 U	12 U	12 U	11 U
SURR 1(TOL) %RECOVERY	92	93	94	97	95
SURR 2(BFB) %RECOVERY	102	92	89	89	80
SURR 3(DCE) %RECOVERY	98	98	99	95	95

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TABLE D.7.17 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0816

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AREA

LOCATION	SPRAY BOOTH	SPRAY BOOTH	LAS POSITAS	GSA AREA	LAS POSITAS
TYPE OF LOCATION	SPRAY BOOTH	SPRAY BOOTH	ARROYO	WELLS	ARROYO
SAMPLE NUMBER	SN006036A	SN006047A	LL006013A	LL036042A	LL005034A
MATRIX	WATER	WATER	SOIL	SOIL	SOIL
UNITS	UG/L	UG/L	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	3	3	1	9	1
M/E 75					
M/E 95					
M/E 96					
M/E 173-1					
M/E 173-2					
M/E 174					
M/E 175-1					
M/E 175-2					
M/E 176-1					
M/E 176-2					
M/E 177-1					
M/E 177-2					
INTERNAL STD AREA(BCM)	3840000	3730000	3150000	3090000	3400000
INTERNAL STD AREA(CBZ)	2E+07	2E+07	1E+07	1E+07	9820000
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR	1	1	1.09	1.11	1.06
PERCENT MOISTURE					
ACTUAL(ALLOWED) HOLD TIME	7(14 D)	7(14 D)	11(14 D)	12(14 D)	11(14 D)

TABLE D.7.18 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0817

AREA	QA TUNED CALIBRATION LL0817875 WATER X	QA CONTINUING CALIBRATION LL0817877 WATER RRF	QA CONTINUING CAL X/D LL0817877 WATER %	QA ISTD SHIFT LL0817878 WATER AREA	QA RET TIM VBK0817 WATER UG/L	METHOD BLANK WATER UG/L 2	BLDG. 222 SEWERS LL912076A WATER UG/L 2	BLDG. 331 SEWERS LL912134A WATER UG/L 2
ACETONE	0.512		2		10	9 JB	8 JB	
BENZENE	0.853		10.4		5 U	5 U	5 U	5 U
BROMODICHLOROMETHANE	0.5		2.5		5	5 U	5 U	5 U
BROMOFLUOROBENZENE	0.668		0.8		5 U	5 U	5 U	5 U
Bromoform	0.315		3.1		5 U	5 U	5 U	5 U
BROMOMETHANE	0.777		56.6		10 U	10 U	10 U	10 U
CARBON DISULFIDE	3.716		4.5		5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	0.439		1.6		5 U	5 U	5 U	5 U
CHLOROBENZENE	1.128		13.8		10 U	10 U	10 U	10 U
CHLOROETHANE	0.488		70.5		10 U	10 U	10 U	10 U
CHLOROFORM	4.526		60.7		10 U	10 U	10 U	10 U
CHLOROMETHANE	0.833		0.6		10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	0.293		12.2		5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	0.387		4.6		5 U	5 U	5 U	5 U
ETHYL BENZENE	0.601		11.1		1 U	1 JB	1 JB	1 JB
METHYLENE CHLORIDE	1.056		41.5		5 U	5 U	5 U	5 U
STYRENE	1.209		11.3		5 U	5 U	5 U	5 U
TETRACHLOROETHENE	0.458		10		5 U	5 U	5 U	5 U
TOLUENE	0.936		14.5		0.8	1 JB	0.9 JB	
TOLUENE-D8	1.32		4.7					
TRANS-1,3-DICHLOROPROPENE	0.578		14		5 U	5 U	5 U	5 U
TRICHLOROETHENE	0.343		7		5 U	5 U	5 U	5 U
VINYL ACETATE	0.369		38.1		10 U	10 U	10 U	10 U
VINYL CHLORIDE	0.702		36.2		10 U	10 U	10 U	10 U
XYLENE (TOTAL)	0.379		40.1		5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	2.4		1.5		5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	1.332		10.7		5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	0.447		3.7		5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	0.262		5.7		5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	0.542		4.6		5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	2.215		2.8		5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4	1.853		9.2		5 U	5 U	5 U	5 U
1,2-DICHLOROETHENE	1.502		9.3		5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	0.24		18.2		5 U	5 U	5 U	5 U
2-BUTANONE	0.024		20.6		10 U	10 U	10 U	10 U
2-HEXANONE	0.204		23.3		10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	0.281		20.5		10 U	10 U	10 U	10 U
SURR 1(TOL) %RECOVERY					90	94	94	

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TABLE D.7.18 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0817

AREA	QA	QA	QA	QA	QA	BLDG. 222	BLDG. 331
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	SEWERS	SEWERS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LL912076A	LL912134A
SAMPLE NUMBER	LL0817875	LL0817877	LL0817877	LL0817878	VBK0817		
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						2	2
SURR 2(BFB) %RECOVERY					91	94	97
SURR 3(DCE) %RECOVERY					97	101	100
M/E 50		17					
M/E 75		47					
M/E 95		100					
M/E 96		8.2					
M/E 173-1		0					
M/E 173-2		0					
M/E 174		87					
M/E 175-1		6.6					
M/E 175-2		7.5					
M/E 176-1		85					
M/E 176-2		97					
M/E 177-1		6.9					
M/E 177-2		8.2					
INTERNAL STD AREA(BCM)				3480000	3510000	3480000	3380000
INTERNAL STD AREA(CBZ)				2E+07	2E+07	2E+07	2E+07
INTERNAL STD AREA(DBF)				2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR					1	1	1
PERCENT MOISTURE							
ACTUAL(ALLOWED) HOLD TIME					7(14 D)	7(14 D)	
AREA							
LOCATION	BLDG. 151	BLDG. 222	BLDG. 222	BLDG. 511			
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS			
SAMPLE NUMBER	LL912156A	LL912065A	LL912098A	LL912178A			
MATRIX	WATER	WATER	WATER	WATER			
UNITS	UG/L	UG/L	UG/L	UG/L			
ENV PROBLEM NO	2	2	2	2			
ACETONE	490 BE	150 B	11 B	10 U			
BENZENE	5 U	5 U	5 U	5 U			
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U			

TABLE D.7.18 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0817

AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 151 SEWERS LL912156A WATER UG/L 2	BLDG. 222 SEWERS LL912065A WATER UG/L 2	BLDG. 222 SEWERS LL912098A WATER UG/L 2	BLDG. 511 SEWERS LL912178A WATER UG/L 2
<b>BROMOFLUOROBENZENE</b>				
BROMOFORM	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U	10 U	10 U	10 U
CARBON DISULFIDE	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U
CHLOROETHANE	10 U	10 U	10 U	10 U
CHLOROFORM	8	8	15	26
CHLOROMETHANE	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U
ETHYL BENZENE	1 JB	5 U	1 JB	1 JB
METHYLENE CHLORIDE	2 U	3 U	5 U	5 U
STYRENE	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U
TOLUENE	1 JB	1 JB	1 JB	0.7 JB
TOLUENE-D8				
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U
VINYL ACETATE	10 U	10 U	10 U	10 U
VINYL CHLORIDE	10 U	10 U	10 U	10 U
XYLENE (TOTAL)				
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4	5 U	5 U	5 U	5 U
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U
1,2-DICHLOROPROpane	5 U	5 U	5 U	5 U
2-BUTANONE	10 U	10 U	10 U	10 U
2-HEXANONE	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U
SURR 1(TOL) %RECOVERY	78 X	89	85 X	90
SURR 2(BFB) %RECOVERY	93	93	92	90
SURR 3(DCE) %RECOVERY	92	97	95	97

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TABLE D.7.18 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0817

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 151 SEWERS LL912156A	BLDG. 222 SEWERS LL912065A	BLDG. 222 SEWERS LL912098A	BLDG. 511 SEWERS LL912178A
M/E 75				
M/E 95				
M/E 96				
M/E 173-1				
M/E 173-2				
M/E 174				
M/E 175-1				
M/E 175-2				
M/E 176-1				
M/E 176-2				
M/E 177-1				
M/E 177-2				
INTERNAL STD AREA(BCM)	3660000	3420000	3550000	3430000
INTERNAL STD AREA(CBZ)	2E+07	2E+07	2E+07	2E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR	1	1	1	1
PERCENT MOISTURE				
ACTUAL(ALLOWED) HOLD TIME	7(14 D)	7(14 D)	7(14 D)	7(14 D)

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TABLE D.7.19 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0818

AREA	QA	QA	QA	QA	QA	ISTD	RET	TIME	METHOD	BLDG.	241	TRIP	BLANK
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	RET	BLANK	SEWERS		WATER	SEWERS	TRIP	BLANK	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL X/D	LL0818878	BLANK	VBK0818	LL912112A		WATER	WATER	WATER	WATER	
SAMPLE NUMBER	LL0818875	LL0818877	LL0818877	LL0818878	WATER	WATER	WATER		UG/L	UG/L	UG/L	UG/L	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER		UG/L	UG/L	UG/L	UG/L	
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L		UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO										2		99	
ACETONE		0.489	2.4				15			10	U	10	U
BENZENE		0.975	2.4				5	U		5	U	5	U
BROMODICHLOROMETHANE		0.558	8.8				5	U		5	U	5	U
BROMOFLUOROBENZENE		0.64	5				10	U		10	U	10	U
Bromoform		0.332	1.9				5	U		5	U	5	U
BROMOMETHANE		0.697	40.5				10	U		10	U	10	U
CARBON DISULFIDE		3.66	2.9				5	U		5	U	5	U
CARBON TETRACHLORIDE		0.518	16				5	U		5	U	5	U
CHLOROBENZENE		1.157	16.7				10	U		10	U	10	U
CHLOROETHANE		0.391	36.7				5	U		5	U	10	U
CHLOROFORM		3.079	9.3				10	U		12	U	19	U
CHLORMETHANE		0.751	10.4				10	U		10	U	10	U
CIS-1,3-DICHLOROPROPENE		0.335	0.5				5	U		5	U	5	U
DIBROMOCHLOROMETHANE		0.44	8.4				5	U		1	JB	1	JB
ETHYLBENZENE		0.626	15.6				5	U		5	U	5	U
METHYLENE CHLORIDE		1.556	13.8				10	U		10	U	10	U
STYRENE		1.248	14.9				5	U		5	U	5	U
TETRACHLOROETHENE		0.471	13.2				5	U		5	U	5	U
TOLUENE		0.939	14.9				1	JB		1	JB	2	JB
TOLUENE-D8		1.268	0.5				0.9			0.9			
TRANS-1,3-DICHLOROPROPENE		0.7	4.2				5	U		5	U	5	U
TRICHLOROETHENE		0.407	10.4				5	U		5	U	5	U
VINYL ACETATE		0.403	50.9				10	U		10	U	10	U
VINYL CHLORIDE		0.629	22				10	U		10	U	10	U
XYLENE (TOTAL)		0.748	18.3				5	U		5	U	5	U
1,1-DICHLOROETHANE		2.463	4.2				5	U		5	U	5	U
1,1-DICHLOROETHENE		1.307	8.6				5	U		5	U	5	U
1,1,1-TRICHLOROETHANE		0.527	13.6				5	U		5	U	5	U
1,1,2-TRICHLOROETHANE		0.284	2.2				5	U		5	U	5	U
1,1,2,2-TETRACHLOROETHANE		0.526	7.3				5	U		5	U	5	U
1,2-DICHLOROETHANE		2.145	5.8				5	U		5	U	5	U
1,2-DICHLOROETHANE-D4		1.687	17.4				5	U		5	U	5	U
1,2-DICHLOROETHENE		1.54	12				5	U		5	U	5	U
1,2-DICHLOROPROpane		0.285	2.8				5	U		5	U	5	U
2-BUTANONE		0.027	11.1				10	U		10	U	10	U
2-HEXANONE		0.188	29.2				10	U		10	U	10	U
4-METHYL-2-PENTANONE		0.242	31.7				10	U		10	U	10	U
SURR 1(TOL) %RECOVERY							93			101		95	

TABLE D.7.19 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0818

AREA	QA	QA	QA	QA	QA	BLDG. 241	TRIP BLANK
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	RET TIM	METHOD	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	BLANK		SEWERS	TRIP BLANK
SAMPLE NUMBER	LL0818875	LL0818877	LL0818877	LL0818878	VBK0818	LL912112A	LLN15018A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						2	99
SURR 2(BFB) %RECOVERY					97	110	110
SURR 3(DCE) %RECOVERY					96	112	109
M/E 50		16					
M/E 75		46					
M/E 95		100					
M/E 96		9					
M/E 173-1		0					
M/E 173-2		0					
M/E 174		85					
M/E 175-1		7.1					
M/E 175-2		8.3					
M/E 176-1		84					
M/E 176-2		99					
M/E 177-1		6.8					
M/E 177-2		8.1					
INTERNAL STD AREA(BCM)				3450000	3560000	3250000	3190000
INTERNAL STD AREA(CBZ)				2E+07	2E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)				2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR						1	1
PERCENT MOISTURE						1	1
ACTUAL(ALLOWED) HOLD TIME						8(14 D)	7(14 D)
AREA							
LOCATION	BLDG. 222	BLDG. 222	BLDG. 222	BLDG. 222	BLDG. 222	BLDG. 241	
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	
SAMPLE NUMBER	LL912189A	LL912190A	LL912203A	LL912214A	LL912225A	LL912236A	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	2	2	2	2	2	2	
ACETONE	41 B	500 BE	21 B	15 B	260 BE	570 BE	
BENZENE	5 U	5 U	5 U	5 U	8	5 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	

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TABLE D.7.19 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0818

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 222 SEWERS LL912139A WATER UG/L 2	BLDG. 222 SEWERS LL912190A WATER UG/L 2	BLDG. 222 SEWERS LL912203A WATER UG/L 2	BLDG. 222 SEWERS LL912214A WATER UG/L 2	BLDG. 222 SEWERS LL912225A WATER UG/L 2	BLDG. 241 SEWERS LL912236A WATER UG/L 2
<b>BROMOFLUOROBENZENE</b>						
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U					
CARBON DISULFIDE	55 U					
CARBON TETRACHLORIDE	55 U					
CHLOROBENZENE	10 U					
CHLOROETHANE	25 U					
CHLOROFORM	10 U					
CHLOROMETHANE	10 U					
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U
ETHYL BENZENE	1 JB					
METHYLENE CHLORIDE	55 U					
STYRENE	55 U					
TETRACHLOROETHENE	55 U					
TOLUENE	1 JB					
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
VINYL ACETATE	10 U					
VINYL CHLORIDE	10 U					
XYLENE (TOTAL)						
1,1-DICHLOROETHANE	10 U					
1,1-DICHLOROETHENE	55 U					
1,1,1-TRICHLOROETHANE	55 U					
1,1,2-TRICHLOROETHANE	55 U					
1,1,2,2-TETRACHLOROETHANE	55 U					
1,2-DICHLOROETHANE	55 U					
1,2-DICHLOROETHANE-D4	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	10 U					
2-HEXANONE	10 U					
4-METHYL-2-PENTANONE	10 U					
SURR 1(TOL) %RECOVERY	100	101	102	97	102	97
SURR 2(BFB) %RECOVERY	107	111	113	106	111	107
SURR 3(DCE) %RECOVERY	115 *	117 *	117 *	112	110	113

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TABLE D.7.19 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0818

AREA

LOCATION	BLDG. 222	BLDG. 241				
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL912189A	LL912190A	LL912203A	LL912214A	LL912225A	LL912236A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2	2	2

M/E 75  
 M/E 95  
 M/E 96  
 M/E 173-1  
 M/E 173-2  
 M/E 174  
 M/E 175-1  
 M/E 175-2  
 M/E 176-1  
 M/E 176-2  
 M/E 177-1  
 M/E 177-2

INTERNAL STD AREA(BCM)	3180000	3220000	3180000	3170000	3080000	3250000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	1E+07	1E+07	1E+07	2E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07	2E+07	2E+07

DILUTION FACTOR	1	1	1	1	1	1
PERCENT MOISTURE						
ACTUAL(ALLOWED) HOLD TIME	7(14 D)					

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TABLE D.7.20 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0819

AREA	QA	QA	QA	QA	QA	ISTD	RET	TIM	METHOD	TRIP	BLANK	TRIP	BLANK
LOCATION	TUNED	CONTINUING	CONTINUING	SHIFT	BLANK					BLANK		BLANK	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	LL0819878	VBK0819					LLN14017A		LLN19012A	
SAMPLE NUMBER	LL0819875	LL0819877	LL0819877	WATER	WATER					WATER		WATER	
MATRIX				WATER	WATER					UG/L		UG/L	
UNITS	%			RRF	%					99		99	
ENV PROBLEM NO.													
ACETONE		0.542	19.4			15				10 U		10 U	
BENZENE		0.998	3.6			5 U				5 U		5 U	
BROMODICHLOROMETHANE		0.497	7.2			5 U				5 U		5 U	
BROMOFLUOROBENZENE		0.678	4.9			5 U				5 U		5 U	
BROMOFORM		0.329	11.5			5 U				5 U		5 U	
BROMOMETHANE		0.805	54			10 U				10 U		10 U	
CARBON DISULFIDE		3.772	5.5			5 U				5 U		5 U	
CARBON TETRACHLORIDE		0.452	6.3			5 U				5 U		5 U	
CHLOROBENZENE		1.13	17.5			5 U				5 U		5 U	
CHLOROETHANE		0.375	35.7			10 U				10 U		10 U	
CHLOROFORM		3.257	6.4			10 U				10 U		10 U	
CHLOROMETHANE		0.81	6.7			10 U				10 U		10 U	
CIS-1,3-DICHLOROPROPENE		0.323	8.5			5 U				5 U		5 U	
DIBROMOCHLOROMETHANE		0.436	5.7			5 U				5 U		5 U	
ETHYL BENZENE		0.612	20.4			1 U				1 U		1 U	
METHYLENE CHLORIDE		1.631	28			2 U				2 U		2 U	
STYRENE		1.201	15.1			5 U				5 U		5 U	
TETRACHLOROETHENE		0.451	7.1			5 U				5 U		5 U	
TOLUENE		0.922	18			0.8 J				2 JB		2 JB	
TOLUENE-D8		1.283	1.7										
TRANS-1,3-DICHLOROPROPENE		0.597	12			5 U				5 U		5 U	
TRICHLOROETHENE		0.36	0.3			5 U				5 U		5 U	
VINYL ACETATE		0.382	2.3			10 U				10 U		10 U	
VINYL CHLORIDE		0.657	11.1			10 U				10 U		10 U	
XYLENE (TOTAL)		0.712	20.1			5 U				5 U		5 U	
1,1-DICHLOROETHANE		2.564	2.5			5 U				5 U		5 U	
1,1-DICHLOROETHENE		1.363	3.3			5 U				5 U		5 U	
1,1,1-TRICHLOROETHANE		0.483	8.3			5 U				5 U		5 U	
1,1,2-TRICHLOROETHANE		0.297	1.4			5 U				5 U		5 U	
1,1,2,2-TETRACHLOROETHANE		0.551	3.7			5 U				5 U		5 U	
1,2-DICHLOROETHANE		2.247	7.7			5 U				5 U		5 U	
1,2-DICHLOROETHANE-D4		1.928	15.5			5 U				5 U		5 U	
1,2-DICHLOROETHENE		1.615	11.2			5 U				5 U		5 U	
1,2-DICHLOROPROpane		0.256	16			5 U				5 U		5 U	
2-BUTANONE		0.025	35.7			10 U				10 U		10 U	
2-HEXANONE		0.208	28.3			4 J				10 U		10 U	
4-METHYL-2-PENTANONE		0.282	30.4			3 J				10 U		10 U	
SURR 1(TOL) %RECOVERY						98				98		92	

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TABLE D.7.20 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0819

AREA	QA	QA	QA	QA	QA	TRIP BLANK	TRIP BLANK
LOCATION	TUNED CALIBRATION	CONTINUING CAL X'D	CONTINUING CAL X'D	ISTD SHIFT	METHOD	LLN14017A	LLN19012A
TYPE OF LOCATION	LL0819875	LL0819877	LL0819877	LL0819878	BLANK	WATER	WATER
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER	UG/L	UG/L
MATRIX	%	RRF	%	AREA	UG/L	99	99
UNITS							
ENV PROBLEM NO							
SURR 2(BFB) %RECOVERY				102		104	100
SURR 3(DCE) %RECOVERY				100		99	102
M/E 50	17						
M/E 75	48						
M/E 95	100						
M/E 96	8.7						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	85						
M/E 175-1	6.9						
M/E 175-2	8						
M/E 176-1	84						
M/E 176-2	98						
M/E 177-1	5.9						
M/E 177-2	7						
INTERNAL STD AREA(BCM)			3200000	3100000	3160000	3240000	
INTERNAL STD AREA(CBZ)			2E+07	1E+07	2E+07	2E+07	
INTERNAL STD AREA(DFB)			2E+07	2E+07	2E+07	2E+07	
DILUTION FACTOR					1	1	1
PERCENT MOISTURE							
ACTUAL(ALLOWED) HOLD TIME					8(14 D)	8(14 D)	
AREA							
LOCATION	BLDG. 241	BLDG. 331	BLDG. 331	BLDG. 151	BLDG. 151	BLDG. 511	
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	
SAMPLE NUMBER	LL912247A	LL912258A	LL912269A	LL912270A	LL912281A	LL912292A	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	2	2	2	2	2	2	
ACETONE	370 BE	21 B	23 B	9 JB	3100 BE	76 B	
BENZENE	5 U	5 U	2 J	5 U	5 U	5 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	

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TABLE D.7.20 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0819

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 241 SEWERS LL912247A	BLDG. 331 SEWERS LL912258A	BLDG. 331 SEWERS LL912269A	BLDG. 151 SEWERS LL912270A	BLDG. 151 SEWERS LL912281A	BLDG. 511 SEWERS LL912292A
	2	2	2	2	2	2
BROMOFLUOROBENZENE						
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U					
CARBON DISULFIDE	5 U	5 U	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	10 U					
CHLOROFORM	18	17	19	18	13	22
CHLOROMETHANE	10 U					
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U
ETHYL BENZENE	2 JB					
METHYLENE CHLORIDE	2 JB					
STYRENE	5 U	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
TOLUENE	1 JB	1 JB	1 JB	2	2 JB	5
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
VINYL ACETATE	10 U					
VINYL CHLORIDE	10 U					
XYLENE (TOTAL)	2	5 U	5 U	5 U	8 U	3
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	10 U					
2-HEXANONE	10 U					
4-METHYL-2-PENTANONE	10 U					
SURR 1(TOL) %RECOVERY	93	97	98	80 *	95	97
SURR 2(BFB) %RECOVERY	99	105	100	86	97	105
SURR 3(DCE) %RECOVERY	99	100	101	86	94	92

M/E 50

TABLE D.7.20 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0819

AREA

LOCATION	BLDG. 241	BLDG. 331	BLDG. 331	BLDG. 151	BLDG. 151	BLDG. 511
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL912247A	LL912258A	LL912269A	LL912270A	LL912281A	LL912292A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2	2	2

M/E 75  
 M/E 95  
 M/E 96  
 M/E 173-1  
 M/E 173-2  
 M/E 174  
 M/E 175-1  
 M/E 175-2  
 M/E 176-1  
 M/E 176-2  
 M/E 177-1  
 M/E 177-2

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INTERNAL STD AREA(BCM)	3160000	3230000	2950000	3200000	3000000	3250000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR	1	1	1	1	1	1
PERCENT MOISTURE						
ACTUAL(ALLOWED) HOLD TIME	8(14 D)					

TABLE D.7.21 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0821

AREA	QA	QA	QA	QA	QA	BLDG. 511	LAS POSITAS
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	METHOD	SEWERS	ARROYO
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	LL0821878	BLANK	LL912305A	LL007014A
SAMPLE NUMBER	LL0821875	LL0821877	LL0821877	VBK0821	WATER	WATER	SOIL
MATRIX	NR	WATER	WATER	WATER	UG/L	WATER	UG/KG
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/KG
ENV PROBLEM NO					2	1	
D-523							
ACETONE		0.679	35.4			5 JB	11 JB
BENZENE		1.068	12.2			5 U	5 U
BROMODICHLOROMETHANE		0.542	5.7			5 U	5 U
BROMOFLUOROBENZENE		0.687	2			5 U	5 U
BROMOFORM		0.35	7.6			10 U	11 U
BROMOMETHANE		0.708	42.5			5 U	5 U
CARBON DISULFIDE		3.648	2.6			5 U	5 U
CARBON TETRACHLORIDE		0.474	6.2			5 U	5 U
CHLOROBENZENE		1.193	20.4			5 U	5 U
CHLOROETHANE		0.423	47.8			10 U	11 U
CHLOROFORM		5.505	95.4			10 U	11 U
CHLOROMETHANE		0.641	23.4			10 U	11 U
CIS-1,3-DICHLOROPROPENE		0.354	6.3			5 U	5 U
DIBROMOCHLOROMETHANE		0.472	16.3			5 U	5 U
ETHYL BENZENE		0.636	17.6			5 U	5 U
METHYLENE CHLORIDE		1.585	12.2			2 U	2 U
STYRENE		1.283	18.1			5 U	5 U
TETRACHLOROETHENE		0.473	13.6			5 U	5 U
TOLUENE		0.964	18		0.9	0.9 JB	0.9 JB
TOLUENE-D8		1.316	4.5				
TRANS-1,3-DICHLOROPROPENE		0.719	7			5 U	5 U
TRICHLOROETHENE		0.42	13.9			5 U	5 U
VINYL ACETATE		0.414	54.9			10 U	11 U
VINYL CHLORIDE		0.589	14.2			10 U	11 U
XYLENE (TOTAL)		0.763	20.7			1 U	1 U
1,1-DICHLOROETHANE		2.458	4			5 U	5 U
1,1-DICHLOROETHENE		1.303	8.2			5 U	5 U
1,1,1-TRICHLOROETHANE		0.481	3.7			5 U	5 U
1,1,2-TRICHLOROETHANE		0.328	17.8			5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.61	7.4			5 U	5 U
1,2-DICHLOROETHANE		2.33	2.3			5 U	5 U
1,2-DICHLOROETHANE-D4		1.889	7.5			5 U	5 U
1,2-DICHLOROETHENE		1.537	11.8			5 U	5 U
1,2-DICHLOROPROPANE		0.3	2.3			5 U	5 U
2-BUTANONE		0.032	7.1			10 U	11 U
2-HEXANONE		0.25	5.9			10 U	11 U
4-METHYL-2-PENTANONE		0.321	9.2			10 U	11 U
SURR 1(TOL) %RECOVERY					94	98	98

TABLE D.7.21 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0821

AREA	QA	QA	QA	QA	QA	BLDG.	SEWERS	LAS POSITAS
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIM	METHOD	ARROYO
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT		BLANK		
SAMPLE NUMBER	LL0821875	LL0821877	LL0821877	LL0821878		VBKQ821	LL912305A	LL007014A
MATRIX	NR	WATER	WATER	WATER		WATER	WATER	SOIL
UNITS	%	RRF	%	AREA		UG/L	UG/L	UG/KG
ENV PROBLEM NO							2	1
SURR 2(BFB) %RECOVERY						99	105	102
SURR 3(DCE) %RECOVERY						93	96	95
M/E 50		18						
M/E 75		47						
M/E 95		100						
M/E 96		6.4						
M/E 173-1		0						
M/E 173-2		0						
M/E 174		88						
M/E 175-1		6.6						
M/E 175-2		7.5						
M/E 176-1		85						
M/E 176-2		96						
M/E 177-1		5.5						
M/E 177-2		6.5						
INTERNAL STD AREA(BCM)				3270000	3410000	3190000	2820000	
INTERNAL STD AREA(CBZ)				2E+07	1E+07	1E+07	1E+07	
INTERNAL STD AREA(DFB)				2E+07	2E+07	2E+07	2E+07	
DILUTION FACTOR						1	1	1.09
PERCENT MOISTURE								8
ACTUAL(ALLOWED) HOLD TIME						10(14 D)	15(14 D)	
AREA								
LOCATION	TRAILER STG	STP OVERFLOW	TRAILER STG	STP OVERFLOW				
TYPE OF LOCATION	ARROYO	POND	ARROYO	POND				
SAMPLE NUMBER	LL003010A	LL037021A	LL003021A	LL037032A				
MATRIX	SOIL	SOIL	SOIL	SOIL				
UNITS	UG/KG	UG/KG	UG/KG	UG/KG				
ENV PROBLEM NO	1	10	1	10				
ACETONE	12 B	120 B	10 JB	130 B				
BENZENE	5 U	2 J	6 U	4 J				
BROMODICHLOROMETHANE	5 U	5 U	6 U	5 U				

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TABLE D.7.21 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0821

AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	TRAILER STG ARROYO LL003010A	STP OVERFLOW POND LL037021A	TRAILER STG ARROYO LL003021A	STP OVERFLOW POND LL037032A
	1	10	1	10
BROMOFLUOROBENZENE				
BROMOFORM	5 U	5 U	6 U	5 U
BROMOMETHANE	11 U	10 U	11 U	10 U
CARBON DISULFIDE	5 U	3 J	6 U	1 I
CARBON TETRACHLORIDE	5 U	5 U	6 U	5 U
CHLOROBENZENE	5 U	5 U	6 U	5 U
CHLOROETHANE	11 U	10 U	11 U	10 U
CHLOROFORM	5 JB	0.8 JB	9 B	102 JB
CHLOROMETHANE	11 U	10 U	11 U	105 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	6 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	6 U	5 U
ETHYL BENZENE	2 JB	2 JB	2 JB	54 U
METHYLENE CHLORIDE	24 JB	22 B	3 JB	55 U
STYRENE	5 U	5 U	6 U	5 U
TETRACHLOROETHENE	5 U	5 U	6 U	5 U
TOLUENE	1 JB	9 B	1 JB	16 B
TOLUENE-D8				
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	6 U	5 U
TRICHLOROETHENE	5 U	5 U	6 U	5 U
VINYL ACETATE	11 U	10 U	11 U	10 U
VINYL CHLORIDE	11 U	10 U	11 U	10 U
XYLENE (TOTAL)				
1,1-DICHLOROETHANE	5 U	5 U	6 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	6 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	6 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	6 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	6 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	6 U	5 U
1,2-DICHLOROETHANE-D4				
1,2-DICHLOROETHENE	5 U	5 U	6 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	6 U	5 U
2-BUTANONE	11 U	46	11 U	52
2-HEXANONE	11 U	10 U	11 U	10 U
4-METHYL-2-PENTANONE	11 U	5 J	11 U	10 J
SURR 1(TOL) %RECOVERY	121 *	122 *	97	123 *
SURR 2(BFB) %RECOVERY	123 *	76	98	75
SURR 3(DCE) %RECOVERY	121	97	99	93

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TABLE D.7.21 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0821

AREA

LOCATION

TYPE OF LOCATION

SAMPLE NUMBER

MATRIX

UNITS

ENV PROBLEM NO

TRAILER STG

STP OVERFLOW

TRAILER STG

STP OVERFLOW

ARROYO

POND

ARROYO

POND

LL003010A

LL037021A

LL003021A

LL037032A

SOIL

SOIL

SOIL

SOIL

UG/KG

UG/KG

UG/KG

UG/KG

1

10

1

10

M/E 75

M/E 95

M/E 96

M/E 173-1

M/E 173-2

M/E 174

M/E 175-1

M/E 175-2

M/E 176-1

M/E 176-2

M/E 177-1

M/E 177-2

INTERNAL STD AREA(BCM)

2420000

2890000

2940000

2480000

INTERNAL STD AREA(CBZ)

1E+07

8390000

1E+07

7510000

INTERNAL STD AREA(DBF)

1E+07

1E+07

2E+07

1E+07

DILUTION FACTOR

1.07

1.02

1.12

1.01

PERCENT MOISTURE

6.6

1.6

10.7

1.1

ACTUAL(ALLOWED) HOLD TIME

15(14 D)

15(14 D)

15(14 D)

15(14 D)

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TABLE D.7.22 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0822

AREA	QA	QA	QA	QA	QA	QA	BLDG. 913	BLDG. 913
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL X/D	ISTD SHIFT	RET TIM	METHOD	BLDG. 913	BLDG. 913
TYPE OF LOCATION	LL0822875	LL0822877	LL0822877	LL0822878	VBK0822	BLANK	SN005013A	SN005024A
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX	%	RRF	X	AREA	UG/L	UG/L	UG/L	UG/L
UNITS					2	2	2	2
ENV PROBLEM NO								
ACETONE	0.678	35.1		11	3100	BE	3100	BE
BENZENE	1.014	6.5		5 U	5 U		5 U	
BROMODICHLOROMETHANE	0.585	14.1		5 U	5 U		5 U	
BROMOFLUOROBENZENE	0.676	0.3						
BROMOFORM	0.33	1.3		5 U	5 U		5 U	
BROMOMETHANE	0.683	37.7		10 U	10 U		10 U	
CARBON DISULFIDE	3.538	0.5		5 U	5 U		5 U	
CARBON TETRACHLORIDE	0.502	12.5		5 U	5 U		5 U	
CHLOROBENZENE	1.084	9.4		5 U	5 U		5 U	
CHLOROETHANE	0.289	0.8		10 U	10 U		10 U	
CHLOROFORM	3.165	12.3		10 U	10 U		10 U	
CHLOROMETHANE	0.658	21.4		10 U	10 U		10 U	
CIS-1,3-DICHLOROPROPENE	0.361	8.2		10 U	10 U		10 U	
DIBROMOCHLOROMETHANE	0.463	14		5 U	5 U		5 U	
ETHYLBENZENE	0.595	10		1 U	1 JB		1 JB	
METHYLENE CHLORIDE	1.566	13.2		2 U	2 U		10 U	
STYRENE	1.213	11.7		5 U	5 U		5 U	
TETRACHLOROETHENE	0.444	6.6		5 U	5 U		5 U	
TOLUENE	0.898	9.9		0.8	640	BE	530	BE
TOLUENE-D8	1.217	3.5						
TRANS-1,3-DICHLOROPROPENE	0.699	4		5 U	5 U		5 U	
TRICHLOROETHENE	0.396	7.5		5 U	5 U		5 U	
VINYL ACETATE	0.463	73.3		10 U	10 U		10 U	
VINYL CHLORIDE	0.533	3.5		10 U	10 U		10 U	
XYLENE (TOTAL)	0.703	11.2		5 U	5 U		5 U	
1,1-DICHLOROETHANE	2.517	6.5		5 U	5 U		5 U	
1,1-DICHLOROETHENE	1.293	7.4		5 U	5 U		5 U	
1,1,1-TRICHLOROETHANE	0.535	15.3		5 U	5 U		5 U	
1,1,2-TRICHLOROETHANE	0.315	13.4		5 U	5 U		5 U	
1,1,2,2-TETRACHLOROETHANE	0.588	3.6		5 U	5 U		5 U	
1,2-DICHLOROETHANE	2.298	0.9		5 U	5 U		5 U	
1,2-DICHLOROETHANE-D4	1.881	7.9		5 U	5 U		5 U	
1,2-DICHLOROETHENE	1.55	12.8		5 U	5 U		5 U	
1,2-DICHLOROPROPANE	0.301	2.9		5 U	5 U		5 U	
2-BUTANONE	0.039	30.6		10 U	10 U		10 U	
2-HEXANONE	0.263	1.3		10 U	10 U		10 U	
4-METHYL-2-PENTANONE	0.285	19.3		10 U	10 U		10 U	
SURR 1(TOL) %RECOVERY				97	90		95	

TABLE D.7.22 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0822

AREA	QA	QA	QA	QA	QA	BLDG. 913	BLDG. 913
LOCATION	TUNED CALIBRATION	CONTINUING CAL %D	CONTINUING CAL %D	ISTD SHIFT	METHOD	BLDG. 913	BLDG. 913
TYPE OF LOCATION	LL0822875	LL0822877	LL0822877	LL0822878	VBK0822	BLDG 913	BLDG 913
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER	SN005013A	SN005024A
MATRIX	%	RRF	%	AREA	UG/L	WATER	WATER
UNITS						UG/L	UG/L
ENV PROBLEM NO						2	2
SURR 2(BFB) %RECOVERY					101	101	98
SURR 3(DCE) %RECOVERY					105	97	100
M/E 50	18						
M/E 75	49						
M/E 95	100						
M/E 96	8.2						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	85						
M/E 175-1	6.6						
M/E 175-2	7.7						
M/E 176-1	84						
M/E 176-2	98						
M/E 177-1	5.3						
M/E 177-2	6.3						
INTERNAL STD AREA(BCM)			3330000	3030000	3150000	3120000	
INTERNAL STD AREA(CBZ)			2E+07	2E+07	2E+07	1E+07	
INTERNAL STD AREA(DFB)			2E+07	2E+07	2E+07	2E+07	
DILUTION FACTOR					1	1	1
PERCENT MOISTURE							
ACTUAL(ALLOWED) HOLD TIME					12(14 D)	11(14 D)	
AREA							
LOCATION	BLDG. 913	BLDG. 913	ARROYO SECO	BLDG. 151	BLDG. 241	BLDG. 511	
TYPE OF LOCATION	BLDG 913	BLDG 913	ARROYOS	SEWERS	SEWERS	SEWERS	
SAMPLE NUMBER	SN005035A	SN005057A	SN001042A	LL912429A	LL912383A	LL912316A	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	2	2	1	2	2	2	
ACETONE	3200 BE	150 B	6 JB	19 B	13 B	19 B	
BENZENE	5 U	5 U	5 U	5 U	5 U	5 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	

TABLE D.7.22 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0822

AREA

LOCATION	BLDG. 913	BLDG. 913	ARROYO SECO	BLDG. 151	BLDG. 241	BLDG. 511
TYPE OF LOCATION	BLDG 913	BLDG 913	ARROYOS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	SN005035A	SN005057A	SN001042A	LL912429A	LL912383A	LL912316A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	1	2	2	2
BROMOFLUOROBENZENE						
BROMOFORM						
BROMOMETHANE						
CARBON DISULFIDE						
CARBON TETRACHLORIDE						
CHLOROBENZENE						
CHLOROETHANE						
CHLOROFORM						
CHLOROMETHANE						
CIS-1,3-DICHLOROPROPENE						
DIBROMOCHLOROMETHANE						
ETHYL BENZENE						
METHYLENE CHLORIDE						
STYRENE						
TETRACHLOROETHENE						
TOLUENE						
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE						
TRICHLOROETHENE						
VINYL ACETATE						
VINYL CHLORIDE						
XYLENE (TOTAL)						
1,1-DICHLOROETHANE						
1,1-DICHLOROETHENE						
1,1,1-TRICHLOROETHANE						
1,1,2-TRICHLOROETHANE						
1,1,2,2-TETRACHLOROETHANE						
1,2-DICHLOROETHANE						
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE						
1,2-DICHLOROPROPANE						
2-BUTANONE	10 U	10 U	10	10	100	10
2-HEXANONE	10 U	10 U	10	10	100	10
4-METHYL-2-PENTANONE	10 U	10 U	10	10	100	10
SURR 1(TOL) %RECOVERY	112 *	99	96	97	96	101
SURR 2(BFB) %RECOVERY	121 *	100	98	98	97	100
SURR 3(DCE) %RECOVERY	103	104	105	102	104	109

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TABLE D.7.22 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0822

AREA

LOCATION	BLDG. 913	BLDG. 913	ARROYO SECO	BLDG. 151	BLDG. 241	BLDG. 511
TYPE OF LOCATION	BLDG 913	BLDG 913	ARROYOS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	SN005035A	SN005057A	SN001042A	LL912429A	LL912383A	LL912316A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	1	2	2	2

M/E 75  
 M/E 95  
 M/E 96  
 M/E 173-1  
 M/E 173-2  
 M/E 174  
 M/E 175-1  
 M/E 175-2  
 M/E 176-1  
 M/E 176-2  
 M/E 177-1  
 M/E 177-2

INTERNAL STD AREA(BCM)	3020000	3080000	2920000	2980000	2630000	2720000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR	1	1	1	1	1	1
PERCENT MOISTURE						
ACTUAL(ALLOWED) HOLD TIME	10(14 D)	11(14 D)				

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TABLE D.7.23 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0823

AREA	QA	QA	QA	QA	QA	BLDG. 222 SEWERS LL912349A 2	BLDG. 511 SEWERS LL912430A 2
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD SHIFT	METHOD BLANK VBK0823	WATER UG/L	WATER UG/L
TYPE OF LOCATION	LL0823875	LL0823877	LL0823877	LL0823878	WATER AREA	WATER UG/L	WATER UG/L
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER UG/L	WATER UG/L
UNITS	%	RRF	%	AREA	UG/L	2	2
ENV PROBLEM NO							
ACETONE		0.688	37.3			330 BE	190 B
BENZENE		1.053	10.5		5 U	5 U	5 U
BROMODICHLOROMETHANE		0.52	1.4		5 U	5 U	5 U
BROMOFLUOROBENZENE		0.693	2.9				
BROMOFORM		0.335	2.8				
BROMOMETHANE		0.616	24				
CARBON DISULFIDE		3.766	5.9				
CARBON TETRACHLORIDE		0.44	1.4				
CHLOROBENZENE		1.139	15				
CHLOROETHANE		0.427	49.2				
CHLOROFORM		3.524	25.1				
CHLOROMETHANE		0.704	16				
CIS-1,3-DICHLOROPROPENE		0.368	10.4				
DIBROMOCHLOROMETHANE		0.465	14.6				
ETHYLBENZENE		0.597	10.3				
METHYLENE CHLORIDE		1.066	40.9				
STYRENE		1.245	14.6				
TETRACHLOROETHENE		0.459	10.3				
TOLUENE		0.908	11.1				
TOLUENE-D8		1.234	2.1				
TRANS-1,3-DICHLOROPROPENE		0.627	6.7				
TRICHLOROETHENE		0.374	1.5				
VINYL ACETATE		0.376	40.6				
VINYL CHLORIDE		0.531	3				
XYLENE (TOTAL)		0.717	13.4				
1,1-DICHLOROETHANE		2.707	14.5				
1,1,1-DICHLOROETHENE		1.38	14.6				
1,1,1-TRICHLOROETHANE		0.479	3.3				
1,1,2-TRICHLOROETHANE		0.329	18.3				
1,1,2,2-TETRACHLOROETHANE		0.63	11.1				
1,2-DICHLOROETHANE		2.588	13.6				
1,2-DICHLOROETHANE-D4		2.094	2.6				
1,2-DICHLOROETHENE		1.646	19.7				
1,2-DICHLOROPROPANE		0.269	8.2				
2-BUTANONE		0.032	6.7				
2-HEXANONE		0.262	1.4				
4-METHYL-2-PENTANONE		0.357	0.9				
SURR 1(TOL) %RECOVERY						94	96
							99

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TABLE D.7.23 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0823

AREA	QA	QA	QA	QA	QA	BLDG. 222	BLDG. 511
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	SEWERS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT		BLANK	SEWERS
SAMPLE NUMBER	LL0823875	LL0823877	LL0823877	LL0823878		VBK0823	LL912349A
MATRIX	WATER	WATER	WATER	WATER		WATER	WATER
UNITS	%	RRF	%	AREA		UG/L	UG/L
ENV PROBLEM NO						2	2
SURR 2(BFB) %RECOVERY						93	96
SURR 3(DCE) %RECOVERY						98	90
M/E 50						88	
M/E 75						96	
M/E 95						90	
M/E 96						96	
M/E 173-1						96	
M/E 173-2						96	
M/E 174						96	
M/E 175-1						96	
M/E 175-2						96	
M/E 176-1						96	
M/E 176-2						96	
M/E 177-1						96	
M/E 177-2						96	
INTERNAL STD AREA(BCM)						2760000	2770000
INTERNAL STD AREA(CBZ)						1E+07	1E+07
INTERNAL STD AREA(DFB)						2E+07	2E+07
DILUTION FACTOR						2770000	2770000
PERCENT MOISTURE						1E+07	1E+07
ACTUAL(ALLOWED) HOLD TIME						2E+07	2E+07
1						1	1
11(14 D)						11(14 D)	11(14 D)
AREA							
LOCATION	BLDG. 331	BLDG. 331	BLDG. 241	BLDG. 222	BLDG. 222	BLDG. 222	BLDG. 222
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL912407A	LL912394A	LL912372A	LL912361A	LL912338A	LL912327A	LL912327A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2	2	2	2
ACETONE		460 BE	22 B	22 B	12 B	3800 BE	3700 BE
BENZENE		3 J	3 J	5 U	5 U	5 U	5 U
BROMODICHLOROMETHANE		5 U	5 U	5 U	5 U	5 U	5 U

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TABLE D.7.23 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0823

AREA	BLDG. 331 SEWERS SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 331 SEWERS LL912407A	BLDG. 241 SEWERS LL912394A	BLDG. 222 SEWERS LL912372A	BLDG. 222 SEWERS LL912361A	BLDG. 222 SEWERS LL912338A	BLDG. 222 SEWERS LL912327A
BROMOFLUOROBENZENE							
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROFORM	19 U	19 U	15 U	15 U	21 U	12 U	11 U
CHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ETHYL BENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
STYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TOLUENE	1 JB	1 JB	0.9 JB	2 JB	1 JB	1 JB	1 JB
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
VINYL ACETATE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
VINYL CHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
SURR 1(TOL) %RECOVERY	93	101	97	95	93	93	93
SURR 2(BFB) %RECOVERY	96	101	99	99	96	105	
SURR 3(DCE) %RECOVERY	94	96	93	102	94	96	

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TABLE D.7.23 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0823

AREA

LOCATION	BLDG. 331	BLDG. 331	BLDG. 241	BLDG. 222	BLDG. 222	BLDG. 222
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL912407A	LL912394A	LL912372A	LL912361A	LL912338A	LL912327A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2	2	2

M/E 75  
 M/E 95  
 M/E 96  
 M/E 173-1  
 M/E 173-2  
 M/E 174  
 M/E 175-1  
 M/E 175-2  
 M/E 176-1  
 M/E 176-2  
 M/E 177-1  
 M/E 177-2

INTERNAL STD AREA(BCM)	2810000	2690000	2770000	2670000	2480000	2700000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)	1E+07	2E+07	2E+07	2E+07	1E+07	2E+07

DILUTION FACTOR	1	1	1	1	1	1
PERCENT MOISTURE						
ACTUAL(ALLOWED) HOLD TIME	11(14 D)	12(14 D)				

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TABLE D.7.24 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0824

AREA	QA	QA	QA	QA	QA	ISTD	RET	TIME	METHOD	BLDG.	151	BLDG.	222
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	SHIFT	BLANK			WATER	SEWERS	TANK		
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	LL0824878	LL0824878	VBK0824			UG/L	LL912418A	LL021012A		
SAMPLE NUMBER	LL0824875	LL0824877	LL0824877	WATER	WATER	WATER			UG/L	WATER	WATER		
MATRIX	WATER	WATER	WATER	%	%	%			UG/L	UG/L	UG/L		
UNITS	RRF	RRF	RRF							2	4		
ENV PROBLEM NO													
ACETONE	0.966	92.7					7			10	B	2700	BE
BENZENE	0.849	10.8					5			5	U	5	U
BROMODICHLOROMETHANE	0.495	3.4					5			5	U	5	U
BROMOFLUOROBENZENE	0.665	1.3					5			5	U	5	U
BROMOFORM	0.31	4.8					10			5	U	5	U
BROMOMETHANE	0.711	43.3					10			10	U	10	U
CARBON DISULFIDE	3.671	3.2					10			5	U	5	U
CARBON TETRACHLORIDE	0.429	4					10			5	U	5	U
CHLOROBENZENE	1.085	9.5					10			5	U	5	U
CHLOROETHANE	0.377	31.8					10			10	U	10	U
CHLOROFORM	3.265	15.9					10			12	U	15	U
CHLOROMETHANE	0.617	26.4					10			10	U	10	U
CIS-1,3-DICHLOROPROPENE	0.299	10.1					10			5	U	5	U
DIBROMOCHLOROMETHANE	0.403	0.7					10			5	U	5	U
ETHYL BENZENE	0.578	6.8					10			5	U	1	JB
METHYLENE CHLORIDE	1.678	7.1					10			10	U	3	U
STYRENE	1.179	8.5					10			10	U	5	U
TETRACHLOROETHENE	0.449	7.9					10			5	U	5	U
TOLUENE	0.867	6.1					10			5	U	6	U
TOLUENE-D8	1.18	6.4					10			5	U	5	U
TRANS-1,3-DICHLOROPROPENE	0.592	11.9					10			5	U	2	JB
TRICHLOROETHENE	0.328	11.1					10			10	U	10	U
VINYL ACETATE	0.349	30.6					10			10	U	10	U
VINYL CHLORIDE	0.561	8.8					10			10	U	11	U
XYLENE (TOTAL)	0.689	9					10			10	U	5	U
1,1-DICHLOROETHANE	2.608	10.3					10			5	U	5	U
1,1,1-DICHLOROETHENE	1.318	9.4					10			5	U	5	U
1,1,1,1-TRICHLOROETHANE	0.46	0.9					10			5	U	5	U
1,1,2-TRICHLOROETHANE	0.271	2.7					10			5	U	5	U
1,1,2,2-TETRACHLOROETHANE	0.569	0.3					10			5	U	3	J
1,2-DICHLOROETHANE	2.464	8.1					10			5	U	5	U
1,2-DICHLOROETHANE-D4	1.996	2.2					10			5	U	5	U
1,2-DICHLOROETHENE	1.559	13.4					10			5	U	5	U
1,2-DICHLOROPROpane	0.249	14.8					10			5	U	5	U
2-BUTANONE	0.03	0.5					10			10	U	10	U
2-HEXANONE	0.261	2.1					10			10	U	10	U
4-METHYL-2-PENTANONE	0.308	13.1					10			10	U	10	U
SURR 1(TOL) %RECOVERY							100			97		103	

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TABLE D.7.24 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0824

AREA	QA	QA	QA	QA	QA	BLDG. 151	BLDG. 222
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	SEWERS	TANK
SAMPLE NUMBER	LL0824875	LL0824877	LL0824877	LL0824878	VBK0824	LL912418A	LL021012A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						2	4
SURR 2(BFB) %RECOVERY					103	98	109
SURR 3(DCE) %RECOVERY					102	96	101
M/E 50		17					
M/E 75		50					
M/E 95		100					
M/E 96		8					
M/E 173-1		0					
M/E 173-2		0					
M/E 174		83					
M/E 175-1		6.6					
M/E 175-2		8					
M/E 176-1		81					
M/E 176-2		98					
M/E 177-1		5.6					
M/E 177-2		6.8					
INTERNAL STD AREA(BCM)				2680000	2700000	2770000	2740000
INTERNAL STD AREA(CBZ)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)				2E+07	2E+07	2E+07	1E+07
DILUTION FACTOR						1	1
PERCENT MOISTURE						1	1
ACTUAL(ALLOWED) HOLD TIME						12(14 D)	13(14 D)
AREA							
LOCATION	BLDG. 298	BLDG. 321	BLDG. 321	DRUM RACK	BLDG. 222	BLDG. 492	
TYPE OF LOCATION	TANK	SUMP	SUMP	SUMP	TANK	SUMP	
SAMPLE NUMBER	LL024015A	LL025016A	LL025027A	LL032253A	LL020011A	LL026017A	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	4	4	4	6	4	4	
ACETONE	3000 BE	840 BE	13 B	11 B	2400 BE	140 B	
BENZENE	5 U	5 U	5 U	5 U	5 U	5 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	

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TABLE D.7.24 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0824

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 298 TANK LL024015A WATER UG/L 4	BLDG. 321 SUMP LL025016A WATER UG/L 4	BLDG. 321 SUMP LL025027A WATER UG/L 4	DRUM RACK SUMP LL032253A WATER UG/L 6	BLDG. 222 TANK LL020011A WATER UG/L 4	BLDG. 492 SUMP LL026017A WATER UG/L 4
<b>BROMOFLUOROBENZENE</b>						
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U					
CARBON DISULFIDE	1 J	5 U	5 U	5 U	1 J	5 U
CARBON TETRACHLORIDE	6	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	10 U					
CHLOROFORM	8	7	21	12	80	10
CHLOROMETHANE	10 U					
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	2 J	1 J	5 U	1 J	2 J	1 J
METHYLENE CHLORIDE	38 B	7 B	1 JB	5 U	22 B	22 B
STYRENE	19	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	26	5 U	5 U	5 U	5 U
TOLUENE	4 J	9	1 J	5 U	12	5 U
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	4 J	24	5 U	5 U	6 U	5 U
VINYL ACETATE	10 U					
VINYL CHLORIDE	10 U					
XYLENE (TOTAL)	11	5 U	5 U	5 U	29	5 U
1,1-DICHLOROETHANE	5 U	6	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	4 J	6	5 U	5 U	4 J	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	11	5 U	5 U	5 U	4	5 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	5 U	100	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	1300 E	110	10 U	10 U	40	10 U
2-HEXANONE	10 U	31	10 U	10 U	10	5 U
4-METHYL-2-PENTANONE	10 U	18	10 U	10 U	10	10 U
SURR 1(TOL) %RECOVERY	103	103	103	103	94	101
SURR 2(BFB) %RECOVERY	115	103	109	105	112	106
SURR 3(DCE) %RECOVERY	92	98	104	101	94	53 *

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TABLE D.7.24 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0824

## AREA

LOCATION	BLDG. 298	BLDG. 321	BLDG. 321	DRUM RACK	BLDG. 222	BLDG. 492
TYPE OF LOCATION	TANK	SUMP	SUMP	SUMP	TANK	SUMP
SAMPLE NUMBER	LL024015A	LL025016A	LL025027A	LL032253A	LL020011A	LL026017A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	4	4	4	6	4	4
M/E 75						
M/E 95						
M/E 96						
M/E 173-1						
M/E 173-2						
M/E 174						
M/E 175-1						
M/E 175-2						
M/E 176-1						
M/E 176-2						
M/E 177-1						
M/E 177-2						
INTERNAL STD AREA(BCM)	2820000	2780000	2640000	2670000	2560000	2610000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)	1E+07	2E+07	2E+07	2E+07	1E+07	2E+07
DILUTION FACTOR	1	1	1	1	1	1
PERCENT MOISTURE						
ACTUAL(ALLOWED) HOLD TIME	13(14 D)	12(14 D)	13(14 D)	14(14 D)	13(14 D)	12(14 D)

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TABLE D.7.25 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0825

AREA	QA	QA	QA	QA	QA	QA	BURN PIT	BLDG. 222
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	RET TIM	METHOD	PITS	SEWERS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	LL0825878	VBK0825	BLANK	LL034131A	LL912350A
SAMPLE NUMBER	LL0825875	LL0825877	LL0825877	LL0825878	VBK0825	WATER	WATER	WATER
MATRIX	WATER	WATER	WATER	WATER	WATER	UG/L	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO							7	2
ACETONE	0.796	58.9		10		13 B		9 JB
BENZENE	0.896	5.9		5	U	5 U		5 U
BROMODICHLOROMETHANE	0.493	3.8		5	U	5 U		5 U
BROMOFLUOROBENZENE	0.68	0.9						
BROMOFORM	0.326	0.3		5	U	5 U		5 U
BROMOMETHANE	0.524	5.6		10	U	10 U		10 U
CARBON DISULFIDE	3.702	4.1		5	U	5 U		5 U
CARBON TETRACHLORIDE	0.438	1.9		10	U	10 U		10 U
CHLOROBENZENE	1.11	12		5	U	5 U		5 U
CHLOROETHANE	0.374	30.7		10	U	10 U		10 U
CHLOROFORM	3.519	24.9		5	U	5 U		16 U
CHLOROMETHANE	0.614	26.7		10	U	10 U		10 U
CIS-1,3-DICHLOROPROPENE	0.315	5.5		5	U	5 U		5 U
DIBROMOCHLOROMETHANE	0.39	3.9		10	U	10 U		5 U
ETHYLBENZENE	0.584	8		5	U	5 U		2 JB
METHYLENE CHLORIDE	1.793	0.7		10	U	10 U		3 JB
STYRENE	1.228	13.1		5	U	5 U		5 U
TETRACHLOROETHENE	0.443	6.4		10	U	10 U		5 U
TOLUENE	0.898	9.8		5	U	5 U		2 JB
TOLUENE-D8	1.204	4.5		0.9	U	0.9		1 JB
TRANS-1,3-DICHLOROPROPENE	0.64	4.8		5	U	5 U		5 U
TRICHLOROETHENE	0.344	6.6		10	U	10 U		10 U
VINYL ACETATE	0.381	42.7		5	U	5 U		5 U
VINYL CHLORIDE	0.443	14		10	U	10 U		10 U
XYLENE (TOTAL)	0.715	13.1		5	U	5 U		5 U
1,1-DICHLOROETHANE	2.762	16.9		10	U	10 U		10 U
1,1-DICHLOROETHENE	1.392	15.7		5	U	5 U		5 U
1,1,1-TRICHLOROETHANE	0.478	3		10	U	10 U		5 U
1,1,2-TRICHLOROETHANE	0.275	0.9		5	U	5 U		5 U
1,1,2,2-TETRACHLOROETHANE	0.594	4.6		5	U	5 U		5 U
1,2-DICHLOROETHANE	2.57	12.8		5	U	5 U		5 U
1,2-DICHLOROETHANE-D4	2.071	1.4		5	U	5 U		5 U
1,2-DICHLOROETHENE	1.633	18.8		10	U	10 U		10 U
1,2-DICHLOROPROPANE	0.275	6		5	U	5 U		5 U
2-BUTANONE	0.033	9.2		10	U	10 U		10 U
2-HEXANONE	0.26	2.2		10	U	10 U		10 U
4-METHYL-2-PENTANONE	0.326	7.8		10	U	10 U		10 U
SURR 1(TOL) %RECOVERY				100		101		101

TABLE D.7.25 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0825

AREA	QA	QA	QA	QA	QA	BURN PIT	BLDG.
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	222
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL X/D	SHIFT	BLANK	PITS	SEWERS
SAMPLE NUMBER	LL0825875	LL0825877	LL0825877	LL0825878	VBK0825	LL034131A	LL912350A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						7	2
SURR 2(BFB) %RECOVERY					98	102	100
SURR 3(DCE) %RECOVERY					97	99	98
M/E 50	16						
M/E 75	48						
M/E 95	100						
M/E 96	8.3						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	77						
M/E 175-1	6.4						
M/E 175-2	8.3						
M/E 176-1	74						
M/E 176-2	96						
M/E 177-1	5.2						
M/E 177-2	7.1						
INTERNAL STD AREA(BCM)				2610000	2670000	2620000	2540000
INTERNAL STD AREA(CBZ)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)				2E+07	2E+07	2E+07	1E+07
DILUTION FACTOR					1	1	1
PERCENT MOISTURE						15(14 D)	13(14 D)
ACTUAL(ALLOWED) HOLD TIME							
AREA							
LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	EXP	BURN PIT	BLDG. 141	BLDG. 141
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	INACTIVE SIT	SUMP	SUMP	SUMP
SAMPLE NUMBER	LLN31018A	LLN27012A	LLN29014A	SN008049A	LL016015A	LL017016A	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	99	99	99	4	4	4	
ACETONE	19 B	13 B	11 B	7 JB	63 B	150 B	
BENZENE	5 U	5 U	5 U	5 U	5 U	5 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	7	

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TABLE D.7.25 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0825

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	TRIP BLANK TRIP BLANK LLN31018A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN27012A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN29014A WATER UG/L 99	EXP BURN PIT INACTIVE SIT SN008049A WATER UG/L 4	BLDG. 141 SUMP LL016015A WATER UG/L 4	BLDG. 141 SUMP LL017016A WATER UG/L 4
BROMOFLUOROBENZENE						
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	15 U	5 U	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	28 U	220 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	10 U	10 U
CHLOROETHANE	10 U	10 U	10 U	10 U	10 U	590 U
CHLOROFORM	12 U	12 U	13 U	17 U	10 U	10 U
CHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	15 U	5 U	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	2 U
ETHYLBENZENE	1 JB	1 JB	1 JB	1 JB	1 JB	2 JB
METHYLENE CHLORIDE	13 U	5 U	5 U	5 U	12 U	850 U
STYRENE	5 U	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U	2 U
TOLUENE	2 JB	1 JB	2 JB	1 JB	39 B	380 BE
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U	72 U	3 U
VINYL ACETATE	10 U	10 U	10 U	10 U	10 U	10 U
VINYL CHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	770 U
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	10 U	10 U
SURR 1(TOL) %RECOVERY	102	96	100	101	98	97
SURR 2(BFB) %RECOVERY	104	108	103	102	98	98
SURR 3(DCE) %RECOVERY	99	97	97	99	96	94

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TABLE D.7.25 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0825

## AREA

LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	EXP BURN PIT	BLDG. 141	BLDG. 141
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	INACTIVE SIT	SUMP	SUMP
SAMPLE NUMBER	LLN31018A	LLN27012A	LLN29014A	SN008049A	LL016015A	LL017016A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	99	99	99	4	4	4

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

INTERNAL STD AREA(BCM)	2590000	2550000	2590000	2500000	2050000	2470000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	2E+07

DILUTION FACTOR	1	1	1	1	1	1
PERCENT MOISTURE						
ACTUAL(ALLOWED) HOLD TIME	12(14 D)					

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TABLE D.7.26 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0826

AREA	QA TUNED CALIBRATION LL0826875 WATER %	QA CONTINUING CALIBRATION LL0826877 WATER RRF	QA CONTINUING CAL XD LL0826877 WATER %	QA ISTD SHIFT LL0826878 WATER AREA	RET TIME	METHOD BLANK VBK0826 WATER UG/L	BLDG. 151 TANK LL018017A WATER UG/L 4	BLDG. 151 TANK LL019018A WATER UG/L 4
ACETONE	0.732		46		9 J		2300 BE	2700 BE
BENZENE	0.984		3.3		5 JU		5 U	5 U
BROMODICHLOROMETHANE	0.511		0.4		5 JU		5 U	5 U
BROMOFLUOROBENZENE	0.679		0.8		5 JU		5 U	5 U
BROMOFORM	0.312		4.2		5 JU		5 U	5 U
BROMOMETHANE	0.576		15.9		10 JU		10 JU	10 JU
CARBON DISULFIDE	3.553		0.1		10 JU		12 JU	11 JU
CARBON TETRACHLORIDE	0.436		2.4		10 JU		10 JU	8 JU
CHLOROBENZENE	1.049		5.9		10 JU		10 JU	10 JU
CHLOROETHANE	0.291		1.7		10 JU		10 JU	2 JU
CHLOROFORM	3.527		25.2		10 JU		10 JU	10 JU
CHLOROMETHANE	0.605		27.8		10 JU		10 JU	5 JU
CIS-1,3-DICHLOROPROPENE	0.353		6		10 JU		5 JU	5 JU
DI-BROMOCHLOROMETHANE	0.439		8.1		10 JU		5 JU	5 JU
ETHYL BENZENE	0.565		4.4		10 JU		1 JU	1 JU
METHYLENE CHLORIDE	1.805		0.1		10 JU		0.7 JU	0.9 JU
STYRENE	1.17		7.6		10 JU		5 JU	5 JU
TETRA-CHLOROETHENE	0.432		3.8		10 JU		5 JU	5 JU
TOLUENE	0.844		3.3		10 JU		4 JB	38 B
TOLUENE-D8	1.146		9.2		10 JU		5 U	5 U
TRANS-1,3-DICHLOROPROPENE	0.655		2.5		10 JU		25 U	45 U
TRICHLOROETHENE	0.367		0.4		10 JU		10 U	10 U
VINYL ACETATE	0.353		32.2		10 JU		10 U	10 U
VINYL CHLORIDE	0.48		6.8		10 JU		5 U	5 U
XYLENE (TOTAL)	0.674		6.6		10 JU		5 U	5 U
1,1-DICHLOROETHANE	2.731		15.5		10 JU		5 U	5 U
1,1-DICHLOROETHENE	1.362		13.1		10 JU		5 U	5 U
1,1,1-TRICHLOROETHANE	0.482		3.9		10 JU		5 U	5 U
1,1,2-TRICHLOROETHANE	0.301		8.1		10 JU		5 U	5 U
1,1,2,2-TETRA-CHLOROETHANE	0.567		0.1		10 JU		370 E	110 E
1,2-DICHLOROETHANE	2.545		11.7		10 JU		5 U	5 U
1,2-DICHLOROETHANE-D4	2.034		0.4		10 JU		5 U	5 U
1,2-DICHLOROETHENE	1.671		21.5		10 JU		10 U	10 U
1,2-DICHLOROPROPANE	0.28		4.4		10 JU		10 U	10 U
2-BUTANONE	0.042		40.4		10 JU		10 U	10 U
2-HEXANONE	0.262		1.7		10 JU		10 U	10 U
4-METHYL-2-PENTANONE	0.314		11.3		10 JU		10 U	10 U
SURR 1(TOL) %RECOVERY					110		112 *	109

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TABLE D.7.26 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0826

AREA	QA	QA	QA	QA	QA	BLDG. 151	BLDG. 151
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT		BLANK	TANK
SAMPLE NUMBER	LL0826875	LL0826877	LL0826877	LL0826878		VBK0826	LL018017A
MATRIX	WATER	WATER	WATER	WATER		WATER	WATER
UNITS	%	RRF	%	AREA		UG/L	UG/L
ENV PROBLEM NO						4	4
SURR 2(BFB) %RECOVERY					98	97	100
SURR 3(DCE) %RECOVERY					98	122 *	105
M/E 50		16					
M/E 75		48					
M/E 95		100					
M/E 96		7.7					
M/E 173-1		0					
M/E 173-2		0					
M/E 174		79					
M/E 175-1		6.1					
M/E 175-2		7.7					
M/E 176-1		75					
M/E 176-2		95					
M/E 177-1		5.3					
M/E 177-2		7					
INTERNAL STD AREA(BCM)			2560000	2870000	2890000	2740000	
INTERNAL STD AREA(CBZ)			1E+07	1E+07	1E+07	1E+07	
INTERNAL STD AREA(DFB)			2E+07	1E+07	2E+07	1E+07	
DILUTION FACTOR				1	1	1	
PERCENT MOISTURE							
ACTUAL(ALLOWED) HOLD TIME					13(14 D)	13(14 D)	
AREA							
LOCATION	TRIP BLANK	TRAILER STG	STP OVERFLOW	LAS POSITAS			
TYPE OF LOCATION	TRIP BLANK	ARROYO	POND	ARROYO			
SAMPLE NUMBER	LLN33010A	LL003032A	LL037010A	LL005023A			
MATRIX	WATER	SOIL	SOIL	SOIL			
UNITS	UG/L	UG/KG	UG/KG	UG/KG			
ENV PROBLEM NO	99	1	10	1			
ACETONE	96 B	13 B	32 B	3 JB			
BENZENE	5 U	5 U	0.9 J	5 U			
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U			

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TABLE D.7.26 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0826

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	TRIP BLANK TRIP BLANK LLN33010A WATER UG/L 99	BLANK ARROYO LL003032A SOIL UG/KG 1	TRAILER STG ARROYO LL037010A SOIL UG/KG 10	STP OVERFLOW POND LL037010A SOIL UG/KG 10	LAS POSITAS ARROYO LL005023A SOIL UG/KG 1
BROMOFLUOROBENZENE					
BROMOFORM	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U	11 U	10 U	11 U	11 U
CARBON DISULFIDE	5 U	5 U	35 U	55 U	55 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	10 U	11 U	105 U	115 U	115 U
CHLOROFORM	5 U	5 U	5 U	5 U	5 U
CHLOROMETHANE	10 U	11 U	105 U	115 U	115 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 JB	5 JB	5 JB
ETHYLBENZENE	1 JB	5 JB	2 JB	2 JB	2 JB
METHYLENE CHLORIDE	0.9 JB	3 JB	10 B	8 B	8 B
STYRENE	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U
TOLUENE	1 JB	5	3 JB	2 JB	2 JB
TOLUENE-D8					
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5	5 U	5 U	5 U
VINYL ACETATE	10 U	11 U	10 U	11 U	11 U
VINYL CHLORIDE	10 U	11 U	10 U	11 U	11 U
XYLENE (TOTAL)	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4					
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	10 U	11 U	10 U	11 U	11 U
2-HEXANONE	10 U	11 U	10 U	11 U	11 U
4-METHYL-2-PENTANONE	10 U	11 U	10 U	11 U	11 U
SURR 1(TOL) %RECOVERY	101	105	119 *	119 *	
SURR 2(BFB) %RECOVERY	98	98	98	85	
SURR 3(DCE) %RECOVERY	97	96	106	103	

M/E 50

TABLE D.7.26 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0826

AREA

LOCATION	TRIP BLANK	TRAILER STG	STP OVERFLOW	LAS POSITAS
TYPE OF LOCATION	TRIP BLANK	ARROYO	POND	ARROYO
SAMPLE NUMBER	LLN33010A	LL003032A	LL037010A	LL005023A
MATRIX	WATER	SOIL	SOIL	SOIL
UNITS	UG/L	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	99	1	10	1

M/E 75  
 M/E 95  
 M/E 96  
 M/E 173-1  
 M/E 173-2  
 M/E 174  
 M/E 175-1  
 M/E 175-2  
 M/E 176-1  
 M/E 176-2  
 M/E 177-1  
 M/E 177-2

INTERNAL STD AREA(BCM)	2780000	2210000	2540000	2300000
INTERNAL STD AREA(CBZ)	1E+07	9450000	1E+07	8570000
INTERNAL STD AREA(DFB)	2E+07	1E+07	2E+07	1E+07
DILUTION FACTOR	1	1.08	1.01	1.08
PERCENT MOISTURE		7.6	1.1	7.7
ACTUAL(ALLOWED) HOLD TIME	12(14 D)	20(14 D)	20(14 D)	20(14 D)

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TABLE D.7.27 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0827

AREA	QA	QA	QA	QA	QA	ISTD	RET	TIM	METHOD	LAS POSITAS	LAS POSITAS
LOCATION	TUNED	CONTINUING	CONTINUING	SHIFT	BLANK					ARROYO	ARROYO
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL X'D	SHIFT	VBK0827					LL007025A	LL007036A
SAMPLE NUMBER	LL0827875	LL0827877	LL0827877	LL0827878	VBK0827					1	1
MATRIX	SOIL	SOIL	SOIL	SOIL	WATER					SOIL	SOIL
UNITS	X	RRF	X	AREA	UG/L					UG/KG	UG/KG
ENV PROBLEM NO											
ACETONE		0.653	30.2			11				37 B	31 B
BENZENE		0.943	1			5	U	U		6 U	6 U
BROMODICHLOROMETHANE		0.467	8.9			5	U	U		6 U	6 U
BROMOFLUOROBENZENE		0.698	3.6			5	U	U		6 U	6 U
BROMOFORM		0.306	6.1			5	U	U		12 U	12 U
BROMOMETHANE		0.503	1.3			10	U	U		6 U	6 U
CARBON DISULFIDE		3.042	14.5			10	U	U		6 U	6 U
CARBON TETRACHLORIDE		0.395	11.6			10	U	U		6 U	6 U
CHLOROBENZENE		1.095	10.5			10	U	U		6 U	6 U
CHLOROETHANE		0.25	12.6			10	U	U		12 U	12 U
CHLOROFORM		3.109	10.4			10	U	U		6 U	6 U
CHLOROMETHANE		0.467	44.3			10	U	U		12 U	12 U
CIS-1,3-DICHLOROPROPENE		0.352	5.8			10	U	U		6 U	6 U
DIBROMOCHLOROMETHANE		0.415	2.3			10	U	U		6 U	6 U
ETHYLBENZENE		0.58	7.2			10	U	U		6 U	6 U
METHYLENE CHLORIDE		1.461	19.1			10	U	U		6 U	6 U
STYRENE		1.18	8.6			10	U	U		6 U	6 U
TETRACHLOROETHENE		0.416	0.1			10	U	U		6 U	6 U
TOLUENE		0.83	1.6			10	U	U		6 U	6 U
TOLUENE-D8		1.297	2.8			10	U	U		6 U	6 U
TRANS-1,3-DICHLOROPROPENE		0.68	1.1			10	U	U		6 U	6 U
TRICHLOROETHENE		0.371	0.6			10	U	U		12 U	12 U
VINYL ACETATE		0.35	31			10	U	U		12 U	12 U
VINYL CHLORIDE		0.386	25.2			10	U	U		6 U	6 U
XYLENE (TOTAL)		0.708	12			10	U	U		6 U	6 U
1,1-DICHLOROETHANE		2.469	4.4			10	U	U		6 U	6 U
1,1,1-DICHLOROETHENE		1.159	3.7			10	U	U		6 U	6 U
1,1,1-TRICHLOROETHANE		0.432	7			10	U	U		6 U	6 U
1,1,2-TRICHLOROETHANE		0.299	7.6			10	U	U		6 U	6 U
1,1,2,2-TETRACHLOROETHANE		0.584	2.8			10	U	U		6 U	6 U
1,2-DICHLOROETHANE		2.322	1.9			10	U	U		6 U	6 U
1,2-DICHLOROETHANE-D4		2.024	0.9			10	U	U		6 U	6 U
1,2-DICHLOROETHENE		1.419	3.2			10	U	U		6 U	6 U
1,2-DICHLOROPROPANE		0.282	3.7			10	U	U		6 U	6 U
2-BUTANONE		0.031	2.2			10	U	U		12 U	12 U
2-HEXANONE		0.248	6.9			10	U	U		12 U	12 U
4-METHYL-2-PENTANONE		0.325	8.2			10	U	U		12 U	12 U
SURR 1(TOL) %RECOVERY						98				97	98

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TABLE D.7.27 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0827

AREA	QA	QA	QA	QA	QA	LAS POSITAS	LAS POSITAS
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	METHOD	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		ARROYO
SAMPLE NUMBER	LL0827875	LL0827877	LL0827877	LL0827878	VBK0827		LL007025A
MATRIX	SOIL	SOIL	SOIL	SOIL	WATER		SOIL
UNITS	%	RRF	%	AREA	UG/L		UG/KG
ENV PROBLEM NO						1	1
SURR 2(BFB) %RECOVERY					96	90	97
SURR 3(DCE) %RECOVERY					99	91	96
M/E 50		16					
M/E 75		48					
M/E 95		100					
M/E 96		7.7					
M/E 173-1		0					
M/E 173-2		0					
M/E 174		78					
M/E 175-1		6.2					
M/E 175-2		7.9					
M/E 176-1		78					
M/E 176-2		99					
M/E 177-1		4.9					
M/E 177-2		6.3					
INTERNAL STD AREA(BCM)			2730000	2610000	2220000	2470000	
INTERNAL STD AREA(CBZ)			1E+07	1E+07	9950000	1E+07	
INTERNAL STD AREA(DFB)			2E+07	1E+07	1E+07	1E+07	
DILUTION FACTOR					1	1.08	1.08
PERCENT MOISTURE						7.6	7.1
ACTUAL(ALLOWED) HOLD TIME						21(14 D)	21(14 D)
AREA							
LOCATION	LAS POSITAS	875/878	875/878	875/878	N OF 875	N OF 875	
TYPE OF LOCATION	ARROYO	CULVERT	CULVERT	CULVERT	CULVERT	CULVERT	
SAMPLE NUMBER	LL005012A	LL029010A	LL029021A	LL029032A	LL030013A	LL030024A	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ENV PROBLEM NO	1	6	6	6	6	6	
ACETONE	16 B	13 U	15 U	13 U	92 B	65 B	
BENZENE	5 U	7 U	7 U	7 U	2 J	2 J	
BROMODICHLOROMETHANE	5 U	7 U	7 U	7 U	6 U	3 J	

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TABLE D.7.27 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0827

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	LAS POSITAS ARROYO LL005012A	875/878 CULVERT LL029010A	875/878 CULVERT LL029021A	875/878 CULVERT LL029032A	N OF 875 CULVERT LL030013A	N OF 875 CULVERT LL030024A
	1	6	6	6	6	6
BROMOFLUOROBENZENE						
BROMOFORM	5 U	7 U	7 U	7 U	6 U	6 U
BROMOMETHANE	11 U	13 U	15 U	13 U	12 U	12 U
CARBON DISULFIDE	5 U	7 U	7 U	7 U	6 U	6 U
CARBON TETRACHLORIDE	5 U	7 U	7 U	7 U	6 U	6 U
CHLOROBENZENE	5 U	7 U	7 U	7 U	6 U	6 U
CHLOROETHANE	11 U	13 U	15 U	13 U	12 U	12 U
CHLOROFORM	5 U	7 U	23	7 U	6 U	24
CHLOROMETHANE	11 U	13 U	15 U	13 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	5 U	7 U	7 U	7 U	6 U	6 U
DI-BROMOCHLOROMETHANE	5 U	7 U	7 U	7 U	6 U	6 U
ETHYL BENZENE	5 U	7 U	7 U	7 U	6 U	6 U
METHYLENE CHLORIDE	3 J	7 U	7 U	12 U	17 U	15 U
STYRENE	5 U	7 U	7 U	7 U	6 U	6 U
TETRA-CHLOROETHENE	5 U	7 U	7 U	7 U	6 U	6 U
TOLUENE	2 J	7 U	7 U	7 U	8	8
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	7 U	7 U	7 U	6 U	6 U
TRICHLOROETHENE	5 U	7 U	7 U	7 U	6 U	6 U
VINYL ACETATE	11 U	13 U	15 U	13 U	12 U	12 U
VINYL CHLORIDE	11 U	13 U	15 U	13 U	12 U	12 U
XYLENE (TOTAL)	5 U	7 U	7 U	7 U	6 U	6 U
1,1-DICHLOROETHANE	5 U	7 U	7 U	7 U	6 U	6 U
1,1-DICHLOROETHENE	5 U	7 U	7 U	7 U	6 U	6 U
1,1,1-TRICHLOROETHANE	5 U	7 U	7 U	7 U	6 U	6 U
1,1,2-TRICHLOROETHANE	5 U	7 U	7 U	7 U	6 U	6 U
1,1,2,2-TETRA-CHLOROETHANE	5 U	7 U	7 U	7 U	6 U	6 U
1,2-DICHLOROETHANE	5 U	7 U	7 U	7 U	6 U	6 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	5 U	7 U	7 U	7 U	6 U	6 U
1,2-DICHLOROPROPANE	5 U	7 U	7 U	7 U	6 U	6 U
2-BUTANONE	11 U	13 U	15 U	13 U	50	12 U
2-HEXANONE	11 U	13 U	15 U	13 U	12 U	12 U
4-METHYL-2-PENTANONE	11 U	13 U	15 U	13 U	110	8 J
SURR 1(TOL) %RECOVERY	114	116	102	122 *	112	117
SURR 2(BFB) %RECOVERY	87	69 *	88	76	78	79
SURR 3(DCE) %RECOVERY	101	96	99	99	101	108

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M/E 50

TABLE D.7.27 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0827

## AREA

LOCATION	LAS POSITAS	875/878	875/878	875/878	N OF 875	N OF 875
TYPE OF LOCATION	ARROYO	CULVERT	CULVERT	CULVERT	CULVERT	CULVERT
SAMPLE NUMBER	LL005012A	LL029010A	LL029021A	LL029032A	LL030013A	LL030024A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	6	6	6	6	6

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

INTERNAL STD AREA(BCM)	2330000	2290000	1700000	2140000	2010000	2010000
INTERNAL STD AREA(CBZ)	8980000	6340000	6710000	6290000	6430000	6820000
INTERNAL STD AREA(DFB)	1E+07	1E+07	9000000	1E+07	1E+07	1E+07

DILUTION FACTOR	1.04	1.15	1.21	1.15	1.1	1.1
PERCENT MOISTURE	4	13.3	17.3	13.3	9.5	9.4
ACTUAL(ALLOWED) HOLD TIME	21(14 D)	20(14 D)				

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TABLE D.7.28 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0828

AREA	QA	QA	QA	QA	QA	ISTD	RET	TIM	METHOD	N OF 875	N OF 875
LOCATION	TUNED	CONTINUING	CONTINUING	SHIFT	BLANK	CULVERT	CULVERT			CULVERT	CULVERT
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	LL0828878	VBK0828	LL030035A	LL030046A			SOIL	SOIL
SAMPLE NUMBER	LL0828875	LL0828877	LL0828877	SOIL	SOIL	SOIL	SOIL			UG/KG	UG/KG
MATRIX	SOIL	SOIL	SOIL	SOIL	WATER	SOIL	SOIL			6	6
UNITS	%	RRF	%	AREA	UG/L						
ENV PROBLEM NO											
ACETONE		0.68	35.6		14		27	B		33	B
BENZENE		0.97	1.8		5 U		7 U			1	J
BROMODICHLOROMETHANE		0.485	5.5		5 U		7 U			6	U
BROMOFLUOROBENZENE		0.658	2.3		5 U		7 U			6	U
BROMOFORM		0.331	1.8		5 U		7 U			6	U
BROMOMETHANE		0.566	14		10 U		14	U		12	U
CARBON DISULFIDE		3.084	13.3		5 U		7 U			6	U
CARBON TETRACHLORIDE		0.414	7.2		5 U		7 U			6	U
CHLOROBENZENE		1.065	7.5		5 U		7 U			6	U
CHLOROETHANE		0.367	28.2		10 U		14	U		12	U
CHLOROFORM		3.069	8.9		5 U		7 U			6	U
CHLOROMETHANE		0.467	44.3		10 U		14	U		12	U
CIS-1,3-DICHLOROPROPENE		0.347	4		5 U		7 U			6	U
DI-BROMOCHLOROMETHANE		0.429	5.7		5 U		7 U			6	U
ETHYL BENZENE		0.563	4		1 U		7 U			6	U
METHYLENE CHLORIDE		0.877	51.4		5 U		15			21	U
STYRENE		1.157	6.5		5 U		7 U			6	U
TETRA-CHLOROETHENE		0.425	2.1		5 U		7 U			6	U
TOLUENE		0.851	4.1		1 J		4	JB		5	JB
TOLUENE-D8		1.223	3								
TRANS-1,3-DICHLOROPROPENE		0.638	5		5 U		7 U			6	U
TRICHLOROETHENE		0.361	2.1		5 U		7 U			6	U
VINYL ACETATE		0.366	37		10 U		14	U		12	U
VINYL CHLORIDE		0.442	14.2		10 U		14	U		12	U
XYLENE (TOTAL)		0.675	6.8		5 U		7 U			6	U
1,1-DICHLOROETHANE		2.374	0.4		5 U		7 U			6	U
1,1-DICHLOROETHENE		1.167	3.1		5 U		7 U			6	U
1,1,1-TRICHLOROETHANE		0.439	5.5		5 U		7 U			6	U
1,1,2-TRICHLOROETHANE		0.306	10		5 U		7 U			6	U
1,1,2,2-TETRA-CHLOROETHANE		0.575	1.3		5 U		7 U			6	U
1,2-DICHLOROETHANE		2.285	0.3		5 U		7 U			6	U
1,2-DICHLOROETHANE-D4		1.935	5.2		5 U		7 U			6	U
1,2-DICHLOROETHENE		1.427	3.8		5 U		7 U			6	U
1,2-DICHLOROPROPANE		0.26	11.3		5 U		7 U			6	U
2-BUTANONE		0.033	8.2		10 U		14	U		12	U
2-HEXANONE		0.272	2.2		10 U		14	U		12	U
4-METHYL-2-PENTANONE		0.326	7.8		10 U		14	U		12	U
SURR 1(TOL) %RECOVERY					100		114			123	x

TABLE D.7.28 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0828

AREA	QA	QA	QA	QA	QA	N OF 875	N OF 875
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	CULVERT
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		CULVERT
SAMPLE NUMBER	LL0828875	LL0828877	LL0828877	LL0828878	VBK0828		LL030035A
MATRIX	SOIL	SOIL	SOIL	SOIL	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						6	6
SURR 2(BFB) %RECOVERY					98	93	83
SURR 3(DCE) %RECOVERY					104	106	104
M/E 50	16						
M/E 75	48						
M/E 95	100						
M/E 96	7.7						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	82						
M/E 175-1	6.4						
M/E 175-2	7.8						
M/E 176-1	78						
M/E 176-2	95						
M/E 177-1	5.8						
M/E 177-2	7.4						
INTERNAL STD AREA(BCM)				2900000	2710000	1300000	2340000
INTERNAL STD AREA(CBZ)				1E+07	1E+07	5240000	8160000
INTERNAL STD AREA(DFB)				2E+07	2E+07	7190000	1E+07
DILUTION FACTOR					1	1.17	1.1
PERCENT MOISTURE						14.4	9
ACTUAL(ALLOWED) HOLD TIME						21(14 D)	21(14 D)
AREA							
LOCATION	LAS POSITAS	LAS POSITAS	LAS POSITAS	GSA AREA	GSA AREA	GSA AREA	
TYPE OF LOCATION	ARROYO	ARROYO	ARROYO	WELLS	WELLS	WELLS	
SAMPLE NUMBER	LL009016A	LL009027A	LL009038A	LL036133A	LL036144A	LL036155A	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ENV PROBLEM NO	1	1	1	9	9	9	
ACETONE	36 B	24 B	86 B	23 B	25 B	24 B	
BENZENE	6 U	1 J	12	7 U	7 U	7 U	
BROMODICHLOROMETHANE	6 U	6 U	6 U	7 U	7 U	7 U	

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TABLE D.7.28 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0828

AREA

LOCATION  
TYPE OF LOCATION  
SAMPLE NUMBER  
MATRIX  
UNITS  
ENV PROBLEM NO

	LAS POSITAS ARROYO LL009016A SOIL UG/KG 1	LAS POSITAS ARROYO LL009027A SOIL UG/KG 1	LAS POSITAS ARROYO LL009038A SOIL UG/KG 1	GSA AREA WELLS LL036133A 9	GSA AREA WELLS LL036144A 9	GSA AREA WELLS LL036155A 9
BROMOFLUOROBENZENE						
BROMOFORM	6 U	6 U	6 U	7 U	7 U	7 U
BROMOMETHANE	12 U	12 U	11 U	13 U	14 U	14 U
CARBON DISULFIDE	6 U	6 U	6 U	7 U	7 U	7 U
CARBON TETRACHLORIDE	6 U	6 U	6 U	7 U	7 U	7 U
CHLOROBENZENE	6 U	6 U	6 U	7 U	7 U	7 U
CHLOROETHANE	12 U	12 U	11 U	13 U	14 U	14 U
CHLOROFORM	12 U	12 U	6 U	7 U	7 U	7 U
CHLOROMETHANE	12 U	12 U	11 U	13 U	14 U	14 U
CIS-1,3-DICHLOROPROPENE	6 U	6 U	6 U	7 U	7 U	7 U
DBROMOCHLOROMETHANE	6 U	6 U	6 U	7 U	7 U	7 U
ETHYLBENZENE	6 U	6 U	3 JB	7 U	7 U	7 U
METHYLENE CHLORIDE	6 U	6 U	55	7 U	7 U	7 U
STYRENE	6 U	6 U	6 U	7 U	7 U	7 U
TETRAHALOETHENE	6 U	6 U	6 U	7 U	7 U	7 U
TOLUENE	2 JB	4 JB	30 B	7	2 JB	2 JB
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	6 U	6 U	6 U	7 U	7 U	7 U
TRICHLOROETHENE	6 U	6 U	6 U	7 U	7 U	7 U
VINYL ACETATE	12 U	12 U	11 U	13 U	14 U	14 U
VINYL CHLORIDE	12 U	12 U	11 U	13 U	14 U	14 U
XYLENE (TOTAL)	6 U	6 U	4	7 U	7 U	7 U
1,1-DICHLOROETHANE	6 U	6 U	6 U	7 U	7 U	7 U
1,1-DICHLOROETHENE	6 U	6 U	6 U	7 U	7 U	7 U
1,1,1-TRICHLOROETHANE	6 U	6 U	6 U	7 U	7 U	7 U
1,1,2-TRICHLOROETHANE	6 U	6 U	6 U	7 U	7 U	7 U
1,1,2,2-TETRAHALOETHANE	6 U	6 U	6 U	7 U	7 U	7 U
1,2-DICHLOROETHANE	6 U	6 U	6 U	7	7 U	7 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	6 U	6 U	6 U	7 U	7 U	7 U
1,2-DICHLOROPROPANE	6 U	6 U	6 U	7 U	7 U	7 U
2-BUTANONE	12 U	12 U	11 U	13 U	14 U	14 U
2-HEXANONE	12 U	12 U	11 U	13 U	14 U	14 U
4-METHYL-2-PENTANONE	12 U	12 U	11 U	13	14 U	14 U
SURR 1(TOL) %RECOVERY	108	115	113	95	106	99
SURR 2(BFB) %RECOVERY	90	89	85	105	96	98
SURR 3(DCE) %RECOVERY	102	110	102	112	112	109

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M/E 50

TABLE D.7.28 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0828

## AREA

LOCATION	LAS POSITAS	LAS POSITAS	LAS POSITAS	GSA AREA	GSA AREA	GSA AREA
TYPE OF LOCATION	ARROYO	ARROYO	ARROYO	WELLS	WELLS	WELLS
SAMPLE NUMBER	LL009016A	LL009027A	LL009038A	LL036133A	LL036144A	LL036155A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	1	1	9	9	9

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

INTERNAL STD AREA(BCM)	2270000	2230000	2240000	1950000	2250000	1880000
INTERNAL STD AREA(CBZ)	1E+07	9290000	9030000	8240000	1E+07	8900000
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR	1.08	1.11	1.06	1.15	1.17	1.18
PERCENT MOISTURE	7	9.7	6	12.7	14.4	15
ACTUAL(ALLOWED) HOLD TIME	21(14 D)					

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TABLE D.7.29 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0829

AREA	QA	QA	QA	QA	QA	QA	GSA AREA	GSA AREA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET SHIFT	METHOD	GSA AREA	WELLS	WELLS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	WATER	BLANK	WELLS	WELLS	WELLS
SAMPLE NUMBER	LL0829875	LL0829877	LL0829877	WATER	WATER	SOIL	SOIL	SOIL
MATRIX	SOIL	WATER	WATER	WATER	WATER	UG/KG	UG/KG	UG/KG
UNITS	%	%	%	AREA	UG/L	9	9	9
ENV PROBLEM NO								
ACETONE		0.506	0.9		14	16	22	B
BENZENE		0.853	10.4		5	6	8	U
BROMODICHLOROMETHANE		0.521	1.6		5	6	8	U
BROMOFLUOROBENZENE		0.668	0.8		5	6	8	U
BROMOFORM		0.372	14.2		5	6	8	U
BROMOMETHANE		0.478	3.7		10	13	15	U
CARBON DISULFIDE		2.679	24.7		5	6	8	U
CARBON TETRACHLORIDE		0.432	3.3		5	6	8	U
CHLOROBENZENE		1.106	11.6		5	6	8	U
CHLOROETHANE		0.306	6.8		10	13	15	U
CHLOROFORM		3.133	11.2		5	6	8	U
CHLOROMETHANE		0.333	60.2		10	13	15	U
CIS-1,3-DICHLOROPROPENE		0.341	2.5		5	6	8	U
DIBROMOCHLOROMETHANE		0.451	11.2		5	6	8	U
ETHYLBENZENE		0.598	10.5		5	6	8	U
METHYLENE CHLORIDE		0.766	57.6		5	6	8	U
STYRENE		1.216	12		5	6	8	U
TETRACHLOROETHENE		0.448	7.7		5	6	8	U
TOLUENE		0.886	8.4		5	2	8	J
TOLUENE-D8		1.223	3		5	6	8	U
TRANS-1,3-DICHLOROPROPENE		0.597	11.1		5	6	8	U
TRICHLOROETHENE		0.332	10		5	6	8	U
VINYL ACETATE		0.329	23.1		10	13	15	U
VINYL CHLORIDE		0.332	35.6		10	13	15	U
XYLENE (TOTAL)		0.706	11.6		5	6	8	U
1,1-DICHLOROETHANE		2.286	3.3		5	6	8	U
1,1-DICHLOROETHENE		1.097	8.9		5	6	8	U
1,1,1-TRICHLOROETHANE		0.447	3.8		5	6	8	U
1,1,2-TRICHLOROETHANE		0.314	12.8		5	6	8	U
1,1,2,2-TETRACHLOROETHANE		0.63	10.9		5	6	8	U
1,2-DICHLOROETHANE		2.306	1.2		5	6	8	U
1,2-DICHLOROETHANE-D4		1.986	2.7		5	6	8	U
1,2-DICHLOROETHENE		1.38	0.4		5	6	8	U
1,2-DICHLOROPROPANE		0.252	13.9		5	6	8	U
2-BUTANONE		0.03	0.8		10	13	15	U
2-HEXANONE		0.254	4.5		10	13	15	U
4-METHYL-2-PENTANONE		0.348	1.7		10	13	15	U
SURR 1(TOL) %RECOVERY					99	110	105	

TABLE D.7.29 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0829

AREA	QA	QA	QA	QA	QA	GSA AREA	GSA AREA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	WELLS	WELLS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LL036075A	LL036086A
SAMPLE NUMBER	LL0829875	LL0829877	LL0829877	LL0829878	VBK0829	SOIL	SOIL
MATRIX	SOIL	WATER	WATER	WATER	WATER	UG/L	UG/KG
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						9	9
SURR 2(BFB) %RECOVERY					99	88	97
SURR 3(DCE) %RECOVERY					99	101	103
M/E 50	17						
M/E 75	47						
M/E 95	100						
M/E 96	8.2						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	76						
M/E 175-1	6.9						
M/E 175-2	9						
M/E 176-1	77						
M/E 176-2	101						
M/E 177-1	5.3						
M/E 177-2	6.8						
INTERNAL STD AREA(BCM)				2800000	2690000	2570000	2300000
INTERNAL STD AREA(CBZ)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)				2E+07	2E+07	1E+07	1E+07
DILUTION FACTOR					1	1.14	1.24
PERCENT MOISTURE						12.3	19.2
ACTUAL(ALLOWED) HOLD TIME						19(14 D)	19(14 D)
AREA							
LOCATION							
TYPE OF LOCATION	GSA AREA	N OF 4TH ST	N OF 4TH ST	N OF 4TH ST	BLDG. 612	BLDG. 612	
SAMPLE NUMBER	WELLS	ARROYO	ARROYO	ARROYO	DITCH	DITCH	
MATRIX	LL036097A	LL011010A	LL011021A	LL011032A	LL013012A	LL013023A	
UNITS	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
ENV PROBLEM NO	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ACETONE	44 B	26 B	20 B	24 B	15 B	18 B	
BENZENE	7 U	7 U	7 U	8 U	7 U	6 U	
BROMODICHLOROMETHANE	7 U	7 U	7 U	8 U	7 U	6 U	

TABLE D.7.29 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0829

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	GSA AREA WELLS LL036097A	N OF 4TH ST ARROYO LL011010A	N OF 4TH ST ARROYO LL011021A	N OF 4TH ST ARROYO LL011032A	BLDG. 612 DITCH LL013012A	BLDG. 612 DITCH LL013023A
	UG/KG 9	UG/KG 1	UG/KG 1	UG/KG 1	UG/KG 3	UG/KG 3
BROMOFLUOROBENZENE						
BROMOFORM		7 U	7 U	7 U	7 U	6 U
BROMOMETHANE	15 U	14 U	14 U	15 U	14 U	13 U
CARBON DISULFIDE	7 U	7 U	7 U	8 U	7 U	6 U
CARBON TETRACHLORIDE	7 U	7 U	7 U	8 U	7 U	6 U
CHLOROBENZENE	7 U	7 U	7 U	8 U	7 U	6 U
CHLOROETHANE	15 U	14 U	14 U	15 U	14 U	13 U
CHLOROFORM	7 U	7 U	7 U	8 U	7 U	6 U
CHLOROMETHANE	15 U	14 U	14 U	15 U	14 U	13 U
CIS-1,3-DICHLOROPROPENE	7 U	7 U	7 U	8 U	7 U	6 U
DBROMOCHLOROMETHANE	7 U	7 U	7 U	8 U	7 U	6 U
ETHYL BENZENE	7 U	7 U	7 U	8 U	7 U	6 U
METHYLENE CHLORIDE	14 U	24 U	13 U	24 U	25 U	17 U
STYRENE	7 U	7 U	7 U	8 U	7 U	6 U
TETRAHALOETHENE	7 U	7 U	7 U	8 U	7 U	6 U
TOLUENE	2 U	7	7	8	2	6
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	7 U	7 U	7 U	8 U	7 U	6 U
TRICHLOROETHENE	7 U	7	7 U	8 U	7 U	6 U
VINYL ACETATE	15 U	14 U	14 U	15 U	14 U	13 U
VINYL CHLORIDE	15 U	14 U	14 U	15 U	14 U	13 U
XYLENE (TOTAL)	7 U	7 U	7 U	8 U	7 U	6 U
1,1-DICHLOROETHANE	7 U	7 U	7 U	8 U	7 U	6 U
1,1-DICHLOROETHENE	7 U	7 U	7 U	8 U	7 U	6 U
1,1,1-TRICHLOROETHANE	7 U	7 U	7 U	8 U	7 U	6 U
1,1,2-TRICHLOROETHANE	7 U	7 U	7 U	8 U	7 U	6 U
1,1,2,2-TETRAHALOETHANE	7 U	7 U	7 U	8 U	7 U	6 U
1,2-DICHLOROETHANE	7 U	7 U	7 U	8 U	7 U	6 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	7 U	7 U	7 U	8 U	7 U	6 U
1,2-DICHLOROPROPANE	7 U	7 U	7 U	8 U	7 U	6 U
2-BUTANONE	15 U	14 U	14 U	15 U	14 U	13 U
2-HEXANONE	15 U	14 U	14 U	15 U	14 U	13 U
4-METHYL-2-PENTANONE	15 U	14 U	14 U	15 U	14 U	13 U
SURR 1(TOL) %RECOVERY		103	102	103	103	101
SURR 2(BFB) %RECOVERY		93	99	98	98	99
SURR 3(DCE) %RECOVERY		103	100	101	104	101

TABLE D.7.29 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0829

## AREA

LOCATION	GSA AREA	N OF 4TH ST	N OF 4TH ST	N OF 4TH ST	BLDG. 612	BLDG. 612
TYPE OF LOCATION	WELLS	ARROYO	ARROYO	ARROYO	DITCH	DITCH
SAMPLE NUMBER	LL036097A	LL011010A	LL011021A	LL011032A	LL013012A	LL013023A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	9	1	1	1	3	3

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

INTERNAL STD AREA(BCM)	2370000	2210000	2330000	2060000	2450000	2430000
INTERNAL STD AREA(CBZ)	1E+07	9570000	1E+07	9060000	1E+07	1E+07
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR	1.21	1.19	1.16	1.24	1.2	1.14
PERCENT MOISTURE	17.1	15.8	14.1	19.5	16.8	12.1
ACTUAL(ALLOWED) HOLD TIME	19(14 D)					

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TABLE D.7.30 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0830

AREA	QA	QA	QA	QA	QA	QA	BLDG. 612	GSA AREA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET SHIFT	METHOD BLANK		DITCH	WELLS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	TIME	WATER	WATER	SOIL	SOIL
SAMPLE NUMBER	LL0830875	LL0830877	LL0830877	LL0830878	VBK0830	UG/L	UG/KG	UG/KG
MATRIX	SOIL	WATER	WATER	WATER	WATER	UG/L	UG/KG	UG/KG
UNITS	%	RRF	%	AREA			3	9
ENV PROBLEM NO								
ACETONE		0.512	2.1			11	16	B
BENZENE		0.966	1.5		5	U	7	U
BROMODICHLOROMETHANE		0.495	3.5		5	U	7	U
BROMOFLUOROBENZENE		0.664	1.4					9
BROMOFORM		0.324	0.3		5	U	7	U
BROMOMETHANE		0.492	0.9		10	U	13	U
CARBON DISULFIDE		2.861	19.6		5	U	7	U
CARBON TETRACHLORIDE		0.406	9.1		5	U	7	U
CHLOROBENZENE		1.084	9.4		5	U	13	U
CHLOROETHANE		0.268	6.3		10	U	7	U
CHLOROFORM		3.114	10.5		5	U	13	U
CHLORMETHANE		0.376	55.1		10	U	13	U
CIS-1,3-DICHLOROPROPENE		0.354	6.3		5	U	7	U
DIBROMOCHLOROMETHANE		0.451	11.1		5	U	7	U
ETHYLBENZENE		0.588	8.7		5	U	7	U
METHYLENE CHLORIDE		1.514	16.1		5	U	8	U
STYRENE		1.214	11.8		5	U	7	U
TETRACHLOROETHENE		0.433	4		5	U	7	U
TOLUENE		0.878	7.4		0.9	J	7	U
TOLUENE-D8		1.203	4.6					2
TRANS-1,3-DICHLOROPROPENE		0.706	5.1		5	U	7	U
TRICHLOROETHENE		0.368	0		5	U	7	U
VINYL ACETATE		0.327	22.4		10	U	13	U
VINYL CHLORIDE		0.343	33.5		10	U	7	U
XYLENE (TOTAL)		0.697	10.2		5	U	13	U
1,1-DICHLOROETHANE		2.366	0.1		5	U	7	U
1,1-DICHLOROETHENE		1.094	9.1		5	U	7	U
1,1,1-TRICHLOROETHANE		0.441	4.9		5	U	7	U
1,1,2-TRICHLOROETHANE		0.314	12.8		5	U	7	U
1,1,2,2-TETRACHLOROETHANE		0.592	4.2		5	U	7	U
1,2-DICHLOROETHANE		2.305	1.2		5	U	7	U
1,2-DICHLOROETHANE-D4		1.971	3.5		5	U	7	U
1,2-DICHLOROETHENE		1.449	5.4		5	U	7	U
1,2-DICHLOROPROPANE		0.288	1.6		5	U	7	U
2-BUTANONE		0.028	5.7		10	U	13	U
2-HEXANONE		0.242	9.2		10	U	13	U
4-METHYL-2-PENTANONE		0.328	7.2		10	U	13	U
SURR 1(TOL) %RECOVERY					102		104	101

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TABLE D.7.30 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0830

AREA	QA	QA	QA	QA	QA	BLDG.	GSA AREA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET	TIM METHOD	612	WELLS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	DITCH	LL036019A
SAMPLE NUMBER	LL0830875	LL0830877	LL0830877	LL0830878	VBK0830	LL013034A	SOIL
MATRIX	SOIL	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						3	9
SURR 2(BFB) %RECOVERY					102	99	100
SURR 3(DCE) %RECOVERY					99	104	102
M/E 50	16						
M/E 75	47						
M/E 95	100						
M/E 96	5.4						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	79						
M/E 175-1	5.7						
M/E 175-2	7.3						
M/E 176-1	75						
M/E 176-2	95						
M/E 177-1	4.4						
M/E 177-2	5.8						
INTERNAL STD AREA(BCM)				2830000	2730000	2440000	2470000
INTERNAL STD AREA(CBZ)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)				2E+07	2E+07	1E+07	1E+07
DILUTION FACTOR						1	1.44
PERCENT MOISTURE						12.6	24
ACTUAL(ALLOWED) HOLD TIME						19(14 D)	19(14 D)
AREA							
LOCATION	GSA AREA	GSA AREA	ARROYO SECO				
TYPE OF LOCATION	WELLS	WELLS	ARROYOS	ARROYOS	ARROYOS	ARROYOS	ARROYOS
SAMPLE NUMBER	LL036020A	LL036031A	SN001019A	SN001020A	SN001031A	SN002010A	SN002010A
MATRIX	SOIL						
UNITS	UG/KG						
ENV PROBLEM NO	9	9	1	1	1	1	1
ACETONE	27 B	33 B	47 B	41 B	27 B	19 U	
BENZENE	9 U	9 U	3 J	1 J	1 U	10 U	
BROMODICHLOROMETHANE	9 U	9 U	5 U	5 U	5 U	10 U	

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TABLE D.7.30 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0830

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AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	GSA AREA WELLS LL036020A UG/KG 9	GSA AREA WELLS LL036031A UG/KG 9	ARROYO SECO ARROYOS SN001019A UG/KG 1	ARROYO SECO ARROYOS SN001020A UG/KG 1	ARROYO SECO ARROYOS SN001031A UG/KG 1	ARROYO SECO ARROYOS SN002010A UG/KG 1
BROMOFLUOROBENZENE						
BROMOFORM	9 U	9 U	5 U	5 U	5 U	10 U
BROMOMETHANE	17 U	17 U	11 U	11 U	11 U	19 U
CARBON DISULFIDE	9 U	9 U	5 U	5 U	5 U	10 U
CARBON TETRACHLORIDE	9 U	9 U	5 U	5 U	5 U	10 U
CHLOROBENZENE	9 U	9 U	5 U	5 U	5 U	10 U
CHLOROETHANE	17 U	17 U	11 U	11 U	11 U	19 U
CHLOROFORM	9 U	9 U	2 U	5 U	5 U	10 U
CHLOROMETHANE	17 U	17 U	11 U	11 U	11 U	19 U
CIS-1,3-DICHLOROPROPENE	9 U	9 U	5 U	5 U	5 U	10 U
DIBROMOCHLOROMETHANE	9 U	9 U	5 U	5 U	5 U	10 U
ETHYL BENZENE	2 J	2 J	5 U	5 U	5 U	10 U
METHYLENE CHLORIDE	18	16	21	11 U	10	17
STYRENE	9 U	9 U	5 U	5 U	5 U	10 U
TETRAHALOETHENE	9 U	9 U	5 U	5 U	5 U	10 U
TOLUENE	2 JB	2 JB	5 B	2 JB	2 JB	10
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	9 U	9 U	5 U	5 U	5 U	10 U
TRICHLOROETHENE	9 U	9 U	5 U	5 U	5 U	10 U
VINYL ACETATE	17 U	17 U	11 U	11 U	11 U	19 U
VINYL CHLORIDE	17 U	17 U	11 U	11 U	11 U	19 U
XYLENE (TOTAL)	9 U	9 U	5 U	5 U	5 U	10 U
1,1-DICHLOROETHANE	9 U	9 U	5 U	5 U	5 U	10 U
1,1-DICHLOROETHENE	9 U	9 U	5 U	5 U	5 U	10 U
1,1,1-TRICHLOROETHANE	9 U	9 U	5 U	5 U	5 U	10 U
1,1,2-TRICHLOROETHANE	9 U	9 U	5 U	5 U	5 U	10 U
1,1,2,2-TETRAHALOETHANE	9 U	9 U	5 U	5 U	5 U	10 U
1,2-DICHLOROETHANE	9 U	9 U	5 U	5 U	5 U	10 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	9 U	9 U	5 U	5 U	5 U	10 U
1,2-DICHLOROPROPANE	9 U	9 U	5 U	5 U	5 U	10 U
2-BUTANONE	17 U	17 U	11 U	11 U	11 U	19 U
2-HEXANONE	17 U	17 U	11 U	11 U	11 U	19 U
4-METHYL-2-PENTANONE	17 U	17 U	11 U	11 U	11 U	19 U
SURR 1(TOL) %RECOVERY	106	104	111	110	105	105
SURR 2(BFB) %RECOVERY	102	103	91	90	94	91
SURR 3(DCE) %RECOVERY	104	106	106	104	102	103

M/E 50

TABLE D.7.30 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0830

## AREA

LOCATION	GSA AREA	GSA AREA	ARROYO SECO	ARROYO SECO	ARROYO SECO	ARROYO SECO
TYPE OF LOCATION	WELLS	WELLS	ARROYOS	ARROYOS	ARROYOS	ARROYOS
SAMPLE NUMBER	LL036020A	LL036031A	SN001019A	SN001020A	SN001031A	SN002010A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	9	9	1	1	1	1

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

INTERNAL STD AREA(BCM)	2460000	2500000	2500000	2230000	2570000	2190000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	1E+07	9550000	1E+07	9760000
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR	1.31	1.31	1.04	1.04	1.04	1.38
PERCENT MOISTURE	23.7	23.5	3.8	3.7	3.8	27.6
ACTUAL(ALLOWED) HOLD TIME	20(14 D)					

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TABLE D.7.31 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0831

AREA	QA TUNED CALIBRATION LL0831875 WATER %	QA CONTINUING CALIBRATION LL0831877 WATER RRF	QA CONTINUING CAL XD LL0831877 WATER %	QA ISTD SHIFT LL0831878 WATER AREA	QA RET TIM BLANK VBK0831 WATER UG/L	METHOD	ARROYO SECO ARROYOS SN002021A SOIL UG/KG 1	ARROYO SECO ARROYOS SN002032A SOIL UG/KG 1
ACETONE			0.7	39.5			12	24
BENZENE		1.012		6.3			1 B	1 J
BROMODICHLOROMETHANE		0.501		2.3			5 U	5 U
BROMOFLUOROBENZENE		0.686		1.8			5 U	5 U
BROMOFORM		0.312		4.1			5 U	5 U
BROMOMETHANE		0.644		29.8			10 U	10 U
CARBON DISULFIDE		4.336		21.9			10 U	10 U
CARBON TETRACHLORIDE		0.449		0.5			10 U	10 U
CHLOROBENZENE		1.102		11.2			10 U	10 U
CHLOROETHANE		0.326		13.7			10 U	10 U
CHLOROFORM		3.178		12.8			10 U	10 U
CHLOROMETHANE		0.979		16.8			10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.351		5.4			10 U	10 U
DIBROMOCHLOROMETHANE		0.424		4.4			10 U	10 U
ETHYLBENZENE		0.588		8.7			10 U	10 U
METHYLENE CHLORIDE		1.674		7.3			10 U	10 U
STYRENE		1.167		7.4			10 U	10 U
TETRACHLOROETHENE		0.453		8.8			10 U	10 U
TOLUENE		0.863		5.6			10 U	10 U
TOLUENE-D8		1.285		1.9			10 U	10 U
TRANS-1,3-DICHLOROPROPENE		0.678		0.9			10 U	10 U
TRICHLOROETHENE		0.381		3.3			10 U	10 U
VINYL ACETATE		0.384		43.6			10 U	10 U
VINYL CHLORIDE		0.646		25.3			10 U	10 U
XYLENE (TOTAL)		0.697		10.2			10 U	10 U
1,1-DICHLOROETHANE		2.568		8.7			10 U	10 U
1,1-DICHLOROETHENE		1.447		20.2			10 U	10 U
1,1,1-TRICHLOROETHANE		0.473		2			10 U	10 U
1,1,2-TRICHLOROETHANE		0.302		8.8			10 U	10 U
1,1,2,2-TETRACHLOROETHANE		0.571		0.6			10 U	10 U
1,2-DICHLOROETHANE		2.416		6			10 U	10 U
1,2-DICHLOROETHANE-D4		2.062		1			10 U	10 U
1,2-DICHLOROETHENE		1.585		15.3			10 U	10 U
1,2-DICHLOROPROPANE		0.292		0.2			10 U	10 U
2-BUTANONE		0.03		1.9			10 U	10 U
2-HEXANONE		0.226		14.9			10 U	10 U
4-METHYL-2-PENTANONE		0.307		13.2			10 U	10 U
SURR 1(TOL) %RECOVERY					100		106	105

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TABLE D.7.31 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0831

AREA	QA	QA	QA	QA	QA	ARROYO SECO	ARROYO SECO
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		
SAMPLE NUMBER	LL0831875	LL0831877	LL0831877	LL0831878	VBK0831	ARROYOS	ARROYOS
MATRIX	WATER	WATER	WATER	WATER	WATER	SN002021A	SN002032A
UNITS	%	RRF	%	AREA	UG/L	SOIL	SOIL
ENV PROBLEM NO						UG/KG	UG/KG
SURR 2(BFB) %RECOVERY					98	96	93
SURR 3(DCE) %RECOVERY					99	100	97
M/E 50	18						
M/E 75	46						
M/E 95	100						
M/E 96	6.3						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	76						
M/E 175-1	5.6						
M/E 175-2	7.4						
M/E 176-1	73						
M/E 176-2	97						
M/E 177-1	4.7						
M/E 177-2	6.4						
INTERNAL STD AREA(BCM)				2540000	2660000	2040000	2350000
INTERNAL STD AREA(CBZ)				1E+07	1E+07	9240000	1E+07
INTERNAL STD AREA(DFB)				2E+07	2E+07	1E+07	1E+07
DILUTION FACTOR					1	1.04	1.02
PERCENT MOISTURE						3.9	2
ACTUAL(ALLOWED) HOLD TIME						20(14 D)	20(14 D)
AREA							
LOCATION	ARROYO SECO	ARROYO SECO	ARROYO SECO	GSA AREA	GSA AREA	GSA AREA	GSA AREA
TYPE OF LOCATION	ARROYOS	ARROYOS	ARROYOS	GSA AREA	GSA AREA	GSA AREA	GSA AREA
SAMPLE NUMBER	SN003011A	SN003022A	SN003033A	LL031014A	LL031025A	LL031036A	LL031036A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	1	1	6	6	6	6
ACETONE	11 B	22 B	43 B	190 B	160 B	160 B	
BENZENE	5 U	0.9 J	1 J	2 J	2 J	3 J	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	

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TABLE D.7.31 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0831

## AREA

LOCATION	ARROYO SECO	ARROYO SECO	ARROYO SECO	GSA AREA	GSA AREA	GSA AREA
TYPE OF LOCATION	ARROYOS	ARROYOS	ARROYOS	GSA AREA	GSA AREA	GSA AREA
SAMPLE NUMBER	SN003011A	SN003022A	SN003033A	LL031014A	LL031025A	LL031036A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	1	1	6	6	6

## BROMOFLUOROBENZENE

BROMOFORM

BROMOMETHANE

CARBON DISULFIDE

CARBON TETRACHLORIDE

CHLOROBENZENE

CHLOROETHANE

CHLOROFORM

CHLOROMETHANE

CIS-1,3-DICHLOROPROPENE

DIBROMOCHLOROMETHANE

ETHYLBENZENE

METHYLENE CHLORIDE

STYRENE

TETRACHLOROETHENE

TOLUENE

TOLUENE-D8

TRANS-1,3-DICHLOROPROPENE

TRICHLOROETHENE

VINYL ACETATE

VINYL CHLORIDE

XYLENE (TOTAL)

1,1-DICHLOROETHANE

1,1-DICHLOROETHENE

1,1,1-TRICHLOROETHANE

1,1,2-TRICHLOROETHANE

1,1,2,2-TETRACHLOROETHANE

1,2-DICHLOROETHANE

1,2-DICHLOROETHANE-D4

1,2-DICHLOROETHENE

1,2-DICHLOROPROPANE

2-BUTANONE

2-HEXANONE

4-METHYL-2-PENTANONE

SURR 1(TOL) %RECOVERY	103	108	108	127 *	123 *	128 *
SURR 2(BFB) %RECOVERY	93	90	87	75	84	74
SURR 3(DCE) %RECOVERY	98	100	99	99	95	97

M/E 50

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TABLE D.7.31 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0831

## AREA

LOCATION	ARROYO SECO	ARROYO SECO	ARROYO SECO	GSA AREA	GSA AREA	GSA AREA
TYPE OF LOCATION	ARROYOS	ARROYOS	ARROYOS	GSA AREA	GSA AREA	GSA AREA
SAMPLE NUMBER	SN003011A	SN003022A	SN003033A	LL031014A	LL031025A	LL031036A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	1	1	6	6	6
M/E 75						
M/E 95						
M/E 96						
M/E 173-1						
M/E 173-2						
M/E 174						
M/E 175-1						
M/E 175-2						
M/E 176-1						
M/E 176-2						
M/E 177-1						
M/E 177-2						
INTERNAL STD AREA(BCM)	2450000	2370000	2430000	1760000	1760000	1670000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	9920000	3880000	4620000	4050000
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	7810000	8460000	8030000
DILUTION FACTOR	1.08	1.05	1.04	1.07	1.08	1.03
PERCENT MOISTURE	7.4	5	4	6.8	7	2.9
ACTUAL(ALLOWED) HOLD TIME	20(14 D)	20(14 D)	20(14 D)	21(14 D)	21(14 D)	21(14 D)

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TABLE D.7.32 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0901

AREA	QA	QA	QA	QA	QA	ISTD	RET	TIM	METHOD	GSA	GSA	GSA
LOCATION	TUNED	CONTINUING	CONTINUING	SHIFT	BLANK	GSA	GSA	GSA	AREA	AREA	AREA	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL X'D	SHIFT	VBK0901	SOIL	SOIL	SOIL				
SAMPLE NUMBER	LL0901875	LL0901877	LL0901877	LL0901878	WATER	SOIL	SOIL	SOIL	LL031047A	LL031058A	LL031058A	
MATRIX	WATER	WATER	WATER	WATER	WATER	UG/KG	UG/KG	UG/KG	6	6	6	
UNITS	%	RRF	%	AREA	UG/L							
ENV PROBLEM NO												
ACETONE		0.526	4.9			13			44	B	48	B
BENZENE		0.986	3.5			5	U		5	U	5	U
BROMODICHLOROMETHANE		0.54	5.3			5	U		5	U	5	U
BROMOFLUOROBENZENE		0.676	0.4			5	U		5	U	5	U
BROMOFORM		0.324	0.4			5	U		5	U	5	U
BROMOMETHANE		0.736	48.3			10	U		11	U	10	U
CARBON DISULFIDE		4.197	18			5	U		5	U	5	U
CARBON TETRACHLORIDE		0.478	7			5	U		5	U	5	U
CHLOROBENZENE		1.116	12.7			5	U		5	U	5	U
CHLOROETHANE		0.327	14			10	U		11	U	10	U
CHLOROFORM		3.366	19.5			5	U		5	U	5	U
CHLOROMETHANE		0.952	13.7			10	U		11	U	10	U
CIS-1,3-DICHLOROPROPENE		0.359	7.7			5	U		5	U	5	U
DIBROMOCHLOROMETHANE		0.427	5.3			5	U		5	U	5	U
ETHYL BENZENE		0.583	7.7			11	J		25	JB	33	JB
METHYLENE CHLORIDE		1.641	9.1			5	U		5	U	5	U
STYRENE		1.172	7.9			11	J		25	JB	5	U
TETRACHLOROETHENE		0.45	8.3			5	U		5	U	5	U
TOLUENE		0.867	6			1			2	JB	2	JB
TOLUENE-D8		1.265	0.3									
TRANS-1,3-DICHLOROPROPENE		0.687	2.2			5	U		5	U	5	U
TRICHLOROETHENE		0.379	2.9			5	U		5	U	5	U
VINYL ACETATE		0.418	56.3			10	U		11	U	10	U
VINYL CHLORIDE		0.688	33.5			10	U		11	U	10	U
XYLENE (TOTAL)		0.711	12.4			5	U		5	U	5	U
1,1-DICHLOROETHANE		2.678	15.3			5	U		5	U	5	U
1,1-DICHLOROETHENE		1.454	20.8			5	U		5	U	5	U
1,1,1-TRICHLOROETHANE		0.499	7.6			5	U		5	U	5	U
1,1,2-TRICHLOROETHANE		0.305	9.6			5	U		5	U	5	U
1,1,2,2-TETRACHLOROETHANE		0.607	6.8			5	U		5	U	5	U
1,2-DICHLOROETHANE		2.5	9.7			5	U		5	U	5	U
1,2-DICHLOROETHANE-D4		2.109	3.3			5	U		5	U	5	U
1,2-DICHLOROETHENE		1.629	18.5			5	U		5	U	5	U
1,2-DICHLOROPROPANE		0.297	1.4			5	U		5	U	5	U
2-BUTANONE		0.029	4.3			10	U		11	U	10	U
2-HEXANONE		0.234	12			10	U		6	J	10	U
4-METHYL-2-PENTANONE		0.325	8.1			10	U		11	U	4	J
SURR 1(TOL) %RECOVERY						100			112		106	

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TABLE D.7.32 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0901

AREA	QA	QA	QA	QA	QA	GSA AREA	GSA AREA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	GSA AREA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	GSA AREA	GSA AREA
SAMPLE NUMBER	LL0901875	LL0901877	LL0901877	LL0901878	VBK0901	LL031047A	LL031058A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						6	6
SURR 2(BFB) %RECOVERY					101	89	85
SURR 3(DCE) %RECOVERY					98	93	92
M/E 50	17						
M/E 75	45						
M/E 95	100						
M/E 96	7.9						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	83						
M/E 175-1	7.2						
M/E 175-2	8.6						
M/E 176-1	83						
M/E 176-2	99						
M/E 177-1	5.1						
M/E 177-2	6.2						
INTERNAL STD AREA(BCM)			2430000	2430000	2160000	2240000	
INTERNAL STD AREA(CBZ)			1E+07	1E+07	7920000	8580000	
INTERNAL STD AREA(DFB)			2E+07	1E+07	1E+07	1E+07	
DILUTION FACTOR					1	1.06	1.04
PERCENT MOISTURE						5	3.8
ACTUAL(ALLOWED) HOLD TIME						22(14 D)	22(14 D)
AREA							
LOCATION	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA
TYPE OF LOCATION	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA	GSA AREA
SAMPLE NUMBER	LL031069A	LL031070A	LL031081A	LL031092A	LL031105A	LL031116A	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ENV PROBLEM NO	6	6	6	6	6	6	
ACETONE	66 B	82 B	100 B	89 B	66 B	63 B	
BENZENE	5 U	2 J	5 U	2 J	2 J	5 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	

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TABLE D.7.32 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0901

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	GSA AREA GSA AREA LL031069A SOIL UG/KG 6	GSA AREA GSA AREA LL031070A SOIL UG/KG 6	GSA AREA GSA AREA LL031081A SOIL UG/KG 6	GSA AREA GSA AREA LL031092A SOIL UG/KG 6	GSA AREA GSA AREA LL031105A SOIL UG/KG 6	GSA AREA GSA AREA LL031116A SOIL UG/KG 6
<b>BROMOFLUOROBENZENE</b>						
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U					
CARBON DISULFIDE	5 U	5 U	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	10 U					
CHLOROFORM	5 U	2 J	5 U	5 U	5 U	5 U
CHLOROMETHANE	10 U					
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
DI-BROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U
ETHYL BENZENE	5 U	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	2 JB	22 B	8 B	27 B	16 B	16 B
STYRENE	5 U	5 U	5 U	5 U	5 U	5 U
TETRA-CHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
TOLUENE	2 JB	4 JB	5 U	5 JB	5 JB	5 JB
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
VINYL ACETATE	10 U					
VINYL CHLORIDE	10 U					
XYLENE (TOTAL)	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRA-CHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	37	37	52	33	10 U	10 U
2-HEXANONE	12	15	20	10 U	10 U	10 U
4-METHYL-2-PENTANONE	9 J	24	34	14	9 J	6 J
SURR 1(TOL) %RECOVERY	105	107	111	113	118 *	111
SURR 2(BFB) %RECOVERY	81	88	88	81	84	90
SURR 3(DCE) %RECOVERY	89	92	96	96	94	98

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TABLE D.7.32 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0901

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	GSA AREA GSA AREA LL031069A SOIL UG/KG 6	GSA AREA GSA AREA LL031070A SOIL UG/KG 6	GSA AREA GSA AREA LL031081A SOIL UG/KG 6	GSA AREA GSA AREA LL031092A SOIL UG/KG 6	GSA AREA GSA AREA LL031105A SOIL UG/KG 6	GSA AREA GSA AREA LL031116A SOIL UG/KG 6
M/E 75						
M/E 95						
M/E 96						
M/E 173-1						
M/E 173-2						
M/E 174						
M/E 175-1						
M/E 175-2						
M/E 176-1						
M/E 176-2						
M/E 177-1						
M/E 177-2						
INTERNAL STD AREA(BCM)	2200000	2070000	1820000	2160000	2130000	1990000
INTERNAL STD AREA(CBZ)	7960000	7720000	6600000	7660000	6970000	7310000
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR	1.04	1.04	1.04	1.04	1.04	1.04
PERCENT MOISTURE	3.8	3.5	4	4	3.9	4
ACTUAL(ALLOWED) HOLD TIME	22(14 D)					

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TABLE D.7.33 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0902

AREA	QA	QA	QA	QA	QA	GSA AREA 6	GSA AREA 6
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL X'D	ISTD SHIFT	METHOD	GSA AREA	GSA AREA
TYPE OF LOCATION	LL0902875	LL0902877	LL0902877	LL0902878	BLANK	GSA AREA	GSA AREA
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
MATRIX	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
UNITS							
ENV PROBLEM NO							
ACETONE		0.588	17.4		13	36	7 JB
BENZENE		1.023	7.4		5 U	3 JU	6 U
BROMODICHLOROMETHANE		0.546	6.4		5 U	5 JU	1 J
BROMOFLUOROBENZENE		0.69	2.3				
BROMOFORM		0.329	1.2		5 U	5 U	6 U
BROMOMETHANE		0.589	18.6		10 U	10 U	11 U
CARBON DISULFIDE		3.896	9.5		5 U	5 U	6 U
CARBON TETRACHLORIDE		0.456	2.2		5 U	5 U	6 U
CHLOROBENZENE		1.112	12.2		5 U	5 U	6 U
CHLOROETHANE		0.347	21.3		10 U	10 U	11 U
CHLOROFORM		4.485	59.2		2 J	3 JU	7 B
CHLOROMETHANE		0.694	17.2		10 U	10 U	11 U
CIS-1,3-DICHLOROPROPENE		0.351	5.5		5 U	5 U	6 U
DI(BROMOCHLOROMETHANE)		0.475	17		5 U	5 U	6 U
ETHYL BENZENE		0.617	13.9		1 J	5 U	6 U
METHYLENE CHLORIDE		1.601	11.3		2 J	5 U	6 U
STYRENE		1.255	15.5		5 U	5 U	6 U
TETRA(CHLOROETHENE)		0.454	9.1		5 U	5 U	6 U
TOLUENE		0.928	13.5		0.9 J	6 B	6 U
TOLUENE-D8		1.232	2.3				
TRANS-1,3-DICHLOROPROPENE		0.663	1.3		5 U	5 U	6 U
TRICHLOROETHENE		0.406	10.2		5 U	5 U	6 U
VINYL ACETATE		0.401	50.2		10 U	10 U	11 U
VINYL CHLORIDE		0.537	4.3		10 U	10 U	11 U
XYLENE (TOTAL)		0.747	18.1		5 U	5 U	6 U
1,1-DICHLOROETHANE		2.385	0.9		5 U	5 U	6 U
1,1-DICHLOROETHENE		1.374	14.1		5 U	5 U	6 U
1,1,1-TRICHLOROETHANE		0.479	3.1		5 U	5 U	6 U
1,1,2-TRICHLOROETHANE		0.317	14		5 U	5 U	6 U
1,1,2,2-TETRA(CHLOROETHANE)		0.594	4.6		5 U	5 U	6 U
1,2-DICHLOROETHANE		2.337	2.6		5 U	5 U	6 U
1,2-DICHLOROETHANE-D4		1.944	4.8		5 U	5 U	6 U
1,2-DICHLOROETHENE		1.595	16		5 U	5 U	6 U
1,2-DICHLOROPROPANE		0.273	6.9		5 U	5 U	6 U
2-BUTANONE		0.031	2.7		10 U	10 U	11 U
2-HEXANONE		0.239	10.4		10 U	10 U	11 U
4-METHYL-2-PENTANONE		0.325	8.1		10 U	10 U	11 U
SURR 1(TOL) %RECOVERY					99	113	118 *

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TABLE D.7.33 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0902

AREA	QA	QA	QA	QA	QA	GSA AREA	GSA AREA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	GSA AREA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	BLANK	GSA AREA
SAMPLE NUMBER	LL0902875	LL0902877	LL0902877	LL0902878	VBK0902	VBK0902	LL031127A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	SOIL
ENV PROBLEM NO						6	UG/KG
SURR 2(BFB) %RECOVERY					98	82	91
SURR 3(DCE) %RECOVERY					105	101	108
M/E 50	16						
M/E 75	47						
M/E 95	100						
M/E 96	7.1						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	78						
M/E 175-1	6.4						
M/E 175-2	8.3						
M/E 176-1	74						
M/E 176-2	95						
M/E 177-1	4.8						
M/E 177-2	6.5						
INTERNAL STD AREA(BCM)				2670000	2510000	2180000	2250000
INTERNAL STD AREA(CBZ)				1E+07	1E+07	7370000	7650000
INTERNAL STD AREA(DFB)				2E+07	2E+07	1E+07	1E+07
DILUTION FACTOR					1	1.04	1.12
PERCENT MOISTURE						4	10.7
ACTUAL(ALLOWED) HOLD TIME						23(14 D)	23(14 D)
AREA							
LOCATION	GSA AREA	GSA AREA	BLDG. 321	BLDG. 321	BLDG. 321	BLDG. 321	BLDG. 321
TYPE OF LOCATION	GSA AREA	GSA AREA	DRUMRACKS	DRUMRACKS	DRUMRACKS	DRUMRACKS	DRUMRACKS
SAMPLE NUMBER	LL031150A	LL031161A	LL028019A	LL028020A	LL028031A	LL028042A	LL028042A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	6	6	6	6	6	6	6
ACETONE	6 JB	4 JB	24 B	11 JB	22 B	17 B	
BENZENE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
BROMODICHLOROMETHANE	2 J	2 J	6 U	6 U	6 U	6 U	6 U

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## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	GSA AREA GSA AREA LL031150A	GSA AREA GSA AREA LL031161A	BLDG. 321 DRUMRACKS SOIL UG/KG 6				
BROMOFLUOROBENZENE							
BROMOFORM	6 U	6 U	6 U	6 U	6 U	6 U	6 U
BROMOMETHANE	11 U	11 U	12 U	11 U	12 U	12 U	12 U
CARBON DISULFIDE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
CARBON TETRACHLORIDE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
CHLOROBENZENE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
CHLOROETHANE	11 U	11 U	12 U	11 U	12 U	12 U	12 U
CHLOROFORM	12 B	12 B	10 B	10 B	12 B	12 B	12 B
CHLOROMETHANE	11 U	11 U	12 U	11 U	12 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
DIBROMOCHLOROMETHANE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
ETHYL BENZENE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
METHYLENE CHLORIDE	6 B	3 JB	2 JB	4 JB	2 JB	2 JB	2 JB
STYRENE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
TETRACHLOROETHENE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
TOLUENE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
TRICHLOROETHENE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
VINYL ACETATE	11 U	11 U	12 U	11 U	12 U	12 U	12 U
VINYL CHLORIDE	11 U	11 U	12 U	11 U	12 U	12 U	12 U
XYLENE (TOTAL)	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1-DICHLOROETHANE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1-DICHLOROETHENE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1,1-TRICHLOROETHANE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1,2-TRICHLOROETHANE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,1,2,2-TETRACHLOROETHANE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,2-DICHLOROETHANE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,2-DICHLOROETHANE-D4	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,2-DICHLOROETHENE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
1,2-DICHLOROPROPANE	6 U	6 U	6 U	6 U	6 U	6 U	6 U
2-BUTANONE	11 U	11 U	12 U	11 U	12 U	12 U	12 U
2-HEXANONE	11 U	11 U	12 U	11 U	12 U	12 U	12 U
4-METHYL-2-PENTANONE	11 U	11 U	12 U	11 U	12 U	12 U	12 U
SURR 1(TOL) %RECOVERY	115	118 *	116	112	106	110	
SURR 2(BFB) %RECOVERY	83	82	78	87	80	92	
SURR 3(DCE) %RECOVERY	103	106	107	104	102	109	

TABLE D.7.33 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0902

## AREA

LOCATION	GSA AREA	GSA AREA	BLDG. 321	BLDG. 321	BLDG. 321	BLDG. 321
TYPE OF LOCATION	GSA AREA	GSA AREA	DRUMRACKS	DRUMRACKS	DRUMRACKS	DRUMRACKS
SAMPLE NUMBER	LL031150A	LL031161A	LL028019A	LL028020A	LL028031A	LL028042A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	6	6	6	6	6	6
M/E 75						
M/E 95						
M/E 96						
M/E 173-1						
M/E 173-2						
M/E 174						
M/E 175-1						
M/E 175-2						
M/E 176-1						
M/E 176-2						
M/E 177-1						
M/E 177-2						
INTERNAL STD AREA(BCM)	2380000	2290000	1710000	2190000	2120000	1410000
INTERNAL STD AREA(CBZ)	8630000	8190000	5020000	7430000	8040000	5780000
INTERNAL STD AREA(DFB)	1E+07	1E+07	8450000	1E+07	1E+07	7530000
DILUTION FACTOR	1.12	1.12	1.25	1.12	1.24	1.19
PERCENT MOISTURE	11.1	10.6	19.8	11	19.2	15.8
ACTUAL(ALLOWED) HOLD TIME	23(14 D)	23(14 D)	21(14 D)	21(14 D)	21(14 D)	21(14 D)

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TABLE D.7.34 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0903

AREA	QA	QA	QA	QA	QA	ISTD	RET	TIM	METHOD	SANDIA CROSS	SANDIA CROSS
LOCATION	TUNED	CONTINUING	CONTINUING	SHIFT	BLANK	INACTIVE	SIT	INACTIVE	SIT	SOIL	SOIL
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	LL0903878	VBK0903	SN010010A	SN010021A			UG/KG	UG/KG
SAMPLE NUMBER	LL0903875	LL0903877	LL0903877	WATER	WATER	WATER	WATER			4	4
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER			SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L					UG/KG	UG/KG
ENV PROBLEM NO											
ACETONE		0.622	24		13		22	B		32	B
BENZENE		0.968	1.6		5 U		1	J		5	U
BROMODICHLOROMETHANE		0.535	4.3		5 U		5	U		5	U
BROMOFLUOROBENZENE		0.678	0.6		5 U		5	U		5	U
BROMOFORM		0.326	0.3		5 U		10	U		5	U
BROMOMETHANE		0.589	18.6		5 U		10	U		10	U
CARBON DISULFIDE		3.822	7.5		5 U		5	U		5	U
CARBON TETRACHLORIDE		0.466	4.4		5 U		5	U		5	U
CHLOROBENZENE		1.115	12.5		5 U		10	U		10	U
CHLOROETHANE		0.344	20.1		5 U		10	U		10	U
CHLOROFORM		3.339	18.5		5 U		5	U		10	U
CHLOROMETHANE		0.68	18.8		10		10	U		10	U
CIS-1,3-DICHLOROPROPENE		0.344	3.4		5 U		5	U		10	U
DIBROMOCHLOROMETHANE		0.445	9.6		5 U		5	U		5	U
ETHYL BENZENE		0.611	12.8		1 J		5	U		22	JB
METHYLENE CHLORIDE		1.711	5.2		12 J		9	B		22	JB
STYRENE		1.237	13.9		5 U		5	U		5	U
TETRACHLOROETHENE		0.453	8.9		5 U		5	U		5	U
TOLUENE		0.93	13.8		0.8 J		3	JB		2	JB
TOLUENE-D8		1.198	5								
TRANS-1,3-DICHLOROPROPENE		0.656	2.3		5 U		5	U		5	U
TRICHLOROETHENE		0.382	3.7		5 U		5	U		5	U
VINYL ACETATE		0.408	52.7		10		10	U		10	U
VINYL CHLORIDE		0.514	0.3		10		10	U		10	U
XYLENE (TOTAL)		0.73	15.4		5 U		5	U		5	U
1,1-DICHLOROETHANE		2.549	7.8		5 U		5	U		5	U
1,1-DICHLOROETHENE		1.406	16.8		5 U		5	U		5	U
1,1,1-TRICHLOROETHANE		0.496	6.8		5 U		5	U		5	U
1,1,2-TRICHLOROETHANE		0.305	9.7		5 U		5	U		5	U
1,1,2,2-TETRACHLOROETHANE		0.596	5		5 U		5	U		5	U
1,2-DICHLOROETHANE		2.45	7.5		5 U		5	U		5	U
1,2-DICHLOROETHANE-D4		1.979	3.1		5 U		10	U		10	U
1,2-DICHLOROETHENE		1.621	17.9		5 U		5	U		5	U
1,2-DICHLOROPROPANE		0.278	5.1		5 U		5	U		5	U
2-BUTANONE		0.03	2		10		10	U		10	U
2-HEXANONE		0.235	11.6		10		10	U		10	U
4-METHYL-2-PENTANONE		0.319	9.9		10		10	U		10	U
SURR 1(TOL) %RECOVERY					109		113			114	

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TABLE D.7.34 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0903

AREA	QA	QA	QA	QA	QA	SANDIA CROSS	SANDIA CROSS
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	METHOD	INACTIVE SIT
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		INACTIVE SIT
SAMPLE NUMBER	LL0903875	LL0903877	LL0903877	LL0903878	VBK0903		SN010010A
MATRIX	WATER	WATER	WATER	WATER	WATER		SOIL
UNITS	%	RRF	%	AREA	UG/L		UG/KG
ENV PROBLEM NO						4	4
SURR 2(BFB) %RECOVERY					107	92	92
SURR 3(DCE) %RECOVERY					114	108	101
M/E 50	15						
M/E 75	47						
M/E 95	100						
M/E 96	7.4						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	78						
M/E 175-1	6.4						
M/E 175-2	8.2						
M/E 176-1	75						
M/E 176-2	96						
M/E 177-1	4.8						
M/E 177-2	6.3						
INTERNAL STD AREA(BCM)				2570000	2450000	2090000	2230000
INTERNAL STD AREA(CBZ)				1E+07	1E+07	8990000	9120000
INTERNAL STD AREA(DFB)				2E+07	1E+07	1E+07	1E+07
DILUTION FACTOR					1	1.04	1.03
PERCENT MOISTURE						3.9	3.3
ACTUAL(ALLOWED) HOLD TIME						22(14 D)	22(14 D)
AREA							
LOCATION	SANDIA CROSS	SANDIA CROSS	SANDIA CROSS	DRUM RACK	DRUM RACK	DRUM RACK	
TYPE OF LOCATION	INACTIVE SIT	INACTIVE SIT	INACTIVE SIT	SUMP	SUMP	SUMP	
SAMPLE NUMBER	SN010032A	SN010043A	SN010054A	LL032015A	LL032026A	LL032037A	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ENV PROBLEM NO	4	4	4	6	6	6	
ACETONE	43 B	99 B	77 B	13 JB	9 JB	7 JB	
BENZENE	1 J	8	8	7 U	6 U	6 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	7 U	6 U	6 U	

TABLE D.7.34 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0903

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	SANDIA CROSS INACTIVE SIT SN010032A	SANDIA CROSS INACTIVE SIT SN010043A	SANDIA CROSS INACTIVE SIT SN010054A	DRUM RACK SUMP LL032015A	DRUM RACK SUMP LL032026A	DRUM RACK SUMP LL032037A
	UG/KG 4	UG/KG 4	UG/KG 4	UG/KG 6	UG/KG 6	UG/KG 6
BROMOFLUOROBENZENE						
BROMOFORM	5 U	5 U	5 U	7 U	6 U	6 U
BROMOMETHANE	10 U	10 U	10 U	13 U	15 U	12 U
CARBON DISULFIDE	5 U	5 U	5 U	7 U	6 U	6 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	7 U	6 U	6 U
CHLOROBENZENE	5 U	5 U	5 U	7 U	7 U	12 U
CHLOROETHANE	10 U	10 U	10 U	13 U	13 U	12 U
CHLOROFORM	5 U	6 U	6 U	7 U	6 U	6 U
CHLOROMETHANE	10 U	10 U	10 U	13 U	13 U	12 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	7 U	6 U	6 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	7 U	6 U	6 U
ETHYL BENZENE	5 U	5 U	5 U	7 U	6 U	6 U
METHYLENE CHLORIDE	11 B	99 B	84 B	7 JB	6 B	6 B
STYRENE	5 U	5 U	5 U	7 U	7 U	6 U
TETRACHLOROETHENE	5 U	5 U	5 U	7 U	7 U	6 U
TOLUENE	3 JB	19 B	15 B	7	6	6
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	7 U	6 U	6 U
TRICHLOROETHENE	5 U	5 U	5 U	7 U	7 U	12 U
VINYL ACETATE	10 U	10 U	10 U	13 U	13 U	12 U
VINYL CHLORIDE	10 U	10 U	10 U	13 U	13 U	12 U
XYLENE (TOTAL)	5 U	5 U	5 U	7 U	6 U	6 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	7 U	6 U	6 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	7 U	6 U	6 U
1,1,1-TRICHLOROETHANE	2 J	13	14	7 U	6 U	6 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	7 U	6 U	6 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	7 U	6 U	6 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	7 U	6 U	6 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	5 U	5 U	5 U	7 U	6 U	6 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	7 U	6 U	6 U
2-BUTANONE	10 U	41	35	13 U	13 U	12 U
2-HEXANONE	10 U	10 U	10 U	13 U	13 U	12 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	13 U	13 U	12 U
SURR 1(TOL) %RECOVERY	110	119 *	116	103	111	98
SURR 2(BFB) %RECOVERY	86	84	85	92	99	102
SURR 3(DCE) %RECOVERY	109	101	98	98	104	103

M/E 50

TABLE D.7.34 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG. NUMBER: 0903

## AREA

LOCATION	SANDIA CROSS	SANDIA CROSS	SANDIA CROSS	DRUM RACK	DRUM RACK	DRUM RACK
TYPE OF LOCATION	INACTIVE SIT	INACTIVE SIT	INACTIVE SIT	SUMP	SUMP	SUMP
SAMPLE NUMBER	SN010032A	SN010043A	SN010054A	LL032015A	LL032026A	LL032037A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	4	4	4	6	6	6
M/E 75						
M/E 95						
M/E 96						
M/E 173-1						
M/E 173-2						
M/E 174						
M/E 175-1						
M/E 175-2						
M/E 176-1						
M/E 176-2						
M/E 177-1						
M/E 177-2						
INTERNAL STD AREA(BCM)	2240000	2010000	2220000	2130000	2160000	2160000
INTERNAL STD AREA(CBZ)	1E+07	7060000	8160000	9620000	9380000	9020000
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR	1.03	1.03	1.03	1.32	1.25	1.23
PERCENT MOISTURE	3	3	3	24.2	20	18.6
ACTUAL(ALLOWED) HOLD TIME	22(14 D)	22(14 D)	22(14 D)	24(14 D)	24(14 D)	24(14 D)

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TABLE D.7.35 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0904

AREA	QA	QA	QA	QA	QA	DRUM RACK	DRUM RACK
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	METHOD	SUMP	SUMP
TYPE OF LOCATION	CALIBRATION	CAL %D	CAL %D	RET AREA	BLANK	SOIL	SOIL
SAMPLE NUMBER	LL0904875	LL0904877	WATER	WATER	WATER	UG/L	UG/KG
MATRIX			%				
UNITS		RRF					
ENV PROBLEM NO						6	6
ACETONE		0.673	34.2			52 B	120 B
BENZENE		0.934	1.9			3 J	15
BROMODICHLOROMETHANE		0.487	5.1			5 U	5 U
BROMOFLUOROBENZENE		0.709	5.2				
BROMOFORM		0.337	3.6			5 U	5 U
BROMOMETHANE		0.51	2.7			10 U	11 U
CARBON DISULFIDE		3.522	1			5 U	5 U
CARBON TETRACHLORIDE		0.429	4			5 U	5 U
CHLOROBENZENE		1.017	2.6			5 U	5 U
CHLOROETHANE		0.257	10.1			10 U	11 U
CHLOROFORM		3.075	9.2			5 U	5 U
CHLOROMETHANE		0.539	35.6			10 U	11 U
CIS-1,3-DICHLOROPROPENE		0.344	3.3			5 U	5 U
DIBROMOCHLOROMETHANE		0.433	6.6			5 U	5 U
ETHYL BENZENE		0.534	1.4			2 U	4 JB
METHYLENE CHLORIDE		1.619	10.3			5 U	220 BE
STYRENE		1.101	1.3			5 U	5 U
TETRACHLOROETHENE		0.408	2			5 U	5 U
TOLUENE		0.797	2.5			5 U	33
TOLUENE-D8		1.251	0.8				
TRANS-1,3-DICHLOROPROPENE		0.634	5.7			5 U	5 U
TRICHLOROETHENE		0.364	1.3			5 U	5 U
VINYL ACETATE		0.356	33.4			10 U	11 U
VINYL CHLORIDE		0.454	11.9			10 U	11 U
XYLENE (TOTAL)		0.654	3.4			5 U	5 U
1,1-DICHLOROETHANE		2.424	2.6			5 U	5 U
1,1-DICHLOROETHENE		1.245	3.5			5 U	5 U
1,1,1-TRICHLOROETHANE		0.452	2.6			5 U	5 U
1,1,2-TRICHLOROETHANE		0.301	8.4			5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.562	1.1			5 U	5 U
1,2-DICHLOROETHANE		2.358	3.5			5 U	5 U
1,2-DICHLOROETHANE-D4		2.122	3.9			5 U	5 U
1,2-DICHLOROETHENE		1.468	6.8			5 U	5 U
1,2-DICHLOROPROPANE		0.268	8.5			5 U	5 U
2-BUTANONE		0.031	2.3			10 U	40
2-HEXANONE		0.228	14.1			10 U	11 U
4-METHYL-2-PENTANONE		0.296	16.4			10 U	25
SURR 1(TOL) %RECOVERY						96	99
							119 X

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TABLE D.7.35 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0904

AREA	QA	QA	QA	QA	QA	DRUM RACK	DRUM RACK	
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIME	METHOD	DRUM RACK
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT		BLANK	SUMP	SUMP
SAMPLE NUMBER	LL0904875	LL0904877	LL0904877	LL0904878		VBK0904	LL032071A	LL032082A
MATRIX	WATER	WATER	WATER	WATER		WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA		UG/L	UG/KG	UG/KG
ENV PROBLEM NO						6	6	6
SURR 2(BFB) %RECOVERY						100	82	78
SURR 3(DCE) %RECOVERY						101	92	100
M/E 50		16						
M/E 75		51						
M/E 95		100						
M/E 96		6.7						
M/E 173-1		0						
M/E 173-2		0						
M/E 174		81						
M/E 175-1		6.7						
M/E 175-2		8.3						
M/E 176-1		78						
M/E 176-2		96						
M/E 177-1		4.4						
M/E 177-2		5.6						
INTERNAL STD AREA(BCM)				2150000	2250000	1580000	1580000	
INTERNAL STD AREA(CBZ)				1E+07	1E+07	6110000	5590000	
INTERNAL STD AREA(DFB)				1E+07	1E+07	8570000	9150000	
DILUTION FACTOR						1	1.06	1.08
PERCENT MOISTURE							6	7.8
ACTUAL(ALLOWED) HOLD TIME						25(14 D)	25(14 D)	

## AREA

LOCATION	DRUM RACK	DRUM RACK	DRUM RACK
TYPE OF LOCATION	SUMP	SUMP	SUMP
SAMPLE NUMBER	LL032093A	LL032106A	LL032117A
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	6	6	6
ACETONE	76 B	180 B	340 BE
BENZENE	2 J	3 J	10
BROMODICHLOROMETHANE	5 U	6 U	5 U

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TABLE D.7.35 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0904

AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	DRUM RACK SUMP LL032093A SOIL UG/KG 6	DRUM RACK SUMP LL032106A SOIL UG/KG 6	DRUM RACK SUMP LL032117A SOIL UG/KG 6
BROMOFLUOROBENZENE			
BROMOFORM	5 U	6 U	5 U
BROMOMETHANE	11 U	11 U	11 U
CARBON DISULFIDE	5 U	6 U	3 U
CARBON TETRACHLORIDE	5 U	6 U	5 U
CHLOROBENZENE	5 U	6 U	5 U
CHLOROETHANE	11 U	11 U	11 U
CHLOROFORM	5 U	3 U	8 U
CHLOROMETHANE	11 U	11 U	11 U
CIS-1,3-DICHLOROPROPENE	5 U	6 U	5 U
DIBROMOCHLOROMETHANE	5 U	6 U	5 U
ETHYL BENZENE	5 U	6 U	5 U
METHYLENE CHLORIDE	41 B	59 B	200 B
STYRENE	5 U	6 U	5 U
TETRACHLOROETHENE	5 U	6 U	5 U
TOLUENE	4 J	7	24
TOLUENE-D8			
TRANS-1,3-DICHLOROPROPENE	5 U	6 U	5 U
TRICHLOROETHENE	5 U	6 U	5 U
VINYL ACETATE	11 U	11 U	11 U
VINYL CHLORIDE	11 U	11 U	11 U
XYLENE (TOTAL)	5 U	6 U	5 U
1,1-DICHLOROETHANE	5 U	6 U	5 U
1,1-DICHLOROETHENE	5 U	6 U	5 U
1,1,1-TRICHLOROETHANE	3 J	5 J	10 U
1,1,2-TRICHLOROETHANE	5 U	6 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	6 U	5 U
1,2-DICHLOROETHANE	5 U	5 J	9
1,2-DICHLOROETHANE-D4			
1,2-DICHLOROETHENE	5 U	6 U	5 U
1,2-DICHLOROPROPANE	5 U	6 U	5 U
2-BUTANONE	11 U	360 E	760 E
2-HEXANONE	11 U	11 U	11 U
4-METHYL-2-PENTANONE	22	7 J	16
SURR 1(TOL) %RECOVERY	120 *	113	134 *
SURR 2(BFB) %RECOVERY	79	79	72 *
SURR 3(CDCE) %RECOVERY	110	96	108

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M/E 50

TABLE D.7.35 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0904

AREA

LOCATION  
 TYPE OF LOCATION  
 SAMPLE NUMBER  
 MATRIX  
 UNITS  
ENV PROBLEM NO

DRUM RACK	DRUM RACK	DRUM RACK
SUMP	SUMP	SUMP
LL032093A	LL032106A	LL032117A
SOIL	SOIL	SOIL
UG/KG	UG/KG	UG/KG
6	6	6

M/E 75  
 M/E 95  
 M/E 96  
 M/E 173-1  
 M/E 173-2  
 M/E 174  
 M/E 175-1  
 M/E 175-2  
 M/E 176-1  
 M/E 176-2  
 M/E 177-1  
 M/E 177-2

INTERNAL STD AREA(BCM)	1570000	1790000	1360000
INTERNAL STD AREA(CBZ)	5760000	7450000	4510000
INTERNAL STD AREA(DFB)	9180000	1E+07	8100000

DILUTION FACTOR	1.06	1.11	1.08
PERCENT MOISTURE	5.9	10.3	7.8
ACTUAL(ALLOWED) HOLD TIME	25(14 D)	25(14 D)	25(14 D)

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TABLE D.7.36 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0909

AREA	QA	QA	QA	QA	QA	ISTD	RET	TIM	METHOD	BURN PITS	BURN PITS
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL XD	SHIFT	BLANK	PITS	PITS				
TYPE OF LOCATION	SAMPLE NUMBER	RRF	%	CAL 0909877	WATER	LL034108A	LL034119A				
MATRIX	WATER			WATER	WATER	SOIL	SOIL				
UNITS	%			%	UG/L	UG/KG	UG/KG				
ENV PROBLEM NO						7	7				
ACETONE		0.673	34.2			12			120 B	150 B	
BENZENE		1.005	5.6			5 U			7	5	
BROMODICHLOROMETHANE		0.556	8.5			5 U			5 U	5 U	
BROMOFLUOROBENZENE		0.667	1			5 U			5 U	5 U	
BROMOFORM		0.331	1.8			5 U			5 U	5 U	
BROMOMETHANE		0.394	20.6			10 U			11 U	11 U	
CARBON DISULFIDE		3.257	8.4			5 U			5 U	5 U	
CARBON TETRACHLORIDE		0.494	10.7			5 U			5 U	5 U	
CHLOROBENZENE		1.141	15.2			5 U			7	5 U	
CHLOROETHANE		0.215	24.8			10 U			11 U	11 U	
CHLOROFORM		3.143	11.6			5 U			5 U	5 U	
CHLOROMETHANE		0.415	50.4			10 U			11 U	11 U	
CIS-1,3-DICHLOROPROPENE		0.381	14.4			5 U			5 U	5 U	
DIBROMOCHLOROMETHANE		0.457	12.5			5 U			5 U	5 U	
ETHYLBENZENE		0.622	15			25 U			5 U	5 U	
METHYLENE CHLORIDE		1.613	10.7			5 U			16 U	29	
STYRENE		1.227	13			5 U			5 U	5 U	
TETRACHLOROETHENE		0.431	3.7			5 U			5 U	5 U	
TOLUENE		0.882	7.8			5 U			10	5 U	
TOLUENE-D8		1.255	0.4			5 U			5 U	5 U	
TRANS-1,3-DICHLOROPROPENE		0.738	9.9			5 U			5 U	5 U	
TRICHLOROETHENE		0.394	6.8			5 U			25	10	
VINYL ACETATE		0.432	61.6			10 U			4 J	11 U	
VINYL CHLORIDE		0.34	34			10 U			11 U	11 U	
XYLENE (TOTAL)		0.757	19.8			5 U			5 U	5 U	
1,1-DICHLOROETHANE		2.531	7.1			5 U			5 U	5 U	
1,1-DICHLOROETHENE		1.216	1			5 U			5 U	5 U	
1,1,1-TRICHLOROETHANE		0.513	10.5			5 U			2 J	4 J	
1,1,2-TRICHLOROETHANE		0.314	12.8			5 U			5 U	5 U	
1,1,2,2-TETRACHLOROETHANE		0.624	9.9			5 U			5 U	5 U	
1,2-DICHLOROETHANE		2.442	7.2			5 U			5 U	5 U	
1,2-DICHLOROETHANE-D4		1.955	4.2			5 U			11 U	35	
1,2-DICHLOROETHENE		1.431	4.1			5 U			11 U	11 U	
1,2-DICHLOROPROPANE		0.306	4.6			5 U			5 U	5 U	
2-BUTANONE		0.035	17.2			10 U			7 J	11 U	
2-HEXANONE		0.264	1			10 U			11 U	11 U	
4-METHYL-2-PENTANONE		0.342	3.4			10 U			7	11 U	
SURR (TOL) %RECOVERY						105			128 *	129 *	

TABLE D.7.36 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0909

AREA	QA	QA	QA	QA	QA	BURN PIT	BURN PIT
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIM	METHOD
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	PITS	PITS
SAMPLE NUMBER	LL0909875	LL0909877	LL0909877	LL0909878	VBK0909	LL034108A	LL034119A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						7	7
SURR 2(BFB) %RECOVERY					105	82	87
SURR 3(DCE) %RECOVERY					110	105	103
M/E 50		18					
M/E 75		54					
M/E 95		100					
M/E 96		8.6					
M/E 173-1		0					
M/E 173-2		0					
M/E 174		81					
M/E 175-1		7.1					
M/E 175-2		8.8					
M/E 176-1		79					
M/E 176-2		97					
M/E 177-1		5.2					
M/E 177-2		6.6					
INTERNAL STD AREA(BCM)			2490000	2380000	2140000	1850000	
INTERNAL STD AREA(CBZ)			1E+07	1E+07	5880000	5230000	
INTERNAL STD AREA(DBF)			1E+07	1E+07	1E+07	8690000	
DILUTION FACTOR					1	1.07	1.05
PERCENT MOISTURE						6.9	5
ACTUAL(ALLOWED) HOLD TIME						30(14 D)	30(14 D)
AREA							
LOCATION	BURN PIT	EXP BURN PIT	EXP BURN PIT	EXP BURN PIT	OLD PAINT ST	OLD PAINT ST	
TYPE OF LOCATION	PITS	INACTIVE SIT					
SAMPLE NUMBER	LL034120A	SN008016A	SN008027A	SN008038A	SN011011A	SN011022A	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ENV PROBLEM NO	7	4	4	4	4	4	
ACETONE	72 B	29 B	18 B	24 B	26 B	22 B	
BENZENE	5 U	1 J	2 J	6 U	2 J	6 U	
BROMODICHLOROMETHANE	5 U	6 U	6 U	6 U	6 U	6 U	

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TABLE D.7.36 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0909

AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BURN PIT PITS LL034120A SOIL UG/KG 7	EXP BURN PIT INACTIVE SIT SN008016A SOIL UG/KG 4	BURN PIT INACTIVE SIT SN008027A SOIL UG/KG 4	EXP BURN PIT INACTIVE SIT SN008038A SOIL UG/KG 4	OLD PAINT ST INACTIVE SIT SN011011A SOIL UG/KG 4	OLD PAINT ST INACTIVE SIT SN011022A SOIL UG/KG 4
BROMOFLUOROBENZENE						
BROMOFORM	5 U	6 U	6 U	6 U	6 U	6 U
BROMOMETHANE	11 U	12 U	11 U	12 U	12 U	11 U
CARBON DISULFIDE	5 U	6 U	6 U	6 U	6 U	6 U
CARBON TETRACHLORIDE	5 U	6 U	6 U	6 U	6 U	6 U
CHLOROBENZENE	5 U	6 U	6 U	6 U	6 U	6 U
CHLOROETHANE	11 U	12 U	11 U	12 U	12 U	11 U
CHLOROFORM	5 U	6 U	6 U	6 U	6 U	6 U
CHLOROMETHANE	11 U	12 U	11 U	12 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	15 U	6 U	6 U	6 U	6 U	6 U
DBROMOCHLOROMETHANE						
ETHYLBENZENE						
METHYLENE CHLORIDE						
STYRENE						
TETRACHLOROETHENE						
TOLUENE						
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE						
TRICHLOROETHENE						
VINYL ACETATE						
VINYL CHLORIDE						
XYLENE (TOTAL)						
1,1-DICHLOROETHANE						
1,1-DICHLOROETHENE						
1,1,1-TRICHLOROETHANE						
1,1,2-TRICHLOROETHANE						
1,1,2,2-TETRACHLOROETHANE						
1,2-DICHLOROETHANE						
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	5 U	6 U	6 U	6 U	6 U	6 U
1,2-DICHLOROPROpane	5 U	6 U	6 U	6 U	6 U	6 U
2-BUTANONE	11 U	12 U	11 U	12 U	12 U	11 U
2-HEXANONE	11 U	12 U	11 U	12 U	12 U	11 U
4-METHYL-2-PENTANONE	11 U	12 U	11 U	12 U	12 U	11 U
SURR 1(TOL) %RECOVERY	130 *	115	125 *	112	119 *	114
SURR 2(BFB) %RECOVERY	92	94	77	100	70 *	90
SURR 3(DCE) %RECOVERY	109	106	107	111	108	107

M/E 50

TABLE D.7.36 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0909

## AREA

LOCATION	BURN PIT	EXP BURN PIT	BURN PIT	EXP BURN PIT	OLD PAINT ST	OLD PAINT ST
TYPE OF LOCATION	PITS	INACTIVE SIT				
SAMPLE NUMBER	LL034120A	SN008016A	SN008027A	SN008038A	SN011011A	SN011022A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	7	4	4	4	4	4

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

INTERNAL STD AREA(BCM)	1910000	1680000	2070000	1840000	1790000	2050000
INTERNAL STD AREA(CBZ)	5090000	6570000	6950000	7570000	5440000	7440000
INTERNAL STD AREA(DFB)	8880000	8800000	1E+07	9840000	8560000	1E+07

DILUTION FACTOR	1.07	1.15	1.15	1.16	1.17	1.12
PERCENT MOISTURE	6.8	13.1	12.7	13.7	14.7	11.1
ACTUAL(ALLOWED) HOLD TIME	30(14 D)	27(14 D)				

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TABLE D.7.37 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0910

AREA	QA	QA	QA	QA	QA	QA	OLD PAINT ST 4	ARROYO SECO 1
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD RET SHIFT TIM	METHOD BLANK	INACTIVE SIT	ARROYOS	
TYPE OF LOCATION	LL0910875	LL0910877	LL0910877	LL0910878	VBK0910	SN011033A	SN004012A	
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL	
MATRIX	%	RRF	%	AREA	UG/L	UG/KG	UG/KG	
ACETONE	0.702	40.1		12		13 B	10 JB	
BENZENE	0.875	8.1		5 U		6 U	6 U	
BROMODICHLOROMETHANE	0.48	6.4		5 U		6 U	6 U	
BROMOFLUOROBENZENE	0.688	2.1						
BROMOFORM	0.324	0.4		5 U		6 U	6 U	
BROMOMETHANE	0.387	22.1		10 U		11 U	12 U	
CARBON DISULFIDE	3.144	11.6		5 U		6 U	6 U	
CARBON TETRACHLORIDE	0.413	7.5		5 U		6 U	6 U	
CHLOROBENZENE	1.106	11.6		10 U		11 U	12 U	
CHLOROETHANE	0.225	21.3		5 U		6 U	6 U	
CHLOROFORM	3.202	13.6		5 U		6 U	6 U	
CHLOROMETHANE	0.352	57.9		10 U		11 U	12 U	
CIS-1,3-DICHLOROPROPENE	0.337	1.3		5 U		6 U	6 U	
DIBROMOCHLOROMETHANE	0.408	0.6		5 U		6 U	6 U	
ETHYL BENZENE	0.585	8.1		2 U		3 JB	6 B	
METHYLENE CHLORIDE	1.614	10.6		3 U		6 U	6 U	
STYRENE	1.186	9.2		5 U		6 U	6 U	
TETRACHLOROETHENE	0.431	3.6		5 U		6 U	6 U	
TOLUENE	0.86	5.2		1 U		6 U	6 U	
TOLUENE-D8	1.274	1.1						
TRANS-1,3-DICHLOROPROPENE	0.586	12.8		5 U		6 U	6 U	
TRICHLOROETHENE	0.335	9.1		5 U		6 U	12 U	
VINYL ACETATE	0.343	28.4		10 U		11 U	12 U	
VINYL CHLORIDE	0.314	39.1		10 U		11 U	12 U	
XYLENE (TOTAL)	0.714	12.9		5 U		6 U	6 U	
1,1-DICHLOROETHANE	2.473	4.6		5 U		6 U	6 U	
1,1-DICHLOROETHENE	1.194	0.8		5 U		6 U	6 U	
1,1,1-TRICHLOROETHANE	0.434	6.4		5 U		6 U	6 U	
1,1,2-TRICHLOROETHANE	0.297	6.9		5 U		6 U	6 U	
1,1,2,2-TETRACHLOROETHANE	0.639	12.6		5 U		6 U	6 U	
1,2-DICHLOROETHANE	2.461	8		5 U		6 U	6 U	
1,2-DICHLOROETHANE-D4	2.122	3.9		5 U		6 U	6 U	
1,2-DICHLOROETHENE	1.465	6.6		5 U		6 U	6 U	
1,2-DICHLOROPROPANE	0.252	13.8		5 U		6 U	12 U	
2-BUTANONE	0.031	4.2		10 U		11 U	12 U	
2-HEXANONE	0.271	1.8		10 U		11 U	12 U	
4-METHYL-2-PENTANONE	0.362	2.4		10 U		11 U	12 U	
SURR 1(TOL) %RECOVERY				99		106	102	

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TABLE D.7.37 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0910

AREA	QA	QA	QA	QA	QA	OLD PAINT ST	ARROYO SECO
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET TIM	METHOD	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	INACTIVE SIT	ARROYOS
SAMPLE NUMBER	LL0910875	LL0910877	LL0910877	LL0910878	VBK0910	SN011033A	SN004012A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						4	1
SURR 2(BFB) %RECOVERY					96	92	96
SURR 3(DCE) %RECOVERY					101	100	102
M/E 50	19						
M/E 75	50						
M/E 95	100						
M/E 96	6.8						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	80						
M/E 175-1	5.9						
M/E 175-2	7.4						
M/E 176-1	76						
M/E 176-2	95						
M/E 177-1	5.6						
M/E 177-2	7.4						
INTERNAL STD AREA(BCM)			2330000	2330000	2050000	2200000	
INTERNAL STD AREA(CBZ)			1E+07	1E+07	8860000	9860000	
INTERNAL STD AREA(DFB)			1E+07	1E+07	1E+07	1E+07	
DILUTION FACTOR					1	1.13	1.17
PERCENT MOISTURE						11.4	14.7
ACTUAL(ALLOWED) HOLD TIME						28(14 D)	28(14 D)
AREA							
LOCATION	ARROYO SECO	ARROYO SECO	NAVY LANDFIL	NAVY LANDFIL	NAVY LANDFIL	NAVY LANDFIL	
TYPE OF LOCATION	ARROYOS	ARROYOS	INACTIVE SIT	INACTIVE SIT	INACTIVE SIT	INACTIVE SIT	
SAMPLE NUMBER	SN004023A	SN004034A	SN007015A	SN007026A	SN007037A	SN007048A	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ENV PROBLEM NO	1	1	4	4	4	4	
ACETONE	11 B	12 B	16 B	14 B	15 B	48 B	
BENZENE	5 U	5 U	6 U	6 U	6 U	3 J	
BROMODICHLOROMETHANE	5 U	5 U	6 U	6 U	6 U	5 U	

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TABLE D.7.37 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0910

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	ARROYO SECO ARROYS SN004023A SOIL UG/KG 1	ARROYO SECO ARROYS SN004034A SOIL UG/KG 1	NAVY LANDFIL INACTIVE SIT SN007015A SOIL UG/KG 4	NAVY LANDFIL INACTIVE SIT SN007026A SOIL UG/KG 4	NAVY LANDFIL INACTIVE SIT SN007037A SOIL UG/KG 4	NAVY LANDFIL INACTIVE SIT SN007048A SOIL UG/KG 4
BROMOFLUOROBENZENE						
BROMOFORM	5 U	5 U	6 U	6 U	6 U	5 U
BROMOMETHANE	11 U	11 U	12 U	12 U	12 U	10 U
CARBON DISULFIDE	5 U	5 U	6 U	6 U	6 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	6 U	6 U	6 U	5 U
CHLOROBENZENE	5 U	5 U	6 U	6 U	6 U	5 U
CHLOROETHANE	11 U	11 U	12 U	12 U	12 U	10 U
CHLOROFORM	5 U	5 U	6 U	6 U	6 U	5 U
CHLOROMETHANE	11 U	11 U	12 U	12 U	12 U	10 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	6 U	6 U	6 U	5 U
DIBROMOCHLOROMETHANE	5 U	5 U	6 U	6 U	6 U	5 U
ETHYLBENZENE	5 U	5 U	6 U	6 U	6 U	5 U
METHYLENE CHLORIDE	7 B	5 B	16 B	12 B	12 B	18 B
STYRENE	5 U	5 U	6 U	6 U	6 U	5 U
TETRACHLOROETHENE	5 U	5 U	6 U	6 U	6 U	5 U
TOLUENE	5 U	5 U	5 JB	2 JB	4 JB	10 B
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	6 U	6 U	6 U	5 U
TRICHLOROETHENE	5 U	5 U	6 U	6 U	6 U	5 U
VINYL ACETATE	11 U	11 U	12 U	12 U	12 U	10 U
VINYL CHLORIDE	11 U	11 U	12 U	12 U	12 U	10 U
XYLENE (TOTAL)	5 U	5 U	6 U	6 U	6 U	5 U
1,1-DICHLOROETHANE	5 U	5 U	6 U	6 U	6 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	6 U	6 U	6 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	6 U	6 U	6 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	6 U	6 U	6 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	6 U	6 U	6 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	6 U	6 U	6 U	5 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	5 U	5 U	6 U	6 U	6 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	6 U	6 U	6 U	5 U
2-BUTANONE	11 U	11 U	12 U	12 U	12 U	10 U
2-HEXANONE	11 U	11 U	12 U	12 U	12 U	10 U
4-METHYL-2-PENTANONE	11 U	11 U	12 U	12 U	12 U	17
SURR 1(TOL) %RECOVERY	100	103	111	108	110	110
SURR 2(BFB) %RECOVERY	97	98	77	89	84	84
SURR 3(DCE) %RECOVERY	103	103	96	104	102	102

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TABLE D.7.37 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0910

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## AREA

LOCATION	ARROYO SECO	ARROYO SECO	NAVY LANDFIL	NAVY LANDFIL	NAVY LANDFIL	NAVY LANDFIL
TYPE OF LOCATION	ARROYOS	ARROYOS	INACTIVE SIT	INACTIVE SIT	INACTIVE SIT	INACTIVE SIT
SAMPLE NUMBER	SN004023A	SN004034A	SN007015A	SN007026A	SN007037A	SN007048A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	1	1	4	4	4	4

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

INTERNAL STD AREA(BCM)	2270000	2270000	2030000	2150000	2160000	2180000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	7400000	8210000	8410000	8530000
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR	1.08	1.06	1.19	1.17	1.2	1.03
PERCENT MOISTURE	7	5.5	15.7	14.4	16.8	2.7
ACTUAL(ALLOWED) HOLD TIME	28(14 D)					

TABLE D.7.38 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0911

AREA	QA	QA	QA	QA	QA	ISTD	RET	TIM	METHOD	NAVY LANDFIL	NAVY LANDFIL
LOCATION	TUNED	CONTINUING	CONTINUING	SHIFT	BLANK	INACTIVE SIT	INACTIVE SIT				
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL X'D	LL0911878	VBK0911	SN007059A	SN007060A				
SAMPLE NUMBER	LL0911875	LL0911877	LL0911877	WATER	WATER	SOIL	SOIL				
MATRIX	WATER	WATER	WATER	WATER	WATER	UG/KG	UG/KG				
UNITS	%	RRF	%	AREA	UG/L	4	4				
ENV PROBLEM NO											
ACETONE	0.696	38.8		12	18 B	73 B					
BENZENE	0.943	1		5 U	0.9 J	4 J					
BROMODICHLOROMETHANE	0.496	3.4		5 U	5 U	5 U					
BROMOFLUOROBENZENE	0.668	0.9									
BROMOFORM	0.315	3.3		5 U	5 U	5 U					
BROMOMETHANE	0.416	16.2		10 U	10 U	10 U					
CARBON DISULFIDE	3.159	11.2		5 U	5 U	5 U					
CARBON TETRACHLORIDE	0.412	7.8		5 U	5 U	5 U					
CHLOROBENZENE	1.076	8.5		5 U	5 U	5 U					
CHLOROETHANE	0.224	21.8		10 U	10 U	10 U					
CHLOROFORM	3.178	12.8		5 U	5 U	5 U					
CHLOROMETHANE	0.384	54.1		10 U	10 U	10 U					
CIS-1,3-DICHLOROPROPENE	0.349	4.6		5 U	5 U	5 U					
DIBROMOCHLOROMETHANE	0.418	2.9		5 U	5 U	5 U					
ETHYL BENZENE	0.576	6.5		2 U	2 U	2 U					
METHYLENE CHLORIDE	1.671	7.4		3 U	3 U	3 U					
STYRENE	1.164	7.1		5 U	5 U	5 U					
TETRACHLOROETHENE	0.421	1.2		5 U	5 U	5 U					
TOLUENE	0.84	2.7		1	3 JB	18 B					
TOLUENE-D8	1.219	3.3									
TRANS-1,3-DICHLOROPROPENE	0.647	3.7		5 U	5 U	5 U					
TRICHLOROETHENE	0.376	2.1		5 U	5 U	5 U					
VINYL ACETATE	0.324	21.3		10 U	10 U	10 U					
VINYL CHLORIDE	0.323	37.3		10 U	10 U	10 U					
XYLENE (TOTAL)	0.68	7.6		5 U	5 U	5 U					
1,1-DICHLOROETHANE	2.483	5		5 U	5 U	5 U					
1,1-DICHLOROETHENE	1.178	2.2		5 U	5 U	5 U					
1,1,1-TRICHLOROETHANE	0.442	4.7		5 U	5 U	5 U					
1,1,2-TRICHLOROETHANE	0.304	9.3		5 U	5 U	5 U					
1,1,2,2-TETRACHLOROETHANE	0.594	4.7		5 U	5 U	5 U					
1,2-DICHLOROETHANE	2.422	6.3		5 U	5 U	5 U					
1,2-DICHLOROETHANE-D4	2.06	0.9		10 U	10 U	10 U					
1,2-DICHLOROETHENE	1.478	7.5		5 U	5 U	5 U					
1,2-DICHLOROPROPANE	0.282	3.7		5 U	5 U	5 U					
2-BUTANONE	0.03	0.2		10 U	10 U	10 U					
2-HEXANONE	0.241	9.3		10 U	10 U	10 U					
4-METHYL-2-PENTANONE	0.331	6.5		10 U	10 U	10 U					
SURR 1(TOL) %RECOVERY				106	106	110					

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TABLE D.7.38 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0911

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIM	METHOD
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		
SAMPLE NUMBER	LL0911875	LL0911877	LL0911877	LL0911878	VBK0911		
MATRIX	WATER	WATER	WATER	WATER	WATER		
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						4	4
SURR 2(BFB) %RECOVERY				105	91	90	
SURR 3(DCE) %RECOVERY				103	95	106	
M/E 50		18					
M/E 75		52					
M/E 95		100					
M/E 96		8.2					
M/E 173-1		0					
M/E 173-2		0					
M/E 174		85					
M/E 175-1		7.5					
M/E 175-2		8.8					
M/E 176-1		86					
M/E 176-2		101					
M/E 177-1		5.5					
M/E 177-2		6.4					
INTERNAL STD AREA(BCM)			2400000	2370000	2420000	2350000	
INTERNAL STD AREA(CBZ)			1E+07	1E+07	1E+07	1E+07	
INTERNAL STD AREA(DFB)			2E+07	1E+07	1E+07	1E+07	
DILUTION FACTOR				1	1.03	1.03	
PERCENT MOISTURE					2.7	2.7	
ACTUAL(ALLOWED) HOLD TIME					29(14 D)	29(14 D)	
AREA							
LOCATION	OLD FIRE TRA	OLD FIRE TRA	OLD FIRE TRA	OLD FIRE TRA	BLDG. 169	BLDG. 131	
TYPE OF LOCATION	INACTIVE SIT	INACTIVE SIT	INACTIVE SIT	INACTIVE SIT	SEWERS	SEWERS	
SAMPLE NUMBER	SN009017A	SN009028A	SN009039A	SN009040A	LL012840A	LL012351A	
MATRIX	SOIL	SOIL	SOIL	SOIL	WATER	WATER	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/L	
ENV PROBLEM NO	4	4	4	4	2	2	
ACETONE	26 B	15 B	9 B	18 B	22 B	220 BE	
BENZENE	6 U	5 U	5 U	6 U	5 U	5 U	
BROMODICHLOROMETHANE	6 U	5 U	5 U	6 U	5 U	5 U	

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TABLE D.7.38 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0911

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	OLD FIRE TRA INACTIVE SIT SN009017A	OLD FIRE TRA INACTIVE SIT SN009028A	OLD FIRE TRA INACTIVE SIT SN009039A	OLD FIRE TRA INACTIVE SIT SN009040A	BLDG. 169 SEWERS LL012840A	BLDG. 131 SEWERS LL012351A
	UG/KG 4	UG/KG 4	UG/KG 4	UG/KG 4	UG/L 2	UG/L 2
BROMOFLUOROBENZENE						
BROMOFORM	6 U	5 U	5 U	6 U	5 U	5 U
BROMOMETHANE	11 U	11 U	11 U	12 U	10 U	10 U
CARBON DISULFIDE	6 U	5 U	5 U	6 U	5 U	10 U
CARBON TETRACHLORIDE	6 U	5 U	5 U	6 U	5 U	11 U
CHLOROBENZENE	6 U	5 U	5 U	6 U	5 U	10 U
CHLOROETHANE	11 U	11 U	11 U	12 U	10 U	10 U
CHLOROFORM	6 U	5 U	5 U	6 U	5 U	10 U
CHLOROMETHANE	11 U	11 U	11 U	12 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	6 U	5 U	5 U	6 U	5 U	5 U
DIBROMOCHLOROMETHANE	6 U	5 U	5 U	6 U	5 U	5 U
ETHYLBENZENE	6 U	5 U	5 U	6 U	5 U	5 U
METHYLENE CHLORIDE	5 JB	5 JB	5 JB	5 JB	5 JB	5 JB
STYRENE	6 U	5 U	5 U	6 U	5 U	5 U
TETRACHLOROETHENE	6 U	5 U	5 U	6 U	5 U	5 U
TOLUENE	1 JB	1 JB	1 JB	1 JB	1 JB	2 JB
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	6 U	5 U	5 U	6 U	5 U	5 U
TRICHLOROETHENE	6 U	5 U	5 U	6 U	5 U	5 U
VINYL ACETATE	11 U	11 U	11 U	12 U	10 U	10 U
VINYL CHLORIDE	11 U	11 U	11 U	12 U	10 U	10 U
XYLENE (TOTAL)	6 U	5 U	5 U	6 U	5 U	5 U
1,1-DICHLOROETHANE	6 U	5 U	5 U	6 U	5 U	5 U
1,1-DICHLOROETHENE	6 U	5 U	5 U	6 U	5 U	5 U
1,1,1-TRICHLOROETHANE	6 U	5 U	5 U	6 U	5 U	5 U
1,1,2-TRICHLOROETHANE	6 U	5 U	5 U	6 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	6 U	5 U	5 U	6 U	5 U	5 U
1,2-DICHLOROETHANE	6 U	5 U	5 U	6 U	5 U	5 U
1,2-DICHLOROETHANE-D4	6 U	5 U	5 U	6 U	5 U	5 U
1,2-DICHLOROETHENE	6 U	5 U	5 U	6 U	5 U	5 U
1,2-DICHLOROPROPANE	6 U	5 U	5 U	6 U	5 U	5 U
2-BUTANONE	11 U	11 U	11 U	12 U	10 U	10 U
2-HEXANONE	11 U	11 U	11 U	12 U	10 U	10 U
4-METHYL-2-PENTANONE	11 U	11 U	11 U	12 U	10 U	10 U
SURR 1(TOL) %RECOVERY	104	102	105	102	100	103
SURR 2(BFB) %RECOVERY	103	98	100	103	109	103
SURR 3(DCE) %RECOVERY	107	105	102	106	105	103

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TABLE D.7.38 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0911

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	OLD FIRE TRA INACTIVE SIT SN009017A SOIL UG/KG 4	OLD FIRE TRA INACTIVE SIT SN009028A SOIL UG/KG 4	OLD FIRE TRA INACTIVE SIT SN009039A SOIL UG/KG 4	OLD FIRE TRA INACTIVE SIT SN009040A SOIL UG/KG 4	BLDG. 169 SEWERS LL012840A WATER UG/L 2	BLDG. 131 SEWERS LL012351A WATER UG/L 2
M/E 75						
M/E 95						
M/E 96						
M/E 173-1						
M/E 173-2						
M/E 174						
M/E 175-1						
M/E 175-2						
M/E 176-1						
M/E 176-2						
M/E 177-1						
M/E 177-2						
INTERNAL STD AREA(BCM)	2320000	2300000	2310000	2160000	2290000	2350000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR	1.12	1.1	1.1	1.16	1.1	1
PERCENT MOISTURE	10.7	8.8	8.7	13.6		
ACTUAL(ALLOWED) HOLD TIME	29(14 D)	29(14 D)	29(14 D)	30(14 D)	37(14 D)	37(14 D)

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TABLE D.7.39 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0912

AREA	QA	QA	QA	QA	QA	QA	BLDG. 131	BLDG. 511
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD SHIFT	RET TIM	METHOD	SEWERS	SEWERS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	LL0912878	BLANK	WATER	LL012953A	LL012646A
SAMPLE NUMBER	LL0912875	LL0912877	LL0912877	LL0912878	VBK0912	WATER	WATER	WATER
MATRIX	WATER	WATER	WATER	WATER	WATER	UG/L	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO							2	2
ACETONE		0.706	40.8		13		3 JB	3 JB
BENZENE		1.016	6.7		5 U		5 U	5 U
BROMODICHLOROMETHANE		0.538	5		5 U		5 U	5 U
BROMOFLUOROBENZENE		0.706	4.7		5 U		5 U	5 U
BROMOFORM		0.334	2.5		10 U		10 U	10 U
BROMOMETHANE		0.476	4.2		5 UU		5 UU	5 UU
CARBON DISULFIDE		3.121	12.2		5 UU		5 UU	5 UU
CARBON TETRACHLORIDE		0.457	2.3		5 UU		5 UU	5 UU
CHLOROBENZENE		1.121	13.1		5 UU		5 UU	5 UU
CHLOROETHANE		0.278	2.8		10 UU		10 U	10 U
CHLOROFORM		3.417	21.3		5 UU		15 U	21 U
CHLOROMETHANE		0.338	59.6		10 UU		10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.372	11.7		5 UU		5 UU	5 UU
DI BROMOCHLOROMETHANE		0.449	10.7		5 UU		5 UU	5 UU
ETHYL BENZENE		0.609	12.6		11 UU		5 UU	5 UU
METHYLENE CHLORIDE		1.663	7.9		15 UU		3 JU	5 UU
STYRENE		1.24	14.1		5 UU		5 UU	5 UU
TETRA CHLOROETHENE		0.446	7.1		5 UU		5 UU	5 UU
TOLUENE		0.909	11.2		5 U		1 J	5 U
TOLUENE-D8		1.277	1.2					
TRANS-1,3-DICHLOROPROPENE		0.681	1.4		5 U		5 U	5 U
TRICHLOROETHENE		0.377	2.2		5 U		5 U	5 UU
VINYL ACETATE		0.336	25.7		10 UU		10 UU	10 UU
VINYL CHLORIDE		0.336	34.8		10 UU		10 UU	10 UU
XYLENE (TOTAL)		0.707	11.9		5 UU		5 UU	5 UU
1,1-DICHLOROETHANE		2.551	7.9		5 UU		5 UU	5 UU
1,1-DICHLOROETHENE		1.218	1.2		5 UU		5 UU	5 UU
1,1,1-TRICHLOROETHANE		0.485	4.4		5 UU		5 UU	5 UU
1,1,2-TRICHLOROETHANE		0.321	15.4		5 UU		5 UU	5 UU
1,1,2,2-TETRA CHLOROETHANE		0.605	6.6		5 UU		5 UU	5 UU
1,2-DICHLOROETHANE		2.51	10.2		5 U		5 U	5 U
1,2-DICHLOROETHANE-D4		2.109	3.3		5 U		5 U	5 U
1,2-DICHLOROETHENE		1.544	12.3		5 U		5 U	5 U
1,2-DICHLOROPROPANE		0.278	5		5 U		5 U	5 U
2-BUTANONE		0.031	1.6		10 U		10 U	10 U
2-HEXANONE		0.243	8.7		10 U		10 U	10 U
4-METHYL-2-PENTANONE		0.322	9		10 U		10 U	10 U
SURR 1(TOL) %RECOVERY					95		94	98

TABLE D.7.39 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0912

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AREA	QA	QA	QA	QA	QA	QA	BLDG. 131	BLDG. 511
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIM	METHOD	SEWERS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK			SEWERS
SAMPLE NUMBER	LL0912875	LL0912877	LL0912877	LL0912878	VBK0912		LL012953A	LL012646A
MATRIX	WATER	WATER	WATER	WATER	WATER		WATER	WATER
UNITS	%	RRF	%	AREA	UG/L		UG/L	UG/L
ENV PROBLEM NO					2		2	2
SURR 2(BFB) %RECOVERY					95		93	99
SURR 3(DCE) %RECOVERY					100		102	107
M/E 50	16							
M/E 75	49							
M/E 95	100							
M/E 96	8.8							
M/E 173-1	0							
M/E 173-2	0							
M/E 174	79							
M/E 175-1	6.2							
M/E 175-2	7.8							
M/E 176-1	76							
M/E 176-2	95							
M/E 177-1	6.8							
M/E 177-2	9							
INTERNAL STD AREA(BCM)				2270000	2220000	2270000	2350000	
INTERNAL STD AREA(CBZ)				1E+07	1E+07	1E+07	1E+07	
INTERNAL STD AREA(DFB)				1E+07	1E+07	1E+07	1E+07	
DILUTION FACTOR						1	1	1
PERCENT MOISTURE								
ACTUAL(ALLOWED) HOLD TIME						36(14 D)	33(14 D)	
AREA								
LOCATION	BLDG. 169	BLDG. 322	BLDG. 322	BLDG. 321	BLDG. 321	BLDG. 241		
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS		
SAMPLE NUMBER	LL012986A	LL012602A	LL012942A	LL012919A	LL012577A	LL012497A		
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER		
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L		
ENV PROBLEM NO	2	2	2	2	2	2		
ACETONE	12 B	10 U	10 U	31 B	210 BE	25 B		
BENZENE	5 U	5 U	5 U	5 U	5 U	5 U		
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U		

TABLE D.7.39 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0912

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	BLDG. 169 SEWERS LL012986A	BLDG. 322 SEWERS LL012602A	BLDG. 322 SEWERS LL012942A	BLDG. 321 SEWERS LL012919A	BLDG. 321 SEWERS LL012577A	BLDG. 241 SEWERS LL012497A
	UG/L 2	UG/L 2	UG/L 2	UG/L 2	UG/L 2	UG/L 2
BROMOFLUOROBENZENE						
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 U					
CARBON DISULFIDE	5 U	5 U	5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROETHANE	10 U					
CHLOROFORM	9	15	11	18	15	15
CHLOROMETHANE	10 U					
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
DI-BROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U
ETHYL BENZENE	5 U	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	6	22	11	33	33	33
STYRENE	5 U	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
TOLUENE	1	5	5	1	1	1
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
VINYL ACETATE	10 U					
VINYL CHLORIDE	10	10	10	10	10	10
XYLENE (TOTAL)	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	10 U					
2-HEXANONE	10 U					
4-METHYL-2-PENTANONE	10 U					
SURR 1(TOL) %RECOVERY	96	95	92	96	96	96
SURR 2(BFB) %RECOVERY	97	95	93	97	101	96
SURR 3(DCE) %RECOVERY	98	103	98	102	103	105

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TABLE D.7.39 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0912

## AREA

LOCATION	BLDG. 169	BLDG. 322	BLDG. 322	BLDG. 321	BLDG. 321	BLDG. 241
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL012986A	LL012602A	LL012942A	LL012919A	LL012577A	LL012497A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2	2	2

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

INTERNAL STD AREA(BCM)	2360000	INTERNAL STD AREA(CBZ)	2340000	INTERNAL STD AREA(DFB)	2400000	INTERNAL STD AREA(DCM)	2310000	INTERNAL STD AREA(DCBZ)	2350000	INTERNAL STD AREA(DFB)	2300000
	1E+07		1E+07		1E+07		1E+07		1E+07		1E+07

DILUTION FACTOR	1	PERCENT MOISTURE	1	ACTUAL(ALLOWED) HOLD TIME	36(14 D)	36(14 D)	36(14 D)	37(14 D)	37(14 D)	34(14 D)
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TABLE D.7.40 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0913

AREA	QA	QA	QA	QA	QA	QA	BLDG. 298 SEWERS LL012544A	BLDG. 169 SEWERS LL012975A
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD SHIFT	RET TIM	METHOD	WATER UG/L 2	WATER UG/L 2
TYPE OF LOCATION	LL0913875	LL0913877	LL0913877	LL0913878	WBK0913			
SAMPLE NUMBER								
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER		
UNITS	X	RRF	%	AREA	UG/L	UG/L		
ENV PROBLEM NO								
ACETONE		0.669	33.4		13	22	B	9 JB
BENZENE		1.038	9		5 U	5	U	5 U
BROMODICHLOROMETHANE		0.529	3.1		5 U	5	U	5 U
BROMOFLUOROBENZENE		0.69	2.4					
BROMOFORM		0.326	0.2		5 U	5	U	5 U
BROMOMETHANE		0.863	73.9		10 U	10	U	10 U
CARBON DISULFIDE		4.54	27.6		5 U	1	J	5 U
CARBON TETRACHLORIDE		0.496	11.1		5 U	5	U	5 U
CHLOROBENZENE		1.113	12.3		10 U	10	U	10 U
CHLOROETHANE		0.499	74.3		5 U	12	U	25
CHLOROFORM		3.516	24.8		10 U	10	U	10 U
CHLORMETHANE		1.04	24.1		10 U	5	U	5 U
CIS-1,3-DICHLOROPROPENE		0.369	10.9		10 U	13	5	130 U
DIBROMOCHLOROMETHANE		0.467	14.9		5 U	5	U	5 U
ETHYLBENZENE		0.616	13.8		10 U	5	U	5 U
METHYLENE CHLORIDE		1.822	0.9		5 U	1	J	1
STYRENE		1.271	17		5 U			
TETRACHLOROETHENE		0.439	5.4		5 U			
TOLUENE		0.921	12.7		5 U			
TOLUENE-D8		1.193	5.4		5 U			
TRANS-1,3-DICHLOROPROPENE		0.632	6		5 U			
TRICHLOROETHENE		0.389	5.6		5 U			
VINYL ACETATE		0.428	60.3		10 U	10	U	10 U
VINYL CHLORIDE		0.786	52.5		10 U	5	U	10 U
XYLENE (TOTAL)		0.729	15.2		5 U	5	U	5 U
1,1-DICHLOROETHANE		2.682	13.5		5 U	5	U	5 U
1,1-DICHLOROETHENE		1.585	31.7		5 U	5	U	5 U
1,1,1-TRICHLOROETHANE		0.519	11.7		5 U	5	U	5 U
1,1,2-TRICHLOROETHANE		0.317	14.1		5 U	5	U	5 U
1,1,2,2-TETRACHLOROETHANE		0.571	0.6		5 U	5	U	5 U
1,2-DICHLOROETHANE		2.598	14		5 U	5	U	5 U
1,2-DICHLOROETHANE-D4		2.076	1.7		5 U	5	U	5 U
1,2-DICHLOROETHENE		1.783	29.7		5 U	5	U	5 U
1,2-DICHLOROPROPANE		0.268	8.5		5 U	5	U	5 U
2-BUTANONE		0.028	5.7		10 U	10	U	10 U
2-HEXANONE		0.223	16.3		10 U	10	U	10 U
4-METHYL-2-PENTANONE		0.299	15.6		10 U	10	U	10 U

SURR 1(TOL) %RECOVERY

105

98

97

TABLE D.7.40 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0913

D-600

AREA	QA	QA	QA	QA	QA	QA	BLDG. 298	BLDG. 169
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIM	METHOD	SEWERS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	SHIFT	BLANK		BLANK	SEWERS
SAMPLE NUMBER	LL0913875	LL0913877	LL0913877	LL0913878	VBK0913		LL012544A	LL012975A
MATRIX	WATER	WATER	WATER	WATER	WATER		WATER	WATER
UNITS	%	RRF	%	AREA	UG/L		UG/L	UG/L
ENV PROBLEM NO							2	2
SURR 2(BFB) %RECOVERY					102		101	103
SURR 3(DCE) %RECOVERY					105		87	111
M/E 50		17						
M/E 75		51						
M/E 95		100						
M/E 96		7.5						
M/E 173-1		0						
M/E 173-2		0						
M/E 174		78						
M/E 175-1		6.8						
M/E 175-2		8.6						
M/E 176-1		78						
M/E 176-2		100						
M/E 177-1		5.3						
M/E 177-2		6.8						
INTERNAL STD AREA(BCM)				2350000	2260000	2530000	2360000	
INTERNAL STD AREA(CBZ)				1E+07	1E+07	1E+07	1E+07	
INTERNAL STD AREA(DFB)				1E+07	1E+07	1E+07	1E+07	
DILUTION FACTOR						1	1	1
PERCENT MOISTURE								
ACTUAL(ALLOWED) HOLD TIME						37(14 D)	37(14 D)	
AREA								
LOCATION	BLDG. 131	BLDG. 331	BLDG. 511	BLDG. 241	BLDG. 151	BLDG. 222		
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS		
SAMPLE NUMBER	LL012362A	LL012624A	LL012657A	LL012511A	LL012384A	LL012475A		
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER		
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L		
ENV PROBLEM NO	2	2	2	2	2	2		
ACETONE	18 B	6 JB	3 JB	4 JB	17 B	2 JB		
BENZENE	5 U	5 U	5 U	5 U	5 U	5 U		
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U		

TABLE D.7.40 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0913

AREA

LOCATION	BLDG. 131	BLDG. 331	BLDG. 511	BLDG. 241	BLDG. 151	BLDG. 222
TYPE OF LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS
SAMPLE NUMBER	LL012362A	LL012624A	LL012657A	LL012511A	LL012384A	LL012475A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2	2	2
BROMOFLUOROBENZENE						
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U
BROMOMETHANE	10 UU					
CARBON DISULFIDE	5 U	5 UU				
CARBON TETRACHLORIDE	11 U	5 UU				
CHLOROBENZENE	5 U	10 U	10 U	10 U	10 U	10 U
CHLOROETHANE	10 U	19 U	31 U	30 U	21 U	22 U
CHLOROFORM	11 U	19 U	31 U	10 U	10 U	10 U
CHLOROMETHANE	10 UU					
CIS-1,3-DICHLOROPROPENE	5 UU					
DIBROMOCHLOROMETHANE	5 U	5 UU				
ETHYL BENZENE	1 J	2 J	3 J	2 J	2 J	2 J
METHYLENE CHLORIDE	2 J	2 J	2 J	2 J	2 J	2 J
STYRENE	5 UU					
TETRACHLOROETHENE	5 UU					
TOLUENE	1 J	5 U	1 J	5 U	1 J	5 U
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	4 J	5 U	5 U	5 U	5 U	5 U
VINYL ACETATE	10 U					
VINYL CHLORIDE	10 U					
XYLENE (TOTAL)	5 U	5 U	17 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	79 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U
2-BUTANONE	10 U					
2-HEXANONE	10 U					
4-METHYL-2-PENTANONE	10 U					
SURR 1(TOL) %RECOVERY	103	97	97	101	101	100
SURR 2(BFB) %RECOVERY	99	105	126 *	112	108	106
SURR 3(DCE) %RECOVERY	110	96	105	112	107	103

M/E 50

TABLE D.7.40 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0913

AREA	BLDG. 131	BLDG. 331	BLDG. 511	BLDG. 241	BLDG. 151	BLDG. 222
LOCATION	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS	SEWERS
TYPE OF LOCATION	LL012362A	LL012624A	LL012657A	LL012511A	LL012384A	LL012475A
SAMPLE NUMBER						
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	2	2	2	2	2	2
M/E 75						
M/E 95						
M/E 96						
M/E 173-1						
M/E 173-2						
M/E 174						
M/E 175-1						
M/E 175-2						
M/E 176-1						
M/E 176-2						
M/E 177-1						
M/E 177-2						
INTERNAL STD AREA(BCM)	2180000	2370000	2240000	2030000	2110000	2230000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR	1	1	1	1	1	1
PERCENT MOISTURE						
ACTUAL(ALLOWED) HOLD TIME	37(14 D)	34(14 D)				

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TABLE D.7.41 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0917

D-603

AREA	QA	QA	QA	QA	QA	STP MAIN	STP MAIN
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CAL X'D	CONTINUING	ISTD SHIFT	BLANK	POND
TYPE OF LOCATION	LL0908875	LL0917877	LL0917877	WATER	LL0917878	WATER	LL038022A
SAMPLE NUMBER							LL038033A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO					10	10	10
ACETONE		0.544	8.5		13	46	69
BENZENE		0.891	6.5		5	15	9
BROMODICHLOROMETHANE		0.475	7.3		5	15	9
BROMOFLUOROBENZENE		0.654	2.9		5	15	9
BROMOFORM		0.31	4.6		5	15	9
BROMOMETHANE		0.683	37.6		10	30	19
CARBON DISULFIDE		4.317	21.4		5	15	9
CARBON TETRACHLORIDE		0.429	3.9		5	15	9
CHLOROBENZENE		1.135	14.5		10	30	19
CHLOROETHANE		0.353	23.2		5	15	9
CHLOROFORM		3.383	20.1		10	15	9
CHLOROMETHANE		0.892	6.5		10	30	19
CIS-1,3-DICHLOROPROPENE		0.351	5.3		5	15	9
DIBROMOCHLOROMETHANE		0.421	3.7		5	15	9
ETHYLBENZENE		0.605	11.8		5	15	9
METHYLENE CHLORIDE		1.743	3.4		1	5	JB
STYRENE		1.275	17.4		5	15	9
TETRACHLOROETHENE		0.449	8		5	15	9
TOLUENE		0.905	10.7		5	3	2
TOLUENE-D8		1.226	2.8				
TRANS-1,3-DICHLOROPROPENE		0.589	12.3		5	15	9
TRICHLOROETHENE		0.339	8.1		5	15	9
VINYL ACETATE		0.396	48.2		10	30	19
VINYL CHLORIDE		0.626	21.4		10	30	19
XYLENE (TOTAL)		0.747	18.1		5	15	9
1,1-DICHLOROETHANE		2.756	16.6		5	15	9
1,1-DICHLOROETHENE		1.478	22.7		5	15	9
1,1,1-TRICHLOROETHANE		0.458	1.3		5	15	9
1,1,2-TRICHLOROETHANE		0.296	6.4		5	15	9
1,1,2,2-TETRACHLOROETHANE		0.623	9.8		5	15	9
1,2-DICHLOROETHANE		2.637	15.7		5	15	9
1,2-DICHLOROETHANE-D4		2.059	0.8		5	15	9
1,2-DICHLOROETHENE		1.646	19.8		5	15	9
1,2-DICHLOROPROPANE		0.255	12.9		5	15	9
2-BUTANONE		0.027	10.8		10	30	19
2-HEXANONE		0.252	5.3		10	30	19
4-METHYL-2-PENTANONE		0.342	3.4		10	30	19
SURR 1(TOL) %RECOVERY					105	113	107

TABLE D.7.41 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0917

AREA	QA	QA	QA	QA	QA	STP MAIN	STP MAIN
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD	RET	TIM	METHOD
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	POND	POND
SAMPLE NUMBER	LL0908875	LL0917877	LL0917877	LL0917878	VBK0917	LL038022A	LL038033A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						10	10
SURR 2(BFB) %RECOVERY					103	110	104
SURR 3(DCE) %RECOVERY					104	111	104
M/E 50	15						
M/E 75	50						
M/E 95	100						
M/E 96	5.6						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	81						
M/E 175-1	6						
M/E 175-2	7.4						
M/E 176-1	78						
M/E 176-2	97						
M/E 177-1	6.7						
M/E 177-2	8.5						
INTERNAL STD AREA(BCM)				2220000	2340000	3090000	3150000
INTERNAL STD AREA(CBZ)				1E+07	1E+07	2E+07	1E+07
INTERNAL STD AREA(DFB)				1E+07	1E+07	2E+07	2E+07
DILUTION FACTOR					1	3.03	1.89
PERCENT MOISTURE						67	47.1
ACTUAL(ALLOWED) HOLD TIME						41(14 D)	41(14 D)
AREA							
LOCATION	STP MAIN	STP MAIN					
TYPE OF LOCATION	POND	POND					
SAMPLE NUMBER	LL038055A	LL038011A					
MATRIX	SOIL	SOIL					
UNITS	UG/KG	UG/KG					
ENV PROBLEM NO	10	10					
ACETONE	27 B	22 B					
BENZENE	8 U	9 U					
BROMODICHLOROMETHANE	8 U	9 U					

D-604

TABLE D.7.41 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0917

AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	STP MAIN POND LL038055A SOIL UG/KG 10	STP MAIN POND LL038011A SOIL UG/KG 10
BROMOFLUOROBENZENE		
BROMOFORM	8 U	9 U
BROMOMETHANE	16 U	18 U
CARBON DISULFIDE	8 U	9 U
CARBON TETRACHLORIDE	8 U	9 U
CHLOROBENZENE	8 U	9 U
CHLOROETHANE	16 U	18 U
CHLOROFORM	8 U	9 U
CHLOROMETHANE	16 U	18 U
CIS-1,3-DICHLOROPROPENE	8 U	9 U
DIBROMOCHLOROMETHANE	8 U	9 U
ETHYLBENZENE	2 J	2 J
METHYLENE CHLORIDE	3 JB	3 JB
STYRENE	8 U	9 U
TETRACHLOROETHENE	8 U	9 U
TOLUENE	1 J	2
TOLUENE-D8		
TRANS-1,3-DICHLOROPROPENE	8 U	9 U
TRICHLOROETHENE	8 U	9 U
VINYL ACETATE	16 U	18 U
VINYL CHLORIDE	16 U	18 U
XYLENE (TOTAL)	8 U	9 U
1,1-DICHLOROETHANE	8 U	9 U
1,1,1-DICHLOROETHENE	8 U	9 U
1,1,1-TRICHLOROETHANE	8 U	9 U
1,1,2-TRICHLOROETHANE	8 U	9 U
1,1,2,2-TETRACHLOROETHANE	8 U	9 U
1,2-DICHLOROETHANE	8 U	9 U
1,2-DICHLOROETHANE-D4		
1,2-DICHLOROETHENE	8 U	9 U
1,2-DICHLOROPROpane	8 U	9 U
2-BUTANONE	16 U	18 U
2-HEXANONE	16 U	18 U
4-METHYL-2-PENTANONE	16 U	18 U
SURR 1(TOL) %RECOVERY	110	103
SURR 2(BFB) %RECOVERY	105	100
SURR 3(DCE) %RECOVERY	108	105

M/E 50

TABLE D.7.41 LIVERMORE/SANDIA VOLATILE ORGANICS - SDG NUMBER: 0917

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AREA

LOCATION	STP MAIN	STP MAIN
TYPE OF LOCATION	POND	POND
SAMPLE NUMBER	LL038055A	LL038011A
MATRIX	SOIL	SOIL
UNITS	UG/KG	UG/KG
ENV PROBLEM NO	10	10

M/E 75  
M/E 95  
M/E 96  
M/E 173-1  
M/E 173-2  
M/E 174  
M/E 175-1  
M/E 175-2  
M/E 176-1  
M/E 176-2  
M/E 177-1  
M/E 177-2

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INTERNAL STD AREA(BCM)	2890000	2830000
INTERNAL STD AREA(CBZ)	1E+07	1E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07

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DILUTION FACTOR	1.61	1.82
PERCENT MOISTURE	38	45.1
ACTUAL(ALLOWED) HOLD TIME	41(14 D)	41(14 D)

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TABLE D 7.42 LIVERMORE/SANDIA QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>G904</b>					
	LL032151A		ACETIC ACID, METHYL EST(9.46)	87 J	9.46
	LL032151A		BUTANOIC ACID, METHYL E(19.38)	17 J	19.38
	LL032151A		BUTANOL(15.51)	59 J	15.51
	LL032151A		METHANE, TRICHLOROFLUOR(8.9)	13 J	8.90
	LL032151A		UNKNOWN(24.79)	22 J	24.79
	LL034039A		ETHYL ETHER(11.92)	34 J	11.92
	LL034040A		ETHYL ETHER(11.89)	8 J	11.89
	LL034040A		HEPTANE(22.71)	11 J	22.71
	LL034040A		UNKNOWN(10.93)	7 J	10.93
	LL034040A		UNKNOWN(14.91)	120 J	14.91
	LL034040A		UNKNOWN(19.32)	5 J	19.32
	LL034040A		UNKNOWN(21.2)	6 J	21.20
	LL034040A		UNKNOWN(23.34)	4 J	23.34
	LL034040A		UNKNOWN(9.49)	18 J	9.49
<b>G908</b>					
	LL032128A		ETHYL ETHER(12.15)	8 J	12.15
	LL032128A		UNKNOWN(15.73)	4 J	15.73
	LL032128A		UNKNOWN(17.93)	5 J	17.93
	LL032128A		UNKNOWN(9.65)	27 J	9.65
	LL032139A		ACETIC ACID, METHYL EST(9.65)	51 J	9.65
	LL032139A		UNKNOWN(15.7)	20 J	15.70
	LL032139A		UNKNOWN(19.61)	5 J	19.61
	LL032139A		UNKNOWN(25.17)	6 J	25.17
	LL032140A		ACETIC ACID, METHYL EST(9.65)	100 J	9.65
	LL032140A		ETHYL ETHER(12.11)	6 J	12.11
	LL032140A		UNKNOWN(15.69)	58 J	15.69
	LL032140A		UNKNOWN(19.6)	22 J	19.60
	LL032140A		UNKNOWN(23.66)	4 J	23.66
	LL034051A		ETHYL ETHER(12.11)	8 J	12.11
	LL034051A		UNKNOWN(15.03)	75 J	15.03
	LL034051A		UNKNOWN(15.72)	6 J	15.72
	LL034051A		UNKNOWN(22.97)	4 J	22.97
	LL034051A		UNKNOWN(9.65)	15 J	9.65
	LL034062A		ETHYL ETHER(12.15)	10 J	12.15
	LL034062A		UNKNOWN(15.07)	19 J	15.07
	LL034062A		UNKNOWN(22.97)	4 J	22.97
	LL034062A		UNKNOWN(9.68)	13 J	9.68
	LL034073A		ACETIC ACID, METHYL EST(9.68)	1 J	9.68
	LL034073A		UNKNOWN(12.11)	54 J	12.11
	LL034073A		UNKNOWN(19.08)	54 J	19.08
	LL034073A		UNKNOWN(40.67)	91 J	40.67
	LL034084A		ACETIC ACID, METHYL EST(9.65)	2 J	9.65
	LL034084A		UNKNOWN(12.08)	53 J	12.08
	LL034084A		UNKNOWN(19.08)	53 J	19.08

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TABLE D 7.42 LIVERMORE/SANDIA QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>G908</b>					
	LL034084A		UNKNOWN(23.73)	6 J	23.73
	LL034084A		UNKNOWN(40.62)	220 J	40.62
	LL034095A		ACETIC ACID, METHYL EST(9.65)	2 J	9.65
	LL034095A		UNKNOWN(12.11)	54 J	12.11
	LL034095A		UNKNOWN(19.08)	54 J	19.08
	LL034095A		UNKNOWN(23.73)	12 J	23.73
	LL034095A		UNKNOWN(3.18)	2 J	3.18
	LL034095A		UNKNOWN(40.63)	860 J	40.63
<b>G911</b>					
	LL012817A		ETHANOL(5.61)	63 J	5.61
	LL012817A		UNKNOWN(17.01)	14 J	17.01
	LL012873A		ETHANOL(5.65)	10 J	5.65
	LL012964A		ETHANOL(5.65)	91 J	5.65
<b>G912</b>					
	LL012920A		DISULFIDE, DIMETHYL(16.94)	8 J	16.94
	LL012997A		ETHANOL(5.61)	10 J	5.61
<b>G913</b>					
	LL012635A		DISULFIDE, DIMETHYL(16.98)	4 J	16.98
<b>0808</b>					
	LL012522A		ETHANOL(5.38)	10 J	5.38
	LL022013A		DISULFIDE, DIMETHYL(16.97)	23 J	16.97
	LL022013A		UNKNOWN(9.13)	5 J	9.13
<b>0809</b>					
	LL012771A		UNKNOWN(4.81)	290 J	4.81
	LL012771A		UNKNOWN(5.38)	11 J	5.38
<b>0811</b>					
	LL001030A		UNKNOWN(32.07)	12 J	32.07
	LL001030A		UNKNOWN(38.76)	14 J	38.76
<b>0813</b>					
	LL033016A		METHANE, TRICHLOROFLUOR(9.17)	7 J	9.17
	LL033016A		UNKNOWN(9.65)	7 J	9.65
	LL033027A		METHANE, TRICHLOROFLUOR(9.17)	16 J	9.17
	LL033027A		UNKNOWN(9.65)	6 J	9.65

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## TABLE D 7.42 LIVERMORE/SANDIA QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS	RETENTION & PREFIX	TIME
0813						
	LL033038A		METHANE, TRICHLOROFLUOR(9.17)	13 J		9.17
	LL033038A		UNKNOWN(9.65)	7 J		9.65
	LL039034A		UNKNOWN(9.64)	7 J		9.64
0814						
	LL008037A		METHANE, DICHLORODIFLUO(3.81)	59 J		3.81
0815						
	LL012828A		DISULFIDE, DIMETHYL(16.97)	6 J		16.97
	LL012828A		METHYLETHYLCYCLOHEXANE(37.32)	6 J		37.32
	LL012828A		UNKNOWN(5.33)	14 J		5.33
	LL012851A		DISULFIDE, DIMETHYL(16.96)	18 J		16.96
	LL012851A		UNKNOWN(5.33)	35 J		5.33
0817						
	LL912156A	94175	ETHANOL(5.33)	9 J		5.33
0819						
	LLN14017A		UNKNOWN(21.6)	56 J		21.60
	LL912247A		DISULFIDE, DIMETHYL(17.01)	6 J		17.01
	LL912247A		2-PROPANOL(8.79)	13 J		8.79
	LL912269A		ETHANOL(5.38)	14 J		5.38
	LL912281A		DISULFIDE, DIMETHYL(17.02)	3 J		17.02
	LL912281A		METHYLETHYLCYCLOHEXANE(47.89)	23 J		47.89
	LL912281A		2-PROPANOL(8.79)	38		8.79
0821						
	LL037021A		HEXANE(19.53)	4 J		19.53
	LL037021A		UNKNOWN(9.65)	13 J		9.65
	LL037032A		HEXANE(19.53)	6 J		19.53
	LL037032A		METHANE, TRICHLOROFLUOR(9.22)	19 J		9.22
	LL037032A		METHYLHEXANE(22.99)	8 J		22.99
	LL037032A		UNKNOWN(16.2)	2 J		16.20
	LL037032A		UNKNOWN(23.66)	4 J		23.66
	LL037032A		UNKNOWN(9.65)	10 J		9.65
0822						
	SN005013A		ETHANOL(5.47)	35 J		5.47
	SN005013A		2-PROPANOL(9.08)	1200 J		9.08
	SN005024A		ETHANOL(5.47)	32 J		5.47
	SN005024A		2-PROPANOL(9.13)	1200 J		9.13

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TABLE D 7.42 LIVERMORE/SANDIA QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
0822					
	SN005035A		ETHANOL(5.47)	32 J	5.47
	SN005035A		2-PROPANOL(9.13)	1300 J	9.13
	SN005057A		2-PROPANOL(8.84)	150 J	8.84
0823					
	LL912327A		UNKNOWN(4.1)	7 J	4.10
	LL912327A		2-PROPANOL(8.79)	24 J	8.79
	LL912338A		ETHANOL(5.43)	52 J	5.43
	LL912338A		2-PROPANOL(8.79)	21 J	8.79
	LL912349A		2-PROPANOL(8.79)	16 J	8.79
	LL912407A		2-PROPANOL(8.79)	24 J	8.79
	LL912430A		2-PROPANOL(8.79)	24 J	8.79
0824					
	LL020011A		CYCLOHEXANE(14.97)	5 J	14.97
	LL020011A		ETHANOL(5.38)	8 J	5.38
	LL020011A		FURAN, TETRAHYDRO-(11.17)	4 J	11.17
	LL020011A		UNKNOWN(12.07)	7 J	12.07
	LL020011A		UNKNOWN(4.71)	15 J	4.71
	LL021012A		ETHYLETHER(12.12)	14 J	12.12
	LL021012A		FURAN, TETRAHYDRO-(11.17)	6 J	11.17
	LL024015A		ETHANOL(5.57)	2 J	5.57
	LL024015A		FURAN, TETRAHYDRO-(11.18)	1 J	11.18
	LL024015A		UNKNOWN(19.02)	31 J	19.02
	LL024015A		UNKNOWN(33.31)	340 J	33.31
	LL024015A		UNKNOWN(8.18)	3 J	8.18
	LL024015A		UNKNOWN(9.75)	50 J	9.75
	LL024015A		2-PROPANOL(8.99)	39 J	8.99
	LL025016A		ACETIC ACID, METHYL EST(9.7)	7 J	9.70
	LL025016A		ETHANOL (ACN)(9CI)(5.47)	24 J	5.47
	LL025016A		UNKNOWN KETONE(27.44)	7 J	27.44
	LL025016A		2-BUTANONE, 3-METHYL-(16.26)	4 J	16.26
	LL025016A		2-PENTANONE(17.93)	6 J	17.93
	LL025016A		2-PROPANOL (ACN)(9CI)(8.84)	44 J	8.84
	LL026017A		ACETALDEHYDE(2.91)	4 J	2.91
	LL026017A		ETHANE, 1,2-DICHLORO-1,(10.74)	11 J	10.74
	LL026017A		ETHANE, TRICHLOROTRIFLUO(12.93)	230 J	12.93
	LL026017A		ETHANOL(5.47)	19 J	5.47
	LL026017A		UNKNOWN ALCOHOL(18.92)	8 J	18.92
	LL026017A		UNKNOWN KETONE(17.92)	50 J	17.92
	LL026017A		UNKNOWN(12.69)	8 J	12.69
	LL026017A		UNKNOWN(23.76)	4 J	23.76
	LL026017A		1-BUTANOL(15.6)	6 J	15.60
	LL026017A		1-HEXANOL(27.39)	44 J	27.39

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TABLE D 7.42 LIVERMORE/SANDIA QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>0825</b>					
	LL016015A	64175	ETHANOL (ACN)(9CI)(5.42)	8 J	5.42
	LL016015A		UNKNOWN(19.97)	4 J	19.97
	LL016015A		UNKNOWN(31.12)	50 J	31.12
	LL017016A		CYCLOPENTANE, 1,1,3-TRI(23.06)	4 J	23.06
	LL017016A		CYCLOPENTANE, 1,3-DIMET(20.17)	4 J	20.17
	LL017016A		ETHANE, 1,2-DIMETHOXY-(17.03)	100 J	17.03
	LL017016A		ETHANOL, 2-BUTOXY-(31.04)	170 J	31.04
	LL017016A		UNKNOWN(12.74)	20 J	12.74
	LL017016A		2-PROPANOL(8.84)	28 J	8.84
<b>0826</b>					
	LL003032A		NAPHTHALENE(52)	200 JE	52.00
	LL019018A	64175	ETHANOL(5.52)	9 J	5.52
	LL019018A		UNKNOWN(14.5)	9 J	14.50
	LL019018A		UNKNOWN(9.03)	15 J	9.03
<b>0827</b>					
	LL029010A		ACETIC ACID, METHYL EST(9.65)	8 J	9.65
	LL030013A		ACETIC ACID, METHYL EST(9.64)	19 J	9.64
	LL030013A		UNKNOWN(31.98)	26 J	31.98
	LL030024A		ACETIC ACID, METHYL EST(9.65)	9 J	9.65
<b>0828</b>					
	LL009027A		ACETIC ACID, METHYL EST(9.6)	11 J	9.60
	LL009038A		ACETIC ACID, METHYL EST(9.6)	28 J	9.60
	LL009038A		UNKNOWN(11.12)	22 J	11.12
	LL030035A		ACETIC ACID, METHYL EST(9.65)	12 J	9.65
	LL030046A		ACETIC ACID, METHYL EST(9.6)	11 J	9.60
	LL030046A		1-BUTENE, 4-ISOTHIOCYAN(31.86)	26 J	31.86
	LL036144A		UNKNOWN(11.07)	11 J	11.07
<b>0830</b>					
	LL036020A		UNKNOWN(11.21)	9 J	11.21
	SN001019A		ACETIC ACID, METHYL EST(9.69)	4 J	9.69
	SN001019A		UNKNOWN(11.22)	4 J	11.22
	SN001020A		ACETIC ACID, METHYL EST(9.69)	6 J	9.69
<b>0831</b>					
	LL031014A		ACETIC ACID, METHYL EST(9.69)	22 J	9.69
	LL031014A		BENZENE, DERIVATIVE(50.14)	2440 J	50.14
	LL031014A		UNKNOWN(16.29)	6 J	16.29
	LL031014A		UNKNOWN(22.88)	4 J	22.88

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TABLE D 7.42 LIVERMORE/SANDIA QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>0831</b>					
	LL031014A		UNKNOWN(34.39)	15 J	34.39
	LL031014A		UNKNOWN(38.79)	924 J	38.79
	LL031025A		ACETIC ACID, METHYL EST(9.69)	17 J	9.69
	LL031025A		UNKNOWN(16.29)	4 J	16.29
	LL031025A		UNKNOWN(22.89)	3 J	22.89
	LL031025A		UNKNOWN(34.4)	14 J	34.40
	LL031036A		ACETIC ACID, METHYL EST(9.69)	15 J	9.69
	LL031036A		UNKNOWN(11.21)	5 J	11.21
	LL031036A		UNKNOWN(16.29)	4 J	16.29
	LL031036A		UNKNOWN(19.57)	3 J	19.57
	LL031036A		UNKNOWN(34.39)	11 J	34.39
	SN002021A		UNKNOWN(32.21)	10 J	32.21
	SN002021A		UNKNOWN(44.47)	48 J	44.47
	SN002032A		UNKNOWN(32.23)	200 J	32.23
	SN002032A		UNKNOWN(44.76)	320 J	44.76
	SN003011A		BENZENE DERIVATIVE(50.43)	116 J	50.43
	SN003011A		UNKNOWN(32.28)	14 J	32.28
	SN003011A		UNKNOWN(44.72)	11 J	44.72
	SN003022A		UNKNOWN(32.24)	13 J	32.24
	SN003022A		UNKNOWN(44.76)	160 J	44.76
	SN003033A		ACETIC ACID, METHYL EST(9.69)	7 J	9.69
	SN003033A		UNKNOWN(32.28)	140 J	32.28
	SN003033A		UNKNOWN(34.43)	7 J	34.43
	SN003033A		UNKNOWN(44.57)	46 J	44.57
<b>0901</b>					
	LL031047A		ACETIC ACID, METHYL EST(9.69)	6 J	9.69
	LL031047A		UNKNOWN(17.95)	3 J	17.95
	LL031058A		ACETIC ACID, METHYL EST(9.69)	8 J	9.69
	LL031058A		UNKNOWN(17.95)	4 J	17.95
	LL031069A		ACETIC ACID, METHYL EST(9.69)	11 J	9.69
	LL031069A		UNKNOWN(17.95)	5 J	17.95
	LL031070A		ACETIC ACID, METHYL EST(9.69)	17 J	9.69
	LL031081A		ACETIC ACID, METHYL EST(9.69)	16 J	9.69
	LL031081A		UNKNOWN(17.95)	9 J	17.95
	LL031081A		UNKNOWN(23.7)	4 J	23.70
	LL031092A		ACETIC ACID, METHYL EST(9.69)	9 J	9.69
	LL031105A		ACETIC ACID, METHYL EST(9.69)	12 J	9.69
	LL031116A		ACETIC ACID, METHYL EST(9.69)	11 J	9.69
<b>0902</b>					
	LL031127A		ACETIC ACID, METHYL EST(9.69)	9 J	9.69
	LL031149A		ACETIC ACID, METHYL EST(9.69)	3 J	9.69
	LL031150A		ACETIC ACID, METHYL EST(9.69)	3 J	9.69
	LL031161A		ACETIC ACID, METHYL EST(9.69)	3 J	9.69

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TABLE D 7.42 LIVERMORE/SANDIA QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>0903</b>					
	LL032015A		ACETIC ACID, METHYL EST(9.69)	4 J	9.69
	LL032026A		ACETIC ACID, METHYL EST(9.69)	3 J	9.69
	LL032037A		ACETIC ACID, METHYL EST(9.69)	3 J	9.69
	LL032037A		UNKNOWN(11.2)	3 J	11.20
	SN010021A		UNKNOWN(32.01)	8 J	32.01
	SN010021A		UNKNOWN(44.76)	280 J	44.76
	SN010032A		ACETIC ACID, METHYL EST(9.74)	8 J	9.74
	SN010032A		BENZENE DERIVATIVE(50.54)	108 J	50.54
	SN010032A		PINENE(32.31)	170 J	32.31
	SN010032A		UNKNOWN(34.33)	18 J	34.33
	SN010032A		UNKNOWN(38.93)	38 J	38.93
	SN010032A		UNKNOWN(44.76)	160 J	44.76
	SN010032A		UNKNOWN(58.05)	13 J	58.05
	SN010043A		ACETIC ACID, METHYL EST(9.69)	22 J	9.69
	SN010043A		BENZENE DERIVATIVE(50.58)	256 J	50.58
	SN010043A		DIMETHYLPENTANE(21.55)	5 J	21.55
	SN010043A		FURAN, TETRAHYDRO-(11.21)	6 J	11.21
	SN010043A		METHYLHEXANE(23.13)	12 J	23.13
	SN010043A		UNKNOWN(19.63)	3 J	19.63
	SN010043A		UNKNOWN(23.8)	6 J	23.80
	SN010043A		UNKNOWN(38.87)	49 J	38.87
	SN010054A		ACETIC ACID, METHYL EST(9.69)	16 J	9.69
	SN010054A		DIMETHYLPENTANE(21.55)	5 J	21.55
	SN010054A		HEXANE(19.58)	3 J	19.58
	SN010054A		METHYLHEXANE(23.08)	13 J	23.08
	SN010054A		UNKNOWN(23.75)	7 J	23.75
<b>0904</b>					
	LL032071A		ACETIC ACID, METHYL EST(9.69)	7 J	9.69
	LL032071A		ETHYL ETHER(12.21)	17 J	12.21
	LL032071A		UNKNOWN(23.12)	3 J	23.12
	LL032082A		ACETIC ACID, METHYL EST(9.69)	14 J	9.69
	LL032082A		ETHYL ETHER(12.21)	13 J	12.21
	LL032082A		UNKNOWN(11.21)	17 J	11.21
	LL032093A		ACETIC ACID, METHYL EST(9.69)	6 J	9.69
	LL032093A		ETHYL ETHER(12.21)	18 J	12.21
	LL032106A		ACETIC ACID, METHYL EST(9.69)	6 J	9.69
	LL032106A		ETHYL ETHER(12.21)	8 J	12.21
	LL032117A		ACETIC ACID, METHYL EST(9.69)	20 J	9.69
	LL032117A		ETHYL ETHER(12.21)	9 J	12.21
	LL032117A		FURAN, TETRAHYDRO-(11.21)	11 J	11.21
	LL032117A		UNKNOWN(15.63)	12 J	15.63
	LL032117A		UNKNOWN(19.62)	2 J	19.62
	LL032117A		UNKNOWN(23.74)	5 J	23.74
	LL032117A		2-PENTANONE(16.29)	2 J	16.29

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TABLE D 7.42 LIVERMORE/SANDIA QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>0909</b>					
	LL034108A		ACETIC ACID, METHYL EST(9.7)	6 J	9.70
	LL034108A		DIISOPROPYL ETHER(19.12)	22 J	19.12
	LL034108A		ETHYL ETHER(12.22)	54 J	12.22
	LL034108A		UNKNOWN(23.72)	9 J	23.72
	LL034108A		UNKNOWN(40.74)	1000 J	40.74
	LL034119A		ACETIC ACID, METHYL EST(9.7)	8 J	9.70
	LL034119A		DIISOPROPYL ETHER(19.12)	14 J	19.12
	LL034119A		ETHYL ETHER(12.22)	53 J	12.22
	LL034119A		UNKNOWN(21.47)	5 J	21.47
	LL034119A		UNKNOWN(23.68)	8 J	23.68
	LL034119A		UNKNOWN(40.68)	1000 J	40.68
	LL034120A		ACETIC ACID, METHYL EST(9.7)	13 J	9.70
	LL034120A		ETHYL ETHER(12.22)	58 J	12.22
	LL034120A		UNKNOWN(40.75)	170 J	40.75
	SN008027A		FURAN, TETRAHYDRO-(11.22)	4 J	11.22
	SN011011A		FURAN, TETRAHYDRO-(11.21)	3 J	11.21
<b>0910</b>					
	SN004034A		FURAN, TETRAHYDRO-(11.21)	3 J	11.21
	SN007015A		FURAN, TETRAHYDRO-(11.21)	4 J	11.21
	SN007026A		FURAN, TETRAHYDRO-(11.16)	3 J	11.16
	SN007037A		FURAN, TETRAHYDRO-(11.16)	5 J	11.16
	SN007048A	109999	ACETIC ACID, METHYL EST(9.69)	5 J	9.69
	SN007048A		FURAN, TETRAHYDRO-(11.17)	11 J	11.17
	SN007048A		UNKNOWN(44.5)	3 J	44.50
<b>0911</b>					
	LL012351A		DISULFIDE, DIMETHYL(16.96)	22 J	16.96
	LL012351A		ETHANOL(5.52)	43 J	5.52
	SN007059A		FURAN, TETRAHYDRO-(11.16)	4 J	11.16
	SN007060A		ACETIC ACID, METHYL EST(9.64)	7 J	9.64
	SN007060A		FURAN, TETRAHYDRO-(11.16)	19 J	11.16
	SN007060A		UNKNOWN(32.09)	27 J	32.09
	SN007060A		UNKNOWN(44.31)	24 J	44.31
	SN009017A		FURAN, TETRAHYDRO-(11.16)	6 J	11.16
	SN009028A		FURAN, TETRAHYDRO-(11.16)	4 J	11.16
	SN009039A		FURAN, TETRAHYDRO-(11.16)	4 J	11.16
	SN009040A		FURAN, TETRAHYDRO-(11.16)	4 J	11.16
<b>0912</b>					
	LL012577A		DISULFIDE, DIMETHYL(16.95)	4 J	16.95
	LL012919A		DISULFIDE, DIMETHYL(16.95)	3 J	16.95
	LL012919A		UNKNOWN(9.65)	3 J	9.65

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TABLE D 7.42 LIVERMORE/SANDIA QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
<b>0912</b>					
	LL012953A		DISULFIDE, DIMETHYL(16.95)	13 J	16.95
	LL012953A		ETHANOL(5.42)	15 J	5.42
	LL012953A		PENTANE(14.01)	17 J	14.01
	LL012953A		UNKNOWN(19.57)	3 J	19.57
	LL012953A		UNKNOWN(27.41)	11 J	27.41
	LL012953A		UNKNOWN(3.2)	10 J	3.20
	LL012986A		UNKNOWN(16.96)	1 J	16.96
	LL012986A		UNKNOWN(17.2)	2 J	17.20
<b>0913</b>					
	LL012544A		DISULFIDE, DIMETHYL(17)	20 J	17.00
	LL012544A		UNKNOWN HYDROCARBON(47.93)	5 J	47.93
	LL012544A		UNKNOWN(3.2)	14 J	3.20
	LL012624A		DISULFIDE, DIMETHYL(17)	4 J	17.00
	LL012624A		UNKNOWN(4.1)	14 J	4.10
	LL012657A		C3H7-CYCLOHEXANE(37.49)	89 J	37.49
	LL012657A		C3H7-CYCLOHEXANE(40.16)	114 J	40.16
	LL012657A		C3H7-CYCLOHEXANE(47.97)	144 J	47.97
	LL012657A		TRICHLOROTRIFLUOROETHAN(12.87)	131 J	12.87
	LL012657A		UNKNOWN(33.19)	91 J	33.19
	LL012657A		UNKNOWN(42.38)	184 J	42.38
	LL012657A		UNKNOWN(49.55)	25 J	49.55
	LL012657A		UNKNOWN(52.76)	90 J	52.76
	LL012657A		UNKNOWN(55.87)	78 J	55.87
	LL012657A		UNKNOWN(58.41)	108 J	58.41
	LL012975A		UNKNOWN(37.3)	66 J	37.30
	LL012975A		UNKNOWN(4.1)	6 J	4.10
<b>0917</b>					
	LL038022A		UNKNOWN(19.59)	8 J	19.59



TABLE D.8 ANALYTICAL DATA SUMMARY FOR TRAVEL BLANKS

AREA	TRIP BLANK TRIP BLANK LLN02013A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN05016A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN07018A WATER UG/L 99	MATRIX SPIKE LLN07018A WATER UG/L 99	MS X RECOVERY LLN07018A WATER X 99	QA	QA	QA	QA	RPD	MATRIX SPIKE DUPLICATE LLN07018A WATER UG/L 99
ACETONE	63 B	13 B	13 B	16 B	107					10	17 B
BENZENE	5 U	5 U	4 J	68 MS						61 MS	5 U
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U						5 U	5 U
BROMOFORM	5 U	5 U	5 U	5 U						105 U	105 U
BROMOMETHANE	10 U	10 U	105 U	105 U						105 U	105 U
CARBON DISULFIDE	5 U	5 U	5 U	5 U						5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	60 MS						60 MS	60 MS
CHLOROBENZENE	5 U	5 U	5 U	105 U						105 U	105 U
CHLOROETHANE	10 U	10 U	105 U	105 U						105 U	105 U
CHLOROFORM	5 U	5 U	105 U	105 U						105 U	105 U
CHLORMETHANE	10 U	10 U	105 U	105 U						105 U	105 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	34 J						2 J	36 B
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U						5 U	5 U
ETHYLBENZENE	13 B	12 B	13 B	34 J						5 U	5 U
METHYLENE CHLORIDE	5 U	5 U	5 U	5 U						5 U	5 U
STYRENE	13 B	12 B	13 B	64 MS						60 MS	60 MS
TETRACHLOROETHENE	5 U	5 U	5 U	67 MS						61 MS	61 MS
TOLUENE	11 J	11 J	11 J	10 U						10 U	10 U
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	10 U						10 U	10 U
TRICHLOROETHENE	5 U	5 U	5 U	10 U						10 U	10 U
VINYL ACETATE	10 U	10 U	10 U	10 U						10 U	10 U
VINYL CHLORIDE	10 U	10 U	10 U	10 U						10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U	10 U						10 U	10 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U						5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	69 MS						68 MS	68 MS
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U						5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U						5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U						5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U						5 U	5 U
1,2-DICHLOROETHENE	5 U	5 U	5 U	5 U						5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U						5 U	5 U
2-BUTANONE	10 U	10 U	10 U	10 U						10 U	10 U
2-HEXANONE	10 U	10 U	10 U	10 U						10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U						10 U	10 U
SURR 1(TOL) %RECOVERY	94	102	100	108						99	
SURR 2(BFB) %RECOVERY	107	106	111	113						106	
SURR 3(DCE) %RECOVERY	96	100	95	98						97	
INTERNAL STD AREA(BCM)	4050000	3920000	4220000	3900000						3800000	

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TABLE D.8 ANALYTICAL DATA SUMMARY FOR TRAVEL BLANKS

AREA		QA	QA	QA	QA
LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	MATRIX SPIKE	MATRIX SPIKE
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	RECOVERY %	DUPPLICATE
SAMPLE NUMBER	LLN02013A	LLN05016A	LLN07018A	LLN07018A	LLN07018A
MATRIX	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	99	99	99	99	99
INTERNAL STD AREA(CBZ)	2E+07	2E+07	2E+07	2E+07	2E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR	1	1	1	1	1
ACTUAL(ALLOWED) HOLD TIME	3(14 D)	4(14 D)	4(14 D)	4(14 D)	4(14 D)
AREA	QA				
LOCATION	MSDPC	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
TYPE OF LOCATION	LLN07018A	LLN09010A	LLN15018A	LLN14017A	LLN19012A
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER
MATRIX	%	UG/L	UG/L	UG/L	UG/L
UNITS	99	99	99	99	99
ENV PROBLEM NO					
ACETONE		16 B	10 U	10 U	19 B
BENZENE	96	5 U	5 U	5 U	5 U
BROMODICHLOROMETHANE		5 U	5 U	5 U	5 U
BROMOFORM		5 U	5 U	5 U	5 U
BROMOMETHANE		10 U	10 U	10 U	10 U
CARBON DISULFIDE		5 U	5 U	5 U	5 U
CARBON TETRACHLORIDE		5 U	5 U	5 U	5 U
CHLOROBENZENE	93	5 U	5 U	5 U	5 U
CHLOROETHANE		10 U	10 U	10 U	10 U
CHLOROFORM		5 U	19	18	12
CHLOROMETHANE		10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		5 U	5 U	5 U	5 U
DIBROMOCHLOROMETHANE		5 U	5 U	5 U	5 U
ETHYLBENZENE		1 JB	1 JB	1 JB	1 JB
METHYLENE CHLORIDE		13 B	5 U	2 JB	3 JB
STYRENE		5 U	5 U	5 U	5 U
TETRACHLOROETHENE		5 U	5 U	5 U	5 U
TOLUENE	97	1 JB	2 JB	2 JB	2 JB
TRANS-1,3-DICHLOROPROPENE		5 U	5 U	5 U	5 U
TRICHLOROETHENE	95	5 U	5 U	5 U	5 U
VINYL ACETATE		10 U	10 U	10 U	10 U
VINYL CHLORIDE		10 U	10 U	10 U	10 U

TABLE D.8 ANALYTICAL DATA SUMMARY FOR TRAVEL BLANKS

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AREA

QA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	MSDPC LLN07018A WATER %	TRIP BLANK TRIP BLANK WATER UG/L 99	TRIP BLANK TRIP BLANK WATER UG/L 99	TRIP BLANK LLN14017A WATER UG/L 99	TRIP BLANK LLN19012A WATER UG/L 99	TRIP BLANK LLN31018A WATER UG/L 99	TRIP BLANK LLN27012A WATER UG/L 99
XYLENE (TOTAL)		5 U	5 U	5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	113	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-DICHLOROETHANE		5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE		5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHENE		5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE		10 U	10 U	10 U	10 U	10 U	10 U
2-BUTANONE		10 U	10 U	10 U	10 U	10 U	10 U
2-HEXANONE		10 U	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE		10 U	10 U	10 U	10 U	10 U	10 U
SURR 1(TOL) %RECOVERY		98	95	98	92	102	96
SURR 2(BFB) %RECOVERY		107	110	104	100	104	108
SURR 3(DCE) %RECOVERY		109	109	99	102	99	97
INTERNAL STD AREA(BCM)	3330000	3190000	3160000	3240000	2590000	2550000	
INTERNAL STD AREA(CBZ)	2E+07	1E+07	2E+07	2E+07	1E+07	1E+07	
INTERNAL STD AREA(DBF)	2E+07	2E+07	2E+07	2E+07	1E+07	1E+07	
DILUTION FACTOR ACTUAL(ALLOWED) HOLD TIME	5(14 D)	7(14 D)	8(14 D)	8(14 D)	12(14 D)	12(14 D)	12(14 D)

AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	TRIP BLANK TRIP BLANK LLN29014A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN33010A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN12015A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN23018A WATER UG/L 99
ACETONE	11 B	96 B	12 B	10 B
BENZENE	5 U	5 U	5 U	5 U
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U
BROMOFORM	5 U	5 U	5 U	5 U

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TABLE D.8 ANALYTICAL DATA SUMMARY FOR TRAVEL BLANKS

## AREA

LOCATION TYPE OF LOCATION SAMPLE NUMBER MATRIX UNITS ENV PROBLEM NO	TRIP BLANK TRIP BLANK LLN29014A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN33010A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN12015A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN23018A WATER UG/L 99
BROMOMETHANE	10 U	10 U	10 U	10 U
CARBON DISULFIDE	5 UU	5 UU	5 UU	5 UU
CARBON TETRACHLORIDE	5 UU	5 UU	5 UU	5 UU
CHLOROBENZENE	5 UU	5 UU	5 UU	5 UU
CHLOROETHANE	10 U	10 U	10 U	10 U
CHLOROFORM	13 U	5 UU	5 UU	15 U
CHLOROMETHANE	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	5 UU	5 UU	5 UU	5 UU
DI-BROMOCHLOROMETHANE	5 UU	5 UU	5 UU	5 UU
ETHYL BENZENE	1 JB	1 JB	3 JB	3 JB
METHYLENE CHLORIDE	3 JU	0.9 JB	5 UU	5 UU
STYRENE	5 UU	5 UU	5 UU	5 UU
TETRA-CHLOROETHENE	5 UU	5 UU	5 UU	5 UU
TOLUENE	2 JB	1 JB	5 UU	5 UU
TRANS-1,3-DICHLOROPROPENE	5 UU	5 UU	5 UU	5 UU
TRICHLOROETHENE	5 UU	5 UU	5 UU	5 UU
VINYL ACETATE	10 UU	10 UU	10 UU	10 UU
VINYL CHLORIDE	10 UU	10 UU	10 UU	10 UU
XYLENE (TOTAL)	5 UU	5 UU	5 UU	5 UU
1,1-DICHLOROETHANE	5 UU	5 UU	5 UU	5 UU
1,1-DICHLOROETHENE	5 UU	5 UU	5 UU	5 UU
1,1,1-TRICHLOROETHANE	5 UU	5 UU	5 UU	5 UU
1,1,2-TRICHLOROETHANE	5 UU	5 UU	5 UU	5 UU
1,1,2,2-TETRA-CHLOROETHANE	5 UU	5 UU	5 UU	5 UU
1,2-DICHLOROETHANE	5 UU	5 UU	5 UU	5 UU
1,2-DICHLOROETHENE	5 UU	5 UU	5 UU	5 UU
1,2-DICHLOROPROPANE	5 UU	5 UU	5 UU	5 UU
2-BUTANONE	10 UU	10 UU	10 UU	10 UU
2-HEXANONE	10 UU	10 UU	10 UU	10 UU
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U
SURR 1(TOL) %RECOVERY	100	101	104	106
SURR 2(BFB) %RECOVERY	103	98	99	95
SURR 3(DCE) %RECOVERY	97	97	101	100
INTERNAL STD AREA(BCM)	2590000	2780000	1990000	1100000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	7150000	4070000
INTERNAL STD AREA(DFB)	1E+07	2E+07	8840000	4780000
DILUTION FACTOR	1	1	1	1

TABLE D.8 ANALYTICAL DATA SUMMARY FOR TRAVEL BLANKS

AREA	TRIP BLANK TRIP BLANK LLN29014A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN33010A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN12015A WATER UG/L 99	TRIP BLANK TRIP BLANK LLN23018A WATER UG/L 99
ACTUAL(ALLOWED) HOLD TIME	12(14 D)	12(14 D)	32(14 D)	32(14 D)

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Revision: 01

**Appendix E**  
**RADIOLOGICAL QC DATA TABLES**



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## **Appendix E**

**The QC data for radiological (RAD) analysis are presented in this appendix.**

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## Summary of Sources for Standard and Spike Materials for LLNL/SNLL Samples

### Mixed Gamma Standard:

RNS2-60: Made from Amersham QCY.44 Std. (1 mL/900 mL)

Isotopes present (Referenced to 2/1/87):

Name	Half-life	Conc.(pCi/L)
Ce-139	137.6 d	1350
Sn-113	115.1 d	5350
Cs-137	30.17 y	4600
Y-88	106.6 d	10540
Co-60	5.272 y	5300

### Uranium Standard:

RNS2-7: Made from NBS SRM 4321 Std.

Isotopes present:

Name	Half-life	Conc.(pCi/mL)
U-234	2.45 E5 y	3.76
U-235	7.04 E8 y	0.17
U-238	4.47 E9 y	3.76

### Tritium Standard:

RNS1-131A: Made from NBS 4926-C Std.

595 pCi/mL of tritium @ 5/30/86

### Gross Alpha and Beta Standard:

RNS2-31A: Made from a mixture of 2 standards - RNS1-8A (containing Am-243 for the alpha) and RNS1-98, made from Amersham SIZ.64 (containing Sr-90 and Y-90 for the beta).

### Combined activities:

Alpha: 498 pCi/mL

Beta: 1380 pCi/mL

### Mixed Gamma Spike:

RNS2-30A: Also made from Amersham QCY.44 Std. (1 mL/500 mL)

Isotopes present (Referenced to 2/1/87):

Name	Half-life	Conc.(pCi/mL)
Ce-139	137.6 d	120
Sn-113	115.1 d	480
Cs-137	30.17 y	410
Y-88	106.6 d	950
Co-60	5.272 y	480

All other spikes used were aliquots taken from the standards listed above.

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

CONTROL I.D. OR SAMPLE ID	RADIOMUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
LL002031E	G-ALPH	5100000.00	4930000	3.40	PCI/KGD	LB-5100	01SEP1987	MS
LL002031E	H-3	165000.00	156000.00	5.80	PCI/KGD	PACKARD	19OCT1987	MS
LL002031I	GROSS-BETA	13600000.00	13700000	-0.70	PCI/L	LB-5100	01SEP1987	MS
LL002031J	U-234	19.30	18.90	2.10	PCI/L	ND-9900	06OCT1987	MS
LL002031J	U-238	19.90	18.80	5.90	PCI/L	ND-9900	06OCT1987	MS
LL003043H	CO-60	4.90			PCI/L		24AUG1987	DUP
LL003043H	CS-137	3.50			PCI/L		24AUG1987	DUP
LL004033E	H-3	120000.00			PCI/KGD		02SEP1987	DUP
LL004033E	GROSS-BETA	22000.00			PCI/KGD		21AUG1987	DUP
LL004033E	G-ALPH	11000.00			PCI/KGD		21AUG1987	DUP
LL004033E	CO-60	68.00			PCI/KGD		27AUG1987	DUP
LL004033E	K-40	30000.00			PCI/KGD		27AUG1987	DUP
LL004033E	CS-137	49.00			PCI/KGD		27AUG1987	DUP
LL005034E	H-3	120000.00			PCI/KGD		03SEP1987	DUP
LL005034E	CS-137	70.00			PCI/KGD		04SEP1987	DUP
LL005034E	GROSS-BETA	30000.00			PCI/KGD		01SEP1987	DUP
LL005034E	G-ALPH	2700.00			PCI/KGD		01SEP1987	DUP
LL005034E	CO-60	26.00			PCI/KGD		04SEP1987	DUP
LL005034E	K-40	11000.00			PCI/KGD		04SEP1987	DUP
LL006035E	H-3	332000.00	345000.00	-3.80	PCI/KGD	PACKARD	03SEP1987	MS
LL006035E	G-ALPH	4070000.00	4960000	-17.90	PCI/KGD	LB-5100	04SEP1987	MS
LL006035E	GROSS-BETA	13000000.00	13700000	-5.10	PCI/KGD	LB-5100	04SEP1987	MS
LL007036E	CO-60	16.00			PCI/KGD		15SEP1987	DUP
LL007036E	GROSS-BETA	26000.00			PCI/KGD		03SEP1987	DUP
LL007036E	G-ALPH	5700.00			PCI/KGD		03SEP1987	DUP
LL007036E	H-3	1600.00			PCI/KGD		16OCT1987	DUP
LL007036E	CS-137	18.00			PCI/KGD		15SEP1987	DUP
LL007036E	K-40	12000.00			PCI/KGD		15SEP1987	DUP
LL008037E	GROSS-BETA	13200000.00	13800000	-4.30	PCI/KGD	LB-5100	05SEP1987	MS
LL008037E	H-3	200000.00	197000.00	1.50	PCI/KGD	PACKARD	16OCT1987	MS
LL009038E	CO-60	19.00			PCI/KGD		18SEP1987	DUP
LL009038E	GROSS-BETA	21000.00			PCI/KGD		04SEP1987	DUP
LL009038E	K-40	12000.00			PCI/KGD		18SEP1987	DUP
LL009038E	G-ALPH	6800.00			PCI/KGD		04SEP1987	DUP
LL009038E	H-3	3000.00			PCI/KGD		05OCT1987	DUP
LL009038E	CS-137	20.00			PCI/KGD		18SEP1987	DUP
LL011010E	GROSS-BETA	26000.00			PCI/KGD		29SEP1987	DUP
LL011010E	CS-137	32.00			PCI/KGD		200CT1987	DUP
LL011010E	CO-60	18.00			PCI/KGD		200CT1987	DUP
LL011010E	K-40	12000.00			PCI/KGD		200CT1987	DUP
LL011010E	G-ALPH	5400.00			PCI/KGD		29SEP1987	DUP
LL011010E	H-3	22000.00			PCI/KGD		13OCT1987	DUP
LL012055D	G-ALPH	20.00			PCI/L		15SEP1987	DUP
LL012055D	CO-60	3.80			PCI/L		08SEP1987	DUP
LL012055D	CS-137	3.20			PCI/L		08SEP1987	DUP
LL012055D	GROSS-BETA	27.00			PCI/L		15SEP1987	DUP
LL012088D	GROSS-BETA	143000.00	138000.00	3.60	PCI/L	LB-5100	12SEP1987	MS
LL012088D	G-ALPH	51500.00	49800.00	3.40	PCI/L	LB-5100	12SEP1987	MS
LL012088D	CE-139	76.00	98.20	-22.60	PCI/L	ND-9900	06SEP1987	MS
LL012088D	SN-113	270.00	326.00	-17.20	PCI/L	ND-9900	06SEP1987	MS
LL012088D	CS-137	757.00	818.00	-7.50	PCI/L	ND-9900	06SEP1987	MS
LL012088D	Y-88	540.00	589.00	-8.30	PCI/L	ND-9900	06SEP1987	MS
LL012088D	CO-60	811.00	891.00	-9.00	PCI/L	ND-9900	06SEP1987	MS

TABLE E-1 QC RADILOGICAL SAMPLE DATA

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
LL012215D	CS-137	4.90			PCI/L		09OCT1987	DUP
LL012215D	G-ALPH	18.00			PCI/L		06OCT1987	DUP
LL012215D	CO-60	5.10			PCI/L		09OCT1987	DUP
LL012215D	GROSS-BETA	27.00			PCI/L		06OCT1987	DUP
LL012259E	GROSS-BETA	35.00			PCI/L		27AUG1987	DUP
LL012259E	CO-60	4.00			PCI/L		26AUG1987	DUP
LL012259E	CS-137	3.00			PCI/L		26AUG1987	DUP
LL012259E	G-ALPH	8.00			PCI/L		27AUG1987	DUP
LL012282E	GROSS-BETA	139000.00	1380000	0.70	PCI/L	LB-5100	12SEP1987	MS
LL012282E	CE-139	73.00	93.40	-21.80	PCI/L	ND-9900	18SEP1987	MS
LL012282E	SN-113	241.00	306.00	-21.20	PCI/L	ND-9900	18SEP1987	MS
LL012282E	CS-137	757.00	817.00	-7.30	PCI/L	ND-9900	18SEP1987	MS
LL012282E	Y-88	514.00	552.00	-6.90	PCI/L	ND-9900	18SEP1987	MS
LL012282E	CO-60	811.00	887.00	-8.60	PCI/L	ND-9900	18SEP1987	MS
LL012282E	G-ALPH	48000.00	49800.00	-3.60	PCI/L	ND-9900	12SEP1987	MS
LL012293D	GROSS-BETA	140000.00	138000.00	1.40	PCI/L	LB-5100	15SEP1987	MS
LL012293D	CE-139	81.10	93.40	-13.20	PCI/L	ND-9900	17SEP1987	MS
LL012293D	SN-113	246.00	306.00	-19.60	PCI/L	ND-9900	17SEP1987	MS
LL012293D	CS-137	757.00	817.00	-7.30	PCI/L	ND-9900	17SEP1987	MS
LL012293D	Y-88	514.00	552.00	-6.90	PCI/L	ND-9900	17SEP1987	MS
LL012293D	CO-60	811.00	887.00	-8.60	PCI/L	ND-9900	17SEP1987	MS
LL012704D	GROSS-BETA	32.00			PCI/L		12SEP1987	DUP
LL012704D	CS-137	4.00			PCI/L		08SEP1987	DUP
LL012704D	G-ALPH	8.00			PCI/L		12SEP1987	DUP
LL012704D	CO-60	4.00			PCI/L		08SEP1987	DUP
LL017016H	GROSS-BETA	134000.00	138000.00	-2.90	PCI/L	LB-5100	17SEP1987	MS
LL017016H	G-ALPH	43100.00	49800.00	-13.50	PCI/L	LB-5100	17SEP1987	MS
LL019018H	GROSS-BETA	97.00			PCI/L		10SEP1987	DUP
LL019018H	G-ALPH	14.00			PCI/L		10SEP1987	DUP
LL022013I	H-3	350.00			PCI/L		19OCT1987	DUP
LL022024I	CE-139	919.00	982.00	-6.40	PCI/L	ND-9900	24AUG1987	MS
LL022024I	SN-113	3324.00	3256.00	2.10	PCI/L	ND-9900	24AUG1987	MS
LL022024I	CS-137	8675.00	8176.00	6.10	PCI/L	ND-9900	24AUG1987	MS
LL022024I	Y-88	5865.00	5888.00	-0.40	PCI/L	ND-9900	24AUG1987	MS
LL022024I	CO-60	8838.00	8908.00	-0.80	PCI/L	ND-9900	24AUG1987	MS
LL022024I	GROSS-BETA	140000.00	138000.00	1.40	PCI/L	LB-5100	01SEP1987	MS
LL022024I	G-ALPH	47000.00	49800.00	-5.60	PCI/L	LB-5100	01SEP1987	MS
LL022024I	H-3	10900.00	11000.00	-0.90	PCI/L	PACKARD	19OCT1987	MS
LL024015J	H-3	12100.00	11800.00	2.50	PCI/L	PACKARD	15OCT1987	MS
LL024015K	G-ALPH	86.00			PCI/L		05OCT1987	DUP
LL024015K	CS-137	3.00			PCI/L		11SEP1987	DUP
LL024015K	CO-60	3.20			PCI/L		11SEP1987	DUP
LL024015K	GROSS-BETA	120.00			PCI/L		05OCT1987	DUP
LL026017K	GROSS-BETA	62.00			PCI/L		18SEP1987	DUP
LL026017K	G-ALPH	0.00			PCI/L		18SEP1987	DUP
LL026017K	U-234	0.78			PCI/L		06OCT1987	DUP
LL026017K	CS-137	3.00			PCI/L		17SEP1987	DUP
LL026017K	U-235	0.19			PCI/L		06OCT1987	DUP
LL026017K	U-238	3.20			PCI/L		06OCT1987	DUP
LL026017K	CO-60	4.00			PCI/L		17SEP1987	DUP
LL029032D	CO-60	23.00			PCI/KGD		17NOV1987	DUP
LL029032D	K-40	12000.00			PCI/KGD		17NOV1987	DUP
LL029032D	CS-137	270.00			PCI/KGD		17NOV1987	DUP

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
LL029032D	G-ALPH	9500.00			PCI/KGD		06SEP1987	DUP
LL029032D	GROSS-BETA	24000.00			PCI/KGD		06SEP1987	DUP
LL031047F	K-40	12000.00			PCI/KGD		24SEP1987	DUP
LL031047F	GROSS-BETA	22000.00			PCI/KGD		09SEP1987	DUP
LL031047F	CO-60	27.00			PCI/KGD		24SEP1987	DUP
LL031047F	G-ALPH	2200.00			PCI/KGD		09SEP1987	DUP
LL031047F	CS-137	40.00			PCI/KGD		24SEP1987	DUP
LL031092F	G-ALPH	6800.00			PCI/KGD		09SEP1987	DUP
LL031092F	GROSS-BETA	22000.00			PCI/KGD		09SEP1987	DUP
LL031092F	K-40	12000.00			PCI/KGD		01OCT1987	DUP
LL031092F	CS-137	180.00			PCI/KGD		01OCT1987	DUP
LL031092F	CO-60	30.00			PCI/KGD		01OCT1987	DUP
LL034017F	U-238	570.00			PCI/KGD		07OCT1987	DUP
LL034017F	GROSS-BETA	19000.00			PCI/KGD		05OCT1987	DUP
LL034017F	G-ALPH	6500.00			PCI/KGD		05OCT1987	DUP
LL034017F	U-235	36.00			PCI/KGD		07OCT1987	DUP
LL034017F	U-234	420.00			PCI/KGD		07OCT1987	DUP
LL034017F	K-40	16000.00			PCI/KGD		21OCT1987	DUP
LL034017F	CO-60	26.00			PCI/KGD		21OCT1987	DUP
LL034017F	CS-137	32.00			PCI/KGD		21OCT1987	DUP
LL034028F	U-234	670.00			PCI/KGD		19OCT1987	DUP
LL034028F	U-238	850.00			PCI/KGD		19OCT1987	DUP
LL034028F	U-235	200.00			PCI/KGD		19OCT1987	DUP
LL034120F	GROSS-BETA	12000000.00	13400000	-10.40	PCI/KGD	LB-5100	13OCT1987	MS
LL034120F	GROSS-BETA	12200000.00	14100000	-13.50	PCI/KGD	LB-5100	13OCT1987	MS
LL034120F	G-ALPH	1840000.00	4840000	-62.00	PCI/KGD	LB-5100	06OCT1987	MS
LL034120F	G-ALPH	3510000.00	5100000	-31.20	PCI/KGD	LB-5100	13NOV1987	MS
LL034120F	U-234	1214.00	1269.00	-4.30	PCI/KGD	ND-9900	19OCT1987	MS
LL034120F	U-238	1705.00	1608.00	6.00	PCI/KGD	ND-9900	19OCT1987	MS
LL036133E	GROSS-BETA	12800000.00	14100000	-9.20	PCI/KGD	LB-5100	06SEP1987	MS
LL036133E	GROSS-BETA	11100000.00	13000000	-14.60	PCI/KGD	LB-5100	06SEP1987	MS
LL036133E	G-ALPH	3380000.00	5100000	-33.70	PCI/KGD	LB-5100	06SEP1987	MS
LL036133E	G-ALPH	2830000.00	4710000	-39.90	PCI/KGD	LB-5100	06SEP1987	MS
LL037032F	G-ALPH	12000.00			PCI/KGD		02SEP1987	DUP
LL037032F	GROSS-BETA	20000.00			PCI/KGD		02SEP1987	DUP
LL037032F	H-3	2300.00			PCI/KGD		15OCT1987	DUP
LL038055E	CS-137	120.00			PCI/KGD		24SEP1987	DUP
LL038055E	G-ALPH	2300.00			PCI/KGD		08SEP1987	DUP
LL038055E	H-3	300.00			PCI/KGD		05OCT1987	DUP
LL038055E	GROSS-BETA	15000.00			PCI/KGD		08SEP1987	DUP
LL038055E	CO-60	30.00			PCI/KGD		24SEP1987	DUP
LL038055E	K-40	12000.00			PCI/KGD		24SEP1987	DUP
LL039012E	CS-137	32.00			PCI/KGD		01SEP1987	DUP
LL039012E	CO-60	30.00			PCI/KGD		01SEP1987	DUP
LL039012E	GROSS-BETA	27000.00			PCI/KGD		01SEP1987	DUP
LL039012E	K-40	10000.00			PCI/KGD		01SEP1987	DUP
LL039012E	G-ALPH	0.00			PCI/KGD		01SEP1987	DUP
LL039012E	H-3	110000.00			PCI/KGD		03SEP1987	DUP
LL039012E	G-ALPH	4690000.00	5490000	-14.60	PCI/KGD	LB-5100	03SEP1987	MS
LL039023E	H-3	323000.00	357000.00	-9.50	PCI/KGD	PACKARD	03SEP1987	MS
LL039023E	GROSS-BETA	14300000.00	15200000	-8.90	PCI/KGD	LB-5100	03SEP1987	MS
LL040037C	H-3	1000.00			PCI/KGD		16OCT1987	DUP
LL044100C	G-ALPH	51.00			PCI/L		29AUG1987	DUP

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
LL044100C	GROSS-BETA	51.00			PCI/L		29AUG1987	DUP
LL044100C	CS-137	4.90			PCI/L		26AUG1987	DUP
LL044100C	CO-60	4.90			PCI/L		26AUG1987	DUP
LL912021D	G-ALPH	38.00			PCI/L		10SEP1987	DUP
LL912021D	GROSS-BETA	380.00			PCI/L		10SEP1987	DUP
LL912021D	EU-152	40.00			PCI/L		10SEP1987	DUP
LL912021D	CO-60	4.00			PCI/L		10SEP1987	DUP
LL912021D	CS-137	15.00			PCI/L		10SEP1987	DUP
LL912043D	G-ALPH	0.00			PCI/L		10SEP1987	DUP
LL912043D	GROSS-BETA	78.00			PCI/L		10SEP1987	DUP
LL912043D	CO-60	4.60			PCI/L		18SEP1987	DUP
LL912043D	CS-137	7.30			PCI/L		18SEP1987	DUP
LL912043D	GROSS-BETA	129000.00	138000.00	-6.50	PCI/L	LB-5100	18SEP1987	MS
LL912043D	GROSS-BETA	142000.00	138000.00	2.90	PCI/L	LB-5100	13NOV1987	MS
LL912043D	G-ALPH	42200.00	49800.00	-15.30	PCI/L	LB-5100	18SEP1987	MS
LL912043D	G-ALPH	49800.00	49800.00		PCI/L	LB-5100	13NOV1987	MS
LL912043D	CE-139	62.00	51.80	19.70	PCI/L	ND-9900	10OCT1987	MS
LL912043D	SN-113	192.00	170.00	12.90	PCI/L	ND-9900	10OCT1987	MS
LL912043D	CS-137	514.00	454.00	13.20	PCI/L	ND-9900	10OCT1987	MS
LL912043D	Y-88	324.00	306.00	5.90	PCI/L	ND-9900	10OCT1987	MS
LL912043D	CO-60	541.00	493.00	9.70	PCI/L	ND-9900	10OCT1987	MS
NBS4354	U-234	18.70	19.40	-3.60	PCI/KGD	ND-9900	08OCT1987	CNTRL
NBS4354	U-238	16.90	17.40	-2.90	PCI/KGD	ND-9900	08OCT1987	CNTRL
RNS1-131A	H-3	563000.00	551000.00	2.20	PCI/L	PACKARD	19OCT1987	CNTRL
RNS1-131A	H-3	568000.00	554000.00	2.50	PCI/L	PACKARD	15OCT1987	CNTRL
RNS1-131A	H-3	528000.00	551000.00	-4.20	PCI/L	PACKARD	16OCT1987	CNTRL
RNS1-131A	H-3	564000.00	551000.00	2.40	PCI/L	PACKARD	16OCT1987	CNTRL
RNS1-131A	H-3	564000.00	551000.00	2.40	PCI/L	PACKARD	05OCT1987	CNTRL
RNS1-131A	H-3	516000.00	551000.00	-6.30	PCI/L	PACKARD	16OCT1987	CNTRL
RNS1-131A	H-3	546000.00	551000.00	0.90	PCI/L	PACKARD	13OCT1987	CNTRL
RNS1-131A	H-3	546000.00	551000.00	-9.10	PCI/L	PACKARD	13OCT1987	CNTRL
RNS1-131A	H-3	546000.00	551000.00	-9.10	PCI/L	PACKARD	15OCT1987	CNTRL
RNS1-131A	H-3	528000.00	551000.00	-4.20	PCI/L	PACKARD	13OCT1987	CNTRL
RNS1-131A	H-3	546000.00	551000.00	-9.10	PCI/L	PACKARD	01SEP1987	CNTRL
RNS1-31A	GROSS-BETA	1470000.00	1380000	6.50	PCI/L	LB-5100	02SEP1987	CNTRL
RNS2-131A	H-3	570000.00	554000.00	2.90	PCI/L	PACKARD	25AUG1987	CNTRL
RNS2-31A	G-ALPH	425000.00	498000.00	-14.70	PCI/L	LB-5100	25AUG1987	CNTRL
RNS2-31A	GROSS-BETA	1310000.00	1380000	-5.10	PCI/L	LB-5100	01SEP1987	CNTRL
RNS2-31A	GROSS-BETA	1340000.00	1380000	-2.90	PCI/L	LB-5100	01SEP1987	CNTRL
RNS2-31A	G-ALPH	427000.00	498000.00	-14.30	PCI/L	LB-5100	27AUG1987	CNTRL
RNS2-31A	G-ALPH	448000.00	498000.00	-10.00	PCI/L	LB-5100	29AUG1987	CNTRL
RNS2-31A	GROSS-BETA	1360000.00	1380000	-1.40	PCI/L	LB-5100	29AUG1987	CNTRL
RNS2-31A	G-ALPH	445000.00	498000.00	-10.60	PCI/L	LB-5100	01SEP1987	CNTRL
RNS2-31A	G-ALPH	542000.00	498000.00	8.80	PCI/KGD	LB-5100	04SEP1987	CNTRL
RNS2-31A	GROSS-BETA	1340000.00	1380000	-2.90	PCI/L	LB-5100	04SEP1987	CNTRL
RNS2-31A	G-ALPH	438000.00	498000.00	-12.00	PCI/L	LB-5100	04SEP1987	CNTRL
RNS2-31A	G-ALPH	431000.00	498000.00	-13.50	PCI/L	LB-5100	04SEP1987	CNTRL
RNS2-31A	GROSS-BETA	1350000.00	1380000	-0.70	PCI/L	LB-5100	05SEP1987	CNTRL
RNS2-31A	GROSS-BETA	1460000.00	1380000	5.80	PCI/L	LB-5100	05SEP1987	CNTRL
RNS2-31A	G-ALPH	542000.00	498000.00	8.80	PCI/L	LB-5100	06SEP1987	CNTRL
RNS2-31A	GROSS-BETA	1320000.00	1380000	-2.90	PCI/L	LB-5100	06SEP1987	CNTRL
RNS2-31A	G-ALPH	405000.00	498000.00	-18.70	PCI/L	LB-5100	06SEP1987	CNTRL
RNS2-31A	GROSS-BETA	1310000.00	1380000	-5.10	PCI/L	LB-5100	13OCT1987	CNTRL

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

CONTROL I.D. OR SAMPLE ID	RADIOMUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
RNS2-31A	G-ALPH	402000.00	498000.00	-19.30	PCI/L	LB-5100	06OCT1987	CNTRL
RNS2-31A	GROSS-BETA	1350000.00	1380000	-2.20	PCI/L	LB-5100	18SEP1987	CNTRL
RNS2-31A	G-ALPH	413000.00	49800.00	-17.10	PCI/L	LB-5100	18SEP1987	CNTRL
RNS2-31A	G-ALPH	504000.00	498000.00	1.00	PCI/L	LB-5100	10OCT1987	CNTRL
RNS2-31A	GROSS-BETA	1420000.00	1380000	2.90	PCI/L	LB-5100	10OCT1987	CNTRL
RNS2-31A	GROSS-BETA	1430000.00	1380000	3.60	PCI/L	LB-5100	18SEP1987	CNTRL
RNS2-31A	G-ALPH	525000.00	498000.00	5.40	PCI/L	LB-5100	18SEP1987	CNTRL
RNS2-31A	GROSS-BETA	1440000.00	1380000	4.30	PCI/L	LB-5100	05OCT1987	CNTRL
RNS2-31A	G-ALPH	522000.00	498000.00	4.30	PCI/L	LB-5100	05OCT1987	CNTRL
RNS2-31A	GROSS-BETA	1460000.00	1380000	5.80	PCI/L	LB-5100	12SEP1987	CNTRL
RNS2-31A	GROSS-BETA	1460000.00	1380000	5.60	PCI/L	LB-5100	15SEP1987	CNTRL
RNS2-31A	G-ALPH	539000.00	498000.00	8.20	PCI/L	LB-5100	15SEP1987	CNTRL
RNS2-31A	G-ALPH	415000.00	498000.00	-16.70	PCI/L	LB-5100	06SEP1987	CNTRL
RNS2-31A	GROSS-BETA	1330000.00	1380000	-3.60	PCI/KGD	LB-5100	06SEP1987	CNTRL
RNS2-31A	G-ALPH	541000.00	498000.00	8.60	PCI/L	ND-9900	12SEP1987	CNTRL
RNS2-31A	G-ALPH	423000.00	498000.00	-15.10	PCI/L	LB-5100	13OCT1987	CNTRL
RNS2-31A	GROSS-BETA	1330000.00	1380000	-3.60	PCI/L	LB-5100	13OCT1987	CNTRL
RNS2-31A	GROSS-BETA	1240000.00	1380000	-10.10	PCI/L	LB-5100	05OCT1987	CNTRL
RNS2-31A	G-ALPH	400000.00	498000.00	-19.70	PCI/L	LB-5100	05OCT1987	CNTRL
RNS2-60	CE-139	945.00	860.00	9.90	PCI/L	ND-9900	03SEP1987	CNTRL
RNS2-60	SN-113	3915.00	3110.00	25.90	PCI/L	ND-9900	03SEP1987	CNTRL
RNS2-60	CS-137	5157.00	4570.00	12.80	PCI/L	ND-9900	03SEP1987	CNTRL
RNS2-60	Y-88	6372.00	5860.00	8.70	PCI/L	ND-9900	03SEP1987	CNTRL
RNS2-60	CO-60	5643.00	5140.00	9.80	PCI/L	ND-9900	03SEP1987	CNTRL
RNS2-60	CE-139	860.00	860.00		PCI/L	ND-9900	21AUG1987	CNTRL
RNS2-60	SN-113	3110.00	3110.00		PCI/L	ND-9900	21AUG1987	CNTRL
RNS2-60	CS-137	4680.00	4570.00	2.30	PCI/L	ND-9900	21AUG1987	CNTRL
RNS2-60	Y-88	5810.00	5860.00	-0.90	PCI/L	ND-9900	21AUG1987	CNTRL
RNS2-60	CO-60	5270.00	5140.00	2.50	PCI/L	ND-9900	21AUG1987	CNTRL
RNS2-60	CE-139	920.00	860.00	7.00	PCI/L	ND-9900	26AUG1987	CNTRL
RNS2-60	SN-113	391.69	3430.00	10.20	PCI/L	ND-9900	26AUG1987	CNTRL
RNS2-60	CS-137	4970.00	4570.00	8.80	PCI/L	ND-9900	26AUG1987	CNTRL
RNS2-60	Y-88	6140.00	5860.00	4.80	PCI/L	ND-9900	26AUG1987	CNTRL
RNS2-60	CO-60	5540.00	5140.00	7.80	PCI/L	ND-9900	26AUG1987	CNTRL
RNS2-60	CE-139	920.00	860.00	7.00	PCI/L	ND-9900	28AUG1987	CNTRL
RNS2-60	SN-113	3510.00	3110.00	12.90	PCI/L	ND-9900	28AUG1987	CNTRL
RNS2-60	CS-137	4970.00	4570.00	8.80	PCI/L	ND-9900	28AUG1987	CNTRL
RNS2-60	Y-88	6320.00	5860.00	7.80	PCI/L	ND-9900	28AUG1987	CNTRL
RNS2-60	CO-60	5540.00	5140.00	7.80	PCI/L	ND-9900	28AUG1987	CNTRL
RNS2-60	CE-139	920.00	860.00	7.00	PCI/L	ND-9900	28AUG1987	CNTRL
RNS2-60	SN-113	3510.00	3110.00	12.90	PCI/L	ND-9900	28AUG1987	CNTRL
RNS2-60	CS-137	4970.00	4570.00	8.80	PCI/L	ND-9900	28AUG1987	CNTRL
RNS2-60	Y-88	6320.00	5860.00	7.80	PCI/L	ND-9900	28AUG1987	CNTRL
RNS2-60	CO-60	5540.00	5140.00	7.80	PCI/L	ND-9900	28AUG1987	CNTRL
RNS2-60	CE-139	1590.00	1350.00	17.80	PCI/L	ND-9900	08SEP1987	CNTRL
RNS2-60	SN-113	6540.00	5350.00	22.20	PCI/L	ND-9900	08SEP1987	CNTRL
RNS2-60	CS-137	5030.00	4510.00	11.50	PCI/L	ND-9900	08SEP1987	CNTRL
RNS2-60	Y-88	11840.00	10540.00	12.30	PCI/L	ND-9900	08SEP1987	CNTRL
RNS2-60	CO-60	5760.00	5300.00	8.70	PCI/L	ND-9900	08SEP1987	CNTRL
RNS2-60	CE-139	1510.00	1350.00	11.90	PCI/L	ND-9900	06SEP1987	CNTRL
RNS2-60	SN-113	6510.00	5350.00	21.70	PCI/L	ND-9900	06SEP1987	CNTRL
RNS2-60	CS-137	4950.00	4590.00	7.80	PCI/L	ND-9900	06SEP1987	CNTRL
RNS2-60	Y-88	10970.00	10540.00	4.10	PCI/L	ND-9900	06SEP1987	CNTRL

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
RNS2-60	CO-60	5700.00	5300.00	7.50	PCI/L	ND-9900	06SEP1987	CNTRL
RNS2-60	CE-139	1460.00	1350.00	8.10	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	SN-113	8270.00	5350.00	50.60	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	CS-137	4780.00	4590.00	4.10	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	Y-88	10940.00	10540.00	3.80	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	CO-60	5350.00	5300.00	6.90	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	CE-139	1400.00	1350.00	3.70	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	SN-113	7350.00	5350.00	37.30	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	CS-137	4730.00	4590.00	3.10	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	Y-88	10840.00	10540.00	2.80	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	CO-60	5320.00	5300.00	0.40	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	CE-139	1460.00	1350.00	8.10	PCI/L	ND-9900	15OCT1987	CNTRL
RNS2-60	SN-113	7380.00	5350.00	37.90	PCI/L	ND-9900	15OCT1987	CNTRL
RNS2-60	CS-137	5000.00	4590.00	8.90	PCI/L	ND-9900	15OCT1987	CNTRL
RNS2-60	Y-88	11270.00	10540.00	6.90	PCI/L	ND-9900	15OCT1987	CNTRL
RNS2-60	CO-60	5860.00	5300.00	10.60	PCI/L	ND-9900	15OCT1987	CNTRL
RNS2-60	CE-139	1570.00	1350.00	16.30	PCI/L	ND-9900	06OCT1987	CNTRL
RNS2-60	SN-113	8160.00	5350.00	52.50	PCI/L	ND-9900	06OCT1987	CNTRL
RNS2-60	CS-137	4860.00	4590.00	5.90	PCI/L	ND-9900	06OCT1987	CNTRL
RNS2-60	Y-88	11350.00	10540.00	7.70	PCI/L	ND-9900	06OCT1987	CNTRL
RNS2-60	CO-60	5650.00	5300.00	6.60	PCI/L	ND-9900	06OCT1987	CNTRL
RNS2-60	CE-139	1490.00	1350.00	10.40	PCI/L	ND-9900	10SEP1987	CNTRL
RNS2-60	SN-113	6590.00	5350.00	23.20	PCI/L	ND-9900	10SEP1987	CNTRL
RNS2-60	CS-137	5000.00	4590.00	8.90	PCI/L	ND-9900	10SEP1987	CNTRL
RNS2-60	Y-88	11270.00	10540.00	6.90	PCI/L	ND-9900	10SEP1987	CNTRL
RNS2-60	CO-60	5760.00	5300.00	8.70	PCI/L	ND-9900	10SEP1987	CNTRL
RNS2-60	CE-139	1460.00	1350.00	8.20	PCI/L	ND-9900	08SEP1987	CNTRL
RNS2-60	SN-113	7430.00	5350.00	38.90	PCI/L	ND-9900	08SEP1987	CNTRL
RNS2-60	CS-137	5000.00	4590.00	8.90	PCI/L	ND-9900	08SEP1987	CNTRL
RNS2-60	Y-88	11320.00	10540.00	7.40	PCI/L	ND-9900	08SEP1987	CNTRL
RNS2-60	CO-60	5620.00	5300.00	6.00	PCI/L	ND-9900	08SEP1987	CNTRL
RNS2-60	CE-139	1490.00	1350.00	10.40	PCI/L	ND-9900	10NOV1987	CNTRL
RNS2-60	SN-113	7490.00	5350.00	40.00	PCI/L	ND-9900	10NOV1987	CNTRL
RNS2-60	CS-137	4700.00	4590.00	2.40	PCI/L	ND-9900	10NOV1987	CNTRL
RNS2-60	Y-88	10800.00	10540.00	2.50	PCI/L	ND-9900	10NOV1987	CNTRL
RNS2-60	CO-60	5400.00	5300.00	1.90	PCI/L	ND-9900	10NOV1987	CNTRL
RNS2-60	CE-139	1490.00	1350.00	10.40	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	SN-113	7840.00	5350.00	46.50	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	CS-137	5080.00	4590.00	10.70	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	Y-88	11490.00	10540.00	9.00	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-60	CO-60	5810.00	5400.00	7.60	PCI/L	ND-9900	22OCT1987	CNTRL
RNS2-71	U-234	3830.00	3770.00	1.60	PCI/L	ND-9900	16OCT1987	CNTRL
RNS2-71	U-238	3830.00	3760.00	1.90	PCI/L	ND-9900	16OCT1987	CNTRL
RNS2-71	U-234	3784.00	3757.00	0.70	PCI/L	ND-9900	19OCT1987	CNTRL
RNS2-71	U-238	3811.00	3757.00	1.40	PCI/L	ND-9900	19OCT1987	CNTRL
SN001042I	H-3	0.00			PCI/L		15OCT1987	DUP
SN002032E	H-3	242000.00	241000.00	0.40	PCI/KGD	PACKARD	13OCT1987	MS
SN002032E	GROSS-BETA	12400000.00	14000000	-11.40	PCI/KGD	LB-5100	28OCT1987	MS
SN002032E	G-ALPH	3700000.00	5040000	-26.60	PCI/KGD	LB-5100	28OCT1987	MS
SN007060D	U-234	130.00			PCI/KGD		29SEP1987	DUP
SN007060D	U-235	19.00			PCI/KGD		29SEP1987	DUP
SN007060D	U-238	100.00			PCI/KGD		29SEP1987	DUP
SN007060D	G-ALPH	5400.00			PCI/KGD		12OCT1987	DUP

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
SN007060D	GROSS-BETA	18000.00			PCI/KGD		12OCT1987	DUP
SN008038D	G-ALPH	4100.00			PCI/KGD		12OCT1987	DUP
SN008038D	GROSS-BETA	19000.00			PCI/KGD		12OCT1987	DUP
SN008038D	CS-137	25.00			PCI/KGD		04NOV1987	DUP
SN008038D	CO-60	35.00			PCI/KGD		04NOV1987	DUP
SN008038D	K-40	12000.00			PCI/KGD		04NOV1987	DUP
SN008049G	G-ALPH	44000.00	49800.00	-11.60	PCI/L	LB-5100	12OCT1987	MS
SN008049G	GROSS-BETA	131000.00	138000.00	-5.10	PCI/L	LB-5100	12OCT1987	MS
SN008049G	CE-139	78.40	92.00	-14.80	PCI/L	ND-9900	02NOV1987	MS
SN008049G	SN-113	257.00	301.00	27.90	PCI/L	ND-9900	02NOV1987	MS
SN008049G	CS-137	757.00	817.00	-7.30	PCI/L	ND-9900	02NOV1987	MS
SN008049G	Y-88	514.00	541.00	-5.00	PCI/L	ND-9900	02NOV1987	MS
SN008049G	CO-60	838.00	886.00	-5.40	PCI/L	ND-9900	02NOV1987	MS

**Table E.2. Alpha and Beta Standards Results (8/18/87-11/17/87)**

**Instrument: LB-5100**

Alpha Standard: RNS1-8A, Am-243, 2210 dpm @ 7/10/87  
Alpha Found:  $468 \pm 6$  cpm

Beta Standard: RNS2-40B, Sr-90 and Y-90, 6810 dpm @ 4/11/87  
Beta Found:  $3028 \pm 32$  cpm

**Instrument: LB-4000**

Beta Standard: RNS2-40B, Sr-90 and Y-90, 6810 dpm @ 4/11/87  
Beta Found:

Detector	#1:	$2323 \pm$	75
	#2:	$2352 \pm$	66
	#3:	$2331 \pm$	55
	#4:	$2485 \pm$	47
	#5:	$2450 \pm$	49
	#6:	$2319 \pm$	41
	#7:	$2389 \pm$	57
	#8:	$2376 \pm$	28
	#9:	$2431 \pm$	46
	#10:	$2309 \pm$	42
	#11:	$2639 \pm$	26
	#12:	$2536 \pm$	29

**Table E.3. LB-4000 Efficiencies and Backgrounds:**

(Efficiencies given are for betas only)

**Detector #1:**

<u>Date</u>	<u>Alpha Bkg.(cpm)</u>	<u>Beta Bkg.(cpm)</u>	<u>Eff. (%)</u>
8/3/87	0.02	0.69	34.28
8/10/87			33.79
8/11/87	0.02	0.69	
8/17/87	0.02	0.69	33.62
8/20/87	0.02	0.69	
8/24/87			33.68
8/29/87	0.02	0.69	
8/31/87			35.29
9/8/87	0.02	0.69	36.38
9/10/87	0.02	0.73	
9/14/87	0.02	0.71	
9/15/87			34.90
9/22/87			36.06
9/23/87	0.02	0.71	
9/30/87	0.02	0.70	35.16
10/5/87	0.02	0.70	
10/6/87			36.41
10/11/87	0.02	0.69	
10/13/87			34.28
10/19/87	0.02	0.69	
10/20/87			33.64
10/27/87			33.32
10/28/87	0.02	0.69	

Table E.3. LB-4000 Efficiencies and Backgrounds (cont.):  
(Efficiencies given are for betas only)

Detector #2:

<u>Date</u>	<u>Alpha Bkg. (cpm)</u>	<u>Beta Bkg. (cpm)</u>	<u>Eff. (%)</u>
8/1/87	0.03	0.95	35.39
8/3/87			35.42
8/10/87			
8/11/87	0.03	0.95	35.39
8/17/87	0.03	0.95	35.39
8/20/87	0.03	0.95	34.48
8/24/87			
8/29/87	0.03	0.95	35.62
8/31/87			35.62
9/8/87	0.03	0.80	
9/10/87	0.03	0.94	
9/14/87	0.03	0.80	
9/15/87			35.26
9/22/87			36.18
9/23/87	0.03	0.80	
9/30/87	0.03	0.77	36.44
10/5/87	0.03	0.77	
10/6/87			36.63
10/11/87	0.03	0.72	
10/13/87			34.27
10/19/87	0.03	0.72	
10/20/87			33.68
10/27/87			33.47
10/28/87	0.03	0.72	

**Table E.3. LB-4000 Efficiencies and Backgrounds (cont.):**

(Efficiencies given are for betas only)

**Detector #3:**

<u>Date</u>	<u>Alpha Bkg.(cpm)</u>	<u>Beta Bkg.(cpm)</u>	<u>Eff. (%)</u>
8/1/87	0.02	0.66	
8/3/87			34.41
8/10/87			34.14
8/11/87	0.02	0.66	
8/17/87	0.02	0.66	33.92
8/20/87	0.02	0.66	
8/24/87			33.79
8/29/87	0.02	0.66	
8/31/87			35.38
9/8/87	0.02	0.69	35.68
9/10/87	0.02	0.79	
9/14/87	0.02	0.75	
9/15/87			35.78
9/22/87			35.68
9/23/87	0.02	0.75	
9/30/87	0.02	0.79	35.21
10/5/87	0.02	0.79	
10/6/87			34.60
10/11/87	0.02	0.64	
10/13/87			35.19
10/19/87	0.02	0.64	
10/20/87			35.16
10/27/87			34.24
10/28/87	0.02	0.64	

Table E.3. LB-4000 Efficiencies and Backgrounds (cont.):

(Efficiencies given are for betas only)

Detector #4:

<u>Date</u>	<u>Alpha Bkg. (cpm)</u>	<u>Beta Bkg. (cpm)</u>	<u>Eff. (%)</u>
8/1/87	0.03	0.80	
8/3/87			36.25
8/10/87			36.75
8/11/87	0.03	0.80	
8/17/87	0.03	0.80	36.89
8/20/87	0.03	0.80	
8/24/87			36.29
8/29/87	0.03	0.80	
8/31/87			37.27
9/8/87	0.03	0.84	37.41
9/10/87	0.03	0.80	
9/14/87	0.03	0.86	
9/15/87			37.27
9/22/87			38.17
9/23/87	0.03	0.86	
9/30/87	0.03	0.91	37.65
10/5/87	0.03	0.91	
10/6/87			37.61
10/11/87	0.03	0.83	
10/13/87			36.78
10/19/87	0.03	0.83	
10/20/87			36.39
10/27/87			36.61
10/28/87	0.03	0.83	

**Table E.3. LB-4000 Efficiencies and Backgrounds (cont.):**  
**(Efficiencies given are for betas only)**

**Detector #5:**

<u>Date</u>	<u>Alpha Bkg. (cpm)</u>	<u>Beta Bkg. (cpm)</u>	<u>Eff. (%)</u>
8/1/87	0.02	0.98	
8/3/87			34.86
8/10/87			35.43
8/11/87	0.02	0.98	
8/17/87	0.02	0.98	34.89
8/20/87	0.02	0.98	
8/24/87			36.87
8/29/87	0.02	0.98	
8/31/87			37.24
9/8/87	0.02	1.00	36.92
9/10/87	0.02	1.11	
9/14/87	0.02	1.05	
9/15/87			36.03
9/22/87			36.71
9/23/87	0.02	1.05	
9/30/87	0.02	0.81	37.03
10/5/87	0.02	0.81	
10/6/87			37.09
10/11/87	0.02	0.75	
10/13/87			36.85
10/19/87	0.02	0.75	
10/20/87			36.44
10/27/87			36.70
10/28/87	0.02	0.75	

Table E.3. LB-4000 Efficiencies and Backgrounds (cont.):

(Efficiencies given are for betas only)

Detector #6:

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff. (%)
8/1/87	0.02	0.83	32.68
8/3/87			33.02
8/10/87			
8/11/87	0.02	0.83	33.44
8/17/87	0.02	0.83	
8/20/87	0.02	0.83	
8/24/87			34.68
8/29/87	0.02	0.83	34.76
8/31/87			35.37
9/8/87	0.02	0.85	
9/10/87	0.02	0.85	
9/14/87	0.02	1.09	
9/15/87			35.11
9/22/87			34.40
9/23/87	0.02	1.09	
9/30/87	0.02	0.81	34.81
10/5/87	0.02	0.81	
10/6/87			34.88
10/11/87	0.02	0.72	
10/13/87			34.44
10/19/87	0.02	0.72	
10/20/87			34.54
10/27/87			34.29
10/28/87	0.02	0.72	

**Table E.3. LB-4000 Efficiencies and Backgrounds (cont.):**

(Efficiencies given are for betas only)

**Detector #7:**

<u>Date</u>	<u>Alpha Bkg. (cpm)</u>	<u>Beta Bkg. (cpm)</u>	<u>Eff. (%)</u>
8/1/87	0.02	0.68	
8/3/87			34.96
8/10/87			35.08
8/11/87	0.02	0.68	
8/17/87	0.02	0.68	
8/20/87	0.02	0.68	
8/24/87			36.15
8/29/87	0.02	0.68	
8/31/87			36.54
9/8/87	0.02	0.64	
9/10/87	0.02	0.92	
9/14/87	0.02	0.80	
9/15/87			35.37
9/22/87			35.28
9/23/87	0.02	0.80	
9/30/87	0.02	0.75	
10/5/87	0.02	0.75	
10/6/87			36.06
10/11/87	0.02	0.63	
10/13/87			35.36
10/19/87	0.02	0.63	
10/20/87			35.51
10/27/87			34.64
10/28/87	0.02	0.63	
			36.07

Table E.3. LB-4000 Efficiencies and Backgrounds (cont.):

(Efficiencies given are for betas only)

Detector #8:

<u>Date</u>	<u>Alpha Bkg. (cpm)</u>	<u>Beta Bkg. (cpm)</u>	<u>Eff. (%)</u>
8/1/87	0.03	0.55	
8/3/87			34.26
8/10/87			35.11
8/11/87	0.03	0.55	
8/17/87	0.03	0.55	35.05
8/20/87	0.03	0.55	
8/24/87			35.76
8/29/87	0.03	0.55	
8/31/87			35.54
9/8/87	0.03	0.64	35.86
9/10/87	0.03	0.74	
9/14/87	0.03	0.67	
9/15/87			35.13
9/22/87			35.44
9/23/87	0.03	0.67	
9/30/87	0.03	0.62	35.73
10/5/87	0.03	0.62	
10/6/87			35.50
10/11/87	0.03	0.63	
10/13/87			35.52
10/19/87	0.03	0.63	
10/20/87			35.68
10/27/87			34.59
10/28/87	0.03	0.63	

**Table E.3. LB-4000 Efficiencies and Backgrounds (cont.):**  
**(Efficiencies given are for betas only)**

**Detector #9:**

<u>Date</u>	<u>Alpha Bkg. (cpm)</u>	<u>Beta Bkg. (cpm)</u>	<u>Eff. (%)</u>
8/1/87	0.02	0.64	
8/3/87			37.39
8/10/87			36.61
8/11/87	0.02	0.64	
8/17/87	0.02	0.64	37.34
8/20/87	0.02	0.64	
8/24/87			36.74
8/29/87	0.02	0.64	
8/31/87			35.61
9/8/87	0.02	0.64	36.46
9/10/87	0.02	0.64	
9/14/87	0.02	0.73	
9/15/87			36.14
9/22/87			36.08
9/23/87	0.02	0.73	
9/30/87	0.02	0.65	36.55
10/5/87	0.02	0.65	
10/6/87			37.03
10/11/87	0.02	0.64	
10/13/87			35.83
10/19/87	0.02	0.64	
10/20/87			35.72
10/27/87			35.28
10/28/87	0.02	0.64	

Table E.3. LB-4000 Efficiencies and Backgrounds (cont.):

(Efficiencies given are for betas only)

Detector #10:

<u>Date</u>	<u>Alpha Bkg.(cpm)</u>	<u>Beta Bkg.(cpm)</u>	<u>Eff. (%)</u>
8/1/87	0.03	0.66	
8/3/87			35.72
8/10/87			35.69
8/11/87	0.03	0.66	
8/17/87	0.03	0.66	
8/20/87	0.03	0.66	
8/24/87			34.57
8/29/87	0.03	0.66	
8/31/87			34.64
9/8/87	0.03	0.66	
9/10/87	0.03	0.75	
9/14/87	0.03	1.27	
9/15/87			34.32
9/22/87			34.15
9/23/87	0.03	1.27	
9/30/87	0.03	0.70	
10/5/87	0.03	0.70	
10/6/87			34.25
10/11/87	0.03	0.71	
10/13/87			34.69
10/19/87	0.03	0.71	
10/20/87			34.13
10/27/87			34.09
10/28/87	0.03	0.71	

**Table E.3. LB-4000 Efficiencies and Backgrounds (cont.):**  
**(Efficiencies given are for betas only)**

**Detector #11:**

<u>Date</u>	<u>Alpha Bkg. (cpm)</u>	<u>Beta Bkg. (cpm)</u>	<u>Eff. (%)</u>
8/1/87	0.04	0.63	
8/3/87			39.53
8/10/87			39.87
8/11/87	0.04	0.63	
8/17/87	0.04	0.63	39.62
8/20/87	0.04	0.63	
8/24/87			39.32
8/29/87	0.04	0.63	
8/31/87			38.97
9/8/87	0.04	0.65	39.29
9/10/87	0.04	0.70	
9/14/87	0.04	0.70	
9/15/87			39.67
9/22/87			38.89
9/23/87	0.04	0.70	
9/30/87	0.04	0.76	39.23
10/5/87	0.04	0.76	
10/6/87			39.57
10/11/87	0.04	0.76	
10/13/87			39.13
10/19/87	0.04	0.76	
10/20/87			39.52
10/27/87			39.58
10/28/87	0.04	0.76	

Table E.3. LB-4000 Efficiencies and Backgrounds (cont.):

(Efficiencies given are for betas only)

Detector #12:

<u>Date</u>	<u>Alpha Bkg.(cpm)</u>	<u>Beta Bkg.(cpm)</u>	<u>Eff. (%)</u>
8/1/87	0.03	0.56	
8/3/87			38.22
8/10/87			38.67
8/11/87	0.03	0.56	
8/17/87	0.03	0.56	37.66
8/20/87	0.03	0.56	
8/24/87			38.00
8/29/87	0.03	0.56	
8/31/87			36.86
9/8/87	0.03	0.61	37.88
9/10/87	0.03	0.60	
9/14/87	0.03	0.60	
9/15/87			37.64
9/22/87			37.30
9/23/87	0.03	0.60	
9/30/87	0.03	0.64	38.01
10/5/87	0.03	0.64	
10/6/87			37.35
10/11/87	0.03	0.62	
10/13/87			37.70
10/19/87	0.03	0.62	
10/20/87			37.60
10/27/87			38.18
10/28/87	0.03	0.62	

**Table E.4. LB-5100 Efficiencies and Backgrounds**

**(Backgrounds are given in units of cpm)**

<u>Date</u>	<u>Alpha Bkg.</u>	<u>Beta Bkg.</u>	<u>Alpha Eff. (%)</u>	<u>Beta Eff. (%)</u>
8/3/87	0.07	0.90	20.9	44.5
8/10/87			21.0	44.6
8/17/87			20.8	44.5
8/21/87	0.10	0.80	21.3	44.4
8/24/87			21.1	44.1
8/31/87			21.2	44.5
9/4/87			21.4	44.7
9/11/87			21.1	45.1
9/18/87			21.9	44.3
9/25/87	0.11	0.86	21.4	45.4
10/2/87			21.1	44.3
10/9/87			21.4	44.9
10/16/87			21.0	44.9
10/19/87	0.11	0.85	21.3	44.6
10/26/87			21.0	44.6

Table E.5. Isotopic Alpha Background and Efficiencies

Instrument: ND-9900

<u>Detector #:</u>	8/31/87		10/12/87	
	<u>% Eff.</u>	<u>Background</u>	<u>% Eff.</u>	<u>Background</u>
1	29	0.024	NA	NA
2		Out of Order		Out of Order
3	20	0.026	NA	NA
4	37	0.026	NA	NA
5	18	0.035	18.6	NA
6	19	0.046	21.6	NA
7	22	0.023	22	NA
8	21	0.034	22	NA
9	18	NA	20	NA
10	30	0.041	19	NA
11	23	0.037	23	NA
12	25	0.012	25	NA

NA: Data not available.

**Table E.6. Calibration Check for Isotopic Alpha Channel Position**

**Instrument: ND-9900**

<u>Detector</u>	4.50 MeV (U-236)		5.15 MeV (Pu-239)		5.80 MeV (Cm-244)	
	<u>Found</u>	<u>Known</u>	<u>Found</u>	<u>Known</u>	<u>Found</u>	<u>Known</u>
#1	446 $\pm$ 0	448	515 $\pm$ 0	515	581 $\pm$ 0	581
#2	.....	Not Available.....				
#3	2453 $\pm$ 0	2454	2516 $\pm$ 0	2515	2577 $\pm$ 0	2575
#4	3455 $\pm$ 0	3456	3516 $\pm$ 0	3515	3576 $\pm$ 0	3573
#5	448 $\pm$ 0	447	514 $\pm$ 1	515	580 $\pm$ 0	582
#6	1450 $\pm$ 0	1451	1514 $\pm$ 0	1515	1576 $\pm$ 0	1579
#7	2457 $\pm$ 0	2454	2518 $\pm$ 0	2515	2578 $\pm$ 0	2575
#8	3457 $\pm$ 0	3455	3515 $\pm$ 0	3515	3571 $\pm$ 0	3574
#9	446 $\pm$ 0	448	514 $\pm$ 0	515	581 $\pm$ 0	581
#10	1451 $\pm$ 0	1451	1514 $\pm$ 1	1515	1576 $\pm$ 1	1579
#11	2455 $\pm$ 0	2454	2515 $\pm$ 0	2515	2574 $\pm$ 0	2575
#12	3458 $\pm$ 0	3455	3515 $\pm$ 0	3515	3571 $\pm$ 0	3574

Table E.7. Gamma Standard Results (August-October 87):

Detector #1, Std.#1:

Knowns decay corrected to 7/1/86 in Bq/L:  
Cs-137=3372 Co-60=5452

<u>Date</u>	<u>661 keV(Cs-137)</u>	<u>FWHM</u>	<u>1332 keV(Co-60)</u>	<u>FWHM</u>
8/3/87	3400	1.63	5164	2.04
8/10/87	3372	1.69	5139	2.07
8/17/87	3371	1.67	5207	2.07
8/24/87	3596	1.69	5784	2.07
8/31/87	3599	1.70	5821	2.04
9/6/87	3583	1.62	5750	2.01
9/14/87	3585	1.73	5689	2.08
9/21/87	3547	1.69	5613	2.09
9/28/87	3575	1.65	5903	2.02
10/5/87	3584	1.67	5721	2.04
10/12/87	3625	1.71	5818	2.09
		(new eff. used here)		
10/19/87	3365	1.59	5474	2.02
10/26/87	3408	1.62	5488	2.06

**Table E.7. Gamma Standard Results (August-October 87) (cont.):**

**Detector #2, Std.#2:**

Knowns decay corrected to 7/1/86 in Bq/L:  
 Cs-137 = 3357 Co-60 = 5306

<u>Date</u>	<u>661 keV(Cs-137)</u>	<u>FWHM</u>	<u>1332 keV(Co-60)</u>	<u>FWHM</u>
8/3/87	3225	1.53	5092	2.07
8/10/87	3203	1.56	5116	2.06
8/17/87	3193	1.56	5063	2.07
8/24/87	3209	1.59	5074	2.08
8/31/87	3590	1.58	5754	2.12
9/1/87	3576	1.54	5737	2.12
9/8/87	3575	1.55	5795	2.10
9/15/87	3567	1.58	5797	2.02
9/22/87	3514	1.49	5693	2.11
9/29/87	3518	1.55	5667	2.12
10/6/87	3610	1.63	5703	2.08
10/13/87	3551	1.57	5718	2.06
(new eff. used here)				
10/20/87	3417	1.55	5438	2.10
10/27/87	3402	1.62	5403	2.10

**Table E.7. Gamma Standard Results (August-October 87) (cont.):**

**Detector #3, Std.#3:**

**Knowns decay corrected to 7/1/86 in Bq/L:  
 Cs-137 = 3298 Co-60 = 5249**

<u>Date</u>	<u>661 keV(Cs-137)</u>	<u>FWHM</u>	<u>1332 keV(Co-60)</u>	<u>FWHM</u>
8/3/87	3505	1.65	5334	1.93
8/10/87	3512	1.67	5450	1.92
8/17/87	3516	1.68	5466	2.00
8/24/87	3674	1.68	5717	1.92
8/31/87	3646	1.68	5734	1.95
9/6/87	3646	1.67	5648	1.96
9/14/87	3657	1.62	5757	1.97
9/21/87	3545	1.57	5649	1.92
9/28/87	3649	1.57	5646	1.97
10/5/87	3635	1.65	5706	1.94
10/12/87	3739	1.68	5753	1.99
10/19/87	3616	1.64	5669	1.97
(new eff. used here)				
10/26/87	3352	1.59	5462	1.90

**Table E.7. Gamma Standard Results (August-October 87) (cont.):**

**Detector #4, Std.#4:**

Knowns decay corrected to 7/1/86 in Bq/L:  
Cs-137 = 3155 Co-60 = 5066

<u>Date</u>	<u>661 keV(Cs-137)</u>	<u>FWHM</u>	<u>1332 keV(Co-60)</u>	<u>FWHM</u>
8/3/87	3298	1.53	5130	2.00
8/10/87	3335	1.61	5053	1.97
8/17/87	3253	1.60	5106	2.04
8/24/87	3404	1.55	5422	2.08
8/31/87	3420	1.56	5409	2.03
9/6/87	3420	1.54	5381	2.01
9/14/87	3406	1.58	5376	2.03
9/21/87	3443	1.54	5443	2.04
9/28/87	3422	1.65	5435	2.07
10/5/87	3428	1.51	5489	2.03
10/12/87	3464	1.56	5390	2.01
10/19/87	3449	1.59	5518	2.02
(new eff. used here)				
10/26/87	3144	1.48	5097	2.01

Table E.7. Gamma Standard Results (August-October 87) (cont.):

Detector #5, Std.#4:

<u>Date</u>	<u>661 keV(Cs-137)</u>	<u>FWHM</u>	<u>1332 keV(Co-60)</u>	<u>FWHM</u>
8/3/87	3365	1.43	5360	1.94
8/10/87	3429	1.44	5334	1.97
8/17/87	3389	1.45	5464	1.93
8/24/87	3290	1.38	5365	1.89
8/31/87	3379	1.44	5419	1.97
9/6/87	3317	1.45	5400	1.89
9/14/87	3348	1.47	5300	2.00
9/21/87	3314	1.43	5342	1.90
9/28/87	3323	1.42	5371	1.97
10/5/87	3315	1.44	5411	1.97
10/12/87	3374	1.43	5423	1.96
(new eff. used here)				
10/19/87	3155	1.59	5216	1.94
10/26/87	3101	1.62	4915	1.91

**Table E.7. Gamma Standard Results (August-October 87) (cont.):**

**Detector #6, Std.#2:**

<u>Date</u>	<u>661 keV(Cs-137)</u>	<u>FWHM</u>	<u>1332 keV(Co-60)</u>	<u>FWHM</u>
8/3/87	3516	1.80	5486	2.11
8/10/87	3480	2.08	5506	2.32
8/17/87	3494	1.87	5539	2.20
8/24/87	3359	1.90	5277	2.25
8/31/87	3551	1.81	5707	2.12
9/6/87	3665	1.88	5730	2.10
9/14/87	3624	1.86	5781	2.17
9/21/87	3594	1.86	5614	2.12
9/25/87	3689	1.89	5708	2.17
10/2/87	3517	1.77	5540	2.07
10/9/87	3597	1.81	5607	2.15
(new eff. used here)				
10/16/87	3492	1.81	5377	2.12
10/23/87	3460	1.88	5434	2.16
10/30/87	3481	1.89	5427	2.16

Tables E.8. Gamma Detector Backgrounds:

Background for Gamma Detector #1:

<u>Peak Energy (Kev)</u>	<u>Cts/Sec</u>	<u>%Error</u>
90.0	9.92E-3	11.3
184.7	7.23E-3	13.1
238.7	3.54E-3	21.4
351.4	2.82E-3	28.8
510.8	1.12E-2	7.1
583.2	1.56E-3	27.6
609.2	1.38E-3	36.1
1460.	2.22E-3	14.5
1764.7	4.52E-4	38.0
2614.2	8.52E-4	31.8

**Tables E.8. Gamma Detector Backgrounds (cont.):**

**Background for Gamma Detector #2**

<u>Peak Energy (Kev)</u>	<u>Cts/Sec</u>	<u>%Error</u>
92.2	7.01E-3	14.3
185.8	4.78E-3	21.2
238.5	2.19E-3	27.8
510.3	5.39E-3	12.1
583.2	2.25E-3	19.3
609.5	1.49E-3	33.5
1460.	1.39E-3	22.1
2615.	7.97E-4	25.3

Tables E.8. Gamma Detector Backgrounds (cont.):

Background for Gamma Detector #3

<u>Peak Energy (Kev)</u>	<u>Cts/Sec</u>	<u>%Error</u>
93.1	9.66E-3	10.2
186.1	5.17E-3	19.5
239.	4.61E-3	17.9
352.2	1.91E-3	28.5
511.1	1.28E-2	6.3
583.1	9.36E-4	46.0
609.4	1.05E-3	34.3
1001.	9.79E-4	30.7
1250.8	5.22E-4	51.5
1332	1.08E-3	27.9
1460.	2.13E-3	15.5
2615.	1.25E-3	16.0

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**Tables E.8. Gamma Detector Backgrounds (cont.):**

**Background for Gamma Detector #4**

<u>Peak Energy (Kev)</u>	<u>Cts/Sec</u>	<u>%Error</u>
91.8	4.43E-3	28.1
511.	1.31E-2	8.0
582.6	1.72E-3	39.4
608.7	1.49E-3	37.4
1460.	8.12E-3	6.8
1764.	1.02E-3	21.3
2206.7	6.65E-4	40.8
2615.	2.07E-3	12.6

Tables E.8. Gamma Detector Backgrounds (cont.):

Background for Gamma Detector #5

<u>Peak Energy (Kev)</u>	<u>Cts/Sec</u>	<u>%Error</u>
92.9	4.13E-3	20.2
185.6	3.64E-3	22.7
238.7	4.40E-3	12.6
351.9	1.61E-3	35.2
511.	1.52E-2	5.7
558.	1.12E-3	35.1
583.	1.96E-3	23.1
608.3	9.11E-4	57.5
1460.	2.55E-3	13.8
2615.	1.32E-3	17.0

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Tables E.8. Gamma Detector Backgrounds (cont.):

Background for Gamma Detector #6

<u>Peak Energy (Kev)</u>	<u>Cts/Sec</u>	<u>%Error</u>
92.6	6.13E-3	17.9
185.2	3.28E-3	35.0
238.5	7.01E-3	13.8
351.	9.51E-4	81.5
511.	1.70E-2	5.9
582.9	3.54E-3	20.4
609.9	2.63E-3	24.9
1119.3	1.16E-3	42.0
1460.6	1.02E-2	5.8
2615.	2.98E-3	9.3

**Table E.9. Liquid Scintillation Counter Standard Counts,  
Efficiencies, and Backgrounds**

<u>Date</u>	<u>Standard Ct. (cpm)</u>	<u>Eff. (%)</u>	<u>Bkg. (cpm)</u>
8/19/87	99558	59.7	14.0
8/28/87	99484	59.7	13.5
9/4/87	99707	60.1	15.2
9/11/87	98793	59.6	12.0
9/18/87	98909	59.7	15.9
9/25/87	98999	59.8	16.6
10/1/87	98468	59.6	14.1
10/8/87	98767	59.8	13.9
10/15/87	97835	59.4	13.0
10/22/87	98006	59.5	13.9
10/29/87	97755	59.5	13.4
11/5/87	97321	59.2	11.9
11/12/87	96764	59.0	12.8
11/17/87	96596	58.9	13.7

Average Standard Value = 98354 +/- 967 cpm

Actual Standard Value = 255200 dpm on 11/27/79

Standard is a Packard 3-H standard.

Efficiency = 59.5% +/- 0.3%

Range = 58.9% - 60.1%

Background = 13.8 +/- 1.3 cpm

Range = 11.9 - 16.6 cpm

**Table E.10. EML Sample Results (September 1987):**

<u>Matrix</u>	<u>Isotope</u>	<u>Found</u>	<u>Known</u>
Water: (pCi/mL)	H-3	20.0	33.7
	Mn-54	4.90	4.72
	Co-60	4.40	4.59
	Sr-90	1.30	1.33
	Cs-137	2.30	2.34
	Pu-239	0.0610	0.137
	Am-241	0.110	0.131
	U(pCi)	0.140	0.142
Air: (pCi/filter)	Be-7	3200	4640
	Mn-54	340	455
	Co-60	320	444
	Sr-90	9.60	9.55
	Cs-137	320	470
	Pu-239	6.40	5.68
	Am-241	4.30	4.41
	U(pCi)	4.90	4.77
Soil: (pCi/g)	Sr-90	0.160	0.184
	Cs-137	0.440	0.480
	Pu-239	1.00	1.88

Table E.11. EPA QC(EMSL) Sample Results in pCi/L:

<u>Isotope</u>	<u>Date</u>	<u>Found</u>	<u>Known</u>
Gross Alpha	9/87	2.3	4
	10/87	28	28
Gross Beta	9/87	11.3	12
	10/87	63	72
Cr-51	10/87	72.3	70
Co-60	10/87	15	16
Zn-65	10/87	48.3	46
Ru-106	10/87	59.3	61
Cs-134	10/87	23.7	25
	10/87	13	16
Cs-137	10/87	53	51
	10/87	22	24
Sr-90	10/87	11.3	10
H-3	10/87	4233	4492
U(pCi)	10/87	3	3

Dates that Livermore Samples were Analyzed (by Laboratory Request #):

R#7208: 9/3/87	R#7247: 9/8/87
R#7209: 10/19/87	R#7248: 11/18/87
R#7216: 9/2/87	R#7249: 11/17/87
R#7219: 9/8/87	R#7264: 9/11/87
R#7220: 9/10/87	R#7266: 10/5/87
R#7221: 9/8/87	R#7267: 9/14/87
R#7225: 9/10/87	R#7268: 10/16/87
R#7226: 9/11/87	R#7274: 10/12/87
R#7228: 9/11/87	R#7283: 10/15/87
R#7241: 10/16/87	R#7289: 9/11/87
R#7242: 9/8/87	R#7291: 10/27/87
R#7243: 10/19/87	R#7292: 11/17/87
R#7244: 10/19/87	R#7295: 10/9/87
R#7245: 9/14/87	R#7296: 11/17/87
R#7246: 10/5/87	R#7297: 11/17/87

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