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ORNL/TM - 11203, Vol.

Argonne National Laboratory

Sampling and Analysis Data Document

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.

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Volume II B

June 1989

DEPARTMENT OF ENERGY

ENVIRONMENTAL SURVEY

ORNL/TM-11203

ARGONNE NATIONAL LABORATORY SAMPLING AND ANALYSIS DATA DOCUMENT

Draft - Do Not Cite

June 1989

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U.S. Department of Energy
Office of Environmental Audit

Prepared by:
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Oak Ridge National Laboratory

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Appendix D

ANALYTICAL CHEMISTRY QC SUMMARY

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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 Usabilty 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)

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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 calibaration 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 preceeding 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-volitiles. 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 preceeding 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 VIIs, 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.

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 3-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	Dibutylchlorendate	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 aquisition. 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 VIIIs, 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 proceedure 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 an 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 in compliance with expanded criteria (see list). Level 1

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

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	Level 3
		(May increase chances for false negative results)	

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 %~~ 70%	Level 2
%D	Above ~~50 %~~ 70%	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	Level 3
	(May increase chances for false negative results)	

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 in compliance with expanded criteria (see list). — Level 1

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

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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.	

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

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-usable for all compounds except multi-component analytes, where pattern recognition is possible.

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 _____

IPLE IBER	SDG	MATRIX	DATE RECEIVED	ANALYZED	ASSOC TUNE	IATE BLANK	CALIB INIT	RATE CONT	INT STD OUT	VOA SURR OUT	COMMENTS		OVER-ALL LEVEL	ENV PRB NUM
)37030	PXV24	7	15JUN87	18JUN87	1	A	A	A	A	3	2 SURR OUTSD CRIT(BFB&DCE) 2 INT.ST. OUTSD CRIT(BCM&CBZ).Q-28% MOIST,	5 G. 5&6 BLANK 13-RRF 30-EXCEEDING CAL. RANGE	A	8
		18	05JUN87	05JUN87										11
		1	12JUN87	15JUN87	1	A	A	A	1	1	5-ID, RANGE EXCEEDED 13-RRF Q-7% MOIST, 5.2 G.		A	11
		1	12JUN87	15JUN87	1	A	A	A	1	2	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	1	1	5-ID, RANGE EXCEEDED 13-BLANK/RRF Q-7% MOIST, 5.2 G.		A	11
		1	12JUN87	16JUN87	1	A	A	A	1	1	5-ID 13-RRF Q-11% MOIST, 5 G.		A	11
		1	12JUN87	16JUN87	1	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	1	1	5-ID, RANGE EXCEEDED 13-RRF Q-17% MOIST, 4.9 G.		A	11
		1	12JUN87	16JUN87	1	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	1	1	5&6-BLANK 13-RRF Q-20% MOIST, 5.4 G.		A	11
		1	12JUN87	16JUN87	1	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	1	1	5-BLANK 13-RRF Q-16% MOIST, 5.1 G.		A	11
		1	12JUN87	16JUN87	1	A	A	A	1	1	5-BLANK 13-RRF Q-19%, 5.1 G.		A	11
		1	15JUN87	18JUN87	1	A	A	A	1	1	Q-14% MOIST, 5 G. 13-RRF 6-BLANK		A	11
		1	15JUN87	18JUN87	1	A	A	A	1	1	Q-17% MOIST, 5 G. 13-RRF 5&6-BLANK		A	11
		1	05JUN87	05JUN87	1	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	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	1	2	Q-5% MOIST,4.8 G. 13-RRF 1 SURR OUTSD CRIT		A	11
		1	05JUN87	06JUN87	1	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	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	1	1	6-BLANK Q-9% MOIST, 5 G.		A	11
		1	06JUN87	06JUN87	1	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	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	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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EPNo 26, 27

ORGANIC DATA ~~TAMMY LEVEL~~ ~~TASK~~
VOLATILE ORGANIC COMPOUNDS

SDG

99

SAMPLE IDENTIFICATION TRIP BLANK SITE CODE

DATA AUDITOR: TAMMY CHRI

CAS NO	IS#	TARGET COMPOUND NAME	BL	IC	CC	IS	OU
74-87-3	1	CHLOROMETHANE	1	1	1	1	1
74-83-9	1	BROMOMETHANE	1	2	1		2
75-01-4	1	VINYL CHLORIDE		2	1		2
75-00-3	1	CHLOROETHANE		1	2		2
75-09-2	1	METHYLENE CHLORIDE 6		1	2		2
67-64-1	1	ACETONE			2		2
75-15-0	1	CARBON DISULFIDE			1		1
75-35-4	1	1,1-DICHLOROETHENE			1		1
75-34-3	1	1,1-DICHLOROETHANE			1		1
540-59-0	1	1,2-DICHLOROETHENE (TOTAL)			1		1
67-66-3	1	CHLOROFORM			1		1
107-06-2	1	1,2-DICHLOROETHANE			1		1
78-93-3	2	2-BUTANONE 11		3	3		3
71-55-6	2	1,1,1-TRICHLOROETHANE			1		1
56-23-5	2	CARBON TETRACHLORIDE			1		1
108-05-4	2	VINYL ACETATE			1		1
75-27-4	2	BROMODICHLOROMETHANE			1		1
78-87-5	2	1,2-DICHLOROPROPANE			1		1
10061-01-5	2	cis-1,3-DICHLOROPROPENE			1		1
79-01-6	2	TRICHLOROETHENE			1		1
124-48-1	2	DIBROMOCHLOROMETHANE			1		1
79-00-5	2	1,1,2-TRICHLOROETHANE			1		1
71-43-2	2	BENZENE			1		1
10061-02-6	2	trans-1,3-DICHLOROPROPENE			1		1
75-25-2	2	BROMOFORM			1		1
108-10-1	3	4-METHYL-2-PENTANONE			1		1
591-78-6	3	2-HEXANONE			1		1
127-18-4	3	TETRACHLOROETHENE			1		1
79-34-5	3	1,1,2,2-TETRACHLOROETHANE			1		1
108-88-3	3	TOLUENE			1		1
108-90-7	3	CHLOROBENZENE			1		1
100-41-4	3	ETHYLBENZENE			1		1
100-42-5	3	STYRENE			1		1
1330-20-7	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 ~~Usability~~ Quality Level

MS = Mass Spectral Identification

Christian Reddy 7/21/9
auditor's signature/date

ORGANIC DATA ~~USABILITY TASKS~~
VOLATILE ORGANIC COMPOUNDS

SAMPLE IDENTIFICATION 3 SITE CODE

DATA AUDITOR: GARY L. ROBERTSON

CAS NO	IS#	TARGET COMPOUND NAME	DATA ~~USABILITY~~ QUALITY LEVEL BL	IC	CC	IS	OU
74-87-3	1	CHLOROMETHANE		1	2	1	2
74-83-9	1	BROMOMETHANE		2	2		2
75-01-4	1	VINYL CHLORIDE		2	2		2
75-00-3	1	CHLOROETHANE		1	2		2
75-09-2	1	METHYLENE CHLORIDE 6	3		1 4		3 —
67-64-1	1	ACETONE					1
75-15-0	1	CARBON DISULFIDE					
75-35-4	1	1,1-DICHLOROETHENE					
75-34-3	1	1,1-DICHLOROETHANE					
540-59-0	1	1,2-DICHLOROETHENE (TOTAL)					
67-66-3	1	CHLOROFORM					
107-06-2	1	1,2-DICHLOROETHANE					
78-93-3	2	2-BUTANONE 11	3	3	3		3 — 1
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-DICHLOROPROPANE					
10061-01-5	2	cis-1,3-DICHLOROPROPENE					
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-DICHLOROPROPENE					
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					
330-20-7	3	XYLENE (TOTAL)					

CAS NO		NON-TARGET COMPOUND NAME	BL	IC	CC	MS	OU

D.F.R.

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

MS = Mass Spectral Identification

D.F. Robertson 7/20/93
Auditor's Signature/Date

ORGANIC DATA ~~USABILITY TABLES~~
VOLATILE ORGANIC COMPOUNDS

SAMPLE IDENTIFICATIO

SITE CODE [illegible]

DATA AUDITOR: GARY L. ROBERTSON

CAS NO	IS#	TARGET COMPOUND NAME	BL	IC	CC	IS	OU
			DATA ~~USABILITY~~ QUALITY LEVEL				
74-87-3	1	CHLOROMETHANE	1	1	2	1	2
74-83-9	1	BROMOMETHANE	1	2	2	1	2
75-01-4	1	VINYL CHLORIDE	1	2	2	1	2
75-00-3	1	CHLOROETHANE	1	1	2	1	2
75-09-2	1	METHYLENE CHLORIDE	3	1	1	1	3
67-64-1	1	ACETONE	1	1	1	1	1
75-15-0	1	CARBON DISULFIDE	1	1	1	1	1
75-35-4	1	1,1-DICHLOROETHENE	1	1	1	1	1
75-34-3	1	1,1-DICHLOROETHANE	1	1	1	1	1
540-59-0	1	1,2-DICHLOROETHENE (TOTAL)	1	1	1	1	1
67-66-3	1	CHLOROFORM	1	1	1	1	1
107-06-2	1	1,2-DICHLOROETHANE	1	1	1	1	1
78-93-3	2	2-BUTANONE	3	3	3	1	3
71-55-6	2	1,1,1-TRICHLOROETHANE	1	1	1	1	1
56-23-5	2	CARBON TETRACHLORIDE	1	1	1	1	1
108-05-4	2	VINYL ACETATE	1	1	1	1	1
75-27-4	2	BROMODICHLOROMETHANE	1	1	1	1	1
78-87-5	2	1,2-DICHLOROPROPANE	1	1	1	1	1
10061-01-5	2	cis-1,3-DICHLOROPROPENE	1	1	1	1	1
79-01-6	2	TRICHLOROETHENE	1	1	1	1	1
124-48-1	2	DIBROMOCHLOROMETHANE	1	1	1	1	1
79-00-5	2	1,1,2-TRICHLOROETHANE	1	1	1	1	1
71-43-2	2	BENZENE	1	1	1	1	1
10061-02-6	2	trans-1,3-DICHLOROPROPENE	1	1	1	1	1
75-25-2	2	BROMOFORM	1	1	1	1	1
108-10-1	3	4-METHYL-2-PENTANONE	1	1	1	1	1
591-78-6	3	2-HEXANONE	1	1	1	1	1
127-18-4	3	TETRACHLOROETHENE	1	1	1	1	1
79-34-5	3	1,1,2,2-TETRACHLOROETHANE	1	1	1	1	1
108-88-3	3	TOLUENE	1	1	1	1	1
108-90-7	3	CHLOROBENZENE	1	1	1	1	1
100-41-4	3	ETHYLBENZENE	1	1	1	1	1
100-42-5	3	STYRENE	1	1	1	1	1
1330-20-7	3	XYLENE (TOTAL)	1	1	1	1	1

CAS NO	NON-TARGET COMPOUND NAME	BL	IC	CC	MS	OU
	N/A					

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

MS = Mass Spectral Identification

R. L. Robertson 7/26/94
auditor's signature/date

ORGANIC DATA ~~USABILITY TASKED~~
VOLATILE ORGANIC COMPOUNDS

SAMPLE IDENTIFICATION

SITE CODE ___ 1

DATA AUDITOR: GARY L. ROBERTSON

	CAS NO	IS#	TARGET COMPOUND NAME	DATA ~~USABILITY~~ QUALITY LEVEL BL	IC	CC	IS	OU
1.	74-87-3	1	CHLOROMETHANE	1	1	2	1	2
2.	74-83-9	1	BROMOMETHANE		2	2		2
3.	75-01-4	1	VINYL CHLORIDE		2	2		2
4.	75-00-3	1	CHLOROETHANE		1	2		2
5.	75-09-2	1	METHYLENE CHLORIDE	3		1		3
6.	67-64-1	1	ACETONE	1				1
7.	75-15-0	1	CARBON DISULFIDE					
8.	75-35-4	1	1,1-DICHLOROETHENE					
9.	75-34-3	1	1,1-DICHLOROETHANE					
10.	540-59-0	1	1,2-DICHLOROETHENE (TOTAL)					
11.	67-66-3	1	CHLOROFORM					
12.	107-06-2	1	1,2-DICHLOROETHANE					
13.	78-93-3	2	2-BUTANONE	3	3	3		3
14.	71-55-6	2	1,1,1-TRICHLOROETHANE	1	1	1		1
15.	56-23-5	2	CARBON TETRACHLORIDE					
16.	108-05-4	2	VINYL ACETATE					
17.	75-27-4	2	BROMODICHLOROMETHANE					
18.	78-87-5	2	1,2-DICHLOROPROPANE					
19.	10061-01-5	2	cis-1,3-DICHLOROPROPENE					
20.	79-01-6	2	TRICHLOROETHENE					
21.	124-48-1	2	DIBROMOCHLOROMETHANE					
22.	79-00-5	2	1,1,2-TRICHLOROETHANE					
23.	71-43-2	2	BENZENE					
24.	10061-02-6	2	trans-1,3-DICHLOROPROPENE					
25.	75-25-2	2	BROMOFORM					
26.	108-10-1	3	4-METHYL-2-PENTANONE					
27.	591-78-6	3	2-HEXANONE					
28.	127-18-4	3	TETRACHLOROETHENE					
29.	79-34-5	3	1,1,2,2-TETRACHLOROETHANE					
30.	108-88-3	3	TOLUENE					
31.	108-90-7	3	CHLOROBENZENE					
32.	100-41-4	3	ETHYLBENZENE					
33.	100-42-5	3	STYRENE					
34.	1330-20-7	3	XYLENE (TOTAL)					

CAS NO		~~NON-TARGET~~ COMPOUND NAME	BL	IC	CC	MS	OU

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

MS = Mass Spectral Identification

D-xi

D. L. Robertson 7/20/88
auditor's signature/date

ATTACHMENT D

GUIDELINES

(Field Blank)

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 quanitative. 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 tenatively 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:

Organic compound	Water matrix	Soil matrix
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, analyzed have no hits but the overall quality level is QL-3; hence the potential for false negatives exists.

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.:
SITE NAME:	Date(s) Received:
	Date(s) prepared:
QC Request:	Date(s) analyzed:

Completed	Description	

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

Method:

SDG No.:

SITE NAME:

Completed	Description
	ANALYSIS QUALITY (continued)
	Comparability
_____	Participation in EPA quarterly Performance Evaluation _____
	Precision
_____	80% of duplicate results for aqueous samples in compliance with requirements _____
	_____ Actual % Compliance _____ Deviation from 80% Compliance
_____	70% of duplicate results for soil samples in compliance with requirements _____
	_____ Actual % Compliance _____ Deviation from 70% Compliance
_____	Other matrix: _____
	70% of precision control limits met _____
	_____ Actual % Compliance _____ Deviation From 70% Compliance
	COMMENTS _____

Oak Ridge National Laboratory
Analytical Chemistry Division

ANALYSIS QUALITY LEVEL EVALUATION

Method:

SDG No.:

SITE NAME:

Completed	Description
	ANALYSIS QUALITY (continued) Accuracy
_____	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
_____	_____
_____	_____
_____	_____

TABLES

Table 1. Criteria for Holding Times

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

Table 2. % Criteria for Continuing Calibration Verification Data

Method	% Criteria
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

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.

K. Whaley
12-6-88

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Attachment A

COMMENT CODES

CODE	COMMENT
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 " ( ) ". LEVEL 2
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 " ( ) ". LEVEL 2
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 . LEVEL 1
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. LEVEL 3
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. LEVEL 3
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. LEVEL 1
6	Positive value observed in the preparation blank which is less than the CRDL. This is acceptable according to CLP protocol. LEVEL 1
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. LEVEL 3
8	Positive value observed in the blank which is greater than the CRDL. The sample result was less than 10X the blank result. It as not possible to verify whether the level of analyte detected in the sample was due to contamination. The data is rejected as unusable. LEVEL 3
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. LEVEL 1
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. LEVEL 1

K. Whaley
10-24-88

COMMENT CODES

CODE	COMMENT
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. LEVEL 1
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. LEVEL 1
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 " ( ) ". LEVEL 2
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 " ( ) ". LEVEL 2
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 " ( ) ". LEVEL 2
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 " ( ) ". LEVEL 2
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 " ( ) ". LEVEL 2
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 " ( ) ". LEVEL 2

K. Whaley
10-24-88

COMMENT CODES

CODE	COMMENT
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 LEVEL 1
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. LEVEL 3
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. LEVEL 3

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. LEVEL 2
20	RPD value for duplicate analysis > 50% . The data is considered as confirmation of the qualitative presence of the analyte only. LEVEL 3
21	RPD value for duplicate analysis > 20%, but < 50% . The data is considered as estimated but acceptable. LEVEL 2
22	Control limits for concentration of duplicate < 5X CRDL exceeded. The data is considered as estimated but acceptable. LEVEL 2
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. LEVEL 1
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. LEVEL 2

K. Whaley
10-24-88

COMMENT CODES

CODE	COMMENT
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. LEVEL 2
25	% Recovery for spike is > 125% and the reported sample result is less than the IDL. The data is acceptable. LEVEL 1
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 " ( ) ". LEVEL 2
27	% Recovery for spike falls within the range of 30-74% and the reported sample result is less than the IDL. The posibility 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. LEVEL 2
28	% Recovery for spike falls within the range of 30-74% and the reported sample result is positive. The posibility for false negatives exits. 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 " ( ) ". LEVEL 2
29	% Recovery for spike < 30% and the reported sample result is positive. The data may be biased significantly low and should be considered as as qualitative analyte presence only. LEVEL 3
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 as unusable. LEVEL 3
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. LEVEL 3

General comments regarding review of serial dilution results: This analysis is required so that the reviewer can ascertain whether significant physical or chemical interferences exist due to sample matrix.

31	10% criteria for serial dilution result not met. A matrix interference is suspected. The data is considered as estimated but usable. LEVEL 2

** 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 QUALITY TABLE:_____

ICP

SITE: _____ REVIEWER: _____

DOE SAMPLE NO: _____ DATE: _____

LABORATORY SAMPLE NO: _____ SAMPLE VALIDATION QUALITY LEVEL:_____

SDG NO: _____ EXCEPTIONS: see below

MATRIX: _____

DATA QUALITY LEVEL

LEVEL	ELEMENT	ICV	CCV	CCB	PB	ICS	LCS	DUP	SPK	SD
	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 CATAGORY

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 63005 (Attachment C)

Quality Table : A 1 D ~~A 2 D~~ (K.w.)

If catagory left blank, assume Level 1

DOE 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

DATA QUALITY LEVEL

	ELEMENT	ICV	CCV	CCB	PB	ICS	LCS	DUP	SPK	SD
	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)					
2	MANGANESE							3(20)		
2	NICKEL							2(22)	2(28) - 30	
	~~POTASSIUM~~ K.W.									
2	SELENIUM								3(30)	
	SILVER									
	SODIUM									
	VANADIUM									
	ZINC									

COMMENT CODES APPEAR IN ( ) AFTER EACH CATAGORY

ICV: Initial calibration verification
CCV: Continuing calibration verification
CCB: Continuing calibration blank (includes initial results)
PB: Preparation blank
ICS: Interference Chk Std.
LCS: Laboratory Control Std.

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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)
2	AR302013C	AR302013C	D.1.2 (D-4)
2	AR302024C	AR302013C	D.1.2 (D-4)
2	AR302035C	AR302013C	D.1.2 (D-4)
3	AR307018I	AR307018I	D.1.3 (D-5)
3	AR307018J	AR307018I	D.1.3 (D-5)
3	AR307029H	AR307018I	D.1.3 (D-5)
3	AR307030H	AR307018I	D.1.3 (D-5)
3	AR307041H	AR307018I	D.1.3 (D-5)
4	AR308019C	AR308019C	D.1.4 (D-6)
4	AR308020C	AR308019C	D.1.4 (D-6)
4	AR308031C	AR308031C	D.1.5 (D-8)
4	AR308042H	AR307018I	D.1.3 (D-5)
7	AR400012I	AR307018I	D.1.3 (D-5)
7	AR401013I	AR401013I	D.1.6 (D-9)
7	AR401024C	AR401013I	D.1.6 (D-9)
7	AR402014I	AR401013I	D.1.6 (D-9)
7	AR403015I	AR401013I	D.1.6 (D-9)
9	AR406030N	AR406030N	D.1.7 (D-10)
9	AR406041N	AR406030N	D.1.7 (D-10)
9	AR407019E	AR406030N	D.1.7 (D-10)
9	AR407086E	AR406030N	D.1.7 (D-10)
9	AR407155G	AR406030N	D.1.7 (D-10)
9	AR411015G	AR411015G	D.1.8 (D-12)
9	AR411026G	AR411015G	D.1.8 (D-12)
9	AR413017N	AR406030N	D.1.7 (D-10)
9	AR413028N	AR406030N	D.1.7 (D-10)
9	AR413051B	AR406030N	D.1.7 (D-10)
9	AR413062H	AR406030N	D.1.7 (D-10)
9	AR415019H	AR307018I	D.1.3 (D-5)
9	AR415020H	AR307018I	D.1.3 (D-5)
9	AR417011E	AR406030N	D.1.7 (D-11)
9	AR419013G	AR307018I	D.1.3 (D-5)
9	AR419024G	AR307018I	D.1.3 (D-5)
9	AR420016G	AR308019C	D.1.4 (D-6)
9	AR420027G	AR308019C	D.1.4 (D-6)
9	AR420038G	AR308019C	D.1.4 (D-7)
10	AR500013H	AR401013I	D.1.6 (D-9)
10	AR500024H	AR401013I	D.1.6 (D-9)
10	AR500046H	AR411015G	D.1.8 (D-12)
10	AR500068H	AR307018I	D.1.3 (D-5)
10	AR500080H	AR307018I	D.1.3 (D-5)
10	AR500091H	AR401013I	D.1.6 (D-9)
10	AR500104H	AR401013I	D.1.6 (D-9)
10	AR500115H	AR401013I	D.1.6 (D-9)
10	AR500126H	AR401013I	D.1.6 (D-9)
10	AR500240H	AR302013C	D.1.2 (D-4)
10	AR500251H	AR500251H	D.1.9 (D-14)
10	AR500273H	AR411015G	D.1.8 (D-12)
10	AR500295H	AR401013I	D.1.6 (D-9)
10	AR500319H	AR401013I	D.1.6 (D-9)
10	AR500320H	AR302013C	D.1.2 (D-4)

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)
10	AR500331H	AR302013C	D.1.2 (D-4)
10	AR500342H	AR302013C	D.1.2 (D-4)
10	AR500353H	AR307018I	D.1.3 (D-5)
10	AR500477H	AR411015G	D.1.8 (D-12)
10	AR500488H	AR411015G	D.1.8 (D-12)
10	AR500502H	AR411015G	D.1.8 (D-12)
10	AR500524H	AR307018I	D.1.3 (D-5)
10	AR500546H	AR302013C	D.1.2 (D-4)
10	AR500557H	AR411015G	D.1.8 (D-12)
10	AR500568H	AR411015G	D.1.8 (D-12)
10	AR500579H	AR411015G	D.1.8 (D-12)
10	AR500580H	AR411015G	D.1.8 (D-12)
10	AR500706C	AR302013C	D.1.2 (D-4)
10	AR500717H	AR307018I	D.1.3 (D-5)
11	AR501014D	AR308019C	D.1.4 (D-6)
11	AR501025D	AR308019C	D.1.4 (D-6)
11	AR501036D	AR308019C	D.1.4 (D-6)
11	AR501047D	AR308019C	D.1.4 (D-6)
11	AR501058D	AR308019C	D.1.4 (D-6)
11	AR501069D	AR308019C	D.1.4 (D-6)
11	AR501070H	AR307018I	D.1.3 (D-5)
12	AR502015A	AR502015A	D.1.10 (D-15)
12	AR502026A	AR502015A	D.1.10 (D-15)
12	AR502037A	AR502015A	D.1.10 (D-15)
12	AR503016B	AR503016B	D.1.11 (D-16)
12	AR503027B	AR503016B	D.1.11 (D-16)
12	AR503038B	AR503016B	D.1.11 (D-16)
12	AR503049B	AR503016B	D.1.11 (D-16)
13	AR504017A	AR504017A	D.1.12 (D-17)
13	AR504028A	AR504017A	D.1.12 (D-17)
13	AR504039A	AR504017A	D.1.12 (D-17)
13	AR504040A	AR504017A	D.1.12 (D-17)
13	AR504051A	AR504017A	D.1.12 (D-17)
13	AR504062A	AR504017A	D.1.12 (D-17)
13	AR504073A	AR504073A	D.1.13 (D-18)
14	AR505018C	AR308019C	D.1.4 (D-6)
14	AR505029C	AR308019C	D.1.4 (D-6)
17	AR802018D	AR308019C	D.1.4 (D-6)
17	AR802029D	AR308019C	D.1.4 (D-6)
17	AR802030D	AR308019C	D.1.4 (D-6)
17	AR802041D	AR308019C	D.1.4 (D-6)
17	AR802052D	AR302013C	D.1.2 (D-4)
17	AR802063D	AR302013C	D.1.2 (D-4)
17	AR802074D	AR302013C	D.1.2 (D-4)
17	AR802085D	AR302013C	D.1.2 (D-4)
17	AR802096D	AR302013C	D.1.2 (D-4)
17	AR802109J	AR401013I	D.1.6 (D-9)
18	AR803019C	AR411015G	D.1.8 (D-12)
18	AR803020C	AR411015G	D.1.8 (D-12)
18	AR803031C	AR411015G	D.1.8 (D-12)
18	AR803053C	AR411015G	D.1.8 (D-12)
18	AR803064C	AR411015G	D.1.8 (D-12)

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)
18	AR804010C	AR308019C	D.1.4 (D-6)
18	AR804021C	AR308019C	D.1.4 (D-6)
18	AR804032C	AR308019C	D.1.4 (D-6)
18	AR804043G	AR307018I	D.1.3 (D-5)
19	AR805011C	AR308019C	D.1.4 (D-6)
19	AR805022C	AR308019C	D.1.4 (D-6)
19	AR805033C	AR308019C	D.1.4 (D-6)
20	AR806012C	AR308031C	D.1.5 (D-8)
20	AR806023C	AR308031C	D.1.5 (D-8)
20	AR806034C	AR308031C	D.1.5 (D-8)
20	AR806045C	AR308031C	D.1.5 (D-8)
20	AR806056C	AR308031C	D.1.5 (D-8)
20	AR806078C	AR308031C	D.1.5 (D-8)
20	AR806089C	AR308031C	D.1.5 (D-8)
20	AR806090H	AR302013C	D.1.2 (D-4)
23	AR810018C	AR308031C	D.1.5 (D-8)
23	AR810029C	AR308031C	D.1.5 (D-8)
23	AR810030C	AR308031C	D.1.5 (D-8)
23	AR810041C	AR308031C	D.1.5 (D-8)
23	AR810052C	AR308031C	D.1.5 (D-8)
23	AR810063C	AR308031C	D.1.5 (D-8)
23	AR810074C	AR308031C	D.1.5 (D-8)
23	AR810085C	AR308031C	D.1.5 (D-8)
23	AR810096C	AR308031C	D.1.5 (D-8)
28	AR819017C	AR308019C	D.1.4 (D-6)
28	AR819028C	AR308019C	D.1.4 (D-6)
28	AR819039C	AR308019C	D.1.4 (D-6)

TABLE D.1.2 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR302013C

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AREA	QA	QA				QA	QA
LOCATION	CALIBRATION	CALIBRATION	SAWMILL CR	SAWMILL CR	SAWMILL CR	DUPLICATE	MATRIX
TYPE OF LOCATION	VER TRUE	VER FOUND	BACKGROUND	BACKGROUND	BACKGROUND		SPIKE
SAMPLE NUMBER	ARCVA1235	ARCVA1222	AR302035C	AR302024C	AR302013C	AR302013C	AR302013C
MATRIX	WATER	WATER	SEDIM	SEDIM	SEDIM	SEDIM	SEDIMENT
UNITS	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO			2	2	2	2	2
CYANIDE	28100	29100	250 U	250 U	250 U	250 U	38

AREA	QA						QA
LOCATION	MS %	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	DUPLICATE
TYPE OF LOCATION	RECOVERY	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	
SAMPLE NUMBER	AR302013C	AR802096D	AR802085D	AR802074D	AR802063D	AR802052D	AR802052D
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	%	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO	2	17	17	17	17	17	17
CYANIDE	84	250 U	250 U	250 U	250 U	250 U	250 U

AREA	QA	QA					
LOCATION	MATRIX	MS %	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	SPIKE	RECOVERY	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR802052D	AR802052D	AR500240H	AR500320H	AR500546H	AR500706C	AR500331H
MATRIX	SOIL		WATER	WATER	WATER	WATER	WATER
UNITS	MG/KG	%	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	17	17	10	10	10	10	10
CYANIDE	32	110	2 U	7	5	2 U	2 U

AREA		QA	QA				
LOCATION	RET. TANKS	MATRIX	MS %	570 WTP			
TYPE OF LOCATION	WASTEWATER	SPIKE	RECOVERY	LAGOON			
SAMPLE NUMBER	AR500342H	AR500342H	AR500342H	AR806090H			
MATRIX	WATER	WATER		WATER			
UNITS	UG/L	UG/L	%	UG/L			
ENV PROBLEM NO	10	10	10	20			
CYANIDE	2 U	42	94	2 U			

TABLE D.1.3 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR307018I

DRAFT DO NOT CITE

AREA	QA	QA					
LOCATION	CALIBRATION	CALIBRATION	COAL PILE	PLOT M	PLOT M	PLOT M	PLOT M
TYPE OF LOCATION	VER TRUE	VER FOUND	RUNOFF	WELL	WELL	WELL	WELL
SAMPLE NUMBER	ARCVA1237	ARCVA1224	AR308042H	AR415020H	AR415019H	AR419024G	AR419013G
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	9	9	9	9
CYANIDE	28100	27300	2 U	2 U	2 U	2 U	2 U

AREA				QA	QA		QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	MATRIX	MS %	SE 317 ARE	MATRIX
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	SPIKE	RECOVERY	DRAINAGE	SPIKE
SAMPLE NUMBER	AR500080H	AR500717H	AR500068H	AR500068H	AR500068H	AR804043G	AR804043G
MATRIX	WATER	WATER	WATER	WATER		WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	%	UG/L	UG/L
ENV PROBLEM NO	10	10	10	10	10	18	18
CYANIDE	3	2 U	2	44	97	2 U	59

AREA	QA						
LOCATION	MS %	B31 TAP WA	NPDESOUTF2	NPDESOUTF2	NPDESOUTF2	NPDESOUTF2	NPDESOUTF2
TYPE OF LOCATION	RECOVERY	WELLS	SEEP	SEEP	SEEP	SEEP	SEEP
SAMPLE NUMBER	AR804043G	AR400012I	AR307018I	AR307018J	AR307029H	AR307030H	AR307041H
MATRIX		WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	18	7	3	3	3	3	3
CYANIDE	100	2 U	2 U	2 U	2 U	2 U	2

AREA	QA	QA					
LOCATION	MATRIX	MS %	RET. TANKS	RET. TANKS	DRYING BED		
TYPE OF LOCATION	SPIKE	RECOVERY	WASTEWATER	WASTEWATER	SLUDGE		
SAMPLE NUMBER	AR307041H	AR307041H	AR500353H	AR500524H	AR501070H		
MATRIX	WATER		WATER	WATER	WATER		
UNITS	UG/L	%	UG/L	UG/L	UG/L		
ENV PROBLEM NO	3	3	10	10	11		
CYANIDE	62	83	9	2 U	2 U		

TABLE D.1.4 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR308019C

AREA							
LOCATION	COAL PILE RUNOFF	COAL PILE RUNOFF	317 AREA BURN PILE	317 AREA BURN PILE	SE 317 ARE DRAINAGE	SE 317 ARE DRAINAGE	SE 317 ARE DRAINAGE
TYPE OF LOCATION	AR308019C	AR308020C	AR505029C	AR505018C	AR804032C	AR804021C	AR804010C
SAMPLE NUMBER	SEDIM	SEDIM	SOIL	SOIL	SEDIM	SEDIM	SEDIM
MATRIX	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
UNITS	4	4	14	14	18	18	18
ENV PROBLEM NO							
CYANIDE	250 U	250 U	250 U	250 U	250 U	250 U	250 U
				QA	QA	QA	
AREA							
LOCATION	319 LANDFI	319 LANDFI	319 LANDFI	DUPLICATE	MATRIX SPIKE	MS % RECOVERY	PLOT M SEEP
TYPE OF LOCATION	LANDFILL	LANDFILL	LANDFILL	AR805011C	AR805011C	AR805011C	AR819039C
SAMPLE NUMBER	AR805033C	AR805022C	AR805011C	SEDIM	SEDIMENT	%	SEDIM
MATRIX	SEDIM	SEDIM	SEDIM	MG/KG	MG/KG	19	MG/KG
UNITS	MG/KG	MG/KG	MG/KG	19	19		28
ENV PROBLEM NO	19	19	19				
CYANIDE	250 U	250 U	250 U	250 U	31	105	250 U
AREA							
LOCATION	PLOT M SEEP	PLOT M SEEP	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	DRYING BED SLUDGE
TYPE OF LOCATION	AR819028C	AR819017C	AR802041D	AR802030D	AR802029D	AR802018D	AR501047D
SAMPLE NUMBER	SEDIM	SEDIM	SOIL	SOIL	SOIL	SOIL	SLUDG
MATRIX	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
UNITS	28	28	17	17	17	17	11
ENV PROBLEM NO							
CYANIDE	250 U	250 U	250 U	250 U	250 U	250 U	250 U
AREA							
LOCATION	DRYING BED SLUDGE	DRYING BED SLUDGE	DRYING BED SLUDGE	DRYING BED SLUDGE	DRYING BED SLUDGE	317-319 LF WELL	317-319 LF WELL
TYPE OF LOCATION	AR501058D	AR501069D	AR501014D	AR501025D	AR501036D	AR420016G	AR420027G
SAMPLE NUMBER	SLUDG	SLUDG	SLUDG	SLUDG	SLUDG	WATER	WATER
MATRIX	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L
UNITS	11	11	11	11	11	9	9
ENV PROBLEM NO							
CYANIDE	250 U	250 U	250 U	250 U	250 U	2 U	2 U

TABLE D.1.4 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR308019C

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AREA	
LOCATION	317-319 LF
TYPE OF LOCATION	WELL
SAMPLE NUMBER	AR420038G
MATRIX	WATER
UNITS	UG/L
ENV PROBLEM NO	9
CYANIDE	2 U

TABLE D.1.5 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR308031C

AREA	QA	QA					
LOCATION	CALIBRATION VER TRUE	CALIBRATION VER FOUND	COAL PILE RUNOFF	570 WTP LAGOON	570 WTP LAGOON	570 WTP LAGOON	570 WTP LAGOON
TYPE OF LOCATION	ARCVA1238	ARCVA1225	AR308031C	AR806012C	AR806023C	AR806034C	AR806045C
SAMPLE NUMBER	WATER	WATER	SEDIM	SOIL	SOIL	SOIL	SOIL
MATRIX	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
UNITS			4	20	20	20	20
ENV PROBLEM NO							
CYANIDE	28100	27600	250 U	250 U	250 U	250 U	250 U

AREA				QA	QA		
LOCATION	570 WTP LAGOON	570 WTP LAGOON	570 WTP LAGOON	MATRIX SPIKE	MS % RECOVERY	BLDG 19/34 D&D	BLDG 19/34 D&D
TYPE OF LOCATION	AR806056C	AR806078C	AR806089C	AR806089C	AR806089C	AR810018C	AR810029C
SAMPLE NUMBER	SOIL	SOIL	SOIL	SOIL		SOIL	SOIL
MATRIX	MG/KG	MG/KG	MG/KG	MG/KG	%	MG/KG	MG/KG
UNITS	20	20	20	20	20	23	23
ENV PROBLEM NO							
CYANIDE	250 U	250 U	250 U	30	96	250 U	250 U

AREA							
LOCATION	BLDG 19/34 D&D	BLDG 19/34 D&D	BLDG 19/34 D&D	BLDG 19/34 D&D	BLDG 19/34 D&D	BLDG 19/34 D&D	BLDG 19/34 D&D
TYPE OF LOCATION	AR810030C	AR810041C	AR810052C	AR810063C	AR810074C	AR810085C	AR810096C
SAMPLE NUMBER	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
MATRIX	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
UNITS	23	23	23	23	23	23	23
ENV PROBLEM NO							
CYANIDE	250 U	250 U	250 U	250 U	250 U	250 U	250 U

AREA	QA	QA	QA
LOCATION	DUPLICATE	MATRIX SPIKE	MS % RECOVERY
TYPE OF LOCATION	AR810096C	AR810096C	AR810096C
SAMPLE NUMBER	SOIL	SOIL	
MATRIX	MG/KG	MG/KG	%
UNITS	23	23	23
ENV PROBLEM NO			
CYANIDE	250 U	29	102

TABLE D.1.6 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR401013I DRAFT DO NOT CITE

AREA	QA	QA					
LOCATION	CALIBRATION	CALIBRATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	VER TRUE	VER FOUND	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	ARCVA1240	ARCVA1227	AR500126H	AR500024H	AR500319H	AR500013H	AR500091H
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			10	10	10	10	10
CYANIDE	225	200	10	3	2	2 U	3

AREA	QA	QA		QA	QA		
LOCATION	MATRIX	MS %	RET. TANKS	MATRIX	MS %	RET. TANKS	RET. TANKS
TYPE OF LOCATION	SPIKE	RECOVERY	WASTEWATER	SPIKE	RECOVERY	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR500091H	AR500091H	AR500295H	AR500295H	AR500295H	AR500104H	AR500115H
MATRIX	WATER		WATER	WATER		WATER	WATER
UNITS	UG/L	%	UG/L	UG/L	%	UG/L	UG/L
ENV PROBLEM NO	10	10	10	10	10	10	10
CYANIDE	35	74	3	63	97	13	21

AREA							
LOCATION	B32 TAP WA	B32 TAP WA	B163 TAP W	B264 TAP W	319 LDF-NW		
TYPE OF LOCATION	WELLS	WELLS	WELLS	WELLS	BACKGROUND		
SAMPLE NUMBER	AR401024C	AR401013I	AR402014I	AR403015I	AR802109J		
MATRIX	WATER	WATER	WATER	WATER	WATER		
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L		
ENV PROBLEM NO	7	7	7	7	17		
CYANIDE	2 U	2 U	2 U	2 U	2 U		

TABLE D.1.7 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR406030N

AREA	QA	QA	QA	QA	QA	QA	
LOCATION	CONTINUING CAL FOUND	INITIAL CALIBRATION	PREP BLANK	DUPLICATE	DUPLICATE RPD	MS % RECOVERY	WELL #9 WELL
TYPE OF LOCATION	AR1211000	AR1211000	AR1211000	AR407019E	AR407019E	AR407019E	AR407019E
SAMPLE NUMBER	WATER	WATER	WATER	SOIL			SOIL
MATRIX	UG/L	UG/L	UG/L	MG/KG	%	%	MG/KG
UNITS				9	9	9	9
ENV PROBLEM NO							
CYANIDE	35	89	0.32	0.3	0	92	0.3

AREA	QA		QA	QA	QA	QA	QA
LOCATION	MATRIX SPIKE	WELL #9 WELL	CONTINUING CAL FOUND	INITIAL CALIBRATION	DUPLICATE	DUPLICATE RPD	MS % RECOVERY
TYPE OF LOCATION	AR407019E	AR407155G	AR1214000	AR1214000	AR406030N	AR406030N	AR406030N
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER		
MATRIX	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
UNITS	9	9			9	9	9
ENV PROBLEM NO							
CYANIDE	230	0.04	35	71	-3.3	-64	85

AREA		QA			QA	QA	
LOCATION	WELL #9 WELL	MATRIX SPIKE	WELL #9 WELL	WELL #6 WELL	CONTINUING CAL FOUND	INITIAL CALIBRATION	PLOT M WELL
TYPE OF LOCATION	AR406030N	AR406030N	AR406041N	AR407086E	AR1215000	AR1215000	AR413017N
SAMPLE NUMBER	WATER	WATER	WATER	SOIL	WATER	WATER	WATER
MATRIX	UG/L	UG/L	UG/L	MG/KG	UG/L	UG/L	UG/L
UNITS	9	9	9	9			9
ENV PROBLEM NO							
CYANIDE	-1.7	210	-1.7	-0.042	35	90	-1.5

AREA	QA	QA	QA		QA		
LOCATION	DUPLICATE	DUPLICATE RPD	MS % RECOVERY	PLOT M WELL	MATRIX SPIKE	PLOT M NEW WELL	PLOT M NEW WELL
TYPE OF LOCATION	AR413028N	AR413028N	AR413028N	AR413028N	AR413028N	AR413051B	AR413062H
SAMPLE NUMBER	WATER			WATER	WATER	WATER	WATER
MATRIX	UG/L	%	%	UG/L	UG/L	UG/L	UG/L
UNITS	9	9	9	9	9	9	9
ENV PROBLEM NO							
CYANIDE	-1.5	-72	101	-3.2	250	-1.5	1.7

TABLE D.1.7 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR406030N

DRAFT DO NOT CITE

AREA	
LOCATION	319 LANDF.
TYPE OF LOCATION	WELL
SAMPLE NUMBER	AR417011E
MATRIX	SOIL
UNITS	MG/KG
ENV PROBLEM NO	9
CYANIDE	-0.037

TABLE D.1.8 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR411015G

AREA	QA	QA					QA
LOCATION	CALIBRATION	CALIBRATION	800 LANDFI	800 LANDFI	RET. TANKS	RET. TANKS	MATRIX
TYPE OF LOCATION	VER TRUE	VER FOUND	WELL	WELL	WASTEWATER	WASTEWATER	SPIKE
SAMPLE NUMBER	ARCVA1241	ARCVA1228	AR411026G	AR411015G	AR500568H	AR500579H	AR500579H
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			9	9	10	10	10
CYANIDE	28100	28300	2 U	2 U	2 U	2 U	3

AREA	QA		QA	QA			
LOCATION	MS %	RET. TANKS	MATRIX	MS %	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	RECOVERY	WASTEWATER	SPIKE	RECOVERY	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR500579H	AR500273H	AR500273H	AR500273H	AR500502H	AR500046H	AR500477H
MATRIX		WATER	WATER		WATER	WATER	WATER
UNITS	%	UG/L	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO	10	10	10	10	10	10	10
CYANIDE	5.4	2 U	12	21	2 U	2 U	2 U

AREA			QA	QA			
LOCATION	RET. TANKS	RET. TANKS	MATRIX	MS %	RET. TANKS	317 AREA	317 AREA
TYPE OF LOCATION	WASTEWATER	WASTEWATER	SPIKE	RECOVERY	WASTEWATER	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR500488H	AR500557H	AR500557H	AR500557H	AR500580H	AR803019C	AR803020C
MATRIX	WATER	WATER	WATER		WATER	SOIL	SOIL
UNITS	UG/L	UG/L	UG/L	%	UG/L	MG/KG	MG/KG
ENV PROBLEM NO	10	10	10	10	10	18	18
CYANIDE	2 U	2 U	52	93	8	250 U	250 U

AREA				QA	QA	QA	QA
LOCATION	317 AREA	317 AREA	317 AREA	DUPLICATE	MATRIX	MS %	MATRIX
TYPE OF LOCATION	DRAINAGE	DRAINAGE	DRAINAGE		SPIKE	RECOVERY	SPIKE
SAMPLE NUMBER	AR803031C	AR803053C	AR803064C	AR803064C	AR803064C	AR803064C	AR500568H
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL		WATER
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	%	UG/L
ENV PROBLEM NO	18	18	18	18	18	18	10
CYANIDE	250 U	250 U	250 U	250 U	29	97	8

TABLE D.1.8 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR411015G DRAFT DO NOT CIT

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	MS %	MATRIX	MS %	MATRIX	MS %	MATRIX	MS %
TYPE OF LOCATION	RECOVERY	SPIKE	RECOVERY	SPIKE	RECOVERY	SPIKE	RECOVERY
SAMPLE NUMBER	AR500568H	AR500502H	AR500502H	AR500046H	AR500046H	AR500477H	AR500477H
MATRIX		WATER		WATER		WATER	
UNITS	%	UG/L	%	UG/L	%	UG/L	%
ENV PROBLEM NO	10	10	10	10	10	10	10
CYANIDE	18	41	92	33	74	43	96

AREA	QA	QA	QA	QA
LOCATION	MATRIX	MS %	MATRIX	MS %
TYPE OF LOCATION	SPIKE	RECOVERY	SPIKE	RECOVERY
SAMPLE NUMBER	AR500488H	AR500488H	AR500580H	AR500580H
MATRIX	WATER		WATER	
UNITS	UG/L	%	UG/L	%
ENV PROBLEM NO	10	10	10	10
CYANIDE	25	56	44	80

TABLE D.1.9 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR500251H

AREA	QA	QA					
LOCATION	CALIBRATION	CALIBRATION	RET. TANKS				
TYPE OF LOCATION	VER TRUE	VER FOUND	WASTEWATER				
SAMPLE NUMBER	ARCVA1242	ARCVA1229	AR500251H				
MATRIX	WATER	WATER	WATER				
UNITS	UG/L	UG/L	UG/L				
ENV PROBLEM NO			10				
CYANIDE	28100	26100	2 U				

TABLE D.1.10 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR502015A

DRAFT DO NOT CITE

AREA	QA	QA				QA	QA
LOCATION	CALIBRATION	CALIBRATION	B145 FLUE	B145 FLUE	B145 FLUE	DUPLICATE	DUPLICATE
TYPE OF LOCATION	VER TRUE	VER FOUND	DISCHARGES	DISCHARGES	DISCHARGES		RPD
SAMPLE NUMBER	ARCVA1243	ARCVA1230	AR502037A	AR502015A	AR502026A	AR502026A	AR502026A
MATRIX	WATER	WATER	SLUDG	SLUDG	SLUDG	SLUDG	
UNITS	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	%
ENV PROBLEM NO			12	12	12	12	12
SULFATE	41900	41100	60000	70000	50000	50000	0

AREA	QA	QA	QA
LOCATION	MATRIX	MS %	INITIAL CAL
TYPE OF LOCATION	SPIKE	RECOVERY	BLANK
SAMPLE NUMBER	AR502026A	AR502026A	ARICB1291
MATRIX	SLUDG		WATER
UNITS	MG/KG	%	UG/L
ENV PROBLEM NO	12	12	
SULFATE	70000	100	5000 U

TABLE D.1.11 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR503016B

DRAFT DO NOT CITE

AREA	QA	QA		QA	QA		
LOCATION	CALIBRATION VER TRUE	CALIBRATION VER FOUND	B145 FLUE DISCHARGES	MATRIX SPIKE	MS % RECOVERY	B145 FLUE DISCHARGES	B145 FLUE DISCHARGES
TYPE OF LOCATION	ARCVA1244	ARCVA1231	AR503016B	AR503016B	AR503016B	AR503027B	AR503038B
SAMPLE NUMBER	WATER	WATER	WATER	WATER		WATER	WATER
MATRIX	UG/L	UG/L	UG/L	UG/L	%	UG/L	UG/L
UNITS			12	12	12	12	12
ENV PROBLEM NO							
SULFATE	41900	41200	5300000	1E+07	102	5000000	5100000

AREA	QA		QA	QA	QA
LOCATION	CALIBRATION VER FOUND	B145 FLUE DISCHARGES	DUPLICATE	DUPLICATE RPD	INITIAL CAL BLANK
TYPE OF LOCATION	ARCVA1232	AR503049B	AR503038B	AR503038B	ARICB1292
SAMPLE NUMBER	WATER	WATER	WATER		WATER
MATRIX	UG/L	UG/L	UG/L	%	UG/L
UNITS		12	12	12	
ENV PROBLEM NO					
SULFATE	40800	5000 U	4900000	4	5000 U

TABLE D.1.12 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR504017A DRAFT DO NOT CITE

AREA	QA	QA	QA				QA
LOCATION	CALIBRATION	CALIBRATION	CALIBRATION	B148 FLUE	B148 FLUE	B148 FLUE	DUPLICATE
TYPE OF LOCATION	VER TRUE	VER TRUE	VER FOUND	SEEPAGE	SEEPAGE	SEEPAGE	
SAMPLE NUMBER	ARCVA1245	ARCVA1246	ARCVA1233	AR504028A	AR504040A	AR504062A	AR504062A
MATRIX	WATER	WATER	WATER	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO				13	13	13	13
SULFATE	41900	41900	39900	990	650	48	49

AREA	QA	QA	QA		QA	QA	
LOCATION	DUPLICATE	INITIAL CAL	CALIBRATION	B148 FLUE	DUPLICATE	DUPLICATE	B148 FLUE
TYPE OF LOCATION	RPD	BLANK	VER FOUND	SEEPAGE		RPD	SEEPAGE
SAMPLE NUMBER	AR504062A	ARICB1293	ARCVA1234	AR504017A	AR504017A	AR504017A	AR504039A
MATRIX		WATER	WATER	SOIL	SOIL		SOIL
UNITS	%	UG/L	UG/L	MG/KG	MG/KG	%	MG/KG
ENV PROBLEM NO	13			13	13	13	13
SULFATE	2	5000 U	40800	600	610	2	40

AREA		QA	QA				
LOCATION	B148 FLUE	MATRIX	MS %				
TYPE OF LOCATION	SEEPAGE	SPIKE	RECOVERY				
SAMPLE NUMBER	AR504051A	AR504051A	AR504051A				
MATRIX	SOIL	SOIL					
UNITS	MG/KG	MG/KG	%				
ENV PROBLEM NO	13	13	13				
SULFATE	320	530	105				

TABLE D.1.13 ARGONNE ANIONS AND CYANIDE - SDG NUMBER: AR504073A

DRAFT DO NOT CITE

AREA	QA	QA		QA	QA	QA	QA
LOCATION	CALIBRATION	CALIBRATION	B148 FLUE	DUPLICATE	DUPLICATE	MATRIX	MS %
TYPE OF LOCATION	VER TRUE	VER FOUND	SEEPAGE		RPD	SPIKE	RECOVERY
SAMPLE NUMBER	ARCVB1250	ARCVB1248	AR504073A	AR504073A	AR504073A	AR504073A	AR504073A
MATRIX	WATER	WATER	WATER	WATER		WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	%	UG/L	%
ENV PROBLEM NO			13	13	13	13	13
SULFATE	41900	39900	1000 U	1000 U	0	5500	110

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	AR300044B	AR300044B	D.2.2 (D-37)
1	AR300044B	AR300044K	D.2.3 (D-47)
1	AR300055B	AR300044B	D.2.2 (D-37)
1	AR300055B	AR300044K	D.2.3 (D-47)
1	AR300066B	AR300044B	D.2.2 (D-40)
1	AR300066B	AR300066K	D.2.4 (D-49)
1	AR300077A	AR300044B	D.2.2 (D-40)
1	AR300077A	AR300066K	D.2.4 (D-49)
2	AR302013D	AR302013D	D.2.5 (D-60)
2	AR302013D	AR803019D	D.2.37 (D-207)
2	AR302013E	AR302013E	D.2.6 (D-66)
2	AR302013E	AR302013K	D.2.7 (D-72)
2	AR302024D	AR302013D	D.2.5 (D-60)
2	AR302024D	AR803019D	D.2.37 (D-206)
2	AR302024E	AR302013E	D.2.6 (D-65)
2	AR302024E	AR302013K	D.2.7 (D-72)
2	AR302035D	AR302013D	D.2.5 (D-60)
2	AR302035D	AR803019D	D.2.37 (D-206)
2	AR302035E	AR302013E	D.2.6 (D-65)
2	AR302035E	AR302013K	D.2.7 (D-72)
3	AR307018G	AR307018G	D.2.8 (D-74)
3	AR307018H	AR300044B	D.2.2 (D-35)
3	AR307018H	AR300044K	D.2.3 (D-46)
3	AR307029F	AR307018G	D.2.8 (D-74)
3	AR307029G	AR300044B	D.2.2 (D-35)
3	AR307029G	AR300044K	D.2.3 (D-46)
3	AR307030F	AR307018G	D.2.8 (D-75)
3	AR307030G	AR300044B	D.2.2 (D-36)
3	AR307030G	AR300044K	D.2.3 (D-46)
3	AR307041F	AR307018G	D.2.8 (D-74)
3	AR307041G	AR300044B	D.2.2 (D-36)
3	AR307041G	AR300044K	D.2.3 (D-47)
4	AR308019D	AR302013D	D.2.5 (D-60)
4	AR308019D	AR805022D	D.2.39 (D-216)
4	AR308019E	AR302013E	D.2.6 (D-66)
4	AR308019E	AR302013K	D.2.7 (D-72)
4	AR308020D	AR302013D	D.2.5 (D-57)
4	AR308020D	AR308020D	D.2.9 (D-76)
4	AR308020D	AR805022D	D.2.39 (D-216)
4	AR308020E	AR302013E	D.2.6 (D-66)
4	AR308020E	AR302013K	D.2.7 (D-72)
4	AR308031D	AR302013D	D.2.5 (D-57)
4	AR308031D	AR308020D	D.2.9 (D-76)
4	AR308031D	AR805022D	D.2.39 (D-216)
4	AR308031E	AR302013E	D.2.6 (D-67)
4	AR308031E	AR302013K	D.2.7 (D-72)
4	AR308042F	AR307018G	D.2.8 (D-75)
4	AR308042F	AR308042F	D.2.10 (D-78)
4	AR308042F	AR400012G	D.2.13 (D-102)
4	AR308042G	AR300044K	D.2.3 (D-45)
4	AR308042G	AR308042G	D.2.11 (D-81)

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)
5	AR309010G	AR300044K	D.2.3 (D-45)
5	AR309010G	AR308042G	D.2.11 (D-81)
5	AR309021G	AR300044K	D.2.3 (D-45)
5	AR309021G	AR308042G	D.2.11 (D-82)
5	AR309032G	AR300044K	D.2.3 (D-45)
5	AR309032G	AR308042G	D.2.11 (D-82)
5	AR309043A	AR300044K	D.2.3 (D-45)
5	AR309043A	AR308042G	D.2.11 (D-82)
5	AR310013C	AR310013C	D.2.12 (D-96)
5	AR310013D	AR302013E	D.2.6 (D-67)
5	AR310013D	AR302013K	D.2.7 (D-72)
5	AR310024C	AR302013D	D.2.5 (D-57)
5	AR310024C	AR308020D	D.2.9 (D-76)
5	AR310024C	AR310013C	D.2.12 (D-88)
5	AR310024D	AR302013E	D.2.6 (D-67)
5	AR310024D	AR302013K	D.2.7 (D-72)
5	AR310035C	AR302013D	D.2.5 (D-57)
5	AR310035C	AR308020D	D.2.9 (D-76)
5	AR310035C	AR310013C	D.2.12 (D-88)
5	AR310035D	AR302013E	D.2.6 (D-67)
5	AR310035D	AR302013K	D.2.7 (D-72)
6	AR311047B	AR300044B	D.2.2 (D-37)
6	AR311047B	AR300044K	D.2.3 (D-47)
6	AR311058B	AR300044B	D.2.2 (D-37)
6	AR311058B	AR300044K	D.2.3 (D-47)
6	AR311069B	AR300044B	D.2.2 (D-40)
6	AR311069B	AR300066K	D.2.4 (D-49)
6	AR311070B	AR300044B	D.2.2 (D-37)
6	AR311070B	AR300044K	D.2.3 (D-47)
7	AR400012G	AR307018G	D.2.8 (D-74)
7	AR400012G	AR308042F	D.2.10 (D-79)
7	AR400012G	AR400012G	D.2.13 (D-102)
7	AR400012H	AR300044B	D.2.2 (D-35)
7	AR400012H	AR300044K	D.2.3 (D-46)
7	AR400012H	AR400012H	D.2.14 (D-105)
7	AR401013G	AR401013G	D.2.15 (D-106)
7	AR401013G	AR401024A	D.2.16 (D-109)
7	AR401013G	AR500353F	D.2.25 (D-152)
7	AR401013H	AR300044B	D.2.2 (D-36)
7	AR401013H	AR300044K	D.2.3 (D-47)
7	AR401013H	AR400012H	D.2.14 (D-105)
7	AR401024A	AR401013G	D.2.15 (D-106)
7	AR401024A	AR401024A	D.2.16 (D-108)
7	AR401024A	AR500353F	D.2.25 (D-151)
7	AR401024B	AR300044B	D.2.2 (D-36)
7	AR401024B	AR300044K	D.2.3 (D-47)
7	AR401024B	AR400012H	D.2.14 (D-105)
7	AR402014G	AR401013G	D.2.15 (D-106)
7	AR402014G	AR401024A	D.2.16 (D-108)
7	AR402014G	AR500353F	D.2.25 (D-152)
7	AR402014H	AR300044B	D.2.2 (D-36)
7	AR402014H	AR300044K	D.2.3 (D-47)

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)
7	AR403015G	AR401013G	D.2.15 (D-106)
7	AR403015G	AR401024A	D.2.16 (D-109)
7	AR403015G	AR403015G	D.2.17 (D-110)
7	AR403015H	AR300044B	D.2.2 (D-36)
7	AR403015H	AR300044K	D.2.3 (D-47)
7	AR403015H	AR400012H	D.2.14 (D-105)
9	AR406030K	AR406030K	D.2.18 (D-115)
9	AR406030K	AR406030M	D.2.19 (D-119)
9	AR406041K	AR406030K	D.2.18 (D-115)
9	AR406041K	AR406030M	D.2.19 (D-119)
9	AR407019D	AR407019D	D.2.20 (D-127)
9	AR407086D	AR407019D	D.2.20 (D-126)
9	AR407155J	AR406030K	D.2.18 (D-115)
9	AR407155J	AR406030M	D.2.19 (D-119)
9	AR407155J	AR407019D	D.2.20 (D-127)
9	AR411015F	AR300044B	D.2.2 (D-42)
9	AR411015F	AR300066K	D.2.4 (D-50)
9	AR411026F	AR300044B	D.2.2 (D-42)
9	AR411026F	AR300066K	D.2.4 (D-50)
9	AR413017K	AR406030K	D.2.18 (D-115)
9	AR413017K	AR406030M	D.2.19 (D-118)
9	AR413028K	AR406030K	D.2.18 (D-115)
9	AR413028K	AR406030M	D.2.19 (D-118)
9	AR413051A	AR406030K	D.2.18 (D-115)
9	AR413051A	AR406030M	D.2.19 (D-118)
9	AR413062G	AR406030K	D.2.18 (D-115)
9	AR413062G	AR406030M	D.2.19 (D-117)
9	AR415019F	AR307018G	D.2.8 (D-75)
9	AR415019F	AR400012G	D.2.13 (D-100)
9	AR415019F	AR415019F	D.2.21 (D-136)
9	AR415019G	AR300044K	D.2.3 (D-45)
9	AR415019G	AR308042G	D.2.11 (D-82)
9	AR415020F	AR307018G	D.2.8 (D-75)
9	AR415020F	AR400012G	D.2.13 (D-101)
9	AR415020F	AR415019F	D.2.21 (D-136)
9	AR415020G	AR300044K	D.2.3 (D-45)
9	AR415020G	AR308042G	D.2.11 (D-82)
9	AR417011D	AR407019D	D.2.20 (D-126)
9	AR419013F	AR300044K	D.2.3 (D-45)
9	AR419013F	AR308042G	D.2.11 (D-83)
9	AR419024F	AR300044K	D.2.3 (D-45)
9	AR419024F	AR308042G	D.2.11 (D-83)
9	AR420016F	AR300044B	D.2.2 (D-40)
9	AR420016F	AR300066K	D.2.4 (D-50)
9	AR420016F	AR400012H	D.2.14 (D-105)
9	AR420027F	AR300044B	D.2.2 (D-41)
9	AR420027F	AR300066K	D.2.4 (D-50)
9	AR420027F	AR400012H	D.2.14 (D-105)
9	AR420038F	AR300044B	D.2.2 (D-41)
9	AR420038F	AR300066K	D.2.4 (D-50)
9	AR420038F	AR400012H	D.2.14 (D-105)
10	AR500013F	AR307018G	D.2.8 (D-74)

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)
10	AR500013F	AR308042F	D.2.10 (D-79)
10	AR500013F	AR400012G	D.2.13 (D-104)
10	AR500013G	AR300044K	D.2.3 (D-46)
10	AR500013G	AR308042G	D.2.11 (D-84)
10	AR500024F	AR307018G	D.2.8 (D-74)
10	AR500024F	AR308042F	D.2.10 (D-78)
10	AR500024F	AR400012G	D.2.13 (D-104)
10	AR500024G	AR300044K	D.2.3 (D-46)
10	AR500024G	AR308042G	D.2.11 (D-84)
10	AR500046F	AR403015G	D.2.17 (D-111)
10	AR500046F	AR415019F	D.2.21 (D-137)
10	AR500046F	AR500046F	D.2.22 (D-138)
10	AR500046G	AR300066K	D.2.4 (D-51)
10	AR500046G	AR500046G	D.2.23 (D-142)
10	AR500068F	AR307018G	D.2.8 (D-75)
10	AR500068F	AR308042F	D.2.10 (D-79)
10	AR500068F	AR400012G	D.2.13 (D-100)
10	AR500068G	AR300044K	D.2.3 (D-46)
10	AR500068G	AR308042G	D.2.11 (D-83)
10	AR500080F	AR307018G	D.2.8 (D-75)
10	AR500080F	AR308042F	D.2.10 (D-79)
10	AR500080F	AR400012G	D.2.13 (D-103)
10	AR500080G	AR300044K	D.2.3 (D-46)
10	AR500080G	AR308042G	D.2.11 (D-83)
10	AR500091F	AR307018G	D.2.8 (D-74)
10	AR500091F	AR308042F	D.2.10 (D-79)
10	AR500091F	AR400012G	D.2.13 (D-103)
10	AR500091G	AR300044B	D.2.2 (D-35)
10	AR500091G	AR300044K	D.2.3 (D-46)
10	AR500104F	AR401013G	D.2.15 (D-106)
10	AR500104F	AR401024A	D.2.16 (D-109)
10	AR500104F	AR500353F	D.2.25 (D-153)
10	AR500104G	AR300044B	D.2.2 (D-36)
10	AR500104G	AR300044K	D.2.3 (D-47)
10	AR500115F	AR401013G	D.2.15 (D-107)
10	AR500115F	AR401024A	D.2.16 (D-109)
10	AR500115F	AR500353F	D.2.25 (D-153)
10	AR500115G	AR300044B	D.2.2 (D-36)
10	AR500115G	AR300044K	D.2.3 (D-47)
10	AR500126F	AR307018G	D.2.8 (D-74)
10	AR500126F	AR308042F	D.2.10 (D-78)
10	AR500126F	AR400012G	D.2.13 (D-103)
10	AR500126G	AR300044K	D.2.3 (D-46)
10	AR500126G	AR308042G	D.2.11 (D-84)
10	AR500240F	AR401024A	D.2.16 (D-108)
10	AR500240F	AR500240F	D.2.24 (D-147)
10	AR500240F	AR500353F	D.2.25 (D-149)
10	AR500240G	AR300044B	D.2.2 (D-39)
10	AR500240G	AR300066K	D.2.4 (D-49)
10	AR500251F	AR401024A	D.2.16 (D-109)
10	AR500251F	AR500240F	D.2.24 (D-147)
10	AR500251F	AR500353F	D.2.25 (D-153)

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)
10	AR500251G	AR300044B	D.2.2 (D-39)
10	AR500251G	AR300066K	D.2.4 (D-49)
10	AR500273F	AR403015G	D.2.17 (D-111)
10	AR500273F	AR415019F	D.2.21 (D-137)
10	AR500273F	AR500046F	D.2.22 (D-138)
10	AR500273G	AR300066K	D.2.4 (D-51)
10	AR500273G	AR500046G	D.2.23 (D-142)
10	AR500295F	AR307018G	D.2.8 (D-74)
10	AR500295F	AR308042F	D.2.10 (D-79)
10	AR500295F	AR400012G	D.2.13 (D-103)
10	AR500295G	AR300044B	D.2.2 (D-35)
10	AR500295G	AR300044K	D.2.3 (D-46)
10	AR500319F	AR307018G	D.2.8 (D-74)
10	AR500319F	AR308042F	D.2.10 (D-79)
10	AR500319F	AR400012G	D.2.13 (D-104)
10	AR500319G	AR300044K	D.2.3 (D-46)
10	AR500319G	AR308042G	D.2.11 (D-84)
10	AR500320F	AR401024A	D.2.16 (D-108)
10	AR500320F	AR500240F	D.2.24 (D-147)
10	AR500320F	AR500353F	D.2.25 (D-149)
10	AR500320G	AR300044B	D.2.2 (D-39)
10	AR500320G	AR300066K	D.2.4 (D-49)
10	AR500331F	AR401013G	D.2.15 (D-106)
10	AR500331F	AR403015G	D.2.17 (D-112)
10	AR500331F	AR806090F	D.2.41 (D-225)
10	AR500331G	AR300044B	D.2.2 (D-41)
10	AR500331G	AR300066K	D.2.4 (D-50)
10	AR500342F	AR401013G	D.2.15 (D-106)
10	AR500342F	AR403015G	D.2.17 (D-113)
10	AR500342F	AR806090F	D.2.41 (D-225)
10	AR500342G	AR300044B	D.2.2 (D-42)
10	AR500342G	AR300066K	D.2.4 (D-50)
10	AR500353F	AR401024A	D.2.16 (D-109)
10	AR500353F	AR500240F	D.2.24 (D-147)
10	AR500353F	AR500353F	D.2.25 (D-150)
10	AR500353G	AR300044B	D.2.2 (D-39)
10	AR500353G	AR300066K	D.2.4 (D-49)
10	AR500477F	AR403015G	D.2.17 (D-113)
10	AR500477F	AR415019F	D.2.21 (D-137)
10	AR500477F	AR500046F	D.2.22 (D-138)
10	AR500477G	AR300066K	D.2.4 (D-51)
10	AR500477G	AR500046G	D.2.23 (D-143)
10	AR500488F	AR403015G	D.2.17 (D-112)
10	AR500488F	AR415019F	D.2.21 (D-137)
10	AR500488F	AR500046F	D.2.22 (D-138)
10	AR500488G	AR300066K	D.2.4 (D-51)
10	AR500488G	AR500046G	D.2.23 (D-143)
10	AR500502F	AR403015G	D.2.17 (D-111)
10	AR500502F	AR415019F	D.2.21 (D-137)
10	AR500502F	AR500046F	D.2.22 (D-138)
10	AR500502G	AR300066K	D.2.4 (D-51)
10	AR500502G	AR500046G	D.2.23 (D-142)

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)
10	AR500524F	AR401024A	D.2.16 (D-109)
10	AR500524F	AR500240F	D.2.24 (D-147)
10	AR500524F	AR500353F	D.2.25 (D-150)
10	AR500524G	AR300044B	D.2.2 (D-39)
10	AR500524G	AR300066K	D.2.4 (D-49)
10	AR500546F	AR401024A	D.2.16 (D-109)
10	AR500546F	AR500240F	D.2.24 (D-147)
10	AR500546F	AR500353F	D.2.25 (D-150)
10	AR500546G	AR300044B	D.2.2 (D-39)
10	AR500546G	AR300066K	D.2.4 (D-49)
10	AR500557F	AR403015G	D.2.17 (D-113)
10	AR500557F	AR415019F	D.2.21 (D-137)
10	AR500557F	AR500046F	D.2.22 (D-138)
10	AR500557G	AR300066K	D.2.4 (D-51)
10	AR500557G	AR500046G	D.2.23 (D-143)
10	AR500568F	AR403015G	D.2.17 (D-114)
10	AR500568F	AR415019F	D.2.21 (D-137)
10	AR500568F	AR500046F	D.2.22 (D-138)
10	AR500568G	AR300066K	D.2.4 (D-50)
10	AR500568G	AR500046G	D.2.23 (D-142)
10	AR500579F	AR403015G	D.2.17 (D-114)
10	AR500579F	AR415019F	D.2.21 (D-137)
10	AR500579F	AR500046F	D.2.22 (D-138)
10	AR500579G	AR300066K	D.2.4 (D-50)
10	AR500579G	AR500046G	D.2.23 (D-142)
10	AR500580F	AR403015G	D.2.17 (D-113)
10	AR500580F	AR415019F	D.2.21 (D-137)
10	AR500580F	AR500046F	D.2.22 (D-139)
10	AR500580G	AR300066K	D.2.4 (D-51)
10	AR500580G	AR500046G	D.2.23 (D-143)
10	AR500706A	AR401024A	D.2.16 (D-108)
10	AR500706A	AR500240F	D.2.24 (D-147)
10	AR500706A	AR500353F	D.2.25 (D-152)
10	AR500706B	AR300044B	D.2.2 (D-40)
10	AR500706B	AR300066K	D.2.4 (D-49)
10	AR500717F	AR307018G	D.2.8 (D-75)
10	AR500717F	AR308042F	D.2.10 (D-79)
10	AR500717F	AR400012G	D.2.13 (D-102)
10	AR500717G	AR300044K	D.2.3 (D-46)
10	AR500717G	AR308042G	D.2.11 (D-83)
11	AR501014E	AR406030M	D.2.19 (D-120)
11	AR501014E	AR501014K	D.2.27 (D-157)
11	AR501014F	AR501014F	D.2.26 (D-154)
11	AR501025E	AR406030M	D.2.19 (D-121)
11	AR501025E	AR501014K	D.2.27 (D-156)
11	AR501025F	AR501014F	D.2.26 (D-154)
11	AR501036E	AR406030M	D.2.19 (D-121)
11	AR501036E	AR501014K	D.2.27 (D-157)
11	AR501036F	AR501014F	D.2.26 (D-154)
11	AR501047E	AR406030M	D.2.19 (D-120)
11	AR501047E	AR501014K	D.2.27 (D-156)
11	AR501047F	AR501014F	D.2.26 (D-154)

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)
11	AR501058E	AR406030M	D.2.19 (D-120)
11	AR501058E	AR501014K	D.2.27 (D-157)
11	AR501058F	AR501014F	D.2.26 (D-154)
11	AR501069E	AR406030M	D.2.19 (D-120)
11	AR501069E	AR501014K	D.2.27 (D-157)
11	AR501069F	AR501014F	D.2.26 (D-154)
11	AR501070F	AR401024A	D.2.16 (D-108)
11	AR501070G	AR300044B	D.2.2 (D-40)
11	AR501070G	AR300066K	D.2.4 (D-49)
12	AR502015B	AR302013E	D.2.6 (D-67)
12	AR502015B	AR302013K	D.2.7 (D-72)
12	AR502026B	AR302013E	D.2.6 (D-67)
12	AR502026B	AR302013K	D.2.7 (D-72)
12	AR502037B	AR302013E	D.2.6 (D-67)
12	AR502037B	AR302013K	D.2.7 (D-72)
12	AR503016C	AR300044K	D.2.3 (D-46)
12	AR503016C	AR308042G	D.2.11 (D-83)
12	AR503027C	AR300044K	D.2.3 (D-47)
12	AR503027C	AR308042G	D.2.11 (D-83)
12	AR503038C	AR300044K	D.2.3 (D-46)
12	AR503038C	AR308042G	D.2.11 (D-83)
12	AR503049C	AR300044K	D.2.3 (D-46)
12	AR503049C	AR308042G	D.2.11 (D-84)
13	AR504017B	AR406030M	D.2.19 (D-121)
13	AR504017B	AR501014K	D.2.27 (D-157)
13	AR504028B	AR406030M	D.2.19 (D-122)
13	AR504028B	AR501014K	D.2.27 (D-157)
13	AR504039B	AR406030M	D.2.19 (D-122)
13	AR504039B	AR501014K	D.2.27 (D-157)
13	AR504040B	AR406030M	D.2.19 (D-122)
13	AR504040B	AR501014K	D.2.27 (D-157)
13	AR504051B	AR406030M	D.2.19 (D-122)
13	AR504051B	AR501014K	D.2.27 (D-157)
13	AR504062B	AR406030M	D.2.19 (D-122)
13	AR504062B	AR501014K	D.2.27 (D-157)
13	AR504073B	AR300044B	D.2.2 (D-40)
13	AR504073B	AR300066K	D.2.4 (D-49)
14	AR505018D	AR310013C	D.2.12 (D-88)
14	AR505018E	AR302013E	D.2.6 (D-67)
14	AR505018E	AR302013K	D.2.7 (D-73)
14	AR505029D	AR310013C	D.2.12 (D-88)
14	AR505029E	AR302013E	D.2.6 (D-67)
14	AR505029E	AR302013K	D.2.7 (D-73)
15	AR506019A	AR506019A	D.2.28 (D-158)
15	AR506020A	AR506019A	D.2.28 (D-158)
15	AR506031A	AR506019A	D.2.28 (D-158)
15	AR506042A	AR506019A	D.2.28 (D-159)
15	AR506053A	AR506019A	D.2.28 (D-159)
15	AR506064A	AR506019A	D.2.28 (D-160)
15	AR506075A	AR506019A	D.2.28 (D-160)
15	AR506086A	AR506019A	D.2.28 (D-159)
15	AR506097A	AR506019A	D.2.28 (D-159)

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)
16	AR507010C	AR507010C	D.2.29 (D-162)
16	AR507010C	AR507010K	D.2.30 (D-169)
16	AR507021C	AR507010C	D.2.29 (D-162)
16	AR507021C	AR507010K	D.2.30 (D-169)
16	AR507032C	AR507010C	D.2.29 (D-163)
16	AR507032C	AR507010K	D.2.30 (D-169)
17	AR800016C	AR302013D	D.2.5 (D-57)
17	AR800016C	AR308020D	D.2.9 (D-76)
17	AR800016C	AR310013C	D.2.12 (D-89)
17	AR800016D	AR302013E	D.2.6 (D-67)
17	AR800016D	AR302013K	D.2.7 (D-73)
17	AR800027C	AR302013D	D.2.5 (D-57)
17	AR800027C	AR308020D	D.2.9 (D-76)
17	AR800027C	AR310013C	D.2.12 (D-89)
17	AR800027D	AR302013E	D.2.6 (D-68)
17	AR800027D	AR302013K	D.2.7 (D-73)
17	AR800038C	AR302013D	D.2.5 (D-57)
17	AR800038C	AR308020D	D.2.9 (D-76)
17	AR800038C	AR310013C	D.2.12 (D-89)
17	AR800038D	AR302013E	D.2.6 (D-68)
17	AR800038D	AR302013K	D.2.7 (D-73)
17	AR800049C	AR302013D	D.2.5 (D-57)
17	AR800049C	AR308020D	D.2.9 (D-76)
17	AR800049C	AR310013C	D.2.12 (D-89)
17	AR800049D	AR302013E	D.2.6 (D-68)
17	AR800049D	AR302013K	D.2.7 (D-73)
17	AR800050C	AR308020D	D.2.9 (D-76)
17	AR800050C	AR310013C	D.2.12 (D-89)
17	AR800050C	AR800050C	D.2.31 (D-174)
17	AR800050D	AR302013E	D.2.6 (D-68)
17	AR800050D	AR302013K	D.2.7 (D-73)
17	AR800061C	AR308020D	D.2.9 (D-76)
17	AR800061C	AR310013C	D.2.12 (D-89)
17	AR800061C	AR800050C	D.2.31 (D-174)
17	AR800061D	AR302013E	D.2.6 (D-69)
17	AR800061D	AR302013K	D.2.7 (D-73)
17	AR801017C	AR801017C	D.2.32 (D-179)
17	AR801017C	AR805022D	D.2.39 (D-216)
17	AR801017C	AR806012D	D.2.40 (D-221)
17	AR801017D	AR507010C	D.2.29 (D-163)
17	AR801017D	AR507010K	D.2.30 (D-169)
17	AR801028C	AR801028C	D.2.33 (D-189)
17	AR801028C	AR805022D	D.2.39 (D-217)
17	AR801028D	AR507010C	D.2.29 (D-163)
17	AR801028D	AR507010K	D.2.30 (D-169)
17	AR801039C	AR302013D	D.2.5 (D-61)
17	AR801039C	AR801028C	D.2.33 (D-181)
17	AR801039C	AR805022D	D.2.39 (D-217)
17	AR801039D	AR507010C	D.2.29 (D-164)
17	AR801039D	AR507010K	D.2.30 (D-169)
17	AR802018E	AR302013D	D.2.5 (D-60)
17	AR802018E	AR501014F	D.2.26 (D-154)

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)
17	AR802018E	AR802018E	D.2.34 (D-192)
17	AR802018F	AR406030M	D.2.19 (D-120)
17	AR802018F	AR501014K	D.2.27 (D-157)
17	AR802029E	AR302013D	D.2.5 (D-60)
17	AR802029E	AR501014F	D.2.26 (D-155)
17	AR802029E	AR802018E	D.2.34 (D-192)
17	AR802029F	AR406030M	D.2.19 (D-120)
17	AR802029F	AR501014K	D.2.27 (D-156)
17	AR802030E	AR501014F	D.2.26 (D-155)
17	AR802030E	AR801017C	D.2.32 (D-178)
17	AR802030E	AR802018E	D.2.34 (D-192)
17	AR802030F	AR406030M	D.2.19 (D-120)
17	AR802030F	AR501014K	D.2.27 (D-156)
17	AR802041E	AR310013C	D.2.12 (D-94)
17	AR802041E	AR501014F	D.2.26 (D-155)
17	AR802041E	AR801028C	D.2.33 (D-189)
17	AR802041F	AR406030M	D.2.19 (D-119)
17	AR802041F	AR501014K	D.2.27 (D-156)
17	AR802052E	AR310013C	D.2.12 (D-94)
17	AR802052E	AR501014F	D.2.26 (D-155)
17	AR802052E	AR801028C	D.2.33 (D-189)
17	AR802052F	AR406030M	D.2.19 (D-119)
17	AR802052F	AR501014K	D.2.27 (D-156)
17	AR802063E	AR302013D	D.2.5 (D-61)
17	AR802063E	AR501014F	D.2.26 (D-155)
17	AR802063E	AR802018E	D.2.34 (D-192)
17	AR802063F	AR406030M	D.2.19 (D-119)
17	AR802063F	AR501014K	D.2.27 (D-156)
17	AR802074E	AR310013C	D.2.12 (D-97)
17	AR802074E	AR501014F	D.2.26 (D-155)
17	AR802074E	AR802018E	D.2.34 (D-192)
17	AR802074F	AR406030M	D.2.19 (D-119)
17	AR802074F	AR501014K	D.2.27 (D-156)
17	AR802085E	AR302013D	D.2.5 (D-61)
17	AR802085E	AR501014F	D.2.26 (D-155)
17	AR802085E	AR802018E	D.2.34 (D-192)
17	AR802085F	AR802085F	D.2.35 (D-199)
17	AR802085F	AR802085K	D.2.36 (D-205)
17	AR802096E	AR501014F	D.2.26 (D-155)
17	AR802096E	AR801017C	D.2.32 (D-178)
17	AR802096E	AR802018E	D.2.34 (D-192)
17	AR802096F	AR802085F	D.2.35 (D-199)
17	AR802096F	AR802085K	D.2.36 (D-205)
17	AR802109H	AR401024A	D.2.16 (D-109)
17	AR802109H	AR500240F	D.2.24 (D-148)
17	AR802109H	AR500353F	D.2.25 (D-152)
17	AR802109I	AR300044B	D.2.2 (D-36)
17	AR802109I	AR300044K	D.2.3 (D-47)
18	AR803019D	AR302013D	D.2.5 (D-61)
18	AR803019D	AR801028C	D.2.33 (D-181)
18	AR803019D	AR803019D	D.2.37 (D-206)
18	AR803019E	AR803019E	D.2.38 (D-212)

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)
18	AR803020D	AR310013C	D.2.12 (D-98)
18	AR803020D	AR801028C	D.2.33 (D-180)
18	AR803020D	AR803019D	D.2.37 (D-206)
18	AR803020E	AR803019E	D.2.38 (D-212)
18	AR803031D	AR801017C	D.2.32 (D-178)
18	AR803031D	AR801028C	D.2.33 (D-181)
18	AR803031D	AR803019D	D.2.37 (D-206)
18	AR803031E	AR803019E	D.2.38 (D-212)
18	AR803053D	AR310013C	D.2.12 (D-98)
18	AR803053D	AR801028C	D.2.33 (D-180)
18	AR803053D	AR803019D	D.2.37 (D-206)
18	AR803053E	AR803019E	D.2.38 (D-212)
18	AR803064D	AR800050C	D.2.31 (D-174)
18	AR803064D	AR801017C	D.2.32 (D-179)
18	AR803064D	AR803019D	D.2.37 (D-206)
18	AR803064E	AR803019E	D.2.38 (D-212)
18	AR804010D	AR800050C	D.2.31 (D-174)
18	AR804010D	AR801028C	D.2.33 (D-189)
18	AR804010D	AR803019D	D.2.37 (D-207)
18	AR804010E	AR802085F	D.2.35 (D-198)
18	AR804010E	AR802085K	D.2.36 (D-204)
18	AR804021D	AR308020D	D.2.9 (D-76)
18	AR804021D	AR800050C	D.2.31 (D-174)
18	AR804021D	AR803019D	D.2.37 (D-207)
18	AR804021E	AR802085F	D.2.35 (D-197)
18	AR804021E	AR802085K	D.2.36 (D-204)
18	AR804032D	AR310013C	D.2.12 (D-96)
18	AR804032D	AR800050C	D.2.31 (D-174)
18	AR804032D	AR803019D	D.2.37 (D-207)
18	AR804032E	AR802085F	D.2.35 (D-197)
18	AR804032E	AR802085K	D.2.36 (D-204)
18	AR804043F	AR307018G	D.2.8 (D-75)
18	AR804043F	AR308042F	D.2.10 (D-79)
18	AR804043F	AR400012G	D.2.13 (D-100)
19	AR805011D	AR310013C	D.2.12 (D-96)
19	AR805011D	AR800050C	D.2.31 (D-174)
19	AR805011D	AR805022D	D.2.39 (D-216)
19	AR805011E	AR802085F	D.2.35 (D-199)
19	AR805011E	AR802085K	D.2.36 (D-204)
19	AR805022D	AR308020D	D.2.9 (D-76)
19	AR805022D	AR800050C	D.2.31 (D-174)
19	AR805022D	AR805022D	D.2.39 (D-216)
19	AR805022E	AR802085F	D.2.35 (D-198)
19	AR805022E	AR802085K	D.2.36 (D-204)
19	AR805033D	AR310013C	D.2.12 (D-96)
19	AR805033D	AR800050C	D.2.31 (D-175)
19	AR805033D	AR805022D	D.2.39 (D-216)
19	AR805033E	AR802085F	D.2.35 (D-198)
19	AR805033E	AR802085K	D.2.36 (D-204)
20	AR806012D	AR801017C	D.2.32 (D-178)
20	AR806012D	AR806012D	D.2.40 (D-221)
20	AR806012D	AR809015A	D.2.43 (D-228)

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)
20	AR806012E	AR803019E	D.2.38 (D-209)
20	AR806023D	AR302013D	D.2.5 (D-61)
20	AR806023D	AR806012D	D.2.40 (D-221)
20	AR806023D	AR809015A	D.2.43 (D-228)
20	AR806023E	AR803019E	D.2.38 (D-209)
20	AR806034D	AR310013C	D.2.12 (D-97)
20	AR806034D	AR801028C	D.2.33 (D-180)
20	AR806034D	AR809015A	D.2.43 (D-228)
20	AR806034E	AR803019E	D.2.38 (D-210)
20	AR806045D	AR801017C	D.2.32 (D-178)
20	AR806045D	AR806012D	D.2.40 (D-221)
20	AR806045D	AR809015A	D.2.43 (D-228)
20	AR806045E	AR803019E	D.2.38 (D-210)
20	AR806056D	AR801017C	D.2.32 (D-178)
20	AR806056D	AR801028C	D.2.33 (D-181)
20	AR806056D	AR809015A	D.2.43 (D-228)
20	AR806056E	AR803019E	D.2.38 (D-210)
20	AR806078D	AR801017C	D.2.32 (D-178)
20	AR806078D	AR806012D	D.2.40 (D-221)
20	AR806078D	AR809015A	D.2.43 (D-228)
20	AR806078E	AR803019E	D.2.38 (D-211)
20	AR806089D	AR801017C	D.2.32 (D-178)
20	AR806089D	AR801028C	D.2.33 (D-181)
20	AR806089D	AR809015A	D.2.43 (D-229)
20	AR806089E	AR803019E	D.2.38 (D-211)
20	AR806090F	AR401013G	D.2.15 (D-106)
20	AR806090F	AR403015G	D.2.17 (D-111)
20	AR806090F	AR806090F	D.2.41 (D-225)
20	AR806090G	AR300044B	D.2.2 (D-42)
20	AR806090G	AR300066K	D.2.4 (D-50)
21	AR807013C	AR310013C	D.2.12 (D-97)
21	AR807013C	AR806012D	D.2.40 (D-222)
21	AR807013C	AR807080C	D.2.42 (D-226)
21	AR807013D	AR507010C	D.2.29 (D-164)
21	AR807013D	AR507010K	D.2.30 (D-169)
21	AR807024C	AR310013C	D.2.12 (D-97)
21	AR807024C	AR807080C	D.2.42 (D-226)
21	AR807024D	AR507010C	D.2.29 (D-164)
21	AR807024D	AR507010K	D.2.30 (D-169)
21	AR807035C	AR310013C	D.2.12 (D-97)
21	AR807035C	AR807080C	D.2.42 (D-227)
21	AR807035D	AR507010C	D.2.29 (D-164)
21	AR807035D	AR507010K	D.2.30 (D-169)
21	AR807046C	AR310013C	D.2.12 (D-98)
21	AR807046C	AR807080C	D.2.42 (D-227)
21	AR807046D	AR507010C	D.2.29 (D-164)
21	AR807046D	AR507010K	D.2.30 (D-169)
21	AR807057C	AR801017C	D.2.32 (D-178)
21	AR807057C	AR806012D	D.2.40 (D-222)
21	AR807057C	AR807080C	D.2.42 (D-226)
21	AR807057D	AR507010C	D.2.29 (D-164)
21	AR807057D	AR507010K	D.2.30 (D-170)

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)
21	AR807068C	AR801017C	D.2.32 (D-178)
21	AR807068C	AR806012D	D.2.40 (D-222)
21	AR807068C	AR807080C	D.2.42 (D-226)
21	AR807068D	AR507010C	D.2.29 (D-164)
21	AR807068D	AR507010K	D.2.30 (D-170)
21	AR807079C	AR801017C	D.2.32 (D-178)
21	AR807079C	AR806012D	D.2.40 (D-222)
21	AR807079C	AR807080C	D.2.42 (D-226)
21	AR807079D	AR507010C	D.2.29 (D-164)
21	AR807079D	AR507010K	D.2.30 (D-170)
21	AR807080C	AR302013D	D.2.5 (D-61)
21	AR807080C	AR807080C	D.2.42 (D-226)
21	AR807080D	AR507010C	D.2.29 (D-164)
21	AR807080D	AR507010K	D.2.30 (D-169)
22	AR809015A	AR310013C	D.2.12 (D-97)
22	AR809015A	AR800050C	D.2.31 (D-175)
22	AR809015A	AR809015A	D.2.43 (D-228)
22	AR809015B	AR802085F	D.2.35 (D-199)
22	AR809015B	AR802085K	D.2.36 (D-204)
22	AR809026A	AR310013C	D.2.12 (D-97)
22	AR809026A	AR800050C	D.2.31 (D-175)
22	AR809026A	AR809015A	D.2.43 (D-228)
22	AR809026B	AR802085F	D.2.35 (D-199)
22	AR809026B	AR802085K	D.2.36 (D-204)
22	AR809037A	AR801017C	D.2.32 (D-178)
22	AR809037A	AR806012D	D.2.40 (D-221)
22	AR809037A	AR809015A	D.2.43 (D-228)
22	AR809037B	AR802085F	D.2.35 (D-199)
22	AR809037B	AR802085K	D.2.36 (D-204)
22	AR809048A	AR401024A	D.2.16 (D-109)
22	AR809048A	AR500240F	D.2.24 (D-148)
22	AR809048A	AR500353F	D.2.25 (D-151)
22	AR809048A	AR809048A	D.2.44 (D-230)
22	AR809048B	AR300044B	D.2.2 (D-36)
22	AR809048B	AR300044K	D.2.3 (D-47)
23	AR810018D	AR801017C	D.2.32 (D-179)
23	AR810018D	AR801028C	D.2.33 (D-180)
23	AR810018D	AR810018D	D.2.45 (D-231)
23	AR810018E	AR803019E	D.2.38 (D-211)
23	AR810029D	AR302013D	D.2.5 (D-61)
23	AR810029D	AR810018D	D.2.45 (D-231)
23	AR810029E	AR803019E	D.2.38 (D-211)
23	AR810030D	AR310013C	D.2.12 (D-94)
23	AR810030D	AR801028C	D.2.33 (D-188)
23	AR810030D	AR810018D	D.2.45 (D-231)
23	AR810030E	AR803019E	D.2.38 (D-211)
23	AR810041D	AR302013D	D.2.5 (D-61)
23	AR810041D	AR801028C	D.2.33 (D-180)
23	AR810041D	AR810018D	D.2.45 (D-231)
23	AR810041E	AR803019E	D.2.38 (D-211)
23	AR810052D	AR302013D	D.2.5 (D-61)
23	AR810052D	AR801028C	D.2.33 (D-181)

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)
23	AR810052D	AR810018D	D.2.45 (D-231)
23	AR810052E	AR803019E	D.2.38 (D-211)
23	AR810063D	AR310013C	D.2.12 (D-94)
23	AR810063D	AR801028C	D.2.33 (D-188)
23	AR810063D	AR810018D	D.2.45 (D-231)
23	AR810063E	AR803019E	D.2.38 (D-211)
23	AR810074D	AR310013C	D.2.12 (D-94)
23	AR810074D	AR801028C	D.2.33 (D-188)
23	AR810074D	AR810018D	D.2.45 (D-232)
23	AR810074E	AR803019E	D.2.38 (D-211)
23	AR810085D	AR310013C	D.2.12 (D-94)
23	AR810085D	AR801028C	D.2.33 (D-189)
23	AR810085D	AR810018D	D.2.45 (D-232)
23	AR810085E	AR803019E	D.2.38 (D-211)
23	AR810096D	AR310013C	D.2.12 (D-94)
23	AR810096D	AR801028C	D.2.33 (D-189)
23	AR810096D	AR810018D	D.2.45 (D-232)
23	AR810096E	AR803019E	D.2.38 (D-212)
25	AR812010C	AR805022D	D.2.39 (D-217)
25	AR812010C	AR812010C	D.2.46 (D-238)
25	AR812010D	AR507010C	D.2.29 (D-164)
25	AR812010D	AR507010K	D.2.30 (D-170)
25	AR812021C	AR805022D	D.2.39 (D-217)
25	AR812021C	AR812010C	D.2.46 (D-239)
25	AR812021D	AR507010C	D.2.29 (D-165)
25	AR812021D	AR507010K	D.2.30 (D-170)
25	AR812032C	AR805022D	D.2.39 (D-217)
25	AR812032C	AR812010C	D.2.46 (D-239)
25	AR812032D	AR507010C	D.2.29 (D-165)
25	AR812032D	AR507010K	D.2.30 (D-170)
25	AR812043C	AR805022D	D.2.39 (D-217)
25	AR812043C	AR812010C	D.2.46 (D-239)
25	AR812043D	AR507010C	D.2.29 (D-165)
25	AR812043D	AR507010K	D.2.30 (D-170)
25	AR812054C	AR805022D	D.2.39 (D-217)
25	AR812054C	AR812010C	D.2.46 (D-239)
25	AR812054D	AR507010C	D.2.29 (D-166)
25	AR812054D	AR507010K	D.2.30 (D-170)
25	AR812065C	AR805022D	D.2.39 (D-217)
25	AR812065C	AR812010C	D.2.46 (D-239)
25	AR812065D	AR507010C	D.2.29 (D-166)
25	AR812065D	AR507010K	D.2.30 (D-170)
25	AR813011A	AR802085F	D.2.35 (D-200)
25	AR813011A	AR802085K	D.2.36 (D-205)
25	AR813022A	AR802085F	D.2.35 (D-200)
25	AR813022A	AR802085K	D.2.36 (D-205)
25	AR813033A	AR802085F	D.2.35 (D-201)
25	AR813033A	AR802085K	D.2.36 (D-205)
25	AR813044A	AR802085F	D.2.35 (D-201)
25	AR813044A	AR802085K	D.2.36 (D-205)
25	AR813055A	AR802085F	D.2.35 (D-201)
25	AR813055A	AR802085K	D.2.36 (D-205)

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)
25	AR813066A	AR802085F	D.2.35 (D-202)
25	AR813066A	AR802085K	D.2.36 (D-205)
25	AR813077A	AR406030M	D.2.19 (D-122)
25	AR813077A	AR813077K	D.2.47 (D-242)
25	AR815137F	AR403015G	D.2.17 (D-110)
25	AR815137F	AR415019F	D.2.21 (D-136)
25	AR815137F	AR500046F	D.2.22 (D-139)
25	AR815137G	AR300066K	D.2.4 (D-51)
25	AR815137G	AR500046G	D.2.23 (D-144)
28	AR819017D	AR310013C	D.2.12 (D-90)
28	AR819017D	AR802018E	D.2.34 (D-191)
28	AR819017D	AR812010C	D.2.46 (D-238)
28	AR819017E	AR802085F	D.2.35 (D-199)
28	AR819017E	AR802085K	D.2.36 (D-204)
28	AR819028D	AR310013C	D.2.12 (D-90)
28	AR819028D	AR812010C	D.2.46 (D-238)
28	AR819028E	AR802085F	D.2.35 (D-199)
28	AR819028E	AR802085K	D.2.36 (D-204)
28	AR819039D	AR310013C	D.2.12 (D-89)
28	AR819039D	AR812010C	D.2.46 (D-238)
28	AR819039E	AR802085F	D.2.35 (D-199)
28	AR819039E	AR802085K	D.2.36 (D-204)

TABLE D.2.2 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044B

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AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INTER CHK	INTER CHK	INITIAL CAL	INITIAL CAL	INITIAL CAL	LAB CONTROL	CRDL STAND
TYPE OF LOCATION		SOL. A TRUE	SOL. AB TRUE	TRUE A	TRUE B	TRUE C	SAMPLE TRUE	TRUE
SAMPLE NUMBER		ARICS1332	ARICS1340	ARICV1364	ARICV1388	ARICV1404	ARLCS1474	ARLRA1507
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								
ALUMINUM	P	502000	508000	100000	990		970	
ANTIMONY	P				1000		990	120
ARSENIC	P				1000		1000	500
BARIUM	P		483		990		970	
BERYLLIUM	P		474		241		960	10
CADMIUM	P		909		244		940	10
CALCIUM	P	506000	516000		24900	5000	1000 B	
CHROMIUM	P		513		253		1030	20
COBALT	P		478		237		1000	100
COPPER	P		534		277		1030	50
IRON	P	196000	203000	100000	995		1020	
LEAD	P		4850		2260		1010	400
MAGNESIUM	P	498000	509000	50000		5000	1000 B	
MANGANESE	P		531	50000	257		1020	30
NICKEL	P		916		248		1020	80
SELENIUM	P				1000		990	800
SILVER	P		993		255		990	20
SODIUM	P			100000		5000	860 B	
VANADIUM	P		475		255		1010	100
ZINC	P		973		1550		1010	40
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND A	FOUND C	BLANK	FOUND B	INITIAL
SAMPLE NUMBER		ARRAN1559	ARRAN1567	ARICV1348	ARICV1396	ARICB1280	ARICV1380	ARLRA1499
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								
ALUMINUM	P	7500	800000	103000		60 U	1030	
ANTIMONY	P	10000				50 U	992	117
ARSENIC	P	20000				60 U	1020	508
BARIUM	P	5000				2 U	965	
BERYLLIUM	P	1500				0.3 U	244	9.8
CADMIUM	P	5000				2 U	240	11
CALCIUM	P	10000	900000		4900 B	200 U	26000	

TABLE D.2.2 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044B

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AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND A	FOUND C	BLANK	FOUND B	INITIAL
SAMPLE NUMBER		ARRAN1559	ARRAN1567	ARICV1348	ARICV1396	ARICB1280	ARICV1380	ARLRA1499
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								
CHROMIUM	P	10000				6 U	259	18
COBALT	P	10000				3 U	249	98
COPPER	P	10000				10 U	263	48
IRON	P	12000	800000	101000		20 U	975	
LEAD	P	50000				50 U	2130	399
MAGNESIUM	P	12000	500000	49900	5110	10 U		
MANGANESE	P	2500	200000	49900		5 U	254	33
NICKEL	P	15000				6 U	239	77
SELENIUM	P	10000				60 U	1010	825
SILVER	P	10000				6 U	246	18
SODIUM	P	10000	500000	99400	4930 B	200 U		
VANADIUM	P	10000				4 U	272	101
ZINC	P	6000				3 U	1490	40
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	CONTINUING	CONTINUING
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	CAL FOUND	CAL FOUND
SAMPLE NUMBER		ARICS1316	ARICS1324	ARPB01515	ARPB01516	ARLCS1452	ARCCV1069	ARCCV1137
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								
ALUMINUM	P	509000	508000	60 U	60 U	1110	104000	970
ANTIMONY	P	50 U	50 U	50 U	50 U	956		974
ARSENIC	P	60 U	60 U	60 U	60 U	991		1030
BARIUM	P	17 B	470	2 U	2 U	970		969
BERYLLIUM	P	1.2 B	456	0.3 U	0.3 U	948		245
CADMIUM	P	22	864	2 U	2 U	839		238
CALCIUM	P	517000	517000	200 U	200 U	912 B		26500
CHROMIUM	P	26	494	6 U	6 U	994		264
COBALT	P	15 B	465	3 U	3 U	972		254
COPPER	P	11 B	529	10 U	10 U	959		260
IRON	P	185000	184000	20 U	20 U	974	102000	992
LEAD	P	50 U	4310	50 U	50 U	947		2150
MAGNESIUM	P	487000	484000	10 U	10 U	984 B	49800	
MANGANESE	P	42	500	5 U	5 U	968	48300	257

TABLE D.2.2 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044B

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AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	CONTINUING	CONTINUING
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	CAL FOUND	CAL FOUND
SAMPLE NUMBER		ARICS1316	ARICS1324	ARPB01515	ARPB01516	ARLCS1452	ARCCV1069	ARCCV1137
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								
NICKEL	P	21 B	825	6 U	6 U	925		237
SELENIUM	P	60 U	60 U	60 U	60 U	972		1020
SILVER	P	7.7 B	989	6 U	6 U	976		253
SODIUM	P	1270 B	1220 B	200 U	200 U	969 B	103000	
VANADIUM	P	4 U	472	4 U	4 U	980		282
ZINC	P	3 U	951	3 U	3 U	976		1510
% SOLIDS								

AREA	METHOD	QA	QA					
LOCATION		CONTINUING	CONTINUING	RET. TANKS	RET. TANKS	B31 TAP WA	NPDESOUTF2	NPDESOUTF2
TYPE OF LOCATION		CAL FOUND	CAL BLANK	WASTEWATER	WASTEWATER	WELLS	SEEP	SEEP
SAMPLE NUMBER		ARCCV1172	ARCCB1001	AR500091G	AR500295G	AR400012H	AR307018H	AR307029G
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				10	10	7	3	3
ALUMINUM	P		60 U	330 NE	121 BNE	78 BNE	3140 NE	71000 NE
ANTIMONY	P		50 U	50 U	50 U	51 B	50 U	50 U
ARSENIC	P		60 U	60 UN	60 UN	60 UN	121 BN	317 N
BARIUM	P		2 U	168 B	26 B	76 B	124 B	607
BERYLLIUM	P		0.3 U	0.32 B	0.3 U	2.7 B	0.74 B	4.7 B
CADMIUM	P		2.3 B	12	2.7 B	4.7 B	3.2 B	17
CALCIUM	P	4790 B	200 U	23100	21700	119000	181000	222000
CHROMIUM	P		6 U	32	64	6 U	6 U	108
COBALT	P		3 U	3 U	3 U	3 U	9.3 B	45 B
COPPER	P		10 U	272	101	10 U	10 U	109
IRON	P		20 U	6660	2130	837	15500	132000
LEAD	P		50 U	118 B	50 U	50 U	50 U	96 B
MAGNESIUM	P	5090	10 U	10200	10300	51900	72000	102000
MANGANESE	P		5 U	79	21	31	2180	4950
NICKEL	P		6 U	178	24 B	7.5 B	29 B	140
SELENIUM	P		60 U	60 U	60 U	60 U	60 U	60 U
SILVER	P		6 U	119	182	6 U	6 U	9.6 B
SODIUM	P	4580 B	200 U	237000	247000	29100	398000	372000
VANADIUM	P		4 U	7.3 B	7.1 B	16 B	21 B	155
ZINC	P		3 U	166	28	7.3 B	46	661
% SOLIDS								

TABLE D.2.2 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044B DRAFT DO NOT CITE

AREA	METHOD					QA	QA
LOCATION		NPDESOUTF2	NPDESOUTF2	RET. TANKS	RET. TANKS	B32 TAP WA	CONTINUING	CONTINUING
TYPE OF LOCATION		SEEP	SEEP	WASTEWATER	WASTEWATER	WELLS	CAL FOUND	CAL FOUND
SAMPLE NUMBER		AR307030G	AR307041G	AR500104G	AR500115G	AR401024B	ARCCV1070	ARCCV1138
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		3	3	10	10	7		
ALUMINUM	P	127 BNE	60 UNE	26600 NE	364000 NE	60 UNE	100000	991
ANTIMONY	P	50 U	50 U	50 U	50 U	50 U		976
ARSENIC	P	115 BN	60 UN	60 UN	60 UN	60 UN		1010
BARIUM	P	87 B	2 U	256	2580	4.4 B		960
BERYLLIUM	P	0.53 B	0.3 U	4.8 B	38	0.3 U		242
CADMIUM	P	2.8 B	2 U	126	1340	2.7 B		238
CALCIUM	P	169000	200 U	131000	974000	200 U		26500
CHROMIUM	P	6 U	6 U	2260	17600	6 U		255
COBALT	P	3 U	3 U	14 B	136	3 U		245
COPPER	P	10 U	10 U	13600	165000	10 U		260
IRON	P	10500	20 U	42700	393000	43 B	102000	978
LEAD	P	50 U	50 U	19300	260000	50 U		2120
MAGNESIUM	P	69800	10 U	33400	167000	16 B	48300	
MANGANESE	P	1900	5 U	1530	21800	5 U	48200	255
NICKEL	P	20 B	6 U	404	2630	7.6 B		237
SELENIUM	P	60 U	60 U	182 B	238 B	60 U		993
SILVER	P	6 U	6 U	48	366	6 U		241
SODIUM	P	281000	200 U	598000	1470000	200 U	97200	
VANADIUM	P	13 B	4 U	25 B	107	4 U		269
ZINC	P	12 B	3 U	486000	5330000	181		1470
% SOLIDS								

AREA	METHOD	QA	QA					
LOCATION		CONTINUING	CONTINUING	B32 TAP WA	B163 TAP W	B264 TAP W	319 LDF-NW	UNDWRTRS P
TYPE OF LOCATION		CAL BLANK	CAL FOUND	WELLS	WELLS	WELLS	BACKGROUND	POND
SAMPLE NUMBER		ARCCB1002	ARCCV1173	AR401013H	AR402014H	AR403015H	AR802109I	AR809048B
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				7	7	7	17	22
ALUMINUM	P	60 U		109 BNE	82 BNE	77 BNE	107 BNE	60 UNE
ANTIMONY	P	50 U		50 U	50 U	50 U	50 U	50 U
ARSENIC	P	60 U		60 UN	60 UN	60 UN	60 UN	60 UN
BARIUM	P	2 U		84 B	60 B	52 B	2 U	2 U
BERYLLIUM	P	0.3 U		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CADMIUM	P	2 U		2.8 B	2 U	2.1 B	2.2 B	2.2 B
CALCIUM	P	200 U	4970 B	126000	132000	127000	200 U	200 U

TABLE D.2.2 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044B

DRAFT DO NOT CITE

AREA	METHOD	QA	QA					
LOCATION		CONTINUING	CONTINUING	B32 TAP WA	B163 TAP W	B264 TAP W	319 LDF-NW	UNDWRTRS P
TYPE OF LOCATION		CAL BLANK	CAL FOUND	WELLS	WELLS	WELLS	BACKGROUND	POND
SAMPLE NUMBER		ARCCB1002	ARCCV1173	AR401013H	AR402014H	AR403015H	AR802109I	AR809048B
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				7	7	7	17	22
CHROMIUM	P	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
COPPER	P	10 U		10 U	10 U	10 U	10 U	10 U
IRON	P	20 U		1260	1000	1130	259	25 B
LEAD	P	50 U		50 U	50 U	50 U	50 U	50 U
MAGNESIUM	P	10 U	4750 B	55800	52700	51200	34 B	10 U
MANGANESE	P	5 U		18	17	14 B	13 B	5 U
NICKEL	P	6 U		6.2 B	6 U	6 U	10 B	6 B
SELENIUM	P	60 U		60 U	60 U	60 U	60 U	60 U
SILVER	P	6 U		6 U	6 U	6 U	6 U	6 U
SODIUM	P	200 U	6050	21300	18300	17400	200 U	200 U
VANADIUM	P	4 U		16 B	13 B	15 B	4 U	4 U
ZINC	P	5.3 B		9.2 B	3 U	3 U	3 U	3 U
% SOLIDS								

AREA	METHOD						QA	QA
LOCATION		NPDESOUTF1	NPDESOUTF1	NPDES10WTP	NPDES10WTP	NPDES10WTP	CONTINUING	CONTINUING
TYPE OF LOCATION		EFFLUENT	EFFLUENT	DISCHARGES	DISCHARGES	DISCHARGES	CAL FOUND	CAL FOUND
SAMPLE NUMBER		AR300044B	AR300055B	AR311047B	AR311070B	AR311058B	ARCCV1071	ARCCV1139
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	6	6	6		
ALUMINUM	P	203 NE	161 BNE	136 BNE	60 UNE	122 BNE	99500	1140
ANTIMONY	P	50 U	50 U	50 U	50 U	50 U		1030
ARSENIC	P	60 UN	60 UN	60 UN	60 UN	60 UN		1050
BARIUM	P	105 B	79 B	76 B	2 U	90 B		1020
BERYLLIUM	P	0.69 B	0.56 B	0.63 B	0.3 U	0.59 B		251
CADMIUM	P	2.1 B	2.2 B	2.6 B	8.1	2.9 B		261
CALCIUM	P	207000	164000	154000	200 U	178000		27600
CHROMIUM	P	6.1 B	6 U	6 U	6 U	6 U		263
COBALT	P	3 U	3 U	3 U	3 U	3 U		251
COPPER	P	26	18 B	294	14 B	33		254
IRON	P	798	377	1800	20 U	425	104000	983
LEAD	P	50 U	50 U	50 U	50 U	50 U		2190
MAGNESIUM	P	81100	64300	60600	10 U	69100	49500	
MANGANESE	P	107	47	212	5 U	82	52100	261

TABLE D.2.2 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044B

DRAFT DO NOT CITE

AREA	METHOD						QA	QA
LOCATION		NPDESOUTF1	NPDESOUTF1	NPDES10WTP	NPDES10WTP	NPDES10WTP	CONTINUING	CONTINUING
TYPE OF LOCATION		EFFLUENT	EFFLUENT	DISCHARGES	DISCHARGES	DISCHARGES	CAL FOUND	CAL FOUND
SAMPLE NUMBER		AR300044B	AR300055B	AR311047B	AR311070B	AR311058B	ARCCV1071	ARCCV1139
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	6	6	6		
NICKEL	P	9.2 B	7.2 B	13 B	14 B	10 B		262
SELENIUM	P	60 U	60 U	60 U	60 U	60 U		1040
SILVER	P	9.7 B	6 U	8 B	6 U	6.3 B		222
SODIUM	P	422000	334000	378000	200 U	384000	90800	
VANADIUM	P	14 B	14 B	16 B	4 U	13 B		257
ZINC	P	44	32	117	3 U	54		1410
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	SERIAL	SD %	DUPLICATE	DUPLICATE	MATRIX
TYPE OF LOCATION		CAL FOUND	CAL BLANK	DILUTION	DIFFERENCE		RPD	SPIKE
SAMPLE NUMBER		ARCCV1174	ARCCB1003	AR311058B	AR311058B	AR311058B	AR311058B	AR311058B
MATRIX		WATER	WATER	WATER		WATER		WATER
UNITS		UG/L	UG/L	UG/L	%	UG/L	%	UG/L
ENV PROBLEM NO				6	6	6	6	6
ALUMINUM	P		60 U	300 U		141 B		2320
ANTIMONY	P		50 U	250 U		50 U		516
ARSENIC	P		60 U	300 U		60 U		135 B
BARIUM	P		2 U	96 B		85 B		2120
BERYLLIUM	P		0.3 U	1.5 U		0.63 B		52
CADMIUM	P		2.3 B	15		2.7 B		51
CALCIUM	P	5150	200 U	179000	0.56	173000	2.8	174000
CHROMIUM	P		6 U	30 U		6 U		214
COBALT	P		3 U	15 U		3 U		475
COPPER	P		10 U	50 U		28	4	256
IRON	P		20 U	506		412	13	1370
LEAD	P		50 U	250 U		50 U		471
MAGNESIUM	P	4550 B	10 U	72100	4.3	66200	4.3	68100
MANGANESE	P		5 U	97		79	3.7	269
NICKEL	P		6.6 B	30 U		9.4 B		412
SELENIUM	P		60 U	300 U		60 U		520
SILVER	P		6 U	30 U		6.7 B		47
SODIUM	P	6010	200 U	381000	0.78	356000	7.6	371000
VANADIUM	P		4 U	50 B		16 B		468
ZINC	P		3 U	56		50	4	228
% SOLIDS								

TABLE D.2.2 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044B

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA			
LOCATION		MS % RECOVERY	PREP BLANK	PREP BLANK	LAB CONTROL SAMPLE	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER
TYPE OF LOCATION								
SAMPLE NUMBER		AR311058B	ARPB01517	ARPB01518	ARLCS1453	AR500353G	AR500524G	AR500251G
MATRIX			WATER	WATER	WATER	WATER	WATER	WATER
UNITS		%	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		6				10	10	10
ALUMINUM	P	110	60 U	60 U	1190	134 BNE	60 UNE	306 NE
ANTIMONY	P	103	50 U	50 U	1010	50 U	50 U	50 U
ARSENIC	P	135	60 U	60 U	1010	60 UN	60 UN	60 UN
BARIUM	P	102	2 U	2 U	1040	33 B	14 B	25 B
BERYLLIUM	P	103	0.3 U	0.3 U	971	0.41 B	0.3 U	0.41 B
CADMIUM	P	96	2 U	2 U	940	3.8 B	2.6 B	12
CALCIUM	P		200 U	200 U	1020 B	59900	20100	17400
CHROMIUM	P	107	6 U	6 U	984	6 U	6 U	16
COBALT	P	95	3 U	3 U	953	3 U	3 U	7 B
COPPER	P	90	10 U	10 U	906	20 B	21 B	213
IRON	P	94	20 U	20 U	949	122	1320	5910
LEAD	P	94	50 U	50 U	974	50 U	50 U	63 B
MAGNESIUM	P		10 U	10 U	849 B	23300	7590	8310
MANGANESE	P	94	5 U	5 U	983	22	22	122
NICKEL	P	101	6 U	6 U	1040	13 B	22 B	52
SELENIUM	P	104	60 U	60 U	1060	60 U	60 U	60 U
SILVER	P	81	6 U	6 U	805	6 U	31	22
SODIUM	P		200 U	200 U	1030 B	187000	201000	256000
VANADIUM	P	91	4 U	4 U	868	15 B	6.1 B	6.8 B
ZINC	P	87	3 U	3 U	894	16 B	6.6 B	1370
% SOLIDS								

AREA	METHOD		QA	QA	QA	QA		
LOCATION		RET. TANKS WASTEWATER	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL FOUND	CONTINUING CAL FOUND	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER
TYPE OF LOCATION								
SAMPLE NUMBER		AR500240G	ARCCV1175	ARCCB1004	ARCCV1072	ARCCV1140	AR500320G	AR500546G
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		10					10	10
ALUMINUM	P	100 BNE		60 U	92400	1080	545 NE	371 NE
ANTIMONY	P	50 U		50 U		1010	50 U	50 U
ARSENIC	P	60 UN		60 U		1010	60 UN	60 UN
BARIUM	P	38 B		2 U		986	427	56 B
BERYLLIUM	P	0.33 B		0.3 U		240	0.48 B	0.4 B
CADMIUM	P	5.1		2 U		264	35	4.2 B
CALCIUM	P	22900	5230	200 U		26400	24700	15700

TABLE D.2.2 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044B

AREA	METHOD		QA	QA	QA	QA		
LOCATION		RET. TANKS	CONTINUING	CONTINUING	CONTINUING	CONTINUING	RET. TANKS	RET. TANKS
TYPE OF LOCATION		WASTEWATER	CAL FOUND	CAL BLANK	CAL FOUND	CAL FOUND	WASTEWATER	WASTEWATER
SAMPLE NUMBER		AR500240G	ARCCV1175	ARCCB1004	ARCCV1072	ARCCV1140	AR500320G	AR500546G
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		10					10	10
CHROMIUM	P	9.6 B		6 U		246	66	430
COBALT	P	3 U		3 U		234	4.4 B	3 U
COPPER	P	86		10 U		262	985	304
IRON	P	1540		20 U	100000	926	6420	7530
LEAD	P	50 U		50 U		2170	398	119 B
MAGNESIUM	P	8420	4150 B	10 U	48300		10700	10100
MANGANESE	P	15		5 U	52800	252	70	43
NICKEL	P	17 B		6 U		262	129	176
SELENIUM	P	60 U		60 U		1070	60 U	60 U
SILVER	P	10 B		6 U		241	299	49
SODIUM	P	194000	5760	200 U	98600		254000	223000
VANADIUM	P	6.9 B		4 U		269	10 B	8.4 B
ZINC	P	61		3 U		1480	1450	251
% SOLIDS								

AREA	METHOD							
LOCATION		RET. TANKS	DRYING BED	B148 FLUE	NPDESOUTF1	NPDESOUTF1	NPDES10WTP	317-319 LF
TYPE OF LOCATION		WASTEWATER	SLUDGE	SEEPAGE	EFFLUENT	EFFLUENT	DISCHARGES	WELL
SAMPLE NUMBER		AR500706B	AR501070G	AR504073B	AR300077A	AR300066B	AR311069B	AR420016F
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		10	11	13	1	1	6	9
ALUMINUM	P	60 UNE	60 UNE	130 BNE	60 UNE	252 NE	143 BNE	160 BNE
ANTIMONY	P	50 U	50 U	50 U	50 U	50 U	50 U	50 U
ARSENIC	P	60 UN	60 UN	60 UN	60 UN	60 UN	60 UN	60 UN
BARIUM	P	2 U	2.1 B	6 B	2 U	60 B	85 B	36 B
BERYLLIUM	P	0.3 U	0.3 U	0.3 U	0.3 U	0.51 B	0.63 B	0.3 U
CADMIUM	P	2 U	2 U	2.1 B	2 U	3.8 B	2.2 B	2 U
CALCIUM	P	200 U	200 U	589 B	200 U	102000	169000	127000
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	10 U	10 U	10 U	10 U	45	35	10 U
IRON	P	31 B	32 B	230	20 U	419	225	119
LEAD	P	50 U	50 U	50 U	50 U	50 U	50 U	50 U
MAGNESIUM	P	37 B	30 B	315 B	10 U	42900	70200	67500
MANGANESE	P	5 U	5 U	15 B	5 U	36	31	30

TABLE D.2.2 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044B

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AREA	METHOD						
LOCATION		RET. TANKS	DRYING BED	B148 FLUE	NPDESOUTF1	NPDESOUTF1	NPDES10WTP	317-319 LF
TYPE OF LOCATION		WASTEWATER	SLUDGE	SEEPAGE	EFFLUENT	EFFLUENT	DISCHARGES	WELL
SAMPLE NUMBER		AR500706B	AR501070G	AR504073B	AR300077A	AR300066B	AR311069B	AR420016F
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		10	11	13	1	1	6	9
NICKEL	P	6 U	7.3 B	6 U	6 U	13 B	6.9 B	7.4 B
SELENIUM	P	60 U	60 U	60 U	60 U	60 U	60 U	60 U
SILVER	P	6 U	6 U	6 U	6 U	6 U	6 U	6 U
SODIUM	P	200 U	200 U	200 U	200 U	209000	393000	18500
VANADIUM	P	4 U	4 U	4 U	4 U	19 B	17 B	17 B
ZINC	P	20 B	3 U	16 B	3 U	51	36	3 U
% SOLIDS								

AREA	METHOD		QA	QA	QA	QA		
LOCATION		317-319 LF	CONTINUING	CONTINUING	CONTINUING	CONTINUING	317-319 LF	RET. TANKS
TYPE OF LOCATION		WELL	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	WELL	WASTEWATER
SAMPLE NUMBER		AR420027F	ARCCV1073	ARCCV1141	ARCCV1176	ARCCB1005	AR420038F	AR500331G
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		9					9	10
ALUMINUM	P	142 BNE	90100	1110		60 U	60 UNE	3960 NE
ANTIMONY	P	50 U		999		50 U	50 U	93
ARSENIC	P	60 UN		1010		60 U	60 UN	60 UN
BARIUM	P	38 B		978		2 U	2 U	44 B
BERYLLIUM	P	0.32 B		236		0.3 U	0.3 U	1.4 B
CADMIUM	P	2.1 B		261		2 U	2.5 B	21
CALCIUM	P	131000		26200	4890 B	200 U	200 U	24400
CHROMIUM	P	6 U		241		6 U	6 U	457
COBALT	P	3 U		230		3 U	3 U	4.6 B
COPPER	P	10 U		258		10 U	10 U	1610
IRON	P	154	99100	910		20 U	25 B	5520
LEAD	P	50 U		2130		50 U	50 U	3410
MAGNESIUM	P	70000	47600		4860 B	10 U	10 U	11000
MANGANESE	P	37	52300	248		5 U	5 U	508
NICKEL	P	8.8 B		253		6 U	6 U	379
SELENIUM	P	60 U		1060		60 U	60 U	75 B
SILVER	P	6 U		234		6 U	6 U	16
SODIUM	P	12900	94600		5550	200 U	200 U	1270000
VANADIUM	P	15 B		261		4 U	4 U	6.4 B
ZINC	P	6.7 B		1450		3 U	3 U	43400
% SOLIDS								

TABLE D.2.2 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044B

DRAFT DO NOT CITE

AREA	METHOD						
LOCATION		RET. TANKS	570 WTP	800 LANDFI	800 LANDFI	QA	QA	QA
TYPE OF LOCATION		WASTEWATER	LAGOON	WELL	WELL	SERIAL	SD %	DUPLICATE
SAMPLE NUMBER		AR500342G	AR806090G	AR411026F	AR411015F	DILUTION	DIFFERENCE	
MATRIX		WATER	WATER	WATER	WATER	AR411015F	AR411015F	AR411015F
UNITS		UG/L	UG/L	UG/L	UG/L	WATER		WATER
ENV PROBLEM NO		10	20	9	9	UG/L	%	UG/L
						9	9	9
ALUMINUM	P	1650 NE	133 BNE	557 NE	7970 NE	11600	46	8110
ANTIMONY	P	51 B	50 U	50 U	50 U	250 U		50 U
ARSENIC	P	60 UN	60 UN	60 UN	60 UN	300 U		60 U
BARIUM	P	18 B	4.3 B	223	292	315	7.9	288
BERYLLIUM	P	0.61 B	0.3 U	0.61 B	1.1 B	1.5 U		1.1 B
CADMIUM	P	15	5.7	2.1 B	5.2	15		6.8
CALCIUM	P	32400	744 B	180000	221000	220000	0.45	213000
CHROMIUM	P	145	6 U	6 U	123	119		126
COBALT	P	3 U	3 U	3 U	3.8 B	15 U		5 B
COPPER	P	1110	10 U	12 B	32	50 U		32
IRON	P	2270	180	734	20300	18300	9.9	19800
LEAD	P	881	50 U	50 U	50 U	250 U		50 U
MAGNESIUM	P	17200	402 B	74600	92800	95900	3.3	88700
MANGANESE	P	107	8 B	313	695	718	3.3	670
NICKEL	P	305	6.4 B	8 B	87	118		90
SELENIUM	P	71 B	60 U	60 U	60 U	300 U		60 U
SILVER	P	9.1 B	6 U	6 U	6 U	30 U		6 U
SODIUM	P	1020000	200 U	424000	429000	425000	0.93	409000
VANADIUM	P	14 B	4 U	18 B	37 B	87		38 B
ZINC	P	12500	4.4 B	4.4 B	83	51		80
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		DUPLICATE	MATRIX	MS %	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		RPD	SPIKE	RECOVERY	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR411015F	AR411015F	AR411015F	ARCCV1074	ARCCV1142	ARCCV1177	ARCCB1006
MATRIX			WATER		WATER	WATER	WATER	WATER
UNITS		%	UG/L	%	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		9	9	9				
ALUMINUM	P	1.7	9090	56	94500	1090		60 U
ANTIMONY	P		498	100		1030		50 U
ARSENIC	P		130 B	130		1020		60 U
BARIUM	P	4	2290	100		991		2 U
BERYLLIUM	P		51	100		243		0.3 U
CADMIUM	P	1.7	58	104		263		3 B
CALCIUM	P	3.7	211000			26800	4870 B	200 U

TABLE D.2.2 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044B

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		DUPLICATE	MATRIX	MS %	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		RPD	SPIKE	RECOVERY	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR411015F	AR411015F	AR411015F	ARCCV1074	ARCCV1142	ARCCV1177	ARCCB1006
MATRIX			WATER		WATER	WATER	WATER	WATER
UNITS		%	UG/L	%	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		9	9	9				
CHROMIUM	P	2.4	317	97		251		6 U
COBALT	P		464	92		238		3 U
COPPER	P	0	267	94		268		10 U
IRON	P	2.5	20500		99900	950		20 U
LEAD	P		508	102		2190		50 U
MAGNESIUM	P	4.5	86900		48200		5300	10 U
MANGANESE	P	3.7	849	77	52400	253		5 U
NICKEL	P	3	484	99		263		6 U
SELENIUM	P		549	110		1070		60 U
SILVER	P		55	110		260		6 U
SODIUM	P	4.8	401000		104000		5590	200 U
VANADIUM	P		546	102		284		4 U
ZINC	P	3	273	95		1530		3 U
% SOLIDS								

AREA	METHOD	QA	QA
LOCATION		CRDL STAND	INTER CHK
TYPE OF LOCATION		FINAL	SOL. A FINAL
SAMPLE NUMBER		ARLRA1491	ARICS1300
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
ALUMINUM	P		465000
ANTIMONY	P	127	50 U
ARSENIC	P	512	60 U
BARIUM	P		18 B
BERYLLIUM	P	9.8	1.1 B
CADMIUM	P	12	24
CALCIUM	P		522000
CHROMIUM	P	16	28
COBALT	P	93	17 B
COPPER	P	49	11 B
IRON	P		181000
LEAD	P	401	50 U
MAGNESIUM	P		468000
MANGANESE	P	33	42

TABLE D.2.2 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044B

DRAFT DO NOT CITE

AREA	METHOD	QA	QA
LOCATION		CRDL STAND	INTER CHK
TYPE OF LOCATION		FINAL	SOL. A FINAL
SAMPLE NUMBER		ARLRA1491	ARICS1300
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
NICKEL	P	86	27 B
SELENIUM	P	825	60 U
SILVER	P	27	10 B
SODIUM	P		1410 B
VANADIUM	P	105	14 B
ZINC	P	39	3 U
% SOLIDS			

TABLE D.2.3 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044K

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	LAB CONTROL	INITIAL CAL	INITIAL CAL	PREP	PREP	PREP
TYPE OF LOCATION		TRUE A	SAMPLE TRUE	FOUND A	BLANK	BLANK	BLANK	BLANK
SAMPLE NUMBER		ARICV1365	ARLCS1475	ARICV1349	ARICB1281	ARPB01519	ARPB01520	ARPB01521
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								
POTASSIUM	FE	1000 B	10000	1000 B	100 U	100 U	100 U	100 U
% SOLIDS								

AREA	METHOD	QA	QA	QA				
LOCATION		PREP	LAB CONTROL	LAB CONTROL	B815 SEWER	COAL PILE	B815 SEWER	B815 SEWER
TYPE OF LOCATION		BLANK	SAMPLE	SAMPLE	DRAINAGE	RUNOFF	DRAINAGE	DRAINAGE
SAMPLE NUMBER		ARPB01522	ARLCS1454	ARLCS1455	AR309010G	AR308042G	AR309043A	AR309021G
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					5	4	5	5
POTASSIUM	FE	100 U	9800	9900	4000 B	1000 B	100 U	3300 B
% SOLIDS								

AREA	METHOD					QA	QA	
LOCATION		B815 SEWER	PLOT M	PLOT M	PLOT M	CONTINUING	CONTINUING	PLOT M
TYPE OF LOCATION		DRAINAGE	WELL	WELL	WELL	CAL FOUND	CAL BLANK	WELL
SAMPLE NUMBER		AR309032G	AR415020G	AR415019G	AR419024F	ARCCV1075	ARCCB1007	AR419013F
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		5	9	9	9			9
POTASSIUM	FE	3100 B	2000 B	2000 B	2000 B	1100 B	100 U	2100 B
% SOLIDS								

TABLE D.2.3 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044K

DRAFT DO NOT CITE

AREA	METHOD	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	B145 FLUE DISCHARGES	B145 FLUE DISCHARGES	RET. TANKS WASTEWATER	B145 FLUE DISCHARGES
LOCATION		AR500080G	AR500717G	AR500068G	AR503016C	AR503038C	AR500295G	AR503049C
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		10	10	10	12	12	10	12
UNITS								
ENV PROBLEM NO								
POTASSIUM	FE	2500 B	100 U	100 U	4300 B	2200000	3000 B	100 U
% SOLIDS								

AREA	METHOD	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	QA CONTINUING CAL FOUND	QA CONTINUING CAL BLANK	RET. TANKS WASTEWATER	QA DUPLICATE	RET. TANKS WASTEWATER
LOCATION		AR500126G	AR500024G	ARCCV1076	ARCCB1008	AR500319G	AR500013G	AR500013G
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		10	10			10	10	10
UNITS								
ENV PROBLEM NO								
POTASSIUM	FE	5900	14000	1100 B	100 U	3900 B	3400 B	3300 B
% SOLIDS								

AREA	METHOD	RET. TANKS WASTEWATER	B31 TAP WA WELLS	NPDESOUTF2 SEEP	NPDESOUTF2 SEEP	NPDESOUTF2 SEEP	QA CONTINUING CAL FOUND	QA CONTINUING CAL BLANK
LOCATION		AR500091G	AR400012H	AR307018H	AR307029G	AR307030G	ARCCV1077	ARCCB1009
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		10	7	3	3	3		
UNITS								
ENV PROBLEM NO								
POTASSIUM	FE	11000	3000 B	6400	19000	4000 B	1100 B	100 U
% SOLIDS								

TABLE D.2.3 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044K

DRAFT DO NOT CITE

AREA	METHOD							
LOCATION		NPDESOUTF2	RET. TANKS	RET. TANKS	B32 TAP WA	B32 TAP WA	B163 TAP W	B264 TAP W
TYPE OF LOCATION		SEEP	WASTEWATER	WASTEWATER	WELLS	WELLS	WELLS	WELLS
SAMPLE NUMBER		AR307041G	AR500104G	AR500115G	AR401024B	AR401013H	AR402014H	AR403015H
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		3	10	10	7	7	7	7
POTASSIUM	FE	220 B	100000	470000	100 U	3000 B	3300 B	3200 B
% SOLIDS								

AREA	METHOD							
LOCATION		319 LDF-NW	UNDWRTRS P	QA	QA			
TYPE OF LOCATION		BACKGROUND	POND	CONTINUING	CONTINUING	NPDESOUTF1	NPDESOUTF1	NPDES10WTP
SAMPLE NUMBER		AR802109I	AR809048B	CAL FOUND	CAL BLANK	EFFLUENT	EFFLUENT	DISCHARGES
MATRIX		WATER	WATER	ARCCV1078	ARCCB1010	AR300044B	AR300055B	AR311070B
UNITS		UG/L	UG/L	WATER	WATER	WATER	WATER	WATER
ENV PROBLEM NO		17	22	UG/L	UG/L	UG/L	UG/L	UG/L
POTASSIUM	FE	100 U	100 U	1100 B	100 U	6900	6200	100 U
% SOLIDS								

AREA	METHOD							
LOCATION			QA	QA		QA	QA	
TYPE OF LOCATION		NPDES10WTP	DUPLICATE	DUPLICATE	B145 FLUE	CONTINUING	CONTINUING	NPDES10WTP
SAMPLE NUMBER		DISCHARGES		RPD	DISCHARGES	CAL FOUND	CAL BLANK	DISCHARGES
MATRIX		AR311058B	AR311058B	AR311058B	AR503027C	ARCCV1079	ARCCB1011	AR311047B
UNITS		WATER	WATER		WATER	WATER	WATER	WATER
ENV PROBLEM NO		UG/L	UG/L	%	UG/L	UG/L	UG/L	UG/L
POTASSIUM	FE	6400	6200	200	2400000	1100 B	100 U	8600
% SOLIDS								

TABLE D.2.3 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300044K

AREA	METHOD	QA	QA
LOCATION		CONTINUING	CONTINUING
TYPE OF LOCATION		CAL FOUND	CAL BLANK
SAMPLE NUMBER		ARCCV1080	ARCCB1012
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
POTASSIUM	FE	1000 B	100 U
% SOLIDS			

TABLE D.2.4 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300066K DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	LAB CONTROL	INITIAL CAL	INITIAL CAL	LAB CONTROL	PREP	PREP
TYPE OF LOCATION		TRUE A	SAMPLE TRUE	BLANK	FOUND A	SAMPLE	BLANK	BLANK
SAMPLE NUMBER		ARICV1366	ARLCS1476	ARICB1282	ARICV1350	ARLCS1456	ARPB01523	ARPB01524
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								
POTASSIUM	FE	1000 B	10000	100 U	1000 B	10000	100 U	100 U
% SOLIDS								

AREA	METHOD							
LOCATION		RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION		WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER		AR500353G	AR500524G	AR500251G	AR500240G	AR500320G	AR500546G	AR500706B
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		10	10	10	10	10	10	10
POTASSIUM	FE	3200 B	2900 B	16000	2000 B	22000	4200 B	100 U
% SOLIDS								

AREA	METHOD		QA	QA				
LOCATION		DRYING BED	CONTINUING	CONTINUING	B148 FLUE	NPDES10WTP	NPDESOUTF1	NPDESOUTF1
TYPE OF LOCATION		SLUDGE	CAL BLANK	CAL FOUND	SEEPAGE	DISCHARGES	EFFLUENT	EFFLUENT
SAMPLE NUMBER		AR501070G	ARCCB1013	ARCCV1081	AR504073B	AR311069B	AR300077A	AR300066B
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		11			13	6	1	1
POTASSIUM	FE	100 U	100 U	1000 B	100	5700	100 U	4600 B
% SOLIDS								

TABLE D.2.4 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300066K

DRAFT DO NOT CITE

AREA	METHOD					QA	QA	
LOCATION		317-319 LF	317-319 LF	317-319 LF	RET. TANKS	CONTINUING	CONTINUING	RET. TANKS
TYPE OF LOCATION		WELL	WELL	WELL	WASTEWATER	CAL FOUND	CAL BLANK	WASTEWATER
SAMPLE NUMBER		AR420016F	AR420027F	AR420038F	AR500331G	ARCCV1082	ARCCB1014	AR500342G
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		9	9	9	10			10
POTASSIUM	FE	2000 B	2100 B	100 U	42000	1000 B	100 U	320000
% SOLIDS								

AREA	METHOD	QA	QA				QA	QA
LOCATION		CONTINUING	CONTINUING	570 WTP	800 LANDFI	800 LANDFI	DUPLICATE	CONTINUING
TYPE OF LOCATION		CAL FOUND	CAL BLANK	LAGOON	WELL	WELL		CAL FOUND
SAMPLE NUMBER		ARCCV1083	ARCCB1015	AR806090G	AR411026F	AR411015F	AR411015F	ARCCV1084
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				20	9	9	9	
POTASSIUM	FE	1000 B	100 U	100	5700	12000	12000	1100 B
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		DUPLICATE	CONTINUING	PREP	PREP	LAB CONTROL	RET. TANKS	RET. TANKS
TYPE OF LOCATION		RPD	CAL BLANK	BLANK	BLANK	SAMPLE	WASTEWATER	WASTEWATER
SAMPLE NUMBER		AR411015F	ARCCB1016	ARPB01525	ARPB01526	ARLCS1457	AR500568G	AR500579G
MATRIX			WATER	WATER	WATER	WATER	WATER	WATER
UNITS		%	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		9					10	10
POTASSIUM	FE	0	100 U	100 U	100 U	10000	42000	180000
% SOLIDS								

TABLE D.2.4 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300066K

DRAFT DO NOT CITE

AREA	METHOD				QA	QA		
LOCATION		RET. TANKS	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING	RET. TANKS	RET. TANKS
TYPE OF LOCATION		WASTEWATER	WASTEWATER	WASTEWATER	CAL FOUND	CAL BLANK	WASTEWATER	WASTEWATER
SAMPLE NUMBER		AR500273G	AR500502G	AR500046G	ARCCV1085	ARCCB1017	AR500477G	AR500488G
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		10	10	10			10	10
POTASSIUM	FE	13000	19000	14000	1100 B	100 U	3000 B	18000
% SOLIDS								

AREA	METHOD			QA	QA	QA	QA	QA
LOCATION		RET. TANKS	RET. TANKS	DUPLICATE	DUPLICATE	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		WASTEWATER	WASTEWATER		RPD	CAL FOUND	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR500557G	AR500580G	AR500580G	AR500580G	ARCCV1086	ARCCB1018	ARCCV1087
MATRIX		WATER	WATER	WATER		WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO		10	10	10	10			
POTASSIUM	FE	18000	11000	9500	1500	1100 B	100 U	1100 B
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA		QA
LOCATION		CONTINUING	PREP	CONTINUING	PREP	LAB CONTROL	SITE A	DUPLICATE
TYPE OF LOCATION		CAL BLANK	BLANK	CAL FOUND	BLANK	SAMPLE	SITE A	
SAMPLE NUMBER		ARCCB1019	ARPB01527	ARCCV1088	ARPB01528	ARLCS1458	AR815137G	AR815137G
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							25	25
POTASSIUM	FE	100 U	100 U	1100 B	100 U	10000	400 B	4000 B
% SOLIDS								

TABLE D.2.4 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR300066K

	METHOD	
AREA		QA
LOCATION		CONTINUING
TYPE OF LOCATION		CAL BLANK
SAMPLE NUMBER		ARCCB1020
MATRIX		WATER
UNITS		UG/L
ENV PROBLEM NO		
POTASSIUM	FE	100 U
% SOLIDS		

TABLE D.2.5 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		ICP LINEAR RANGES	SERIAL DILUTION	SD % DIFFERENCE	LAB CONTROL SAMP-SOLID	PREP BLANK	INITIAL CALIBRATION	INITIAL CAL BLANK
TYPE OF LOCATION		AR0408011	AR302013D	AR302013D	AR0623011	AR0623011	AR0623090	AR0623090
SAMPLE NUMBER		WATER	WATER		SOIL	SOIL	WATER	WATER
MATRIX		UG/L	UG/L	%	MG/KG	MG/KG	UG/L	UG/L
UNITS			2	2				
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	10000	14 U	100	44	3.4 B	472	2.8 U
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS					100			

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CRDL STAND INITIAL	ICP FIRST INT CHECK A	ICP FIRST INT CHECK AB	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 2	CONTINUING CAL BLANK 2
TYPE OF LOCATION		AR0623091	AR0623091	AR0623091	AR0623092	AR0623092	AR0623100	AR0623100
SAMPLE NUMBER		WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	10 B	29	934	394	2.8 U	406	2.8 U
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

TABLE D.2.5 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 3	CAL BLANK 3	CAL VERIF 4	CAL BLANK 4	CAL VERIF 5	CAL BLANK 5	CAL VERIF 6
SAMPLE NUMBER		AR0623103	AR0623103	AR0623110	AR0623110	AR0623113	AR0623113	AR0623121
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	400	2.8 U	392	2.8 U	402	2.8 U	391
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 6	CAL VERIF 7	CAL BLANK 7	CAL VERIF 8	CAL BLANK 8	CAL VERIF 9	CAL BLANK 9
SAMPLE NUMBER		AR0623121	AR0623133	AR0623133	AR0623140	AR0623140	AR0623143	AR0623143
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	2.8 U	394	2.8 U	395	4.3 B	400	2.8 U
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

TABLE D.2.5 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CRDL STAND	ICP FINAL	ICP FINAL
TYPE OF LOCATION		CAL VERIF 10	CAL BLANK 10	CAL VERIF 11	CAL BLANK 11	FINAL	INT CHECK A	INT CHECK AB
SAMPLE NUMBER		AR0623151	AR0623151	AR0623154	AR0623154	AR0623154	AR0623155	AR0623155
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	402	2.8 U	401	2.8 U	10 B	28	923
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	INITIAL CAL	INITIAL	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 12	CAL BLANK 12	BLANK	CALIBRATION	CAL BLANK 1	CAL VERIF 1	CAL BLANK 2
SAMPLE NUMBER		AR0623155	AR0623160	AR0706084	AR0706084	AR0706100	AR0706100	AR0706113
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	407	3.1 B					
LEAD	F							
SELENIUM	F			3.6 U	90	3.6 U	29	3.6 U
SILVER	F							
THALLIUM	F							
% SOLIDS								

TABLE D.2.5 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL VERIF 2	INITIAL CAL BLANK	INITIAL CALIBRATION	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1	LAB CONTROL SAMP-SOLID	PREP BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR0706114	AR0712094	AR0712095	AR0712111	AR0712112	AR0712114	AR0712115
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F	27	3.6 U	97	3.6 U	30	43	0.72 U
SILVER	F							
THALLIUM	F							
% SOLIDS							100	

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2	INITIAL CAL BLANK	INITIAL CALIBRATION	DUPLICATE	DUPLICATE RPD	MATRIX SPIKE
TYPE OF LOCATION								
SAMPLE NUMBER		AR0712120	AR0712121	AR0713093	AR0713094	AR302013D	AR302013D	AR302013D
MATRIX		WATER	WATER	WATER	WATER	SOIL		SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	%	MG/KG
ENV PROBLEM NO						2	2	2
ANTIMONY	F					9.9	1	24
ARSENIC	F			2.4 U	54	3.9 B	33	4.3 B
CADMIUM	P					33	2.4	38
LEAD	F					2.4 U		3.4
SELENIUM	F	3.6 U	28			1.4 U		7.2
SILVER	F					1.7 U		16
THALLIUM	F							
% SOLIDS						60.4		60.4

TABLE D.2.5 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013D DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA			
LOCATION		MS %	CONTINUING	CONTINUING	CONTINUING	COAL PILE	COAL PILE	B815 SEWER
TYPE OF LOCATION		RECOVERY	CAL BLANK 1	CAL VERIF 1	CAL BLANK 2	RUNOFF	RUNOFF	DRAINAGE
SAMPLE NUMBER		AR302013D	AR0713104	AR0713105	AR0713111	AR308020D	AR308031D	AR310024C
MATRIX			WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		%	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		2				4	4	5
ANTIMONY	F							
ARSENIC	F	106	2.4 U	32	2.4 U	200	75	6.1
CADMIUM	P	88				6.1	5.5	5.6
LEAD	F	50				33	18	75
SELENIUM	F	103				12	4.9 U	4.6 U
SILVER	F	109				1.2 U	1.1 U	1.7 B
THALLIUM	F	98				1.5 U	1.4 U	1.3 U
% SOLIDS						68.8	73.6	78.4

AREA	METHOD		QA	QA				
LOCATION		B815 SEWER	CONTINUING	CONTINUING	319 LANDF	319 LANDF	319 LANDF	319 LANDF
TYPE OF LOCATION		DRAINAGE	CAL BLANK 3	CAL VERIF 2	STREAM	STREAM	STREAM	STREAM
SAMPLE NUMBER		AR310035C	AR0713130	AR0713131	AR800016C	AR800027C	AR800038C	AR800049C
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		5			17	17	17	17
ANTIMONY	F							
ARSENIC	F	8.6	2.4 U	31	16	11	9.7	7.7
CADMIUM	P	3.3 B			2.2 B	1.7 B	1.9 B	1.6 B
LEAD	F	74			15	24	26	13
SELENIUM	F	4.8 U			4.5 U	4.5 U	4.4 U	4.3 U
SILVER	F	1.1 U			1.1 U	1 U	1 U	1 U
THALLIUM	F	1.4 U			1.3 U	1.3 U	1.2 U	1.2 U
% SOLIDS		74.4			79.6	80.4	82.4	83

TABLE D.2.5 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013D DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	LAB CONTROL	PREP	CONTINUING	CONTINUING	INITIAL CAL
TYPE OF LOCATION		CAL BLANK 4	CAL VERIF 3	SAMP-SOLID	BLANK	CAL BLANK 5	CAL VERIF 4	BLANK
SAMPLE NUMBER		AR0713143	AR0713144	AR0713150	AR0713152	AR0713153	AR0713154	AR0715095
MATRIX		WATER	WATER	SOIL	SOIL	WATER	WATER	WATER
UNITS		UG/L	UG/L	MG/KG	MG/KG	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F	2.4 U	30	1020	0.48 U	2.4 U	30	
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							5.1 U
% SOLIDS				100				

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CALIBRATION	CAL BLANK 1	CAL VERIF 1	CAL BLANK 2	CAL VERIF 2	CAL BLANK 3	CAL VERIF 3
SAMPLE NUMBER		AR0715100	AR0715105	AR0715110	AR0715115	AR0715120	AR0715130	AR0715131
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F	99	5.1 U	31	5.1 U	32	5.1 U	30
% SOLIDS								

TABLE D.2.5 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013D DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LAB CONTROL	PREP	CONTINUING	CONTINUING	INITIAL CAL	INITIAL	CONTINUING
TYPE OF LOCATION		SAMP-SOLID	BLANK	CAL BLANK 4	CAL VERIF 4	BLANK	CALIBRATION	CAL BLANK 1
SAMPLE NUMBER		AR0715133	AR0715134	AR0715135	AR0715135	AR0721082	AR0721084	AR0721093
MATRIX		SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
UNITS		MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F					4.2 U	105	4.2 U
THALLIUM	F	38	1 U	5.1 U	29			
% SOLIDS		100						

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	LAB CONTROL	PREP
TYPE OF LOCATION		CAL VERIF 1	CAL BLANK 2	CAL VERIF 2	CAL BLANK 3	CAL VERIF 3	SAMP-SOLID	BLANK
SAMPLE NUMBER		AR0721094	AR0721104	AR0721104	AR0721114	AR0721115	AR0721120	AR0721122
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F	31	4.2 U	31	4.2 U	33	27	0.84 U
THALLIUM	F							
% SOLIDS							100	

TABLE D.2.5 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA			
LOCATION		CONTINUING	CONTINUING	INITIAL CAL	INITIAL	SAWMILL CR	SAWMILL CR	SAWMILL CR
TYPE OF LOCATION		CAL BLANK 4	CAL VERIF 4	BLANK	CALIBRATION	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER		AR0721123	AR0721123	AR0722100	AR0722100	AR302013D	AR302024D	AR302035D
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO						2	2	2
ANTIMONY	F			18 U	1060	5.9 UN	4.9 UN	4.4 UN
ARSENIC	F					10	26	17
CADMIUM	P					2.8 B	2.9 B	2 B
LEAD	F					34	38	11
SELENIUM	F					2.4 U	0.98 U	0.89 U
SILVER	F	4.2 U	32			1.4 U	1.1 U	1 U
THALLIUM	F					1.7 U	1.4 U	1.3 U
% SOLIDS						60.4	73.4	80.8

AREA	METHOD			QA	QA		QA	QA
LOCATION		COAL PILE	319 LDF-NW	CONTINUING	CONTINUING	319 LDF-NW	DUPLICATE	MATRIX
TYPE OF LOCATION		RUNOFF	BACKGROUND	CAL BLANK 1	CAL VERIF 1	BACKGROUND		SPIKE
SAMPLE NUMBER		AR308019D	AR802018E	AR0722110	AR0722110	AR802029E	AR802029E	AR802029E
MATRIX		SOIL	SOIL	WATER	WATER	SOIL	SOIL	SOIL
UNITS		MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		4	17			17	17	17
ANTIMONY	F	5.3 UN	5.1 UN	18 U	107	4.9 UN	4.9 U	7.8 BN
ARSENIC	F	142						
CADMIUM	P	5.9 B						
LEAD	F	26						
SELENIUM	F	6.3 B						
SILVER	F	1.2 U						
THALLIUM	F	1.5 U						
% SOLIDS		67.6	69.6			73.4	73.4	73.4

TABLE D.2.5 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013D

DRAFT DO NOT CITE

AREA	METHOD	QA			QA	QA		
LOCATION		MS % RECOVERY	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2	570 WTP LAGOON	NIKE SITE DRAINS
TYPE OF LOCATION								
SAMPLE NUMBER		AR802029E	AR802063E	AR802085E	AR0722120	AR0722121	AR806023D	AR807080C
MATRIX			SOIL	SOIL	WATER	WATER	SOIL	SOIL
UNITS		%	MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO		17	17	17			20	21
ANTIMONY	F	29	4.5 UN	4.2 UN	18 U	101	4.6 UN	4.3 UN
ARSENIC	F							14
CADMIUM	P							3 B
LEAD	F							27
SELENIUM	F							4.4 U
SILVER	F							1 U
THALLIUM	F							1.2 U
% SOLIDS			79.4	84.6			76.6	82.6

AREA	METHOD				QA	QA		
LOCATION		317 AREA DRAINAGE	BLDG 19/34 D&D	BLDG 19/34 D&D	CONTINUING CAL BLANK 3	CONTINUING CAL VERIF 3	BLDG 19/34 D&D	319 LNDF-S LANDFILL
TYPE OF LOCATION								
SAMPLE NUMBER		AR803019D	AR810029D	AR810041D	AR0722131	AR0722132	AR810052D	AR801039C
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		18	23	23			23	17
ANTIMONY	F	4 UN	4.2 UN	4.2 UN	18 U	103	4.2 UN	4.3 UN
ARSENIC	F		13					
CADMIUM	P		4.2 B					
LEAD	F		29					
SELENIUM	F		4.3 U					
SILVER	F		1 U					
THALLIUM	F		1.2 U					
% SOLIDS		88.2	83.8	85.4			85	83

TABLE D.2.5 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LAB CONTROL	PREP	CONTINUING	CONTINUING	INITIAL CAL	INITIAL	CONTINUING
TYPE OF LOCATION		SAMP-SOLID	BLANK	CAL BLANK 4	CAL VERIF 4	BLANK	CALIBRATION	CAL BLANK 1
SAMPLE NUMBER		AR0722134	AR0722135	AR0722140	AR0722141	AR0912090	AR0912092	AR0912104
MATRIX		SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
UNITS		MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ANTIMONY	F	227	3.6 U	18 U	108			
ARSENIC	F							
CADMIUM	P							
LEAD	F					2.1 U	102	2.1 U
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS		100						

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	LAB CONTROL	PREP
TYPE OF LOCATION		CAL VERIF 1	CAL BLANK 2	CAL VERIF 2	CAL BLANK 3	CAL VERIF 3	SAMP-SOLID	BLANK
SAMPLE NUMBER		AR0912105	AR0912123	AR0912124	AR0912135	AR0912140	AR0912142	AR0912143
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F	31	2.1 U	31	2.1 U	31	259	0.42 U
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS							100	

TABLE D.2.5 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA
LOCATION		CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 4	CAL VERIF 4
SAMPLE NUMBER		AR0912145	AR0912145
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
ANTIMONY	F		
ARSENIC	F		
CADMIUM	P		
LEAD	F	2.1 U	31
SELENIUM	F		
SILVER	F		
THALLIUM	F		
% SOLIDS			

TABLE D.2.6 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INTER CHK	INTER CHK	INITIAL CAL	INITIAL CAL	INITIAL CAL	LAB CONTROL	CRDL STAND
TYPE OF LOCATION		SOL. A TRUE	SOL. AB TRUE	TRUE A	TRUE B	TRUE C	SAMPLE TRUE	TRUE
SAMPLE NUMBER		ARICS1333	ARICS1341	ARICV1367	ARICV1389	ARICV1405	ARLCS1477	ARLRA1508
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	UG/L
ENV PROBLEM NO								
ALUMINUM	P	511000	508000	100000	990		15200	
ANTIMONY	P				1000		20 U	120
ARSENIC	P				1000		680	500
BARIUM	P		483		990		430	
BERYLLIUM	P		474		241		1 U	10
CADMIUM	P		909		245		1 U	10
CALCIUM	P	476000	470000		24900	5000	10500	
CHROMIUM	P		513		253		17	20
COBALT	P		478		237		6.9	100
COPPER	P		534		271		265	50
IRON	P	219000	211000	100000	995		11200	
LEAD	P		4850		2260		5830	500
MAGNESIUM	P	513000	513000	50000		5000	14700	
MANGANESE	P		470	50000	257		91700	30
NICKEL	P		916		248		22	80
SELENIUM	P				1000		1 U	500
SILVER	P		934		255		2 U	20
SODIUM	P			100000		5000	3720	
VANADIUM	P		475		256		18	100
ZINC	P		973		1550		425	40
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND B	FOUND C	FOUND A	BLANK	INITIAL
SAMPLE NUMBER		ARRAN1560	ARRAN1568	ARICV1381	ARICV1397	ARICV1351	ARICB1283	ARLRA1500
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								
ALUMINUM	P	10000	800000	1180		99100	60 U	
ANTIMONY	P	10000		1000			50 U	110
ARSENIC	P	20000		1050			60 U	512
BARIUM	P	5000		998			2 U	
BERYLLIUM	P	1500		251			0.3 U	10
CADMIUM	P	5000		253			2 U	9.2
CALCIUM	P	10000	900000	25400	5350		200 U	

TABLE D.2.6 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND B	FOUND C	FOUND A	BLANK	INITIAL
SAMPLE NUMBER		ARRAN1560	ARRAN1568	ARICV1381	ARICV1397	ARICV1351	ARICB1283	ARLRA1500
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								
CHROMIUM	P	10000		256			6 U	20
COBALT	P	10000		248			3 U	102
COPPER	P	10000		270			10 U	55
IRON	P	12000	800000	988		100000	20 U	
LEAD	P	50000		2150			50 U	514
MAGNESIUM	P	12000	500000		5030	46300	10 U	
MANGANESE	P	2000	200000	254		49700	5 U	31
NICKEL	P	15000		242			6 U	95
SELENIUM	P	10000		1020			60 U	485
SILVER	P	10000		250			6 U	17
SODIUM	P	10000	900000		4600 B	100000	200 U	
VANADIUM	P	10000		270			4 U	100
ZINC	P	6000		1500			7 U	231
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	SAWMILL CR	SAWMILL CR
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	BACKGROUND	BACKGROUND
SAMPLE NUMBER		ARICS1317	ARICS1325	ARPB01529	ARPB01530	ARLCS1459	AR302035E	AR302024E
MATRIX		WATER	WATER	WATER	WATER	SOIL	SEDIM	SEDIM
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO							2	2
ALUMINUM	P	501000	500000	60 U	60 U	16300	2880 E	7850 E
ANTIMONY	P			50 U	50 U	9 U	9 UN	10 UN
ARSENIC	P			60 U	60 U	641	11 UN	12 UN
BARIUM	P	14 B	459	2 U	2 U	416	60	84
BERYLLIUM	P	4.2 B	460	0.3 U	0.3 U	1.3	0.87 B	1 B
CADMIUM	P	19	867	2 U	2 U	1.2	2.1	2
CALCIUM	P	488000	489000	200 U	200 U	10000	87800	24900
CHROMIUM	P	17	448	6 U	6 U	4.8	6.6 N*	31 N*
COBALT	P	6.4 B	432	3 U	3 U	6.1	9 B	15
COPPER	P	10 U	490	10 U	10 U	252	9.8	39
IRON	P	213000	213000	20 U	42 B	12400	24200 *E	27000 *E
LEAD	P	50 U	4310	50 U	50 U	5180	13 B	35 B
MAGNESIUM	P	508000	505000	10 U	10 U	15000	49200	12000
MANGANESE	P	5 U	440	5 U	5 U	92500	1180 E	711 E

TABLE D.2.6 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013E

DRAFT DO NOT CITI

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	SAWMILL CR	SAWMILL CR
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	BACKGROUND	BACKGROUND
SAMPLE NUMBER		ARICS1317	ARICS1325	ARPB01529	ARPB01530	ARLCS1459	AR302035E	AR302024E
MATRIX		WATER	WATER	WATER	WATER	SOIL	SEDIM	SEDIM
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO							2	2
NICKEL	P	12 B	824	6 U	6 U	22	12	25
SELENIUM	P			60 U	60 U	11 U	11 U	12 U
SILVER	P	6 U	918	6 U	6 U	1.1 U	1.7 B	1.3 B
SODIUM	P			200 U	200 U	4330	441 B	345 B
VANADIUM	P	4 U	452	4 U	4 U	19	14	26
ZINC	P	7 U	906	7.5 B	7 U	404	46 N*E	122 N*E
% SOLIDS							79.4	61.5

AREA	METHOD	QA	QA	QA	QA			
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	SAWMILL CR	COAL PILE	COAL PILE
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	BACKGROUND	RUNOFF	RUNOFF
SAMPLE NUMBER		ARCCV1089	ARCCV1143	ARCCV1178	ARCCB1021	AR302013E	AR308019E	AR308020E
MATRIX		WATER	WATER	WATER	WATER	SEDIM	SEDIM	SEDIM
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO						2	4	4
ALUMINUM	P	99800	1200		60 U	8100 E	11500 E	7570 E
ANTIMONY	P		1010		50 U	14 UN	11 UN	9.3 UN
ARSENIC	P		1070		60 U	17 UN	32 BN	92 N
BARIUM	P		1020		2 U	73	66	55
BERYLLIUM	P		255		0.3 U	1.1 B	0.79 B	0.86 B
CADMIUM	P		262		2 U	2	2.8	6.8
CALCIUM	P		26300	5350	200 U	40500	7040	20000
CHROMIUM	P		261		6 U	19 N*	18 N*	8.5 N*
COBALT	P		254		3 U	8.7 B	8.2 B	9.7
COPPER	P		270		10 U	26	25	32
IRON	P	102000	1020		20 U	20400 *E	39200 *E	97300 *E
LEAD	P		2200		50 U	24 B	22 B	32 B
MAGNESIUM	P	46500		5010	10 U	23200	4290	4490
MANGANESE	P	51100	263		5 U	944 E	114 E	217 E
NICKEL	P		251		6 U	19	24	26
SELENIUM	P		1030		60 U	17 U	13 U	11 U
SILVER	P		248		6 U	1.7 U	1.3 U	1.1 U
SODIUM	P	98900		4730 B	200 U	442 B	454 B	877 B
VANADIUM	P		271		4 U	23	26	34
ZINC	P		1510		7 U	92 N*E	104 N*E	154 N*E
% SOLIDS						40.9	64.6	70.9

TABLE D.2.6 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013E

DRAFT DO NOT CITE

AREA	METHOD							QA
LOCATION		COAL PILE RUNOFF	B815 SEWER DRAINAGE	B815 SEWER DRAINAGE	B815 SEWER DRAINAGE	B145 FLUE DISCHARGES	B145 FLUE DISCHARGES	CONTINUING CAL FOUND
TYPE OF LOCATION								
SAMPLE NUMBER		AR308031E	AR310013D	AR310024D	AR310035D	AR502037B	AR502015B	ARCCV1090
MATRIX		SEDIM	SEDIM	SEDIM	SEDIM	SLUDG	SLUDG	WATER
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L
ENV PROBLEM NO		4	5	5	5	12	12	
ALUMINUM	P	8200 E	3530 E	2800 E	4650 E	46200 E	42700 E	99600
ANTIMONY	P	9.2 UN	9.1 UN	8.5 UN	9.6 UN	61 UN	59 UN	
ARSENIC	P	32 BN	11 UN	10 BN	12 UN	73 UN	71 UN	
BARIUM	P	430	30 B	28 B	69	2230	2250	
BERYLLIUM	P	0.7 B	0.96	0.9	1.1	6.2	7	
CADMIUM	P	6.2	1.7	2.5	3.7	14	13	
CALCIUM	P	3460	117000	129000	109000	12200	31400	
CHROMIUM	P	7.5 N*	9.8 N*	17 N*	36 N*	692 N*	687 N*	
COBALT	P	31	3.8 B	2.9 B	5.5 B	34 B	37 B	
COPPER	P	31	28	24	49	1220	1400	
IRON	P	92000 *E	10300 *E	7810 *E	12800 *E	196000 *E	187000 *E	101000
LEAD	P	23 B	38	23 B	94	140 B	159 B	
MAGNESIUM	P	3010	66300	73500	60900	6410	9400	46400
MANGANESE	P	3320 E	609 E	326 E	637 E	978 E	994 E	51200
NICKEL	P	30	10	8.4	15	193	163	
SELENIUM	P	11 U	11 U	10 U	12 U	73 U	71 U	
SILVER	P	1.1 U	2.1	2	2.3	7.3 U	7.1 U	
SODIUM	P	453 B	624 B	609 B	678 B	4030 B	4230 B	97900
VANADIUM	P	44	8.5 B	5.2 B	11	100	126	
ZINC	P	122 N*E	117 N*E	107 N*E	188 N*E	3220 N*E	2830 N*E	
% SOLIDS		74.2	78	85.1	72.4	11.7	12.3	

AREA	METHOD	QA	QA	QA				
LOCATION		CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK	B145 FLUE DISCHARGES	317 AREA BURN PILE	317 AREA BURN PILE	319 LANDF STREAM
TYPE OF LOCATION								
SAMPLE NUMBER		ARCCV1144	ARCCV1179	ARCCB1022	AR502026B	AR505029E	AR505018E	AR800016D
MATRIX		WATER	WATER	WATER	SLUDG	SOIL	SOIL	SEDIM
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO					12	14	14	17
ALUMINUM	P	1180		60 U	37900 E	2930 E	5930 E	6470 E
ANTIMONY	P	1020		50 U	51 UN	7.5 UN	7.9 UN	8.6 UN
ARSENIC	P	1060		60 U	61 UN	44 N	17 BN	10 UN
BARIUM	P	1020		2 U	2290	17 B	30 B	64
BERYLLIUM	P	254		0.3 U	5.7	1	0.99	1
CADMIUM	P	260		2 U	64	2.1	1.6	2
CALCIUM	P	26300	5360	200 U	21400	158000	111000	70600

TABLE D.2.6 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA				
LOCATION		CONTINUING	CONTINUING	CONTINUING	B145 FLUE	317 AREA	317 AREA	319 LANDF
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL BLANK	DISCHARGES	BURN PILE	BURN PILE	STREAM
SAMPLE NUMBER		ARCCV1144	ARCCV1179	ARCCB1022	AR502026B	AR505029E	AR505018E	AR800016D
MATRIX		WATER	WATER	WATER	SLUDG	SOIL	SOIL	SEDIM
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO					12	14	14	17
CHROMIUM	P	258		6 U	718 N*	5.3 N*	8.2 N*	24 N*
COBALT	P	250		3 U	73	2.4 B	5.8 B	11
COPPER	P	269		10 U	1460	11	16	20
IRON	P	1020		20 U	967000 *E	9040 *E	15400 *E	19800 *E
LEAD	P	2170		50 U	229	20 B	22 B	18 B
MAGNESIUM	P		4970 B	10 U	6670	89200	60700	39600
MANGANESE	P	261		5 U	5090 E	252 E	533 E	893 E
NICKEL	P	251		6 U	273	7.1	15	21
SELENIUM	P	1020		60 U	61 U	9 U	9.4 U	10 U
SILVER	P	246		6 U	7.7 B	1.6	1.3 B	1.3 B
SODIUM	P		4700 B	200 U	4670 B	318 B	368 B	455 B
VANADIUM	P	268		4 U	155	5.7 B	13	18
ZINC	P	1490		7 U	1780 N*E	37 N*E	50 N*E	103 N*E
% SOLIDS					12.8	90.9	88.3	76.5

AREA	METHOD						QA	QA
LOCATION		319 LANDF	319 LANDF	319 LANDF	319 LANDF	319 LANDF	CONTINUING	CONTINUING
TYPE OF LOCATION		STREAM	STREAM	STREAM	STREAM	STREAM	CAL FOUND	CAL FOUND
SAMPLE NUMBER		AR800027D	AR800038D	AR800049D	AR800050D	AR800050D	ARCCV1091	ARCCV1145
MATRIX		SEDIM	SEDIM	SEDIM	SEDIM	WATER	WATER	WATER
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L	UG/L
ENV PROBLEM NO		17	17	17	17	17		
ALUMINUM	P	6810 E	6560 E	2410 E	9300 E		98600	1190
ANTIMONY	P	9.4 UN	9.8 UN	8.4 UN	10 UN			1010
ARSENIC	P	11 UN	12 UN	10 UN	12 UN			1050
BARIUM	P	40	40 B	21 B	72			1020
BERYLLIUM	P	0.9 B	0.98 B	0.85	1.1			252
CADMIUM	P	2.1	1.9	1.7	2.6			262
CALCIUM	P	44400	64200	113000	56500			26300
CHROMIUM	P	59 N*	81 N*	49 N*	363 N*			256
COBALT	P	11	10 B	5.3 B	13			250
COPPER	P	26	46	19	60			268
IRON	P	29800 *E	19200 *E	15600 *E	23300 *E		101000	1010
LEAD	P	17 B	23 B	11 B	36 B			2150
MAGNESIUM	P	25600	35000	60000	31000		46100	
MANGANESE	P	541 E	689 E	643 E	1060 E		51500	260

TABLE D.2.6 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013E

DRAFT DO NOT CITE

AREA	METHOD						QA	QA
LOCATION		319 LANDF	319 LANDF	319 LANDF	319 LANDF	319 LANDF	CONTINUING	CONTINUING
TYPE OF LOCATION		STREAM	STREAM	STREAM	STREAM	STREAM	CAL FOUND	CAL FOUND
SAMPLE NUMBER		AR800027D	AR800038D	AR800049D	AR800050D	AR800050D	ARCCV1091	ARCCV1145
MATRIX		SEDIM	SEDIM	SEDIM	SEDIM	WATER	WATER	WATER
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L	UG/L
ENV PROBLEM NO		17	17	17	17	17		
NICKEL	P	24	24	13	34			251
SELENIUM	P	11 U	12 U	10 U	12 U			1030
SILVER	P	1.1 U	1.2 U	1.5 B	1.7 B			238
SODIUM	P	438 B	516 B	474 B	492 B		95200	
VANADIUM	P	17	16	7.7 B	23			264
ZINC	P	133 N*E	257 N*E	192 N*E		1460000		1470
% SOLIDS		75	66.7	79.9	68.8	68.8		

AREA	METHOD	QA	QA		QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	319 LANDF	SERIAL	SD %	DUPLICATE	DUPLICATE
TYPE OF LOCATION		CAL FOUND	CAL BLANK	STREAM	DILUTION	DIFFERENCE		RPD
SAMPLE NUMBER		ARCCV1180	ARCCB1023	AR800061D	AR800061D	AR800061D	AR800061D	AR800061D
MATRIX		WATER	WATER	SEDIM	SOIL		SOIL	
UNITS		UG/L	UG/L	MG/KG	MG/KG	%	MG/KG	%
ENV PROBLEM NO				17	17	17	17	17
ALUMINUM	P		60 U	7480 E	8370	12	7170	4.2
ANTIMONY	P		50 U	8.9 UN	44 U		9.2 U	
ARSENIC	P		60 U	11 UN	53 U		11 U	
BARIUM	P		2 U	42	40	4.8	36 B	6
BERYLLIUM	P		0.3 U	1.1	2.3		1.2	0
CADMIUM	P		2 U	1.8	1.8 U		2.2	0.5
CALCIUM	P	5510	200 U	98000	102000	4.1	90000	8.5
CHROMIUM	P		6 U	38 N*	46		57	40
COBALT	P		3 U	11	13		10	1
COPPER	P		10 U	24	27		26	8
IRON	P		20 U	17300 *E	19400	12	23500	30
LEAD	P		50 U	14 B	44 U		16 B	
MAGNESIUM	P	4890 B	10 U	56800	60800	7	51900	9
MANGANESE	P		5 U	885 E	708	20	775	13
NICKEL	P		6 U	21	5.3 U		23	2
SELENIUM	P		60 U	11 U	53 U		11 U	
SILVER	P		6 U	1.6 B	5.3 U		1.5 B	
SODIUM	P	4600 B	200 U	585 B	456 B		537 B	
VANADIUM	P		4 U	16	25		17	1
ZINC	P		7 U	126 N*E	140	11	195	43
% SOLIDS				72.6	72.6		72.6	

TABLE D.2.6 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		MATRIX	MS %	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CRDL STAND
TYPE OF LOCATION		SPIKE	RECOVERY	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	FINAL
SAMPLE NUMBER		AR800061D	AR800061D	ARCCV1092	ARCCV1146	ARCCV1181	ARCCB1024	ARLRA1492
MATRIX		SOIL		WATER	WATER	WATER	WATER	WATER
UNITS		MG/KG	%	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		17	17					
ALUMINUM	P	7150		97200	1180		60 U	
ANTIMONY	P	23	27		1010		50 U	110
ARSENIC	P	23 B	135		1040		60 U	501
BARIUM	P	342	90		1020		2 U	
BERYLLIUM	P	8.8	92		249		0.32 B	10
CADMIUM	P	9.2	88		262		2 U	9.2
CALCIUM	P	77800			25900	5690	200 U	
CHROMIUM	P	83	136		252		6 U	20
COBALT	P	83	86		247		3 U	101
COPPER	P	69	107		264		10 U	52
IRON	P	20800		100000	988		20 U	
LEAD	P	93	94		2130		50 U	494
MAGNESIUM	P	44400		45600		4830 B	10 U	
MANGANESE	P	817		51600	257		5 U	31
NICKEL	P	98	92		250		6 U	82
SELENIUM	P	63 B	75		1000		60 U	486
SILVER	P	8.5	82		232		6 U	17
SODIUM	P	532 B		93600		4550 B	200 U	
VANADIUM	P	92	90		257		4 U	96
ZINC	P	295	201		1440		7 U	35
% SOLIDS		72.6						

AREA	METHOD	QA	QA
LOCATION		INTER CHK	INTER CHK
TYPE OF LOCATION		SOL. A FINAL	SOL. AB FINA
SAMPLE NUMBER		ARICS1301	ARICS1308
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
ALUMINUM	P	485000	489000
ANTIMONY	P		
ARSENIC	P		
BARIUM	P	14 B	465
BERYLLIUM	P	4.3 B	454
CADMIUM	P	18	889
CALCIUM	P	484000	488000

TABLE D.2.6 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA
LOCATION		INTER CHK	INTER CHK
TYPE OF LOCATION		SOL. A FINAL	SOL. AB FINA
SAMPLE NUMBER		ARICS1301	ARICS1308
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
CHROMIUM	P	16	437
COBALT	P	6.4 B	425
COPPER	P	10 U	480
IRON	P	208000	211000
LEAD	P	50 U	4230
MAGNESIUM	P	494000	496000
MANGANESE	P	5 U	439
NICKEL	P	11 B	838
SELENIUM	P		
SILVER	P	6 U	846
SODIUM	P		
VANADIUM	P	4 U	429
ZINC	P	7 U	864
% SOLIDS			

TABLE D.2.7 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013K

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	LAB CONTROL	INITIAL CAL	INITIAL CAL	PREP	PREP	LAB CONTROL
TYPE OF LOCATION		TRUE A	SAMPLE TRUE	BLANK	FOUND A	BLANK	BLANK	SAMPLE
SAMPLE NUMBER		ARICV1368	ARLCS1478	ARICB1284	ARICV1352	ARPB01531	ARPB01532	ARLCS1460
MATRIX		WATER	SOIL	WATER	WATER	WATER	WATER	SOIL
UNITS		UG/L	MG/KG	UG/L	UG/L	UG/L	UG/L	MG/KG
ENV PROBLEM NO								
POTASSIUM	FE	1000 B	8150	100 U	1000 B	100 U	100 U	8800
% SOLIDS								

AREA	METHOD							QA
LOCATION		SAWMILL CR	SAWMILL CR	SAWMILL CR	COAL PILE	COAL PILE	COAL PILE	CONTINUING
TYPE OF LOCATION		BACKGROUND	BACKGROUND	BACKGROUND	RUNOFF	RUNOFF	RUNOFF	CAL BLANK
SAMPLE NUMBER		AR302035E	AR302024E	AR302013E	AR308019E	AR308020E	AR308031E	ARCCB1025
MATRIX		SEDIM	SEDIM	SEDIM	SEDIM	SEDIM	SEDIM	WATER
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L
ENV PROBLEM NO		2	2	2	4	4	4	
POTASSIUM	FE	580 B	1400	1500 B	1900	1600	1300	100 U
% SOLIDS		79.4	61.5	40.9	64.6	70.9	74.2	

AREA	METHOD	QA						
LOCATION		CONTINUING	B815 SEWER	B815 SEWER	B815 SEWER	B145 FLUE	B145 FLUE	B145 FLUE
TYPE OF LOCATION		CAL FOUND	DRAINAGE	DRAINAGE	DRAINAGE	DISCHARGES	DISCHARGES	DISCHARGES
SAMPLE NUMBER		ARCCV1093	AR310013D	AR310024D	AR310035D	AR502037B	AR502015B	AR502026B
MATRIX		WATER	SEDIM	SEDIM	SEDIM	SLUDG	SLUDG	SLUDG
UNITS		UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO			5	5	5	12	12	12
POTASSIUM	FE	1000 B	960	810 B	990	5000 B	6600	4400 B
% SOLIDS			78	85.1	72.4	11.7	12.3	12.8

TABLE D.2.7 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR302013K

DRAFT DO NOT CITE

AREA	METHOD	QA	QA					
LOCATION		CONTINUING	CONTINUING	317 AREA	317 AREA	319 LANDF	319 LANDF	319 LANDF
TYPE OF LOCATION		CAL BLANK	CAL FOUND	BURN PILE	BURN PILE	STREAM	STREAM	STREAM
SAMPLE NUMBER		ARCCB1026	ARCCV1094	AR505029E	AR505018E	AR800016D	AR800027D	AR800038D
MATRIX		WATER	WATER	SOIL	SOIL	SEDIM	SEDIM	SEDIM
UNITS		UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO				14	14	17	17	17
POTASSIUM	FE	100 U	1000 B	920	1500	1400	1500	1200
% SOLIDS				90.9	88.3	76.5	75	66.7

AREA	METHOD			QA	QA		QA	QA
LOCATION		319 LANDF	319 LANDF	CONTINUING	CONTINUING	319 LANDF	DUPLICATE	CONTINUING
TYPE OF LOCATION		STREAM	STREAM	CAL BLANK	CAL FOUND	STREAM		CAL BLANK
SAMPLE NUMBER		AR800049D	AR800050D	ARCCB1027	ARCCV1095	AR800061D	AR800061D	ARCCB1028
MATRIX		SEDIM	SEDIM	WATER	WATER	SEDIM	SOIL	WATER
UNITS		MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG	UG/L
ENV PROBLEM NO		17	17			17	17	
POTASSIUM	FE	590 B	1700	100 U	1000 B	2300	2400	100 U
% SOLIDS		79.9	68.8			72.6	72.6	

AREA	METHOD	QA	QA
LOCATION		DUPLICATE	CONTINUING
TYPE OF LOCATION		RPD	CAL FOUND
SAMPLE NUMBER		AR800061D	ARCCV1096
MATRIX			WATER
UNITS		%	UG/L
ENV PROBLEM NO		17	
POTASSIUM	FE	100	1000 B
% SOLIDS			

TABLE D.2.8 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR307018G

DRAFT DO NOT CITE

	METHOD							
AREA		QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	CONTINUING	CONTINUING	LAB CONTROL	LAB CONTROL
TYPE OF LOCATION		BLANK 1	TRUE A	FOUND A	CAL BLANK	CAL FOUND	SAMPLE TRUE	SAMPLE
SAMPLE NUMBER		AR03A0001	AR2AA1001	AR2AA2001	AR03A1001	AR2AA4001	AR0700101	AR0700101
MATRIX		WATER			WATER		WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
MERCURY	CV	0.01 U	10	10	0.01 U	10	873	870
% SOLIDS								

	METHOD							
AREA					QA	QA		
LOCATION		NPDESOUTF2	NPDESOUTF2	RET. TANKS	CONTINUING	CONTINUING	RET. TANKS	RET. TANKS
TYPE OF LOCATION		SEEP	SEEP	WASTEWATER	CAL BLANK	CAL FOUND	WASTEWATER	WASTEWATER
SAMPLE NUMBER		AR307029F	AR307018G	AR500024F	AR03A2001	AR2AA5001	AR500319F	AR500013F
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	10			10	10
MERCURY	CV	0.04 B	0.07 B	1.5	0.01 U	11	9.4	5
% SOLIDS								

	METHOD							
AREA			QA	QA				
LOCATION		RET. TANKS	CONTINUING	CONTINUING	RET. TANKS	RET. TANKS	B31 TAP WA	NPDESOUTF2
TYPE OF LOCATION		WASTEWATER	CAL BLANK	CAL FOUND	WASTEWATER	WASTEWATER	WELLS	SEEP
SAMPLE NUMBER		AR500091F	AR03A3001	AR2AB4001	AR500295F	AR500126F	AR400012G	AR307041F
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		10			10	10	7	3
MERCURY	CV	1.3	0.01 U	10	3.3	0.28	0.03 B	0.03 B
% SOLIDS								

TABLE D.2.8 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR307018G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA					
LOCATION		CONTINUING	CONTINUING	NPDESOUTF2	COAL PILE	PLOT M	PLOT M	SE 317 ARE
TYPE OF LOCATION		CAL BLANK	CAL FOUND	SEEP	RUNOFF	WELL	WELL	DRAINAGE
SAMPLE NUMBER		AR03B4001	AR2AB5001	AR307030F	AR308042F	AR415020F	AR415019F	AR804043F
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	4	9	9	18
MERCURY	CV	0.01 U	10	0.03 B	0.02 B	0.02 B	0.03 B	0.05 B
% SOLIDS								

AREA	METHOD	QA	QA			QA	QA	QA
LOCATION		CONTINUING	CONTINUING	RET. TANKS	RET. TANKS	DUPLICATE	MATRIX	MS %
TYPE OF LOCATION		CAL BLANK	CAL FOUND	WASTEWATER	WASTEWATER		SPIKE	RECOVERY
SAMPLE NUMBER		AR03C7001	AR2AC4001	AR500068F	AR500717F	AR500717F	AR500717F	AR500717F
MATRIX		WATER		WATER	WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	%
ENV PROBLEM NO				10	10	10	10	10
MERCURY	CV	0.01 U	10	0.58	0.03 B	0.03 B	1.2	111
% SOLIDS								

AREA	METHOD	QA	QA		QA	QA	QA
LOCATION		CONTINUING	CONTINUING	RET. TANKS	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK	CAL FOUND	WASTEWATER	BLANK	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR03C8001	AR2AC5001	AR500080F	AR03A0001	AR03C9001	AR2AD4001
MATRIX		WATER		WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO				10			
MERCURY	CV	0.01 U	10	1.5	0.05 B	0.01 U	9.9
% SOLIDS							

TABLE D.2.9 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR308020D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA			QA	QA	QA
LOCATION		INITIAL CAL BLANK	INITIAL CALIBRATION	COAL PILE RUNOFF	COAL PILE RUNOFF	DUPLICATE	MATRIX SPIKE	MS % RECOVERY
TYPE OF LOCATION								
SAMPLE NUMBER		AR0803094	AR0803094	AR308020D	AR308031D	AR308031D	AR308031D	AR308031D
MATRIX		WATER	WATER	SOIL	SOIL	SOIL	SOIL	
UNITS		UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	%
ENV PROBLEM NO				4	4	4	4	4
ANTIMONY	F	18 U	1060	5.2 UN	4.8 UN	4.8 U	4.8 UN	0
% SOLIDS				68.8	73.6	73.6	73.6	

AREA	METHOD		QA	QA				
LOCATION		B815 SEWER DRAINAGE	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1	B815 SEWER DRAINAGE	319 LANDF STREAM	319 LANDF STREAM	319 LANDF STREAM
TYPE OF LOCATION								
SAMPLE NUMBER		AR310024C	AR0803105	AR0803105	AR310035C	AR800016C	AR800027C	AR800038C
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		5			5	17	17	17
ANTIMONY	F	4.5 UN	18 U	105	4.8 UN	4.5 UN	4.4 UN	4.3 UN
% SOLIDS		78.4			74.4	79.6	80.4	82.4

AREA	METHOD		QA	QA				
LOCATION		319 LANDF STREAM	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2	319 LANDF STREAM	319 LANDF STREAM	SE 317 ARE DRAINAGE	319 LANDFI LANDFILL
TYPE OF LOCATION								
SAMPLE NUMBER		AR800049C	AR0803115	AR0803120	AR800050C	AR800061C	AR804021D	AR805022D
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		17			17	17	18	19
ANTIMONY	F	4.3 UN	18 U	109	5.5 UN	4.6 UN	5.2 UN	4.8 UN
% SOLIDS		83			65	78	69	74.2

TABLE D.2.9 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR308020D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA
LOCATION		LAB CONTROL	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION		SAMP-SOLID	BLANK	CAL BLANK 3	CAL VERIF 3
SAMPLE NUMBER		AR0803125	AR0803130	AR0803131	AR0803131
MATRIX		SOIL	SOIL	WATER	WATER
UNITS		MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO					
ANTIMONY	F	209	3.6 U	18 U	109
% SOLIDS		100			

TABLE D.2.10 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR308042F

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	PREP	LAB CONTROL
TYPE OF LOCATION		TRUE A	FOUND A	BLANK 1	TRUE	FINAL	BLANK	SAMPLE TRUE
SAMPLE NUMBER		AR2AA1002	AR2AA2002	AR03A0002	AR2B10001	AR2B10001	AR03A0002	AR0700102
MATRIX				WATER			WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ANTIMONY	F	102	92	3.3 U	60	60	3.3 U	102
% SOLIDS								

AREA	METHOD	QA		QA	QA	QA	QA	QA
LOCATION		LAB CONTROL	RET. TANKS	CONTINUING	CONTINUING	CONTINUING	DUPLICATE	MATRIX
TYPE OF LOCATION		SAMPLE	WASTEWATER	CAL FOUND	CAL BLANK	CAL BLANK		SPIKE
SAMPLE NUMBER		AR0700102	AR500024F	AR2AA4002	AR03A1002	AR03A2002	AR400012G	AR400012G
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			10				7	7
ANTIMONY	F	103	7.3 B	98	3.3 U	3.3 U	3.3 U	105
% SOLIDS								

AREA	METHOD	QA			QA	QA	QA	QA
LOCATION		MS %	RET. TANKS	COAL PILE	CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL
TYPE OF LOCATION		RECOVERY	WASTEWATER	RUNOFF	CAL FOUND	CAL BLANK	FOUND A	BLANK 2
SAMPLE NUMBER		AR400012G	AR500126F	AR308042F	AR2AA5002	AR03A3002	AR2AB2002	AR03B0002
MATRIX			WATER	WATER		WATER		WATER
UNITS		%	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		7	10	4				
ANTIMONY	F	105	3.3 U	3.3 U	97	3.3 U	96	3.3 U
% SOLIDS								

TABLE D.2.10 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR308042F

DRAFT DO NOT CITE

AREA	METHOD	QA	QA			QA	QA	QA
LOCATION		CRDL STAND	CRDL STAND	RET. TANKS	B31 TAP WA	CONTINUING	CONTINUING	INITIAL CAL
TYPE OF LOCATION		TRUE	FINAL	WASTEWATER	WELLS	CAL FOUND	CAL BLANK	FOUND A
SAMPLE NUMBER		AR2B20001	AR2B20001	AR500295F	AR400012G	AR2AB4002	AR03B4002	AR2AC2002
MATRIX				WATER	WATER		WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO				10	7			
ANTIMONY	F	60	62	3.3 U	3.3 U	99	3.3 U	104
% SOLIDS								

AREA	METHOD	QA	QA	QA				
LOCATION		INITIAL CAL	CRDL STAND	CRDL STAND	SE 317 ARE	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION		BLANK 3	TRUE	FINAL	DRAINAGE	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER		AR03C0002	AR2B30001	AR2B30001	AR804043F	AR500068F	AR500717F	AR500080F
MATRIX		WATER			WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO					18	10	10	10
ANTIMONY	F	3.3 U	60	64	4.5 B	3.3 U	3.3 U	3.3 U
% SOLIDS								

AREA	METHOD	QA	QA				QA	QA
LOCATION		CONTINUING	CONTINUING	RET. TANKS	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL FOUND	CAL BLANK	WASTEWATER	WASTEWATER	WASTEWATER	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR2AC4002	AR03C7002	AR500319F	AR500013F	AR500091F	AR2AC5002	AR03C8002
MATRIX			WATER	WATER	WATER	WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO				10	10	10		
ANTIMONY	F	100	3.3 U	6.7 B	3.3 U	10 B	93	3.3 U
% SOLIDS								

TABLE D.2.11 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR308042G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INTER CHK	INTER CHK	INITIAL CAL	INITIAL CAL	INITIAL CAL	LAB CONTROL	CRDL STAND
TYPE OF LOCATION		SOL. A TRUE	SOL. AB TRUE	TRUE A	TRUE B	TRUE C	SAMPLE TRUE	TRUE
SAMPLE NUMBER		ARICS1334	ARICS1342	ARICV1369	ARICV1390	ARICV1406	ARLCS1479	ARLRA1509
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								
ALUMINUM	P	502000	508000	100000	990		970	
ANTIMONY	P				1000		990	120
ARSENIC	P				1000		1000	500
BARIUM	P		483		990		970	
BERYLLIUM	P		474		241		960	10
CADMIUM	P		909		245		940	10
CALCIUM	P	506000	516000		24900	5000	1000 B	
CHROMIUM	P		513		253		1030	20
COBALT	P		478		237		1000	100
COPPER	P		534		277		1030	50
IRON	P	196000	203000	100000	995		1020	
LEAD	P		4850		2260		1010	400
MAGNESIUM	P	498000	509000	50000		5000	1000 B	
MANGANESE	P		531	50000	257		1020	30
NICKEL	P		916		248		1020	80
SELENIUM	P				1000		990	800
SILVER	P		993		255		990	20
SODIUM	P			100000		5000	860 B	
VANADIUM	P		475		256		1010	100
ZINC	P		973		1550		1010	40
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND A	FOUND B	FOUND C	BLANK	INITIAL
SAMPLE NUMBER		ARRAN1561	ARRAN1569	ARICV1353	ARICV1382	ARICV1398	ARICB1285	ARLRA1501
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								
ALUMINUM	P	7500	800000	103000	1000		60 U	
ANTIMONY	P	10000			1010		50 U	114
ARSENIC	P	20000			1030		60 U	514
BARIUM	P	5000			990		2 U	
BERYLLIUM	P	1500			249		0.3 U	9.8
CADMIUM	P	5000			250		2 U	10
CALCIUM	P	10000	900000		26800	4900 B	200 U	

TABLE D.2.11 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR308042G DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND A	FOUND B	FOUND C	BLANK	INITIAL
SAMPLE NUMBER		ARRAN1561	ARRAN1569	ARICV1353	ARICV1382	ARICV1398	ARICB1285	ARLRA1501
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								
CHROMIUM	P	10000			265		6 U	19
COBALT	P	10000			251		3 U	96
COPPER	P	10000			261		10 U	49
IRON	P	12000	800000	102000	981		20 U	
LEAD	P	50000			2130		50 U	413
MAGNESIUM	P	12000	500000	49900		4820 B	10 U	
MANGANESE	P	2500	200000	51500	260		5 U	34
NICKEL	P	15000			242		6 U	80
SELENIUM	P	10000			1050		60 U	824
SILVER	P	10000			238		6 U	9.5 B
SODIUM	P	10000	500000	103000		4480 B	200 U	
VANADIUM	P	10000			263		4 U	98
ZINC	P	6000			1480		3 U	40
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	COAL PILE	B815 SEWER
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	RUNOFF	DRAINAGE
SAMPLE NUMBER		ARICS1318	ARICS1326	ARPB01533	ARPB01534	ARLCS1461	AR308042G	AR309010G
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	5
ALUMINUM	P	505000	503000	60 U	60 U	990	60 U	268
ANTIMONY	P	50 U	51 B	50 U	50 U	979	50 U	50 U
ARSENIC	P	60 U	60 U	60 U	60 U	988	60 UN	60 UN
BARIUM	P	13 B	468	7.3 B	2 U	1010	42 B	72 B
BERYLLIUM	P	1.1 B	461	0.3 U	0.3 U	984	0.3 U	0.4 B
CADMIUM	P	12	871	2.5 B	4.3 B	940	7.5	12
CALCIUM	P	493000	507000	200 U	200 U	992 B	314 B	113000
CHROMIUM	P	22	473	6 U	6 U	980	61 *	6 U*
COBALT	P	11 B	440	3 U	3 U	945	3 U	3 U
COPPER	P	10 B	504	10 U	10 U	948	10 U	18 B
IRON	P	182000	184000	50 B	27 B	1540	330 E	883 E
LEAD	P	50 U	4280	50 U	50 U	956	50 U	50 U
MAGNESIUM	P	485000	481000	10 U	10 U	909 B	149 B	40400
MANGANESE	P	40	493	5 U	5 U	982	8 B	886

TABLE D.2.11 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR308042G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	COAL PILE	B815 SEWER
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	RUNOFF	DRAINAGE
SAMPLE NUMBER		ARICS1318	ARICS1326	ARPB01533	ARPB01534	ARLCS1461	AR308042G	AR309010G
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	5
NICKEL	P	17 B	840	6 U	6 U	1010	36 B	12 B
SELENIUM	P	60 U	60 U	60 U	60 U	1050	60 U	60 U
SILVER	P	6 U	915	6 U	6 U	859	6 U*	6 U*
SODIUM	P	593 B	626 B	200 U	200 U	763 B	2860 BE	156000 E
VANADIUM	P	4 U	451	4 U	4 U	920	4 U	12 B
ZINC	P	3 U	917	4.3 B	12 B	933	75 E	112 E
% SOLIDS								

AREA	METHOD						QA	QA
LOCATION		B815 SEWER	B815 SEWER	B815 SEWER	PLOT M	PLOT M	CONTINUING	CONTINUING
TYPE OF LOCATION		DRAINAGE	DRAINAGE	DRAINAGE	WELL	WELL	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR309043A	AR309021G	AR309032G	AR415020G	AR415019G	ARCCV1097	ARCCB1029
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		5	5	5	9	9		
ALUMINUM	P	60 U	171 B	179 B	155 B	178 B	100000	60 U
ANTIMONY	P	50 U	50 U	50 U	50 U	50 U		50 U
ARSENIC	P	60 UN	60 UN	60 UN	60 UN	60 UN		60 U
BARIUM	P	2 U	79 B	79 B	31 B	34 B		2 U
BERYLLIUM	P	0.3 U	0.38 B	0.4 B	0.3 U	0.3 U		0.3 U
CADMIUM	P	3.6 B	2 U	2 U	2 U	3.1 B		2 U
CALCIUM	P	200 U	133000	132000	177000	180000		200 U
CHROMIUM	P	6 U*	23 *	6 U*	6 U*	6 U*		6 U
COBALT	P	3 U	3 U	3 U	3 U	3 U		3 U
COPPER	P	10 U	10 B	12 B	12 B	18 B		10 U
IRON	P	38 BE	1120 E	1100 E	2870 E	2930 E	101000	20 U
LEAD	P	50 U	50 U	50 U	50 U	50 U		50 U
MAGNESIUM	P	18 B	50600	51600	99300	101000	49100	10 U
MANGANESE	P	5 U	1370	1470	24	24	53000	5 U
NICKEL	P	6 U	32 B	6 U	6 U	8.3 B		6 U
SELENIUM	P	60 U	60 U	60 U	60 U	60 U		60 U
SILVER	P	6 U*	6 U*	6 U*	6 U*	6 U*		6 U
SODIUM	P	200 UE	161000 E	169000 E	11300 E	11300 E	98600	200 U
VANADIUM	P	4 U	9 B	10 B	7.6 B	7.1 B		4 U
ZINC	P	24 E	53 E	60 E	1780 E	1790 E		3 U
% SOLIDS								

TABLE D.2.11 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR308042G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA					
LOCATION		CONTINUING CAL FOUND	CONTINUING CAL FOUND	PLOT M WELL	PLOT M WELL	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER
TYPE OF LOCATION								
SAMPLE NUMBER		ARCCV1147	ARCCV1182	AR419024F	AR419013F	AR500080G	AR500717G	AR500068G
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				9	9	10	10	10
ALUMINUM	P	971		162 B	149 B	60 U	60 U	87 B
ANTIMONY	P	988		50 U	50 U	50 U	50 U	50 U
ARSENIC	P	1020		60 UN	60 UN	60 UN	60 UN	60 UN
BARIUM	P	960		36 B	37 B	12 B	21 B	16 B
BERYLLIUM	P	246		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CADMIUM	P	243		3.3 B	2.4 B	2 U	2.3 B	2 U
CALCIUM	P	27300	4770 B	90400	97400	16800	200 U	17900
CHROMIUM	P	261		11 *	8.3 B*	6 U*	6 U*	274 *
COBALT	P	247		3 U	3 U	3 U	3 U	3 U
COPPER	P	256		11 B	18 B	31	10 U	75
IRON	P	957		120 E	248 E	1040 E	39 BE	2600 E
LEAD	P	2030		74 B	50 U	50 U	50 U	50 U
MAGNESIUM	P		4850 B	44100	47500	10900	10 U	8050
MANGANESE	P	249		115	126	17	5 U	44
NICKEL	P	232		9.8 B	11 B	7.5 B	6 U	146
SELENIUM	P	1040		60 U	60 U	60 U	60 U	60 U
SILVER	P	240		6 U*	6 U*	6 U*	6 U*	66 *
SODIUM	P		4480 B	10400 E	10500 E	254000 E	200 UE	267000 E
VANADIUM	P	263		12 B	11 B	5.6 B	4 U	4 U
ZINC	P	1480		42 E	16 BE	24 E	3 UE	44 E
% SOLIDS								

AREA	METHOD			QA	QA	QA	QA	
LOCATION		B145 FLUE DISCHARGES	B145 FLUE DISCHARGES	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL FOUND	B145 FLUE DISCHARGES
TYPE OF LOCATION								
SAMPLE NUMBER		AR503016C	AR503027C	ARCCV1098	ARCCV1183	ARCCB1030	ARCCV1148	AR503038C
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		12	12					12
ALUMINUM	P	260	280	103000		60 U	1030	303
ANTIMONY	P	50 U	50 U			50 U	997	50 U
ARSENIC	P	60 UN	60 UN			60 U	1050	60 UN
BARIUM	P	45 B	46 B			2 U	970	48 B
BERYLLIUM	P	0.32 B	0.33 B			0.3 U	239	0.34 B
CADMIUM	P	2.9 B	2.8 B			2.5 B	239	2.3 B
CALCIUM	P	46300	47200		4680 B	200 U	26900	49600

TABLE D.2.11 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR308042G

DRAFT DO NOT CITE

AREA	METHOD			QA	QA	QA	QA	
LOCATION		B145 FLUE DISCHARGES	B145 FLUE DISCHARGES	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL FOUND	B145 FLUE DISCHARGES
TYPE OF LOCATION								
SAMPLE NUMBER		AR503016C	AR503027C	ARCCV1098	ARCCV1183	ARCCB1030	ARCCV1148	AR503038C
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		12	12					12
CHROMIUM	P	6 U*	6 U*			6 U	265	6 U*
COBALT	P	3 U	3 U			3 U	251	3 U
COPPER	P	14 B	19 B			10 U	263	16 B
IRON	P	132 E	166 E	101000		20 U	961	266 E
LEAD	P	50 U	50 U			50 U	2070	50 U
MAGNESIUM	P	2110 B	2180 B	50200	5020	10 U		2470 B
MANGANESE	P	8.2 B	8.8 B	52900		5 U	246	12 B
NICKEL	P	8.2 B	9.1 B			6 U	231	6 U
SELENIUM	P	60 U	60 U			60 U	1050	60 U
SILVER	P	6.4 B*	6 U*			6 U	245	6 U*
SODIUM	P	1110000 E	1100000 E	105000	4540 B	200 U		1050000 E
VANADIUM	P	4 U	4.2 B			4 U	266	4.2 B
ZINC	P	28 E	30 E			3 U	1490	44 E
% SOLIDS								

AREA	METHOD						QA	QA
LOCATION		B145 FLUE DISCHARGES	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	SERIAL DILUTION	SD % DIFFERENCE
TYPE OF LOCATION								
SAMPLE NUMBER		AR503049C	AR500126G	AR500024G	AR500319G	AR500013G	AR500013G	AR500013G
MATRIX		WATER	WATER	WATER	WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	%
ENV PROBLEM NO		12	10	10	10	10	10	10
ALUMINUM	P	60 U	202	310	406	436	887	
ANTIMONY	P	50 U	50 U	50 U	50 U	50 U	500 U	
ARSENIC	P	60 UN	60 UN	60 UN	60 UN	60 UN	600 U	
BARIUM	P	2.6 B	72 B	27 B	62 B	89 B	94 B	
BERYLLIUM	P	0.3 U	0.47 B	0.31 B	0.32 B	0.3 U	3 U	
CADMIUM	P	2 U	3.4 B	12	7.2	5.2	25	
CALCIUM	P	200 U	152000	16600	16100	21500	20900	2.8
CHROMIUM	P	6 U*	6.9 B*	29 *	428 *	100 *	86	
COBALT	P	3 U	3 U	9.7 B	3 U	3 U	30 U	
COPPER	P	10 U	26	282	316	291	346	
IRON	P	44 BE	308 E	5250 E	9830 E	4080 E	4790	17
LEAD	P	50 U	50 U	119 B	129 B	100 B	500 U	
MAGNESIUM	P	21 B	99500	9100	10100	9720	10600	9.1
MANGANESE	P	5 U	32	115	52	48	79	

TABLE D.2.11 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR308042G

DRAFT DO NOT CITE

AREA	METHOD						QA	QA
LOCATION		B145 FLUE	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	SERIAL	SD %
TYPE OF LOCATION		DISCHARGES	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	DILUTION	DIFFERENCE
SAMPLE NUMBER		AR503049C	AR500126G	AR500024G	AR500319G	AR500013G	AR500013G	AR500013G
MATRIX		WATER	WATER	WATER	WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	%
ENV PROBLEM NO		12	10	10	10	10	10	10
NICKEL	P	6 U	12 B	44	170	101	138	
SELENIUM	P	60 U	60 U	60 U	60 U	60 U	600 U	
SILVER	P	6 U*	8.4 B*	28 *	52 *	19 *	60 U	
SODIUM	P	200 UE	255000 E	298000 E	238000 E	236000 E	511000	117
VANADIUM	P	4 U	9.6 B	7.4 B	4.6 B	4.8 B	40 U	
ZINC	P	8.8 BE	26 E	1700 E	302 E	474 E	866	83
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		DUPLICATE	DUPLICATE	MATRIX	MS %	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION			RPD	SPIKE	RECOVERY	CAL FOUND	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR500013G	AR500013G	AR500013G	AR500013G	ARCCV1099	ARCCB1031	ARCCV1149
MATRIX		WATER		WATER		WATER	WATER	WATER
UNITS		UG/L	%	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO		10	10	10	10			
ALUMINUM	P	533	97	2300	93	100000	60 U	1080
ANTIMONY	P	50 U		485	97		50 U	979
ARSENIC	P	60 U		146 B	146		60 U	1010
BARIUM	P	102 B		2000	96		2 U	979
BERYLLIUM	P	0.3 U		48	96		0.3 U	253
CADMIUM	P	6.8	1.6	49	88		2.9 B	258
CALCIUM	P	22800	1300	24300			200 U	25500
CHROMIUM	P	138	32	339	120		6 U	266
COBALT	P	3.5 B		474	95		3 U	250
COPPER	P	334	14	536	98		10 U	268
IRON	P	4790	16	5810		99900	20 U	989
LEAD	P	106 B		566	93		50 U	2090
MAGNESIUM	P	10100	380	10600		48700	10 U	
MANGANESE	P	53	5	234	93	49500	5 U	257
NICKEL	P	128	27	480	95		6 U	252
SELENIUM	P	60 U		500	100		60 U	1050
SILVER	P	31	12	76	114		6 U	242
SODIUM	P	246000	4.1	255000		103000	200 U	
VANADIUM	P	7.6 B		500	99		4 U	269
ZINC	P	500	5.3	700	113		3 U	1500
% SOLIDS								

TABLE D.2.11 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR308042G DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CRDL STAND	INTER CHK	INTER CHK
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	FINAL	SOL. A FINAL	SOL. AB FINA
SAMPLE NUMBER		ARCCV1184	ARCCV1100	ARCCV1150	ARCCB1032	ARLRA1493	ARICS1302	ARICS1310
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								
ALUMINUM	P		98800	1100	60 U		485000	469000
ANTIMONY	P			984	50 U	107	50 U	50 U
ARSENIC	P			1020	60 U	506	60 U	60 U
BARIUM	P			1020	2 U		15 B	481
BERYLLIUM	P			255	0.3 U	10	0.82 B	456
CADMIUM	P			259	3 B	12	16	949
CALCIUM	P	4970 B		26500	200 U		503000	525000
CHROMIUM	P			267	6 U	20	30	478
COBALT	P			253	3 U	99	18 B	449
COPPER	P			264	10 U	47	10 U	534
IRON	P		99800	1000	20 U		179000	182000
LEAD	P			2130	50 U	423	80 B	4520
MAGNESIUM	P	5050	48400		10 U		469000	471000
MANGANESE	P		52200	262	5 U	33	42	497
NICKEL	P			251	6 U	86	25 B	903
SELENIUM	P			1040	60 U	836	60 U	60 U
SILVER	P			235	6 U	8.5 B	6 U	1030
SODIUM	P	5030	96900		200 U		1950 B	1450 B
VANADIUM	P			268	4 U	98	4 U	516
ZINC	P			1500	3 U	38	3 U	980
% SOLIDS								

AREA	METHOD	QA
LOCATION		INTER CHK
TYPE OF LOCATION		SOL. AB FINA
SAMPLE NUMBER		ARICS1309
MATRIX		WATER
UNITS		UG/L
ENV PROBLEM NO		
ALUMINUM	P	491000
ANTIMONY	P	50 U
ARSENIC	P	60 U
BARIUM	P	489
BERYLLIUM	P	480
CADMIUM	P	918
CALCIUM	P	506000

TABLE D.2.11 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR308042G

DRAFT DO NOT CITE

AREA	METHOD	QA
LOCATION		INTER CHK
TYPE OF LOCATION		SOL. AB FINA
SAMPLE NUMBER		ARICS1309
MATRIX		WATER
UNITS		UG/L
ENV PROBLEM NO		
CHROMIUM	P	491
COBALT	P	455
COPPER	P	517
IRON	P	180000
LEAD	P	4320
MAGNESIUM	P	474000
MANGANESE	P	506
NICKEL	P	888
SELENIUM	P	60 U
SILVER	P	902
SODIUM	P	1940 B
VANADIUM	P	458
ZINC	P	930
% SOLIDS		

TABLE D.2.12 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR310013C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK 1	INITIAL CAL TRUE A	INITIAL CAL FOUND A	CONTINUING CAL BLANK	CONTINUING CAL FOUND	LAB CONTROL SAMPLE TRUE	LAB CONTROL SAMPLE
TYPE OF LOCATION								
SAMPLE NUMBER		AR03A0003	AR2AA1003	AR2AA2003	AR03A1003	AR2AA4003	AR0700103	AR0700103
MATRIX		WATER			WATER		SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
MERCURY	CV	0.01 U	10	10	0.01 U	10	19	18
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD			QA	QA	QA		
LOCATION		B815 SEWER DRAINAGE	B815 SEWER DRAINAGE	PREP BLANK	CONTINUING CAL BLANK	CONTINUING CAL FOUND	317 AREA BURN PILE	317 AREA BURN PILE
TYPE OF LOCATION								
SAMPLE NUMBER		AR310024C	AR310035C	AR03A0003	AR03A2003	AR2AA5003	AR505029D	AR505018D
MATRIX		SOIL	SOIL	WATER	WATER		SOIL	SOIL
UNITS		MG/KG	MG/KG	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO		5	5				14	14
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
MERCURY	CV	0.18	0.18	0.004 B	0.01 U	10	1.8	0.19
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS		67.1	67.8				90.6	86.6

TABLE D.2.12 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR310013C DRAFT DO NOT CITE

AREA	METHOD			QA	QA	QA	QA	QA
LOCATION		319 LANDF	319 LANDF	DUPLICATE	CONTINUING	CONTINUING	MATRIX	MS %
TYPE OF LOCATION		STREAM	STREAM		CAL BLANK	CAL FOUND	SPIKE	RECOVERY
SAMPLE NUMBER		AR800027C	AR800016C	AR800016C	AR03A3003	AR2AB4003	AR800016C	AR800016C
MATRIX		SOIL	SOIL	SOIL	WATER		SOIL	
UNITS		MG/KG	MG/KG	MG/KG	UG/L	UG/L	MG/KG	%
ENV PROBLEM NO		17	17	17			17	17
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
MERCURY	CV	0.04 B	0.03 B	0.034 B	0.01 U	10	0.32	101
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS		77.2	80.9	88.7				

AREA	METHOD					QA	QA	
LOCATION		319 LANDF	319 LANDF	319 LANDF	319 LANDF	CONTINUING	CONTINUING	PLOT M
TYPE OF LOCATION		STREAM	STREAM	STREAM	STREAM	CAL BLANK	CAL FOUND	SEEP
SAMPLE NUMBER		AR800061C	AR800049C	AR800050C	AR800038C	AR03B4003	AR2AB5003	AR819039D
MATRIX		SOIL	SOIL	SOIL	SOIL	WATER		SOIL
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L	MG/KG
ENV PROBLEM NO		17	17	17	17			28
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
MERCURY	CV	0.04 B	0.03 B	0.08	0.08	0.01 U	10	0.09
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS		73.1	80.9	65.2	71.8			71.6

TABLE B.2.12 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR310013C

DRAFT DO NOT CITE

AREA	METHOD			QA	QA	QA	QA	QA
LOCATION		PLOT M	PLOT M	CONTINUING	CONTINUING	ICP LINEAR	SERIAL	SD %
TYPE OF LOCATION		SEEP	SEEP	CAL BLANK	CAL FOUND	RANGES	DILUTION	DIFFERENCE
SAMPLE NUMBER		AR819028D	AR819017D	AR03C7003	AR2AC4003	AR0408012	AR807024C	AR807024C
MATRIX		SOIL	SOIL	WATER		WATER	WATER	
UNITS		MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L	%
ENV PROBLEM NO		28	28				21	21
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P					10000	126 *	10
LEAD	F							
MERCURY	CV	0.08	0.05 B	0.01 U	10			
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS		73.7	70.5					

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LAB CONTROL	PREP	INITIAL	INITIAL CAL	CRDL STAND	ICP FIRST	ICP FIRST
TYPE OF LOCATION		SAMP-SOLID	BLANK	CALIBRATION	BLANK	INITIAL	INT CHECK A	INT CHECK AB
SAMPLE NUMBER		AR0623012	AR0623012	AR0623099	AR0623099	AR0623099	AR0623099	AR0623099
MATRIX		SOIL	SOIL	WATER	WATER	WATER	WATER	WATER
UNITS		MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	44	0.56 U	472	2.8 U	10 B	29	934
LEAD	F							
MERCURY	CV							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS		100						

TABLE D.2.12 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR310013C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 1	CAL BLANK 1	CAL VERIF 2	CAL BLANK 2	CAL VERIF 3	CAL BLANK 3	CAL VERIF 4
SAMPLE NUMBER		AR0623099	AR0623099	AR0623109	AR0623109	AR0623109	AR0623109	AR0623119
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	394	2.8 U	406	2.8 U	400	2.8 U	392
LEAD	F							
MERCURY	CV							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 4	CAL VERIF 5	CAL BLANK 5	CAL VERIF 6	CAL BLANK 6	CAL VERIF 7	CAL BLANK 7
SAMPLE NUMBER		AR0623119	AR0623119	AR0623119	AR0623129	AR0623129	AR0623139	AR0623139
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	2.8 U	402	2.8 U	391	2.8 U	394	2.8 U
LEAD	F							
MERCURY	CV							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

TABLE D.2.12 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR310013C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 8	CAL BLANK 8	CAL VERIF 9	CAL BLANK 9	CAL VERIF 10	CAL BLANK 10	CAL VERIF 11
SAMPLE NUMBER		AR0623149	AR0623149	AR0623149	AR0623149	AR0623159	AR0623159	AR0623159
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	395	4.3 B	400	2.8 U	402	2.8 U	401
LEAD	F							
MERCURY	CV							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CRDL STAND	ICP FINAL	ICP FINAL	CONTINUING	CONTINUING	INITIAL CAL
TYPE OF LOCATION		CAL BLANK 11	FINAL	INT CHECK A	INT CHECK AB	CAL VERIF 12	CAL BLANK 12	BLANK
SAMPLE NUMBER		AR0623159	AR0623159	AR0623159	AR0623159	AR0623159	AR0623169	AR0725090
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	2.8 U	10 B	28	923	407	3.1 B	
LEAD	F							
MERCURY	CV							
SELENIUM	F							3.6 U
SILVER	F							
THALLIUM	F							
% SOLIDS								

TABLE D.2.12 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR310013C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CALIBRATION	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2	LAB CONTROL SAMP-SOLID	PREP BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR0725091	AR0725110	AR0725110	AR0725122	AR0725122	AR0725131	AR0725132
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
MERCURY	CV							
SELENIUM	F	97	3.6 U	28	3.6 U	28	35	0.72 U
SILVER	F							
THALLIUM	F							
% SOLIDS							100	

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL BLANK 3	CONTINUING CAL VERIF 3	INITIAL CAL BLANK	INITIAL CALIBRATION	DUPLICATE	DUPLICATE RPD	MATRIX SPIKE
TYPE OF LOCATION								
SAMPLE NUMBER		AR0725133	AR0725134	AR0726084	AR0726085	AR807024C	AR807024C	AR807024C
MATRIX		WATER	WATER	WATER	WATER	SOIL		SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	%	MG/KG
ENV PROBLEM NO						21	21	21
ANTIMONY	F							
ARSENIC	F			2.4 U	49	11 *	28	23
CADMIUM	P					19 *	50	20
LEAD	F					2640 *	95	1540
MERCURY	CV							
SELENIUM	F	3.6 U	29			9.7 U		9.7 UN
SILVER	F					1.1 U		5.2
THALLIUM	F					1.4 U		12
% SOLIDS						74		74

TABLE D.2.12 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR310013C DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA				
LOCATION		MS % RECOVERY	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1	BLDG 19/34 D&D	BLDG 19/34 D&D	BLDG 19/34 D&D	BLDG 19/34 D&D
TYPE OF LOCATION								
SAMPLE NUMBER		AR807024C	AR0726095	AR0726100	AR810030D	AR810063D	AR810074D	AR810085D
MATRIX			WATER	WATER	SOIL	SOIL	SOIL	SOIL
UNITS		%	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		21			23	23	23	23
ANTIMONY	F							
ARSENIC	F	81	2.4 U	29	10 *	10 *	10 *	11 *
CADMIUM	P	-807			6.9 **	3 B**	2.6 B**	2.5 B**
LEAD	F				42 *	22 *	22 *	23 *
MERCURY	CV							
SELENIUM	F	0			8.2 UN	7.9 UN	8.4 UN	8.2 UN
SILVER	F	96			1.2 B	0.93 U	0.97 U	0.96 U
THALLIUM	F	92			1.2 U	1.1 U	1.2 U	1.2 U
% SOLIDS					87.8	90.6	86.2	87.8

AREA	METHOD	QA	QA				QA	QA
LOCATION		CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2	BLDG 19/34 D&D	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	LAB CONTROL SAMP-SOLID	PREP BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR0726110	AR0726111	AR810096D	AR802041E	AR802052E	AR0726115	AR0726120
MATRIX		WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO				23	17	17		
ANTIMONY	F							
ARSENIC	F	2.4 U	29	11 *	4.9 *	5.5 *	928	0.48 U
CADMIUM	P			2.2 B**	2.3 B**	2.3 B**		
LEAD	F			22 *	24 *	27 *		
MERCURY	CV							
SELENIUM	F			8.4 UN	9.1 UN	8.7 UN		
SILVER	F			0.98 U	1.1 U	1 U		
THALLIUM	F			1.2 U	1.3 U	1.2 U		
% SOLIDS				85.6	79.4	82.8	100	

TABLE D.2.12 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR310013C DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	INITIAL CAL	INITIAL	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 3	CAL VERIF 3	BLANK	CALIBRATION	CAL BLANK 1	CAL VERIF 1	CAL BLANK 2
SAMPLE NUMBER		AR0726122	AR0726122	AR0801082	AR0801082	AR0801092	AR0801092	AR0801102
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								
ANTIMONY	F							
ARSENIC	F	2.4 U	29					
CADMIUM	P							
LEAD	F							
MERCURY	CV							
SELENIUM	F							
SILVER	F							
THALLIUM	F			5.1 U	93	5.1 U	30	5.1 U
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	LAB CONTROL	PREP	CONTINUING	CONTINUING	INITIAL CAL	INITIAL
TYPE OF LOCATION		CAL VERIF 2	SAMP-SOLID	BLANK	CAL BLANK 3	CAL VERIF 3	BLANK	CALIBRATION
SAMPLE NUMBER		AR0801103	AR0801111	AR0801112	AR0801113	AR0801113	AR0802093	AR0802093
MATRIX		WATER	SOIL	SOIL	WATER	WATER	WATER	WATER
UNITS		UG/L	MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
MERCURY	CV							
SELENIUM	F							
SILVER	F						4.2 U	100
THALLIUM	F	29	37	1 U	5.1 U	29		
% SOLIDS			100					

TABLE D.2.12 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR310013C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	LAB CONTROL	PREP	CONTINUING
TYPE OF LOCATION		CAL BLANK 1	CAL VERIF 1	CAL BLANK 2	CAL VERIF 2	SAMP-SOLID	BLANK	CAL BLANK 3
SAMPLE NUMBER		AR0802104	AR0802104	AR0802115	AR0802115	AR0802123	AR0802124	AR0802125
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	UG/L
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
MERCURY	CV							
SELENIUM	F							
SILVER	F	4.2 U	30	4.2 U	29	25	0.84 U	4.2 U
THALLIUM	F							
% SOLIDS						100		

AREA	METHOD	QA	QA	QA				
LOCATION		CONTINUING	INITIAL CAL	INITIAL	B815 SEWER	SE 317 ARE	319 LANDFI	319 LANDFI
TYPE OF LOCATION		CAL VERIF 3	BLANK	CALIBRATION	DRAINAGE	DRAINAGE	LANDFILL	LANDFILL
SAMPLE NUMBER		AR0802125	AR0808092	AR0808092	AR310013C	AR804032D	AR805011D	AR805033D
MATRIX		WATER	WATER	WATER	SOIL	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO					5	18	19	19
ANTIMONY	F		18 U	1070	5.5 UN	4.4 UN	4.7 UN	5.1 UN
ARSENIC	F				12 *			
CADMIUM	P				3.5 B**			
LEAD	F				83 *			
MERCURY	CV				0.21			
SELENIUM	F				5.5 UN			
SILVER	F	30			1.3 B			
THALLIUM	F				1.6 U			
% SOLIDS					58.5	80.8	75	70.4

TABLE D.2.12 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR310013C

DRAFT DO NOT CITE

AREA	METHOD		QA	QA			QA	QA
LOCATION		UNDWRTRS P	CONTINUING	CONTINUING	UNDWRTRS P	319 LDF-NW	DUPLICATE	MATRIX
TYPE OF LOCATION		POND	CAL BLANK	CAL FOUND	POND	BACKGROUND		SPIKE
SAMPLE NUMBER		AR809015A	AR0808103	AR0808104	AR809026A	AR802074E	AR802074E	AR802074E
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		22			22	17	17	17
ANTIMONY	F	17 UN	18 U	107	20 UN	4.3 UN	4.3 U	4.3 UN
ARSENIC	F							
CADMIUM	P							
LEAD	F							
MERCURY	CV							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS		21.4			18.2	82.4	82.4	82.4

AREA	METHOD	QA		QA	QA			
LOCATION		MS %	570 WTP	CONTINUING	CONTINUING	NIKE SITE	NIKE SITE	NIKE SITE
TYPE OF LOCATION		RECOVERY	LAGOON	CAL BLANK	CAL FOUND	DRAINS	DRAINS	DRAINS
SAMPLE NUMBER		AR802074E	AR806034D	AR0808114	AR0808114	AR807013C	AR807024C	AR807035C
MATRIX			SOIL	WATER	WATER	SOIL	SOIL	SOIL
UNITS		%	MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		17	20			21	21	21
ANTIMONY	F	0	4.4 UN	18 U	104	4.8 UN	4.8 UN	4.4 UN
ARSENIC	F						14 *	9 *
CADMIUM	P						31 **	2.5 B**
LEAD	F						7420 *	27 *
MERCURY	CV							
SELENIUM	F						9.7 UN	8.8 UN
SILVER	F						1.1 U	1 U
THALLIUM	F						1.4 U	1.3 U
% SOLIDS			80.4			74.4	74	81.4

TABLE D.2.12 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR310013C

DRAFT DO NOT CITE

AREA	METHOD			QA	QA		QA	QA
LOCATION		NIKE SITE	317 AREA	CONTINUING	CONTINUING	317 AREA	LAB CONTROL	PREP
TYPE OF LOCATION		DRAINS	DRAINAGE	CAL BLANK	CAL FOUND	DRAINAGE	SAMP-SOLID	BLANK
SAMPLE NUMBER		AR807046C	AR803020D	AR0808124	AR0808125	AR803053D	AR0808132	AR0808133
MATRIX		SOIL	SOIL	WATER	WATER	SOIL	SOIL	SOIL
UNITS		MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		21	18			18		
ANTIMONY	F	4.2 UN	4 UN	18 U	108	4.2 UN	181	3.6 U
ARSENIC	F	10 *						
CADMIUM	P	2.4 B**						
LEAD	F	20 *						
MERCURY	CV							
SELENIUM	F	8.6 UN						
SILVER	F	1 U						
THALLIUM	F	1.2 U						
% SOLIDS		84	88.6			84.8	100	

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	INITIAL CAL	INITIAL	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK	CAL FOUND	BLANK	CALIBRATION	CAL BLANK 1	CAL VERIF 1	CAL BLANK 2
SAMPLE NUMBER		AR0808134	AR0808134	AR0824083	AR0824085	AR0824102	AR0824102	AR0824114
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								
ANTIMONY	F	18 U	103					
ARSENIC	F							
CADMIUM	P							
LEAD	F			2.1 U	101	2.1 U	30	2.1 U
MERCURY	CV							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

TABLE D.2.12 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR310013C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		CONTINUING	LAB CONTROL	PREP	CONTINUING	CONTINUING		
TYPE OF LOCATION		CAL VERIF 2	SAMP-SOLID	BLANK	CAL BLANK 3	CAL VERIF 3		
SAMPLE NUMBER		AR0824114	AR0824123	AR0824125	AR0824130	AR0824131		
MATRIX		WATER	SOIL	SOIL	WATER	WATER		
UNITS		UG/L	MG/KG	MG/KG	UG/L	UG/L		
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F	30	254	0.42 U	2.1 U	29		
MERCURY	CV							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS			100					

TABLE D.2.13 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR400012G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	PREP	LAB CONTROL
TYPE OF LOCATION		TRUE A	FOUND A	BLANK 1	TRUE	FINAL	BLANK	SAMPLE TRUE
SAMPLE NUMBER		AR2AA1004	AR2AA2004	AR03A0004	AR2B10002	AR2B10002	AR03A0004	AR0700104
MATRIX				WATER			WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F	27	28	0.8 B	10	10	1.2 B	100
CADMIUM	F	4.6	4.1	0.07 U	5	4.8	0.07 U	25
LEAD	F	43	44	0.7 U	5	5.2	0.7 U	100
SELENIUM	F	11	10	1.3 U	5	5	1.3 U	25
SILVER	F	15	15	0.14 U	10	11	0.14 U	2.5
THALLIUM	F	25	25	0.8 U	10	11	0.8 U	50
% SOLIDS								

AREA	METHOD	QA			QA	QA	QA	
LOCATION		LAB CONTROL	PLOT M	SE 317 ARE	CONTINUING	CONTINUING	DUPLICATE	RET. TANKS
TYPE OF LOCATION		SAMPLE	WELL	DRAINAGE	CAL FOUND	CAL BLANK		WASTEWATER
SAMPLE NUMBER		AR0700104	AR415019F	AR804043F	AR2AA4004	AR03A1004	AR804043F	AR500068F
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			9	18			18	10
ARSENIC	F	102	0.9 B	0.66 U	26	0.66 U	0.66 U	1.2 B
CADMIUM	F	24	0.2 B	0.15 B	4.4	0.07 U	1.6 B	0.1 B
LEAD	F	105	0.7 U	2 B	43	0.7 U	2.5 B	11
SELENIUM	F	22	1.3 U	1.3 U	10	1.3 U	1.3 U	1.3 U
SILVER	F	2.3	0.14 U	0.14 U	15	0.14	0.14 U	15
THALLIUM	F	54	0.8 B	0.55 U	26	0.8 U	0.8 U	0.55 U
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		MATRIX	MS %	CONTINUING	CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL
TYPE OF LOCATION		SPIKE	RECOVERY	CAL FOUND	CAL BLANK	CAL BLANK	FOUND A	BLANK 2
SAMPLE NUMBER		AR500068F	AR500068F	AR2AA5004	AR03A2004	AR03A3004	AR2AB2004	AR03B0004
MATRIX		WATER			WATER	WATER		WATER
UNITS		UG/L	%	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		10	10					
ARSENIC	F	32	77				28	0.66 U
CADMIUM	F	5.3	104	4.5	0.07 U		9.4	0.07 U

TABLE D.2.13 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR400012G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		MATRIX SPIKE	MS % RECOVERY	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL BLANK	INITIAL CAL FOUND A	INITIAL CAL BLANK 2
TYPE OF LOCATION								
SAMPLE NUMBER		AR500068F	AR500068F	AR2AA5004	AR03A2004	AR03A3004	AR2AB2004	AR03B0004
MATRIX		WATER			WATER	WATER		WATER
UNITS		UG/L	%	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		10	10					
LEAD	F	32	108	45	0.7 U	0.7 U		0.7 U
SELENIUM	F	9.9	99				11	1.3 U
SILVER	F	23	83				15	0.14 U
THALLIUM	F	51	102	24	0.8 U	0.8 U		0.8 U
% SOLIDS								

AREA	METHOD	QA	QA		QA	QA	QA	QA
LOCATION		CRDL STAND TRUE	CRDL STAND FINAL	PLOT M WELL	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL FOUND	CONTINUING CAL BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR2B20002	AR2B20002	AR415020F	AR2AB4004	AR03B4004	AR2AB5004	AR03B5004
MATRIX				WATER		WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO				9				
ARSENIC	F	10	9.1	0.7 B	27	0.66 U	29	0.66 U
CADMIUM	F	5	5.1	0.07 U	9.5	0.07 U	9.9	0.07 U
LEAD	F	5	5.3	0.7 U	46	0.7 U		0.7 U
SELENIUM	F	5	6.4	2.5 B	11	1.3 U	10	1.3 U
SILVER	F	10	10	0.14 U	15	0.2 B	16	0.2 B
THALLIUM	F	10	9.9	0.8 B	26	0.8 U		
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL BLANK	INITIAL CAL FOUND A	INITIAL CAL BLANK 3	CRDL STAND TRUE	CRDL STAND FINAL	CONTINUING CAL FOUND	CONTINUING CAL BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR03B6004	AR2AC2004	AR03C0004	AR2B30002	AR2B30002	AR2AC4004	AR03C7004
MATRIX		WATER		WATER				WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F	0.66 U		0.66 U	10	9.7	28	0.7 B
CADMIUM	F		9.8	0.07 U	5	5.1	9.6	0.07 U
LEAD	F	0.7 U	44				44	
SELENIUM	F	1.3 U		1.3 U	5	6.4	10	1.3 U

TABLE D.2.13 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR400012G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL BLANK	INITIAL CAL FOUND A	INITIAL CAL BLANK 3	CRDL STAND TRUE	CRDL STAND FINAL	CONTINUING CAL FOUND	CONTINUING CAL BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR03B6004	AR2AC2004	AR03C0004	AR2B30002	AR2B30002	AR2AC4004	AR03C7004
MATRIX		WATER		WATER				WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
SILVER	F	0.2 B		0.14 U	10	10	15	0.14 U
THALLIUM	F		26	0.8 U	10	9.7	28	0.8 U
% SOLIDS								

AREA	METHOD				QA	QA	QA	QA
LOCATION		B31 TAP WA WELLS	COAL PILE RUNOFF	RET. TANKS WASTEWATER	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL BLANK	INITIAL CAL FOUND A
TYPE OF LOCATION								
SAMPLE NUMBER		AR400012G	AR308042F	AR500717F	AR2AC5004	AR03C8004	AR03C9004	AR2AD2002
MATRIX		WATER	WATER	WATER		WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		7	4	10				
ARSENIC	F	1.3 B	0.66 U	0.66 U				26
CADMIUM	F	0.45 B	0.16 B	0.13 B	9.6	0.07 U	0.07 U	
LEAD	F	2.5 B	1.5 B	0.7 U	46			
SELENIUM	F	1.3 U	1.3 U	1.3 U		1.3 U	1.3 U	12
SILVER	F	0.14 U	0.14 U	0.14 U		0.14 U	0.14 U	14
THALLIUM	F	0.8 U	0.8 U	0.8 U		0.8 U	0.8 U	25
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK 4	CRDL STAND TRUE	CRDL STAND FINAL	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL FOUND	CONTINUING CAL BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR03D0001	AR2B40001	AR2B40001	AR2AD4002	AR03D1001	AR2AD5002	AR03D1101
MATRIX		WATER				WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F				25			
CADMIUM	F				9.7			
LEAD	F				45			
SELENIUM	F	1.3 U	5	5.6	11	1.3 U	11	1.3 U
SILVER	F				15		16	
THALLIUM	F	0.8 U	10	10	26	0.8 U	25	0.8 U

TABLE D.2.13 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR400012G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	CRDL STAND	CRDL STAND	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		BLANK 4	TRUE	FINAL	CAL FOUND	CAL BLANK	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR03D0001	AR2B40001	AR2B40001	AR2AD4002	AR03D1001	AR2AD5002	AR03D1101
MATRIX		WATER				WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CRDL STAND	CRDL STAND	CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL	CONTINUING
TYPE OF LOCATION		TRUE	FINAL	CAL FOUND	CAL BLANK	FOUND A	BLANK 5	CAL FOUND
SAMPLE NUMBER		AR2B50001	AR2B50001	AR2AE4001	AR03D1201	AR2AF2001	AR03E0001	AR2AF4001
MATRIX					WATER		WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	F							
LEAD	F							
SELENIUM	F			12	1.3 U	11		11
SILVER	F			15				
THALLIUM	F	10	9.8	25	0.8 U	25	0.8 U	23
% SOLIDS								

AREA	METHOD			QA			QA	QA
LOCATION		RET. TANKS	RET. TANKS	CONTINUING	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING
TYPE OF LOCATION		WASTEWATER	WASTEWATER	CAL FOUND	WASTEWATER	WASTEWATER	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR500091F	AR500295F	AR2AF5001	AR500126F	AR500080F	AR2AG4001	AR03E1301
MATRIX		WATER	WATER		WATER	WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		10	10		10	10		
ARSENIC	F	2.5 B	2.6 B		0.66 U	0.7 B		
CADMIUM	F	19	2.6 B		0.85 B	0.85 B		
LEAD	F	146	52		5	9		
SELENIUM	F	1.3 U	1.3 U	11	2.5 B	1.3 U	10	
SILVER	F	23	25		2.5 B	0.2 B		
THALLIUM	F	0.8 U	2 B	24	1 B	3 B	27	0.8 U
% SOLIDS								

TABLE D.2.13 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR400012G

DRAFT DO NOT CITE

AREA	METHOD	QA			QA		QA	QA
LOCATION		INITIAL CAL	RET. TANKS	RET. TANKS	CONTINUING	RET. TANKS	CONTINUING	CONTINUING
TYPE OF LOCATION		FOUND A	WASTEWATER	WASTEWATER	CAL FOUND	WASTEWATER	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR2AH2001	AR500024F	AR500319F	AR2AH4001	AR500013F	AR2AH5001	AR03E1401
MATRIX			WATER	WATER		WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO			10	10		10		
ARSENIC	F		3 B	0.66 U		8.3 B		
CADMIUM	F		14	6.1		3.9 B		
LEAD	F		95	146		58		
SELENIUM	F		1.5 B	1.3 U		1.3 U		
SILVER	F		0.14 U	7.6 B		0.5 B		
THALLIUM	F	26	0.8 U	0.8 U	27	0.8 U	26	0.8 U
% SOLIDS								

TABLE D.2.14 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR400012H

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		CALIBRATION	CALIBRATION	INITIAL CAL	CALIBRATION	CALIBRATION	B31 TAP WA	B32 TAP WA
TYPE OF LOCATION		VER TRUE	VER TRUE	BLANK	VER FOUND	VER FOUND	WELLS	WELLS
SAMPLE NUMBER		ARCVA1239	ARCVB1249	ARICB1286	ARCVA1226	ARCVB1247	AR400012H	AR401024B
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							7	7
URANIUM, TOTAL		80	640	1 U	78	611	1	1
% SOLIDS								

AREA	METHOD							
LOCATION		B32 TAP WA	B264 TAP W	317-319 LF	317-319 LF	317-319 LF		
TYPE OF LOCATION		WELLS	WELLS	WELL	WELL	WELL		
SAMPLE NUMBER		AR401013H	AR403015H	AR420016F	AR420027F	AR420038F		
MATRIX		WATER	WATER	WATER	WATER	WATER		
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L		
ENV PROBLEM NO		7	7	9	9	9		
URANIUM, TOTAL		1	1	1	1	1		
% SOLIDS								

TABLE D.2.15 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR401013G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	PREP	RET. TANKS
TYPE OF LOCATION		TRUE A	FOUND A	BLANK 1	TRUE	FINAL	BLANK	WASTEWATER
SAMPLE NUMBER		AR2AA1005	AR2AA2005	AR03A0005	AR2B10003	AR2B10003	AR03A0005	AR500104F
MATRIX				WATER			WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								10
ANTIMONY	F	102	109	3.3 U	60	66	3.3 U	9.3 B
% SOLIDS								

AREA	METHOD		QA	QA	QA		QA	QA
LOCATION		B32 TAP WA	DUPLICATE	MATRIX	MS %	B163 TAP W	CONTINUING	CONTINUING
TYPE OF LOCATION		WELLS		SPIKE	RECOVERY	WELLS	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR401024A	AR401024A	AR401024A	AR401024A	AR402014G	AR2AA4005	AR03A1005
MATRIX		WATER	WATER	WATER		WATER		WATER
UNITS		UG/L	UG/L	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO		7	7	7	7	7		
ANTIMONY	F	3.3 U	3.3 U	102	102	3.3 U	103	3.3 U
% SOLIDS								

AREA	METHOD						QA	QA
LOCATION		B264 TAP W	570 WTP	RET. TANKS	RET. TANKS	B32 TAP WA	CONTINUING	CONTINUING
TYPE OF LOCATION		WELLS	LAGOON	WASTEWATER	WASTEWATER	WELLS	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR403015G	AR806090F	AR500331F	AR500342F	AR401013G	AR2AA5005	AR03A2005
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		7	20	10	10	7		
ANTIMONY	F	3.3 U	3.3 U	26 B	6.2 B	3.3 U	101	3.3 U
% SOLIDS								

TABLE D.2.15 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR401013G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	LAB CONTROL	LAB CONTROL	CONTINUING
TYPE OF LOCATION		FOUND A	BLANK 2	TRUE	FINAL	SAMPLE TRUE	SAMPLE	CAL FOUND
SAMPLE NUMBER		AR2AB2005	AR03B0005	AR2B20003	AR2B20003	AR0700105	AR0700105	AR2AB4005
MATRIX			WATER			WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ANTIMONY	F	94	3.3 U	60	56	102	105	95
% SOLIDS								

AREA	METHOD	QA	QA	QA		QA	QA
LOCATION		CONTINUING	INITIAL CAL	INITIAL CAL	RET. TANKS	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK	FOUND A	BLANK 3	WASTEWATER	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR03B4005	AR2AC2005	AR03C0005	AR500115F	AR2AC4005	AR03C7005
MATRIX		WATER		WATER	WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO					10		
ANTIMONY	F	3.3 U	100	3.3 U	19 B	97	3.3 U
% SOLIDS							

TABLE D.2.16 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR401024A

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK 1	INITIAL CAL TRUE A	INITIAL CAL FOUND A	CONTINUING CAL BLANK	CONTINUING CAL FOUND	LAB CONTROL SAMPLE TRUE	LAB CONTROL SAMPLE
TYPE OF LOCATION								
SAMPLE NUMBER		AR03A0006	AR2AA1006	AR2AA2006	AR03A1006	AR2AA4006	AR0700106	AR0700106
MATRIX		WATER			WATER		WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
MERCURY	CV	0.01 U	10	9.8	0.01 U	9.5	873	850
% SOLIDS								

AREA	METHOD			QA	QA	QA		
LOCATION		RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	PREP BLANK	CONTINUING CAL BLANK	CONTINUING CAL FOUND	RET. TANKS WASTEWATER	B163 TAP W WELLS
TYPE OF LOCATION								
SAMPLE NUMBER		AR500240F	AR500706A	AR03A0006	AR03A2006	AR2AA5006	AR500320F	AR402014G
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		10	10				10	7
MERCURY	CV	1.2	0.03 B	0.02 B	0.01 U	9.9	1.2	0.02 B
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		DUPLICATE	MATRIX SPIKE	MS % RECOVERY	CONTINUING CAL BLANK	CONTINUING CAL FOUND	B32 TAP WA WELLS	DRYING BED SLUDGE
TYPE OF LOCATION								
SAMPLE NUMBER		AR402014G	AR402014G	AR402014G	AR03A3006	AR2AB4006	AR401024A	AR501070F
MATRIX		WATER	WATER		WATER		WATER	WATER
UNITS		UG/L	UG/L	%	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		7	7	7			7	11
MERCURY	CV	0.02 B	1.1	101	0.01 U	9.9	0.02 B	0.03 B
% SOLIDS								

TABLE D.2.16 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR401024A DRAFT DO NOT CITE

AREA	METHOD			QA	QA			
LOCATION		319 LDF-NW	UNDWRTRS P	CONTINUING	CONTINUING	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION		BACKGROUND	POND	CAL BLANK	CAL FOUND	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER		AR802109H	AR809048A	AR03B4006	AR2AB5006	AR500546F	AR500353F	AR500115F
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		17	22			10	10	10
MERCURY	CV	0.03 B	0.01 B	0.01 U	10	13	0.16 B	46
% SOLIDS								

AREA	METHOD	QA	QA				QA	QA
LOCATION		CONTINUING	CONTINUING	RET. TANKS	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK	CAL FOUND	WASTEWATER	WASTEWATER	WASTEWATER	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR03C7006	AR2AC4006	AR500251F	AR500524F	AR500104F	AR03C8006	AR2AC5006
MATRIX		WATER		WATER	WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO				10	10	10		
MERCURY	CV	0.01 U	10	3.3	0.21	13	0.01 U	10
% SOLIDS								

AREA	METHOD			QA	QA			
LOCATION		B32 TAP WA	B264 TAP W	CONTINUING	CONTINUING			
TYPE OF LOCATION		WELLS	WELLS	CAL FOUND	CAL BLANK			
SAMPLE NUMBER		AR401013G	AR403015G	AR2AD4003	AR03C9006			
MATRIX		WATER	WATER		WATER			
UNITS		UG/L	UG/L	UG/L	UG/L			
ENV PROBLEM NO		7	7					
MERCURY	CV	0.04 B	0.02 B	9.8	0.01 U			
% SOLIDS								

TABLE D.2.17 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR403015G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL TRUE A	INITIAL CAL FOUND A	INITIAL CAL BLANK 1	CRDL STAND TRUE	CRDL STAND FINAL	PREP BLANK	LAB CONTROL SAMPLE TRUE
TYPE OF LOCATION								
SAMPLE NUMBER		AR2AA1007	AR2AA2007	AR03A0007	AR2B10004	AR2B10004	AR03A0007	AR0700107
MATRIX				WATER			WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F	27	27	0.66 U	10	10	0.66 U	100
CADMIUM	F	4.6	4.5	0.07 U	5	5	0.1 B	25
LEAD	F	43	40	0.7 U	5	4.8	0.7 U	100
SELENIUM	F	11	12	1.3 U	5	5.7	1.3 U	25
SILVER	F	15	14	0.14 U	10	9.8	0.14 U	2.5
THALLIUM	F	25	25	0.55 U	10	11	0.55 U	100
% SOLIDS								

AREA	METHOD	QA			QA	QA	QA	QA
LOCATION		LAB CONTROL SAMPLE	SITE A SITE A	B264 TAP W WELLS	CONTINUING CAL FOUND	CONTINUING CAL BLANK	DUPLICATE	MATRIX SPIKE
TYPE OF LOCATION								
SAMPLE NUMBER		AR0700107	AR815137F	AR403015G	AR2AA4007	AR03A1007	AR403015G	AR403015G
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			25	7			7	7
ARSENIC	F	100	0.66 U	1.9 B	27	0.66 U	1.4 B	37
CADMIUM	F	28	0.4 B	0.4 B	4.7	0.07 U	0.2 B	6.1
LEAD	F	106	2.4 B	0.8 B	39	0.7 U	0.7 U	19
SELENIUM	F	22	1.3 U	1.3 U	11	1.3 U	1.3 U	9.3
SILVER	F	2.1	3 B	1 B	14	0.14 U	1 B	9
THALLIUM	F	98	0.55 U	1.8 B	26	0.55 U	0.55 U	46
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		MS % RECOVERY	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL BLANK	INITIAL CAL FOUND A	INITIAL CAL BLANK 2	CRDL STAND TRUE
TYPE OF LOCATION								
SAMPLE NUMBER		AR403015G	AR2AA5007	AR03A2007	AR03A3007	AR2AB2007	AR03B0007	AR2B20004
MATRIX				WATER	WATER		WATER	
UNITS		%	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		7						
ARSENIC	F	87	26	0.66 U	0.66 U		0.66 U	10
CADMIUM	F	114	4.7	0.07 U		9	0.07 U	5

TABLE D.2.17 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR403015G DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		MS % RECOVERY	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL BLANK	INITIAL CAL FOUND A	INITIAL CAL BLANK 2	CRDL STAND TRUE
TYPE OF LOCATION								
SAMPLE NUMBER		AR403015G	AR2AA5007	AR03A2007	AR03A3007	AR2AB2007	AR03B0007	AR2B20004
MATRIX				WATER	WATER		WATER	
UNITS		%	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		7						
LEAD	F	90	38	0.7 U	0.7 U		0.7 U	5
SELENIUM	F	93	10	1.3 U	1.3 U		1.3 U	5
SILVER	F	80	14	0.14 U	0.14 U		0.14 U	10
THALLIUM	F	88	24	0.55 U	0.55 U		0.8 U	10
% SOLIDS								

AREA	METHOD	QA	QA	QA			QA	QA
LOCATION		CRDL STAND FINAL	CONTINUING CAL FOUND	CONTINUING CAL BLANK	570 WTP LAGOON	RET. TANKS WASTEWATER	CONTINUING CAL FOUND	CONTINUING CAL BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR2B20004	AR2AB4007	AR03B4007	AR806090F	AR500273F	AR2AB5007	AR03B5007
MATRIX				WATER	WATER	WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO					20	10		
ARSENIC	F	10	24	0.66 U	0.66 U	0.7 B		0.8 B
CADMIUM	F	5.3	9.1	0.07 U	3 B	1.7 B	9.2	0.07 U
LEAD	F	5.3	40	0.7 U	0.7 U	1.6 B		0.7 U
SELENIUM	F	4.9	10	1.3 U	1.3 U	1.3 U		1.3 U
SILVER	F	11	14	0.14 U	0.14 U	1 B		0.14 U
THALLIUM	F	8.7	26	0.8 U	0.8 U	0.8 U		0.8 U
% SOLIDS								

AREA	METHOD	QA			QA	QA	QA	QA
LOCATION		INITIAL CAL FOUND A	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK	INITIAL CAL FOUND A
TYPE OF LOCATION								
SAMPLE NUMBER		AR2AC2007	AR500046F	AR500502F	AR2AC4007	AR2AC5007	AR03B6007	AR2AD2004
MATRIX			WATER	WATER			WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO			10	10				
ARSENIC	F	27	0.8 B	5 B	24	28		27
CADMIUM	F		2 B	1.9 B	8.9		0.07 U	9.9
LEAD	F	46	1.2 B	2.4 B	44	43	0.7 U	
SELENIUM	F	10	1.3 U	1.3 U	11	12		10

TABLE D.2.17 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR403015G

DRAFT DO NOT CITE

AREA	METHOD	QA			QA	QA	QA	QA
LOCATION		INITIAL CAL	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING	CONTINUING	INITIAL CAL
TYPE OF LOCATION		FOUND A	WASTEWATER	WASTEWATER	CAL FOUND	CAL FOUND	CAL BLANK	FOUND A
SAMPLE NUMBER		AR2AC2007	AR500046F	AR500502F	AR2AC4007	AR2AC5007	AR03B6007	AR2AD2004
MATRIX			WATER	WATER			WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO			10	10				
SILVER	F	16	2 B	2 B	15	16	0.14 U	
THALLIUM	F	27	0.8 U	0.8 U	24	23	0.8 U	
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	CRDL STAND	CRDL STAND	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		BLANK 3	TRUE	FINAL	CAL FOUND	CAL BLANK	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR03C0007	AR2B30003	AR2B30003	AR2AD4004	AR03C7007	AR2AD5004	AR03C8007
MATRIX		WATER				WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F	0.66 U	10	10	25	0.8 B	24	0.66 U
CADMIUM	F	0.07 U	5	5.1	9.6	0.07 U	9.8	0.07 U
LEAD	F	0.7 U	5	4.8	44	0.7 U		0.7 U
SELENIUM	F	1.3 U	5	5.5	11	1.3 U	11	1.3 U
SILVER	F	0.14 U	10	9.6	14	0.14 U		
THALLIUM	F				24			
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		CONTINUING	INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	RET. TANKS	RET. TANKS
TYPE OF LOCATION		CAL BLANK	FOUND A	BLANK 4	TRUE	FINAL	WASTEWATER	WASTEWATER
SAMPLE NUMBER		AR03C9007	AR2AE2002	AR03D0002	AR2B40002	AR2B40002	AR500331F	AR500488F
MATRIX		WATER		WATER			WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO							10	10
ARSENIC	F		27	0.66 U	10	10	8 B	1.4 B
CADMIUM	F		9.8	0.07 U	5	5	17	15
LEAD	F		43	0.7 U	5	5	3250	168
SELENIUM	F	1.3 U		1.7 B	5	5.9	3 B	1.3 U
SILVER	F		15				1 B	6 B
THALLIUM	F						0.8 U	0.8 U

TABLE D.2.17 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR403015G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		CONTINUING	INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	RET. TANKS	RET. TANKS
TYPE OF LOCATION		CAL BLANK	FOUND A	BLANK 4	TRUE	FINAL	WASTEWATER	WASTEWATER
SAMPLE NUMBER		AR03C9007	AR2AE2002	AR03D0002	AR2B40002	AR2B40002	AR500331F	AR500488F
MATRIX		WATER		WATER			WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO							10	10
% SOLIDS								

AREA	METHOD		QA	QA		QA	QA	QA
LOCATION		RET. TANKS	CONTINUING	CONTINUING	RET. TANKS	CONTINUING	CONTINUING	INITIAL CAL
TYPE OF LOCATION		WASTEWATER	CAL FOUND	CAL BLANK	WASTEWATER	CAL FOUND	CAL BLANK	FOUND A
SAMPLE NUMBER		AR500557F	AR2AE4002	AR03D1002	AR500580F	AR2AE5002	AR03D1102	AR2AF2002
MATRIX		WATER		WATER	WATER		WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		10			10			
ARSENIC	F	1.7 B	27	0.66 U	1 B			
CADMIUM	F	9.5	9.9	0.07 U	0.29 B	8.9	0.07 U	
LEAD	F	103	41	0.7 U	9	44		44
SELENIUM	F	1.3 U	11	1.3 U	1.3 U		1.3 U	11
SILVER	F	5 B	15		7 B			
THALLIUM	F	0.8 U			0.8 U			
% SOLIDS								

AREA	METHOD		QA	QA	QA	QA	QA	
LOCATION		RET. TANKS	CONTINUING	CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL	RET. TANKS
TYPE OF LOCATION		WASTEWATER	CAL FOUND	CAL FOUND	CAL BLANK	FOUND A	BLANK 5	WASTEWATER
SAMPLE NUMBER		AR500477F	AR2AF4002	AR2AF5002	AR03D1202	AR2AG2002	AR03E0002	AR500342F
MATRIX		WATER			WATER		WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		10						10
ARSENIC	F	0.9 B						1.1 B
CADMIUM	F	1.7 B	9.9		0.07 U	9.4	0.07 U	5.8
LEAD	F	39	41					855
SELENIUM	F	1.3 U	10	12				2 B
SILVER	F	4 B						2 B
THALLIUM	F	0.8 U						0.8 U
% SOLIDS								

TABLE D.2.17 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR403015G

DRAFT DO NOT CITE

AREA	METHOD			QA	QA			
LOCATION		RET. TANKS	RET. TANKS	CONTINUING	CONTINUING			
TYPE OF LOCATION		WASTEWATER	WASTEWATER	CAL FOUND	CAL BLANK			
SAMPLE NUMBER		AR500568F	AR500579F	AR2AG4002	AR03E1302			
MATRIX		WATER	WATER		WATER			
UNITS		UG/L	UG/L	UG/L	UG/L			
ENV PROBLEM NO		10	10					
ARSENIC	F	4.5 B	8.5 B					
CADMIUM	F	5.9	30	8.7	0.07 U			
LEAD	F	22	2340					
SELENIUM	F	1.3 U	1.3 U					
SILVER	F	1 B	3 B					
THALLIUM	F	0.8 U	0.8 U					
% SOLIDS								

TABLE D.2.18 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR406030K

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	LAB CONTROL	INITIAL CAL	INITIAL CAL	PREP	PREP	LAB CONTROL
TYPE OF LOCATION		TRUE A	SAMPLE TRUE	FOUND A	BLANK	BLANK	BLANK	SAMPLE
SAMPLE NUMBER		ARICV1370	ARLCS1480	ARICV1354	ARICB1287	ARPB01535	ARPB01536	ARLCS1462
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								
POTASSIUM	FE	1000 B	10000	1000 B	100 U	100	100	9700
% SOLIDS								

AREA	METHOD							
LOCATION		PLOT M NEW	PLOT M NEW	PLOT M	PLOT M	WELL #9	WELL #9	WELL #9
TYPE OF LOCATION		WELL	WELL	WELL	WELL	WELL	WELL	WELL
SAMPLE NUMBER		AR413062G	AR413051A	AR413017K	AR413028K	AR407155J	AR406030K	AR406041K
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		9	9	9	9	9	9	9
POTASSIUM	FE	100 U	100 U	5300	5200	100 U	1900 B	1800 B
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL FOUND	CAL BLANK	CAL FOUND	CAL BLANK
SAMPLE NUMBER		ARCCV1101	ARCCB1033	ARCCV1102	ARCCB1034
MATRIX		WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO					
POTASSIUM	FE	960 B	100 U	1000 B	100
% SOLIDS					

TABLE D.2.19 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR406030M

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INTER CHK	INTER CHK	INITIAL CAL	INITIAL CAL	INITIAL CAL	LAB CONTROL	LAB CONTROL
TYPE OF LOCATION		SOL. A TRUE	SOL. AB TRUE	TRUE A	TRUE B	TRUE C	SAMPLE TRUE	SAMPLE TRUE
SAMPLE NUMBER		ARICS1335	ARICS1343	ARICV1371	ARICV1391	ARICV1407	ARLCS1481	ARLCS1482
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	UG/L
ENV PROBLEM NO								
ALUMINUM	P	511000	508000	100000	990		15200	970
ANTIMONY	P				1000		20 U	990
ARSENIC	P				1000		680	1000
BARIUM	P		483		990		430	970
BERYLLIUM	P		474		241		1 U	960
CADMIUM	P		909		245		1 U	940
CALCIUM	P	476000	470000		24900	5000	10500	1000 B
CHROMIUM	P		513		253		17	1030
COBALT	P		478		237		6.9	1000
COPPER	P		534		271		265	1030
IRON	P	219000	211000	100000	995		11200	1020
LEAD	P		4850		2260		5830	1010
MAGNESIUM	P	513000	513000	50000		5000	14700	1000 B
MANGANESE	P		470	50000	257		91700	1020
NICKEL	P		916		248		22	1020
SELENIUM	P				1000		1 U	990
SILVER	P		934		255		2 U	990
SODIUM	P			100000		5000	3720	860 B
VANADIUM	P		475		256		18	1010
ZINC	P		973		1550		425	1010
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CRDL STAND	LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL
TYPE OF LOCATION		TRUE			FOUND A	FOUND B	FOUND C	BLANK
SAMPLE NUMBER		ARLRA1510	ARRAN1562	ARRAN1570	ARICV1355	ARICV1383	ARICV1399	ARICB1288
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								
ALUMINUM	P		10000	800000	98600	1130		60 U
ANTIMONY	P	120	10000			1000		50 U
ARSENIC	P	500	20000			1080		60 U
BARIUM	P		5000			979		2 U
BERYLLIUM	P	10	1500			245		0.3 U
CADMIUM	P	10	5000			247		2 U
CALCIUM	P		10000	900000		24100	5370	200 U

TABLE D.2.19 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR406030M DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CRDL STAND	LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL
TYPE OF LOCATION		TRUE			FOUND A	FOUND B	FOUND C	BLANK
SAMPLE NUMBER		ARLRA1510	ARRAN1562	ARRAN1570	ARICV1355	ARICV1383	ARICV1399	ARICB1288
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								
CHROMIUM	P	20	10000			249		6 U
COBALT	P	100	10000			241		3 U
COPPER	P	50	10000			267		10 U
IRON	P		12000	800000	95600	958		20 U
LEAD	P	500	50000			2130		50 U
MAGNESIUM	P		12000	500000	46000		5030	10 U
MANGANESE	P	30	2000	200000	50000	248		5 U
NICKEL	P	80	10000			238		6 U
SELENIUM	P	500	10000			1040		60 U
SILVER	P	20	10000			248		6 U
SODIUM	P		10000	900000	99800		4650 B	200 U
VANADIUM	P	100	10000			266		4 U
ZINC	P	40	6000			1460		7 U
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	
LOCATION		CRDL STAND	INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	PLOT M NEW
TYPE OF LOCATION		INITIAL	SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	WELL
SAMPLE NUMBER		ARLRA1502	ARICS1319	ARICS1327	ARPB01539	ARPB01540	ARLCS1464	AR413062G
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								9
ALUMINUM	P		500000	504000	60 U	60 U	1110	60 U
ANTIMONY	P	105			50 U	50 U	969	50 U
ARSENIC	P	513			60 U	60 U	1030	60 UN
BARIUM	P		16 B	453	2 U	2 U	994	3.1 BE
BERYLLIUM	P	9.7	3.8 B	452	0.3 U	0.3 U	960	0.3 U
CADMIUM	P	7.9	21	841	2 U	2 U	860	2 U
CALCIUM	P		474000	476000	200 U	200 U	1070 B	200 UE
CHROMIUM	P	20	18	446	6 U	6 U	961	6 U
COBALT	P	100	5.2 B	424	3 U	3 U	950	3 U
COPPER	P	46	10 U	496	10 U	10 U	989	10 U
IRON	P		206000	207000	20 U	20 U	970	20 U
LEAD	P	496	50 U	4350	50 U	50 U	982	50 U
MAGNESIUM	P		508000	511000	10 U	10 U	999 B	19 BE
MANGANESE	P	29	5 U	431	5 U	5 U	964	5 U

TABLE D.2.19 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR406030M

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AREA	METHOD	QA	QA	QA	QA	QA	QA	
LOCATION		CRDL STAND	INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	PLOT M NEW
TYPE OF LOCATION		INITIAL	SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	WELL
SAMPLE NUMBER		ARLRA1502	ARICS1319	ARICS1327	ARPB01539	ARPB01540	ARLCS1464	AR413062G
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								9
NICKEL	P	73	19 B	801	6 U	6 U	948	6 U
SELENIUM	P	492			60 U	60 U	1030	60 U
SILVER	P	17	9.7 B	927	6 U	6 U	973	6 U
SODIUM	P				200 U	200 U	737 B	200 UE
VANADIUM	P	99	4 U	448	4 U	4 U	983	4 U
ZINC	P	34	7 U	899	7 U	7 U	971	7 U
% SOLIDS								

AREA	METHOD				QA	QA	QA	QA
LOCATION		PLOT M NEW	PLOT M	PLOT M	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		WELL	WELL	WELL	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR413051A	AR413017K	AR413028K	ARCCV1103	ARCCV1151	ARCCV1185	ARCCB1035
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		9	9	9				
ALUMINUM	P	60 U	310	291	99200	1160		60 U
ANTIMONY	P	50 U	50 U	50 U		1030		50 U
ARSENIC	P	60 UN	60 UN	60 UN		1100		60 U
BARIUM	P	2 UE	41 BE	41 BE		994		2 U
BERYLLIUM	P	0.3 U	1.3 B	1.3 B		248		0.3 U
CADMIUM	P	2 U	2 U	2 U		253		2 U
CALCIUM	P	200 UE	69100 E	68300 E		25300	5190	200 U
CHROMIUM	P	6 U	6 U	6 U		257		6 U
COBALT	P	3 U	3 U	3 U		247		3 U
COPPER	P	10 U	10 U	10 U		268		10 U
IRON	P	20 U	63 B	40 B	97500	978		20 U
LEAD	P	50 U	50 U	50 U		2180		50 U
MAGNESIUM	P	10 UE	67900 E	66900 E	46400		5030	10 U
MANGANESE	P	5 U	79	77	49800	251		5 U
NICKEL	P	6 U	6 U	6 U		245		6 U
SELENIUM	P	60 U	60 U	60 U		1040		60 U
SILVER	P	6 U	6 U	6 U		257		6 U
SODIUM	P	200 UE	7240 E	7130 E	101000		4520 B	200 U
VANADIUM	P	4 U	8.8 B	8.1 B		274		4 U
ZINC	P	7 U	7 U	7 U		1490		7 U
% SOLIDS								

TABLE D.2.19 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR406030M

DRAFT DO NOT CITE

AREA	METHOD				QA	QA	QA	QA
LOCATION		WELL #9	WELL #9	WELL #9	PREP BLANK	PREP BLANK	LAB CONTROL SAMPLE	CONTINUING CAL FOUND
TYPE OF LOCATION		WELL	WELL	WELL				
SAMPLE NUMBER		AR407155J	AR406030K	AR406041K	ARPB01537	ARPB01538	ARLCS1463	ARCCV1104
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	UG/L
ENV PROBLEM NO		9	9	9				
ALUMINUM	P	60 U	296	279	60 U	60 U	18500	98700
ANTIMONY	P	50 U	50 U	50 U	50 U	50 U	9.3 U	
ARSENIC	P	60 UN	60 UN	60 UN	60 U	60 U	676	
BARIUM	P	2.5 BE	134 BE	130 BE	3.4 B	2 U	428	
BERYLLIUM	P	3 U	1.4 B	1.5 B	0.3 U	0.3 U	1.3	
CADMIUM	P	2 U	2.4 B	2 U	2 U	2 U	1.4	
CALCIUM	P	200 UE	101000 E	100000 E	200 U	200 U	10300	
CHROMIUM	P	6 U	6 U	6 U	6 U	6 U	10	
COBALT	P	3 U	3 U	3 U	3 U	3 U	6.4	
COPPER	P	10 U	10 U	10 U	10 U	10 U	265	
IRON	P	104	1390	1460	20 U	20 U	13300	96100
LEAD	P	50 U	50 U	50 U	50 U	50 U	5390	
MAGNESIUM	P	40 BE	47600 E	46700 E	10 U	10 U	16000	46100
MANGANESE	P	5 U	59	57	5 U	5 U	94500	51600
NICKEL	P	6 U	6 U	6 U	6 U	6 U	23	
SELENIUM	P	60 U	60 U	60 U	60 U	60 U	111 U	
SILVER	P	6 U	6 U	6 U	6 U	6 U	1.1 U	
SODIUM	P	280 BE	15200 E	13400 E	200 U	200 U	4280	96900
VANADIUM	P	4 U	8.1 B	8.3 B	4 U	4 U	22	
ZINC	P	7 U	40	34	7 U	7 U	418	
% SOLIDS								

AREA	METHOD	QA	QA	QA				
LOCATION		CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND
TYPE OF LOCATION								
SAMPLE NUMBER		ARCCV1152	ARCCV1186	ARCCB1036	AR802074F	AR802063F	AR802052F	AR802041F
MATRIX		WATER	WATER	WATER	SOIL	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO					17	17	17	17
ALUMINUM	P	1070		60 U	19000	11600	13100	11400
ANTIMONY	P	963		50 U	8.7 UN	8.7 UN	8.5 UN	8.7 UN
ARSENIC	P	1060		60 U	10 UN	10 UN	10 UN	10 UN
BARIUM	P	969		2 U	74 E	106 E	98 E	114 E
BERYLLIUM	P	240		0.3 U	0.96	0.49 B	0.68 B	0.6 B
CADMIUM	P	243		2 U	2.2	1.2	1.7	1.1
CALCIUM	P	23800	5460	200 U	1700	1940	3030	1900

TABLE D.2.19 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR406030M

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA				
LOCATION		CONTINUING	CONTINUING	CONTINUING	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL BLANK	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER		ARCCV1152	ARCCV1186	ARCCB1036	AR802074F	AR802063F	AR802052F	AR802041F
MATRIX		WATER	WATER	WATER	SOIL	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO					17	17	17	17
CHROMIUM	P	247		6 U	21	14	16	14
COBALT	P	238		3 U	13	9.7	9.8	12
COPPER	P	263		10 U	27	9.5	12	11
IRON	P	938		20 U	30700 E	15800 E	17300 E	15500 E
LEAD	P	2070		50 U	15 B	27 B	20 B	26 B
MAGNESIUM	P		4930 B	10 U	4290	2560	3730	2620
MANGANESE	P	247		5 U	643 N*	711 N*	778 N*	1180 N*
NICKEL	P	226		6 U	25	13	16	12
SELENIUM	P	982		60 U	10 UN	10 UN	10 UN	10 UN
SILVER	P	241		6 U	1 UN	1.1 UN	1.4 BN	1 UN
SODIUM	P		4570 B	200 U	78 B	291 B	103 B	75 B
VANADIUM	P	260		4 U	40	29	33	31
ZINC	P	1430		7 U	76	65	61	66
% SOLIDS					80	77.1	80.5	74.6

AREA	METHOD							
LOCATION		319 LDF-NW	319 LDF-NW	319 LDF-NW	DRYING BED	DRYING BED	DRYING BED	DRYING BED
TYPE OF LOCATION		BACKGROUND	BACKGROUND	BACKGROUND	SLUDGE	SLUDGE	SLUDGE	SLUDGE
SAMPLE NUMBER		AR802030F	AR802029F	AR802018F	AR501047E	AR501058E	AR501069E	AR501014E
MATRIX		SOIL	SOIL	SOIL	SLUDG	SLUDG	SLUDG	SLUDG
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		17	17	17	11	11	11	11
ALUMINUM	P	10400	11700	10400	14700	16700	17200	10700
ANTIMONY	P	9.3 UN	9.6 UN	9.8 UN	27 N	16 BN	14 UN	12 N
ARSENIC	P	11 UN	12 UN	12 UN	25 BN	17 UN	17 UN	12 UN
BARIUM	P	125 E	104 E	106 E	475 E	567 E	574 E	222 E
BERYLLIUM	P	0.54 B	0.69 B	0.58 B	3.6	4.2	3.8	2
CADMIUM	P	1.5	1.7	1.9	69	64	67	23
CALCIUM	P	2940	3920	3000	78300	55700	61500	125000
CHROMIUM	P	13	15	14	1390	1470	1560	609
COBALT	P	8.6 B	10	11	17	11 B	17	8.6 B
COPPER	P	13	16	13	3940	6090	5540	1740
IRON	P	14500 E	17900 E	14600 E	54300 E	58800 E	59700 E	39700 E
LEAD	P	28 B	26 B	33 B	935	1120	1100	404
MAGNESIUM	P	2500	3610	2730	20800	20700	10000	49900
MANGANESE	P	1020 N*	1030 N*	947 N*	299 N*	245 N*	283 N*	743 N*

TABLE D.2.19 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR406030M

DRAFT DO NOT CITE

AREA	METHOD							
LOCATION		319 LDF-NW	319 LDF-NW	319 LDF-NW	DRYING BED	DRYING BED	DRYING BED	DRYING BED
TYPE OF LOCATION		BACKGROUND	BACKGROUND	BACKGROUND	SLUDGE	SLUDGE	SLUDGE	SLUDGE
SAMPLE NUMBER		AR802030F	AR802029F	AR802018F	AR501047E	AR501058E	AR501069E	AR501014E
MATRIX		SOIL	SOIL	SOIL	SLUDG	SLUDG	SLUDG	SLUDG
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		17	17	17	11	11	11	11
NICKEL	P	13	17	15	183	179	201	97
SELENIUM	P	11 UN	12 UN	12 UN	26 BN	18 BN	29 BN	12 UN
SILVER	P	1.1 UN	1.2 UN	1.6 BN	275 N	274 N	276 N	192 N
SODIUM	P	52 B	63 B	65 B	681 B	405 B	534 B	827 B
VANADIUM	P	27	30	28	42	45	45	21
ZINC	P	90	75	69	5370	6310	7460	4220
% SOLIDS		68.4	71.4	65	47.9	47.9	47.9	67.7

AREA	METHOD	QA	QA	QA	QA			
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	DRYING BED	DRYING BED	B148 FLUE
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	SLUDGE	SLUDGE	SEEPAGE
SAMPLE NUMBER		ARCCV1105	ARCCV1153	ARCCV1187	ARCCB1037	AR501025E	AR501036E	AR504017B
MATRIX		WATER	WATER	WATER	WATER	SLUDG	SLUDG	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO						11	11	13
ALUMINUM	P	98500	1140		60 U	9220	9350	2670
ANTIMONY	P		1010		50 U	12 UN	16 N	7.7 UN
ARSENIC	P		1080		60 U	14 UN	11 UN	13 BN
BARIUM	P		990		2 U	319 E	267 E	18 BE
BERYLLIUM	P		243		0.3 U	9.8	3.1	0.93
CADMIUM	P		252		2 U	40	37	1.5
CALCIUM	P		24200	5680	200 U	92300	85700	103000
CHROMIUM	P		246		6 U	765	827	5.5
COBALT	P		242		3 U	12	11	4.5 B
COPPER	P		264		10 U	1440	2190	14
IRON	P	95400	961		20 U	37200 E	32500 E	10900 E
LEAD	P		2110		50 U	664	490	12 B
MAGNESIUM	P	45900		4850 B	10 U	14100	36100	60900
MANGANESE	P	52900	248		5 U	426 N*	246 N*	600 N*
NICKEL	P		241		6 U	125	105	12
SELENIUM	P		1010		60 U	14 UN	11 UN	9.2 UN
SILVER	P		237		6 U	216 N	163 N	1.5 BN
SODIUM	P	98400		4420 B	200 U	1250	558 B	653 B
VANADIUM	P		259		4 U	29	24	7.8
ZINC	P		1440		7 U	3640	2920	82
% SOLIDS						58.8	65.4	87.5

TABLE D.2.19 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR406030M

DRAFT DO NOT CITE

AREA	METHOD							
LOCATION		B148 FLUE	B148 FLUE	B148 FLUE	B148 FLUE	B148 FLUE	QA	QA
TYPE OF LOCATION		SEEPAGE	SEEPAGE	SEEPAGE	SEEPAGE	SEEPAGE	SERIAL	SD %
SAMPLE NUMBER		AR504028B	AR504039B	AR504040B	AR504051B	AR504062B	DILUTION	DIFFERENCE
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	AR504062B	AR504062B
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	SOIL	
ENV PROBLEM NO		13	13	13	13	13	MG/KG	%
							13	13
ALUMINUM	P	2920	2890	3060	3580	3330	3630	9
ANTIMONY	P	7.5 UN	6.9 UN	8.6 UN	8 UN	8.1 UN	41 U	
ARSENIC	P	9.8 BN	8.3 UN	10 UN	9.6 UN	10 BN	49 U	
BARIUM	P	15 BE	13 BE	16 BE	18 BE	14 BE	20 B	43
BERYLLIUM	P	0.74 B	0.73	0.8 B	0.79 B	0.8 B	1.6	
CADMIUM	P	1.2	1.1	1.1	1.1	1.4	3.9	
CALCIUM	P	111000	119000	121000	119000	125000	135000	8
CHROMIUM	P	3.5	3.5	3.8	4.3	4.6	9	
COBALT	P	4 B	3.4 B	3.7 B	3.4 B	4 B	4.4 B	
COPPER	P	12	8.6	11	9.9	9.5	8.9	
IRON	P	10000 E	9590 E	11000 E	10600 E	10800 E	12900	19
LEAD	P	7.5 U	6.9 U	8.6 U	8 U	8.1 U	41 U	
MAGNESIUM	P	65500	99900	71900	70500	73200	75500	3.1
MANGANESE	P	574 N*	530 N*	299 N*	288 N*	307 N*	333	8.5
NICKEL	P	9	7.8	9.1	9.2	9.5	18	
SELENIUM	P	8.9 UN	8.3 UN	10 UN	9.6 UN	9.8 UN	49 U	
SILVER	P	0.89 UN	0.94 BN	1.3 BN	1.7 N	4 N	4.9 U	
SODIUM	P	447 B	489 B	665 B	563 B	498 B	207 B	
VANADIUM	P	6.4 B	7	7.1 B	7.1 B	7.9 B	15	
ZINC	P	65	37	48	40	49	55	
% SOLIDS		88.6	90.9	80.1	83.3	83.2	83.2	

AREA	METHOD	QA	QA	QA	QA		QA	QA
LOCATION		DUPLICATE	DUPLICATE	MATRIX	MS %	SITE A	CONTINUING	CONTINUING
TYPE OF LOCATION			RPD	SPIKE	RECOVERY	SITE A	CAL FOUND	CAL FOUND
SAMPLE NUMBER		AR504062B	AR504062B	AR504062B	AR504062B	AR813077A	ARCCV1106	ARCCV1154
MATRIX		SOIL		SOIL		SOIL	WATER	WATER
UNITS		MG/KG	%	MG/KG	%	MG/KG	UG/L	UG/L
ENV PROBLEM NO		13	13	13	13	25		
ALUMINUM	P	3050	8.8	2450		5040	97500	1130
ANTIMONY	P	11		42	54	7.4 UN		1000
ARSENIC	P	9.4 U		115	656	8.9 UN		1040
BARIUM	P	16 B		280	83	42 E		973
BERYLLIUM	P	0.8		7.3	81	0.25 B		240
CADMIUM	P	1.6	0.2	7.4	75	0.93		246
CALCIUM	P	129000	3.1	115000		1020		23800

TABLE D.2.19 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR406030M

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA		QA	QA
LOCATION		DUPLICATE	DUPLICATE	MATRIX SPIKE	MS % RECOVERY	SITE A	CONTINUING CAL FOUND	CONTINUING CAL FOUND
TYPE OF LOCATION			RPD			SITE A		
SAMPLE NUMBER		AR504062B	AR504062B	AR504062B	AR504062B	AR813077A	ARCCV1106	ARCCV1154
MATRIX		SOIL		SOIL		SOIL	WATER	WATER
UNITS		MG/KG	%	MG/KG	%	MG/KG	UG/L	UG/L
ENV PROBLEM NO		13	13	13	13	25		
CHROMIUM	P	4.9	0.3	30	79	7.1		245
COBALT	P	3.9 B		65	76	4 B		236
COPPER	P	9.4	0.1	43	84	6		262
IRON	P	10400	3.8	9070		6150 E	94400	940
LEAD	P	7.8 U		81	101	77		2080
MAGNESIUM	P	73900	0.95	66700		1040	45300	
MANGANESE	P	608	66	1690	1730	393 N*	53000	245
NICKEL	P	9.9	0.4	73	79	6.7		236
SELENIUM	P	9.4 U		210	262	8.9 UN		1020
SILVER	P	4.6	0.6	9.1	64	3 N		236
SODIUM	P	501 B		433 B		44 B	94800	
VANADIUM	P	7.9		73	81	13		257
ZINC	P	51	4	110	76	37		1420
% SOLIDS		83.2		83.2		94.7		

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CRDL STAND FINAL
TYPE OF LOCATION								
SAMPLE NUMBER		ARCCV1188	ARCCB1038	ARCCV1107	ARCCV1155	ARCCV1189	ARCCB1039	ARLRA1494
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								
ALUMINUM	P		60 U	98000	1160		65 B	
ANTIMONY	P		50 U		1010		50 U	112
ARSENIC	P		60 U		1050		60 U	489
BARIUM	P		3.4 B		980		4.3 B	
BERYLLIUM	P		0.3 U		242		0.3 U	9
CADMIUM	P		3.6 B		251		5.5	9.1
CALCIUM	P	5670	200 U		24300	5670	200 U	
CHROMIUM	P		6 U		246		6 U	16
COBALT	P		3 U		236		3 U	95
COPPER	P		10 U		262		10 U	42
IRON	P		20 U	96200	947		20 U	
LEAD	P		50 U		2070		50 U	478
MAGNESIUM	P	4890 B	10 U	45800		4890 B	10 U	
MANGANESE	P		5 U	53000	247		5 U	27

TABLE D.2.19 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR406030M

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CRDL STAND FINAL
TYPE OF LOCATION		ARCCV1188	ARCCB1038	ARCCV1107	ARCCV1155	ARCCV1189	ARCCB1039	ARLRA1494
SAMPLE NUMBER		WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
NICKEL	P		11 B		243		13 B	77
SELENIUM	P		60 U		1020		60 U	499
SILVER	P		6 U		232		6 U	9.1 B
SODIUM	P	4450 B	200 U	97400		4440 B	200 U	
VANADIUM	P		4 U		255		4 U	90
ZINC	P		7 U		1430		7 U	34
% SOLIDS								

AREA	METHOD	QA	QA
LOCATION		INTER CHK	INTER CHK
TYPE OF LOCATION		SOL. A FINAL	SOL. AB FINA
SAMPLE NUMBER		ARICS1303	ARICS1311
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
ALUMINUM	P	490000	493000
ANTIMONY	P		
ARSENIC	P		
BARIUM	P	10 B	456
BERYLLIUM	P	3.4 B	451
CADMIUM	P	13	850
CALCIUM	P	457000	477000
CHROMIUM	P	9.8 B	441
COBALT	P	3 U	422
COPPER	P	10 U	483
IRON	P	199000	206000
LEAD	P	50 U	4310
MAGNESIUM	P	494000	500000
MANGANESE	P	5 U	432
NICKEL	P	6 U	814
SELENIUM	P		
SILVER	P	6 U	889
SODIUM	P		
VANADIUM	P	4 U	436
ZINC	P	7 U	878
% SOLIDS			

TABLE D.2.20 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR407019D DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		ICP LINEAR	ICP LINEAR	ICP LINEAR	ICP LINEAR	LAB CONTROL	PREP	PREP
TYPE OF LOCATION		RANGES	RANGES	RANGES	RANGES	SAMP-SOLID	BLANK	BLANK
SAMPLE NUMBER		AR0408101	AR0408102	AR0408103	AR0408104	AR0606000	AR0606001	AR0606002
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO								
ALUMINUM	P	100000						
ANTIMONY	P			50000				
ARSENIC	P			50000				
BARIUM	P	10000						
BERYLLIUM	P	5000						
CADMIUM	P		10000					
CALCIUM	P	200000						
CHROMIUM	P		10000					
COBALT	P		10000					
COPPER	P	10000						
IRON	P	100000						
LEAD	P			50000				
MAGNESIUM	P	100000						
MANGANESE	P	10000						
NICKEL	P	10000						
POTASSIUM	P				100000	508 U	508 U	508 U
SELENIUM	P			50000				
SILVER	P			10000				
SODIUM	A							
THALLIUM	P			50000				
VANADIUM	P	10000						
ZINC	P	10000						
% SOLIDS						100		

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL	INITIAL CAL	ICP FIRST	ICP FIRST	CONTINUING	CONTINUING	ICP FINAL
TYPE OF LOCATION		CALIBRATION	BLANK	INT CHECK A	INT CHECK AB	CAL VERIF 1	CAL BLANK 1	INT CHECK A
SAMPLE NUMBER		AR0606142	AR0606142	AR0606142	AR0606142	AR0606144	AR0606144	AR0606152
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								
ALUMINUM	P							
ANTIMONY	P							
ARSENIC	P							
BARIUM	P							
BERYLLIUM	P							

TABLE D.2.20 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR407019D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CALIBRATION	INITIAL CAL BLANK	ICP FIRST INT CHECK A	ICP FIRST INT CHECK AB	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 1	ICP FINAL INT CHECK A
TYPE OF LOCATION								
SAMPLE NUMBER		AR0606142	AR0606142	AR0606142	AR0606142	AR0606144	AR0606144	AR0606152
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								
CADMIUM	P							
CALCIUM	P							
CHROMIUM	P							
COBALT	P							
COPPER	P							
IRON	P							
LEAD	P							
MAGNESIUM	P							
MANGANESE	P							
NICKEL	P							
POTASSIUM	P							
SELENIUM	P	50700	2540 U	2540 U	2540 U	9410	2540 U	2540 U
SILVER	P							
SODIUM	P							
THALLIUM	A							
VANADIUM	P							
ZINC	P							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		ICP FINAL INT CHECK AB	CONTINUING CAL VERIF 2	CONTINUING CAL BLANK 2	SERIAL DILUTION	MATRIX SPIKE	WELL #6 WELL	319 LANDF. WELL
TYPE OF LOCATION								
SAMPLE NUMBER		AR0606152	AR0606152	AR0606152	AR407019D	AR407019D	AR407086D	AR417011D
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO					9	9	9	9
ALUMINUM	P				51500	16100	11500	8480
ANTIMONY	P				970	19 UN	62 N	58 N
ARSENIC	P				745 B	582	44 B	52 B
BARIUM	P				408 B	645	82	46 B
BERYLLIUM	P				5.5 B	15	1.3	1.2 B
CADMIUM	P				14 B	15	2.8 B	2.7 B
CALCIUM	P				184000	24800	70000 *	68400 *
CHROMIUM	P				72	73	18	16
COBALT	P				46 U	134	12 B	12
COPPER	P				148	95	29	34

TABLE D.2.20 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR407019D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		ICP FINAL	CONTINUING	CONTINUING	SERIAL	MATRIX	WELL #6	319 LANDF.
TYPE OF LOCATION		INT CHECK AB	CAL VERIF 2	CAL BLANK 2	DILUTION	SPIKE	WELL	WELL
SAMPLE NUMBER		AR0606152	AR0606152	AR0606152	AR407019D	AR407019D	AR407086D	AR417011D
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO					9	9	9	9
IRON	P				86500	24000	25600	25500
LEAD	P				178 U	148	17 B	21 B
MAGNESIUM	P				106000	14000	36900 *	37600 *
MANGANESE	P				1740	572	1010	704
NICKEL	P				58 B	159	30	34
POTASSIUM	P	2540 U	10000	2540 U	12700 U	1880	1580	2100
SELENIUM	P				368 B	556	12 U	33 B
SILVER	P				31 U	2.6 BN	1.5 UN	1.5 UN
SODIUM	A						823 B	853 B
THALLIUM	P				189 U	473	9.3 U	9.1 U
VANADIUM	P				135 B	152	26	19
ZINC	P				329 E	219	72 E	101 E
% SOLIDS						76.6	81.4	83

AREA	METHOD	QA		QA	QA		QA	QA
LOCATION		SD %	WELL #9	DUPLICATE	DUPLICATE	WELL #9	LAB CONTROL	PREP
TYPE OF LOCATION		DIFFERENCE	WELL		RPD	WELL	SAMP-SOLID	BLANK
SAMPLE NUMBER		AR407019D	AR407019D	AR407019D	AR407019D	AR407155J	AR0607001	AR0607001
MATRIX			SOIL	SOIL		WATER	SOIL	SOIL
UNITS		%	MG/KG	MG/KG	%	UG/L	MG/KG	MG/KG
ENV PROBLEM NO		9	9	9	9	9		
ALUMINUM	P	3.4	13000	13400	3	101 U		
ANTIMONY	P	255	71 N	33 B	74	73 UN		
ARSENIC	P	197	66	25 B	89	62 B		
BARIUM	P	5.2	101	104	2.9	4.9 B		
BERYLLIUM	P	20	1.2 B	1.3 B	8	0.5 U		
CADMIUM	P	56	2.3 B	2.8 B	20	4 B	46	0.56 U
CALCIUM	P	3.9	46500 *	26100 *	56	118 B*		
CHROMIUM	P	1.6	18	20	11	9.6 U	106	1.9 U
COBALT	P	100	8.3 B	9.1 B	9.2	9.1 U	146	1.8 U
COPPER	P	42	27	26	4.1	11 U		
IRON	P	3.6	21800	20900	4.2	105		
LEAD	P	100	26 B	18 B	36	36 U		
MAGNESIUM	P	10	25200 *	14300 *	55	36 B*		
MANGANESE	P	7.4	423	379	11	4.3 B		
NICKEL	P	16	18	22	18	11 U		

TABLE D.2.20 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR407019D

DRAFT DO NOT CITE

AREA	METHOD	QA		QA	QA		QA	QA
LOCATION		SD % DIFFERENCE	WELL #9 WELL	DUPLICATE	DUPLICATE RPD	WELL #9 WELL	LAB CONTROL SAMP-SOLID	PREP BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR407019D	AR407019D	AR407019D	AR407019D	AR407155J	AR0607001	AR0607001
MATRIX			SOIL	SOIL		WATER	SOIL	SOIL
UNITS		%	MG/KG	MG/KG	%	UG/L	MG/KG	MG/KG
ENV PROBLEM NO		9	9	9	9	9		
POTASSIUM	P	100	1190 B	1140 B	4.3	2540 U		
SELENIUM	P	205	32 B	12 U	200	47 U		
SILVER	P		1.6 UN	1.6 U		6.2 UN		
SODIUM	A		815 B	799 B	2	2990 B		
THALLIUM	P		9.9 U	9.9 U		49 B		
VANADIUM	P	7.1	33	30	9.9	17 U		
ZINC	P	11	77 E	80	3.9	16 BE		
% SOLIDS			76.6	76.6			100	

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LAB CONTROL SAMP-SOLID	PREP BLANK	PREP BLANK	PREP BLANK	INITIAL CAL BLANK 1	CRDL STAND INITIAL	ICP FIRST INT CHECK A
TYPE OF LOCATION								
SAMPLE NUMBER		AR0607002	AR0607002	AR0607003	AR0607004	AR0607101	AR0607102	AR0607102
MATRIX		SOIL	SOIL	SOIL	SOIL	WATER	WATER	WATER
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ALUMINUM	P	318						
ANTIMONY	P			20 U	20 U			
ARSENIC	P							
BARIUM	P	6.8 B						
BERYLLIUM	P	22		0.84 U	0.84 U			
CADMIUM	P			0.1 U	-0.12 B			
CALCIUM	P	204000	0.56 U					
CHROMIUM	P			22 B	5.4 B	2.8 U	9.6 B	28
COBALT	P		1.9 U					
COPPER	P		1.8 U			9.6 U	14	45
IRON	P	7480				9.1 U	98	13 B
LEAD	P	21400		3.6 B	2.3 B			
MAGNESIUM	P			13 B	5.5 B			
MANGANESE	P	117000						
NICKEL	P	226		9.9 B	2.1 U			
POTASSIUM	P	60		0.6 B	0.36 U			
SELENIUM	P			2.1 U	2.1 U			
SILVER	P							
SODIUM	A							
THALLIUM	P							

TABLE D.2.20 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR407019D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LAB CONTROL	PREP	PREP	PREP	INITIAL CAL	CRDL STAND	ICP FIRST
TYPE OF LOCATION		SAMP-SOLID	BLANK	BLANK	BLANK	BLANK 1	INITIAL	INT CHECK A
SAMPLE NUMBER		AR0607002	AR0607002	AR0607003	AR0607004	AR0607101	AR0607102	AR0607102
MATRIX		SOIL	SOIL	SOIL	SOIL	WATER	WATER	WATER
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L	UG/L
ENV PROBLEM NO								
VANADIUM	P	75		3.3 U	3.3 U			
ZINC	P	188		1.3 B	1.8 B			
% SOLIDS		100						

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		ICP FIRST	INITIAL	CONTINUING	CONTINUING	CRDL STAND	ICP FINAL	ICP FINAL
TYPE OF LOCATION		INT CHECK AB	CAL 1	CAL VERIF 1	CAL BLANK 1	FINAL	INT CHECK A	INT CHECK AB
SAMPLE NUMBER		AR0607103	AR0607104	AR0607110	AR0607110	AR0607114	AR0607114	AR0607115
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								
ALUMINUM	P							
ANTIMONY	P							
ARSENIC	P							
BARIUM	P							
BERYLLIUM	P							
CADMIUM	P	936	494	394	2.8 U	12 B	33	910
CALCIUM	P							
CHROMIUM	P	512	487	387	9.6 U	20	50	502
COBALT	P	459	481	390	9.1 U	101	16 B	451
COPPER	P							
IRON	P							
LEAD	P							
MAGNESIUM	P							
MANGANESE	P							
NICKEL	P							
POTASSIUM	P							
SELENIUM	P							
SILVER	P							
SODIUM	A							
THALLIUM	P							
VANADIUM	P							
ZINC	P							
% SOLIDS								

TABLE D.2.20 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR407019D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL VERIF 2	CONTINUING CAL BLANK 2	INITIAL CAL 2	INITIAL CAL BLANK 2	CRDL STAND INITIAL	ICP FIRST INT CHECK A	ICP FIRST INT CHECK AB
TYPE OF LOCATION								
SAMPLE NUMBER		AR0607115	AR0607120	AR0607131	AR0607131	AR0607132	AR0607132	AR0607133
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								
ALUMINUM	P			1940	101 U		527000	517000
ANTIMONY	P							
ARSENIC	P							
BARIUM	P			2010	4.2 U		44 B	506
BERYLLIUM	P			473	0.5 U	10	4.4 B	458
CADMIUM	P	383	2.8 U					
CALCIUM	P			49200	13 U		524000	516000
CHROMIUM	P	379	9.6 U					
COBALT	P	387	9.1 U					
COPPER	P			532	11 U	46	14 B	523
IRON	P			2020	7.1 U		240000	236000
LEAD	P							
MAGNESIUM	P			24400	10 U		527000	518000
MANGANESE	P			517	1.8 U	29	48	522
NICKEL	P			466	11 U	78	11 U	876
POTASSIUM	P							
SELENIUM	P							
SILVER	P							
SODIUM	A							
THALLIUM	P							
VANADIUM	P							
ZINC	P			498	17 U	100	17 U	471
% SOLIDS				3000	2.6 U	42	55	985

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 2	CONTINUING CAL BLANK 2	INT ELEMENT CORR FAC MG	INT ELEMENT CORR FAC CA	CRDL STAND FINAL
TYPE OF LOCATION								
SAMPLE NUMBER		AR0607140	AR0607140	AR0607150	AR0607150	AR0607152	AR0607153	AR0607153
MATRIX		WATER	WATER	WATER	WATER			WATER
UNITS		UG/L	UG/L	UG/L	UG/L	CORRFACT	CORRFACT	UG/L
ENV PROBLEM NO								
ALUMINUM	P	1970	101 U	1920	101 U	46	45	
ANTIMONY	P							
ARSENIC	P							
BARIUM	P	421	4.2 U	417	4.2 U			
BERYLLIUM	P	398	0.5 U	392	0.5 U			9.6

TABLE D.2.20 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR407019D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	INT ELEMENT	INT ELEMENT	CRDL STAND
TYPE OF LOCATION		CAL VERIF 1	CAL BLANK 1	CAL VERIF 2	CAL BLANK 2	CORR FAC MG	CORR FAC CA	FINAL
SAMPLE NUMBER		AR0607140	AR0607140	AR0607150	AR0607150	AR0607152	AR0607153	AR0607153
MATRIX		WATER	WATER	WATER	WATER			WATER
UNITS		UG/L	UG/L	UG/L	UG/L	CORRFACT	CORRFACT	UG/L
ENV PROBLEM NO								
CADMIUM	P							
CALCIUM	P	8230	13 U	8140	13 U			
CHROMIUM	P							
COBALT	P							
COPPER	P	408	11 U	434	11 U			50
IRON	P	4110	14 B	4070	7.1 U			
LEAD	P							
MAGNESIUM	P	8090	10 U	7990	10 U			
MANGANESE	P	416	1.8 U	412	2.2 B			31
NICKEL	P	408	11 U	406	11 U			88
POTASSIUM	P							
SELENIUM	P							
SILVER	P							
SODIUM	A							
THALLIUM	P							
VANADIUM	P	406	17 U	403	17 U			98
ZINC	P	420	2.6 U	416	2.6 U			44
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		ICP FINAL	ICP FINAL	CONTINUING	CONTINUING	LAB CONTROL	MS %	INT ELEMENT
TYPE OF LOCATION		INT CHECK A	INT CHECK AB	CAL VERIF 3	CAL BLANK 3	SAMP-SOLID	RECOVERY	CORR FAC CA
SAMPLE NUMBER		AR0607153	AR0607154	AR0607155	AR0607160	AR0614000	AR407019D	AR0614001
MATRIX		WATER	WATER	WATER	WATER	SOIL		
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	%	CORRFACT
ENV PROBLEM NO							9	
ALUMINUM	P	530000	520000	1980	101 U			
ANTIMONY	P					220	-40	
ARSENIC	P					1030	99	
BARIUM	P	44 B	500	404	4.2 U		104	
BERYLLIUM	P	4.4 B	460	391	-0.8 B		102	
CADMIUM	P						100	
CALCIUM	P	517000	510000	7980	-35 B			
CHROMIUM	P						104	
COBALT	P						96	
COPPER	P	11 U	508	395	11 U		103	

TABLE D.2.20 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR407019D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		ICP FINAL	ICP FINAL	CONTINUING	CONTINUING	LAB CONTROL	MS %	INT ELEMENT
TYPE OF LOCATION		INT CHECK A	INT CHECK AB	CAL VERIF 3	CAL BLANK 3	SAMP-SOLID	RECOVERY	CORR FAC CA
SAMPLE NUMBER		AR0607153	AR0607154	AR0607155	AR0607160	AR0614000	AR407019D	AR0614001
MATRIX		WATER	WATER	WATER	WATER	SOIL		
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	%	CORRFACT
ENV PROBLEM NO							9	
IRON	P	240000	236000	4060	-10 B			
LEAD	P					234	93	
MAGNESIUM	P	526000	518000	7970	-13 B			
MANGANESE	P	48	520	409	1.8 U		114	
NICKEL	P	11 U	876	395	11 U		108	
POTASSIUM	P							
SELENIUM	P					42 B	100	
SILVER	P					16	20	19
SODIUM	A							
THALLIUM	P					89 B	91	
VANADIUM	P	17 U	462	389	17 U		91	
ZINC	P	57	986	405	2.6 U		109	
% SOLIDS						100		

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		PREP	INT ELEMENT	PREP	INITIAL	INITIAL CAL	CRDL STAND	ICP FIRST
TYPE OF LOCATION		BLANK	CORR FAC AL	BLANK	CALIBRATION	BLANK	INITIAL	INT CHECK A
SAMPLE NUMBER		AR0614001	AR0614002	AR0614002	AR0614151	AR0614151	AR0614152	AR0614152
MATRIX		SOIL		SOIL	WATER	WATER	WATER	WATER
UNITS		MG/KG	CORRFACT	MG/KG	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ALUMINUM	P							
ANTIMONY	P	23 B	50	15 U	1580	138 B	429	74 B
ARSENIC	P	4.6 U	493	16 B	2700	23 B	600	63 B
BARIUM	P							
BERYLLIUM	P							
CADMIUM	P							
CALCIUM	P							
CHROMIUM	P							
COBALT	P							
COPPER	P							
IRON	P							
LEAD	P	7.1 U		7.1 U	4340	36 U	506	36 U
MAGNESIUM	P							
MANGANESE	P							
NICKEL	P							

TABLE D.2.20 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR407019D DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		PREP BLANK	INT ELEMENT CORR FAC AL	PREP BLANK	INITIAL CALIBRATION	INITIAL CAL BLANK	CRDL STAND INITIAL	ICP FIRST INT CHECK A
TYPE OF LOCATION								
SAMPLE NUMBER		AR0614001	AR0614002	AR0614002	AR0614151	AR0614151	AR0614152	AR0614152
MATRIX		SOIL		SOIL	WATER	WATER	WATER	WATER
UNITS		MG/KG	CORRFACT	MG/KG	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
POTASSIUM	P							
SELENIUM	P	9.4 U		-19 B	4120	47 U	870	193 B
SILVER	P	1.2 U		1.2 U	496	6.2 U	54	6.2 U
SODIUM	A							
THALLIUM	P	7.6 U		15 B	1980	38 U	470 B	154 B
VANADIUM	P							
ZINC	P							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		ICP FIRST INT CHECK AB	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 2	CONTINUING CAL BLANK 2	CRDL STAND FINAL	ICP FINAL INT CHECK A
TYPE OF LOCATION								
SAMPLE NUMBER		AR0614153	AR0614155	AR0614155	AR0614164	AR0614165	AR0614171	AR0614172
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								
ALUMINUM	P							
ANTIMONY	P	1680	2000	73 U	2010	73 U	430	152
ARSENIC	P	2630	2040	44 B	2050	35 B	555	23 U
BARIUM	P							
BERYLLIUM	P							
CADMIUM	P							
CALCIUM	P							
CHROMIUM	P							
COBALT	P							
COPPER	P							
IRON	P							
LEAD	P	4880	2020	36 U	1960	36 U	467	36 U
MAGNESIUM	P							
MANGANESE	P							
NICKEL	P							
POTASSIUM	P							
SELENIUM	P	4260	1970	-95 B	1940	-64 B	769	346 B
SILVER	P	909	399	-29 B	389	6.2 U	47	6.2 U
SODIUM	A							
THALLIUM	P	3090	2010	123 B	2040	38 U	450 B	220 B

TABLE D.2.20 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR407019D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		ICP FIRST	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CRDL STAND	ICP FINAL
TYPE OF LOCATION		INT CHECK AB	CAL VERIF 1	CAL BLANK 1	CAL VERIF 2	CAL BLANK 2	FINAL	INT CHECK A
SAMPLE NUMBER		AR0614153	AR0614155	AR0614155	AR0614164	AR0614165	AR0614171	AR0614172
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								
VANADIUM	P							
ZINC	P							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		ICP FINAL	CONTINUING	CONTINUING	LAB CONTROL	PREP	PREP	INITIAL CAL
TYPE OF LOCATION		INT CHECK AB	CAL VERIF 3	CAL BLANK 3	SAMP-SOLID	BLANK 1	BLANK 2	BLANK
SAMPLE NUMBER		AR0614172	AR0614173	AR0614173	AR0207000	AR0207001	AR0207002	AR0207141
MATRIX		WATER	WATER	WATER	SOIL	SOIL	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG	UG/L
ENV PROBLEM NO								
ALUMINUM	P							
ANTIMONY	P	1500	1880	73 U				
ARSENIC	P	2480	2040	30 B				
BARIUM	P							
BERYLLIUM	P							
CADMIUM	P							
CALCIUM	P							
CHROMIUM	P							
COBALT	P							
COPPER	P							
IRON	P							
LEAD	P	4640	1990	36 U				
MAGNESIUM	P							
MANGANESE	P							
NICKEL	P							
POTASSIUM	P							
SELENIUM	P	4100	2110	47 U				
SILVER	P	872	402	-9.6 B				
SODIUM	A				810 B	680 B	636 B	1760 B
THALLIUM	P	3050	2050	38 U				
VANADIUM	P							
ZINC	P							
% SOLIDS					100			

TABLE D.2.20 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR407019D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA
LOCATION		INITIAL CALIBRATION	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 1
TYPE OF LOCATION		AR0207141	AR0207142	AR0207142
SAMPLE NUMBER		WATER	WATER	WATER
MATRIX		UG/L	UG/L	UG/L
UNITS				
ENV PROBLEM NO				
ALUMINUM	P			
ANTIMONY	P			
ARSENIC	P			
BARIUM	P			
BERYLLIUM	P			
CADMIUM	P			
CALCIUM	P			
CHROMIUM	P			
COBALT	P			
COPPER	P			
IRON	P			
LEAD	P			
MAGNESIUM	P			
MANGANESE	P			
NICKEL	P			
POTASSIUM	P			
SELENIUM	P			
SILVER	P			
SODIUM	P			
THALLIUM	A	51800	32000	3590 B
VANADIUM	P			
ZINC	P			
% SOLIDS				

TABLE D.2.21 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR415019F

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	PREP	LAB CONTROL	LAB CONTROL	SITE A
TYPE OF LOCATION		TRUE A	FOUND A	BLANK 1	BLANK	SAMPLE TRUE	SAMPLE	SITE A
SAMPLE NUMBER		AR2AA1008	AR2AA2008	AR03A0008	AR03A0008	AR0700108	AR0700108	AR815137F
MATRIX				WATER	WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								25
ANTIMONY	F	102	96	3.3 U	3.3 U	102	93	3.3 U
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		DUPLICATE	CONTINUING	CONTINUING	MATRIX	MS %	PLOT M	PLOT M
TYPE OF LOCATION			CAL FOUND	CAL BLANK	SPIKE	RECOVERY	WELL	WELL
SAMPLE NUMBER		AR815137F	AR2AA4008	AR03A1008	AR815137F	AR815137F	AR415020F	AR415019F
MATRIX		WATER		WATER	WATER		WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	%	UG/L	UG/L
ENV PROBLEM NO		25			25	25	9	9
ANTIMONY	F	3.3 U	101	3.3 U	103	103	3.3 U	3.3 U
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION		CAL FOUND	CAL BLANK	CAL FOUND	CAL BLANK	FOUND A	BLANK 2	TRUE
SAMPLE NUMBER		AR2AA5008	AR03A2008	AR2AB4008	AR03A3008	AR2AC2001	AR03B0001	AR2B20001
MATRIX			WATER		WATER		WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ANTIMONY	F	98	3.3 U	104	3.3 U	98	3.3 U	60
% SOLIDS								

TABLE D.2.21 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR415019F DRAFT DO NOT CITE

AREA	METHOD	QA					QA	QA
LOCATION		CRDL STAND	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING
TYPE OF LOCATION		FINAL	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR2B20001	AR500273F	AR500046F	AR500502F	AR500568F	AR2AC4001	AR03B4001
MATRIX			WATER	WATER	WATER	WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO			10	10	10	10		
ANTIMONY	F	60	4 B	4.8 B	4.3 B	5 B	99	3.3 U
% SOLIDS								

AREA	METHOD					QA	QA	
LOCATION		RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING	RET. TANKS
TYPE OF LOCATION		WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	CAL FOUND	CAL BLANK	WASTEWATER
SAMPLE NUMBER		AR500579F	AR500477F	AR500488F	AR500580F	AR2AC5001	AR03B5001	AR500557F
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		10	10	10	10			10
ANTIMONY	F	11 B	3.3 U	4.8 B	3.3 U	104	3.3 U	8.2 B
% SOLIDS								

AREA	METHOD	QA	QA					
LOCATION		CONTINUING	CONTINUING					
TYPE OF LOCATION		CAL FOUND	CAL BLANK					
SAMPLE NUMBER		AR2AD4001	AR03B6001					
MATRIX			WATER					
UNITS		UG/L	UG/L					
ENV PROBLEM NO								
ANTIMONY	F	100	3.3 U					
% SOLIDS								

TABLE D.2.22 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500046F DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	CONTINUING	CONTINUING	LAB CONTROL	LAB CONTROL
TYPE OF LOCATION		BLANK 1	TRUE A	FOUND A	CAL BLANK	CAL FOUND	SAMPLE TRUE	SAMPLE
SAMPLE NUMBER		AR03A0009	AR2AA1009	AR2AA2009	AR03A1009	AR2AA4009	AR0700109	AR0700109
MATRIX		WATER			WATER		WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
MERCURY	CV	0.01 U	10	9.7	0.01 U	10	873	920
% SOLIDS								

AREA	METHOD			QA	QA			
LOCATION		RET. TANKS	RET. TANKS	CONTINUING	CONTINUING	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION		WASTEWATER	WASTEWATER	CAL BLANK	CAL FOUND	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER		AR500046F	AR500273F	AR03A2009	AR2AA5009	AR500477F	AR500488F	AR500502F
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		10	10			10	10	10
MERCURY	CV	34	36	0.01 U	10	0.46	11	34
% SOLIDS								

AREA	METHOD	QA	QA				QA	QA
LOCATION		CONTINUING	CONTINUING	RET. TANKS	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK	CAL FOUND	WASTEWATER	WASTEWATER	WASTEWATER	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR03A3009	AR2AB4009	AR500557F	AR500568F	AR500579F	AR03B4008	AR2AB5009
MATRIX		WATER		WATER	WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO				10	10	10		
MERCURY	CV	0.01 U	10	0.28	1.1	63	0.01 U	10
% SOLIDS								

TABLE D.2.22 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500046F

DRAFT DO NOT CITE

AREA	METHOD		QA	QA	QA		QA	QA
LOCATION		RET. TANKS	DUPLICATE	MATRIX	MS %	SITE A	PREP	CONTINUING
TYPE OF LOCATION		WASTEWATER		SPIKE	RECOVERY	SITE A	BLANK	CAL BLANK
SAMPLE NUMBER		AR500580F	AR500580F	AR500580F	AR500580F	AR815137F	AR03A0009	AR03C7008
MATRIX		WATER	WATER	WATER		WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO		10	10	10	10	25		
MERCURY	CV	0.15 B	0.14 B	1.3	99	0.02 B	0.03 B	0.01 U
% SOLIDS								

AREA	METHOD		QA
LOCATION			CONTINUING
TYPE OF LOCATION			CAL FOUND
SAMPLE NUMBER			AR2AC4008
MATRIX			
UNITS			UG/L
ENV PROBLEM NO			
MERCURY	CV		10
% SOLIDS			

TABLE D.2.23 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500046G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INTER CHK	INTER CHK	INITIAL CAL	INITIAL CAL	INITIAL CAL	LAB CONTROL	CRDL STAND
TYPE OF LOCATION		SOL. A TRUE	SOL. AB TRUE	TRUE A	TRUE B	TRUE C	SAMPLE TRUE	TRUE
SAMPLE NUMBER		ARICS1336	ARICS1344	ARICV1372	ARICV1392	ARICV1408	ARLCS1483	ARLRA1511
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								
ALUMINUM	P	502000	508000	100000	990		970	
ANTIMONY	P				1000		990	120
ARSENIC	P				1000		1000	500
BARIUM	P		483		990		970	
BERYLLIUM	P		474		241		960	10
CADMIUM	P		909		244		940	10
CALCIUM	P	506000	516000		24900	5000	1000 B	
CHROMIUM	P		513		253		1030	20
COBALT	P		478		237		1000	100
COPPER	P		534		277		1030	50
IRON	P	196000	203000	100000	995		1020	
LEAD	P		4850		2260		1010	500
MAGNESIUM	P	498000	509000	50000		5000	1000 B	
MANGANESE	P		531	50000	257		1020	30
NICKEL	P		916		248		1020	80
SELENIUM	P				1000		990	500
SILVER	P		993		255		990	20
SODIUM	P			100000		5000	860 B	
VANADIUM	P		475		255		1010	100
ZINC	P		973		1550		1010	40
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND A	FOUND B	FOUND C	BLANK	INITIAL
SAMPLE NUMBER		ARRAN1563	ARRAN1571	ARICV1356	ARICV1384	ARICV1400	ARICB1289	ARLRA1503
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								
ALUMINUM	P	7500	800000	99700	1010		60 U	
ANTIMONY	P	10000			934		50 U	120
ARSENIC	P	20000			1020		60 U	500
BARIUM	P	5000			968		2 U	
BERYLLIUM	P	1500			244		0.3 U	9.9
CADMIUM	P	5000			250		2 U	10
CALCIUM	P	10000	900000		26100	4880 B	200 U	

TABLE D.2.23 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500046G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND A	FOUND B	FOUND C	BLANK	INITIAL
SAMPLE NUMBER		ARRAN1563	ARRAN1571	ARICV1356	ARICV1384	ARICV1400	ARICB1289	ARLRA1503
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								
CHROMIUM	P	10000			243		6 U	20
COBALT	P	10000			241		3 U	100
COPPER	P	10000			263		10 U	50
IRON	P	12000	800000	101000	989		20 U	
LEAD	P	50000			2090		50 U	501
MAGNESIUM	P	12000	500000	50900		4910 B	10 U	
MANGANESE	P	2500	200000	50000	257		5 U	35
NICKEL	P	15000			243		6 U	81
SELENIUM	P	10000			1080		60 U	521
SILVER	P	10000			244		6 U	21
SODIUM	P	10000	500000	108000		4830 B	200 U	
VANADIUM	P	10000			263		4 U	99
ZINC	P	6000			1500		3 U	35
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	CONTINUING	CONTINUING
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	CAL FOUND	CAL FOUND
SAMPLE NUMBER		ARICS1320	ARICS1328	ARPB01541	ARPB01542	ARLCS1465	ARCCV1108	ARCCV1156
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								
ALUMINUM	P	485000	494000	60 U	60 U	1090	100000	1010
ANTIMONY	P	50 U	50 U	50 U	50 U	910		957
ARSENIC	P	60 U	60 U	60 U	60 U	988		1040
BARIUM	P	16 B	448	2 U	2.6 B	989		972
BERYLLIUM	P	3.6 B	436	0.3 U	0.3 U	948		248
CADMIUM	P	22	880	2 U	2 U	906		250
CALCIUM	P	503000	513000	200 U	200 U	1010 B		26800
CHROMIUM	P	19	437	6 U	6 U	937		246
COBALT	P	28 B	443	3 U	3 U	953		243
COPPER	P	11 B	510	10 U	10 U	965		263
IRON	P	182000	184000	20 U	20 U	999	102000	995
LEAD	P	50 U	4240	50 U	50 U	961		2130
MAGNESIUM	P	491000	498000	10 U	10 U	967 B	51000	
MANGANESE	P	39	488	5 U	5 U	1000	50000	259

TABLE D.2.23 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500046G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	CONTINUING	CONTINUING
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	CAL FOUND	CAL FOUND
SAMPLE NUMBER		ARICS1320	ARICS1328	ARPB01541	ARPB01542	ARLCS1465	ARCCV1108	ARCCV1156
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								
NICKEL	P	21 B	819	6 U	6 U	967		241
SELENIUM	P	60 U	60 U	60 U	60 U	1040		1060
SILVER	P	18	899	6 U	6.3 B	926		249
SODIUM	P	1560 B	1570 B	200 U	200 U	939 B	108000	
VANADIUM	P	4 U	442	4 U	4 U	967		266
ZINC	P	7.6 B	918	3.6 B	6 B	990		1510
% SOLIDS								

AREA	METHOD	QA	QA					
LOCATION		CONTINUING	CONTINUING	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION		CAL FOUND	CAL BLANK	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER		ARCCV1190	ARCCB1040	AR500568G	AR500579G	AR500273G	AR500502G	AR500046G
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				10	10	10	10	10
ALUMINUM	P		60 U	405	4990	275	246	326
ANTIMONY	P		50 U	50 U	50 U	50 U	50 U	50 U
ARSENIC	P		60 U	60 UN	60 UN	60 UN	60 UN	60 UN
BARIUM	P		2 U	11 BE	39 BE	25 BE	26 BE	35 BE
BERYLLIUM	P		0.3 U	1.8 B	2.8 B	1.1 B	1.4 B	1.4 B
CADMIUM	P		2 U	5.3	23	5.8	7.2	9.5
CALCIUM	P	4800 B	200 U	52500 E	35600 E	20700 E	21400 E	21500 E
CHROMIUM	P		6 U	3280	8520	22	24	35
COBALT	P		3 U	3 U	16 B	8.7 B	11 B	11 B
COPPER	P		10 U	890	11800	527	513	738
IRON	P		20 U	1120	9960	2690	2330	4680
LEAD	P		50 U	170 B	2390	78 B	91 B	139 B
MAGNESIUM	P	5060	10 U	22900 E	16300 E	10500 E	10900 E	10900 E
MANGANESE	P		5 U	81	292	47	61	62
NICKEL	P		6 U	121	812	28 B	28 B	31 B
SELENIUM	P		60 U	60 U	119 B	60 U	60 U	60 U
SILVER	P		6.3 B	9.2 B	23	147	147	222
SODIUM	P	4740 B	200 U	874000 E	1310000 E	270000 E	278000 E	274000 E
VANADIUM	P		4 U	12 B	16 B	7.9 B	7.5 B	7.7 B
ZINC	P		3 U	2270	26800	1770	2080	2880
% SOLIDS								

TABLE D.2.23 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500046G

DRAFT DO NOT CITE

AREA	METHOD					QA	QA	QA
LOCATION		RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	SERIAL	SD %	DUPLICATE
TYPE OF LOCATION		WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	DILUTION	DIFFERENCE	
SAMPLE NUMBER		AR500477G	AR500488G	AR500557G	AR500580G	AR500580G	AR500580G	AR500580G
MATRIX		WATER	WATER	WATER	WATER	WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	%	UG/L
ENV PROBLEM NO		10	10	10	10	10	10	10
ALUMINUM	P	156 B	413	171 B	104 B	300 U		100 B
ANTIMONY	P	50 U	50 U	50 U	50 U	250 U		50 U
ARSENIC	P	60 UN	60 UN	60 UN	60 UN	300 U		60 U
BARIUM	P	58 BE	32 BE	103 BE	157 BE	120 B	24	146 B
BERYLLIUM	P	1.2 B	1.4 B	1.5 B	3 B	4.5 B		2.9 B
CADMIUM	P	2 U	11	8.3	2 U	10 U		2 U
CALCIUM	P	23600 E	22000 E	24700 E	331000 E	232000	30	305000
CHROMIUM	P	26	34	23	6 U	30		7.4 B
COBALT	P	3 U	16 B	3.3 B	3 U	15 U		3 U
COPPER	P	92	646	299	27	50 U		29
IRON	P	1860	5630	2930	382	298		361
LEAD	P	53 B	145 B	101 B	50 U	250 U		50 U
MAGNESIUM	P	11500 E	11900 E	11400 E	134000 E	96400	28	123000
MANGANESE	P	25	122	54	31	25		29
NICKEL	P	48	45	73	11 B	41		9.8 B
SELENIUM	P	60 U	60 U	60 U	60 U	300 U		60 U
SILVER	P	14	313	110	16	39		14
SODIUM	P	276000 E	376000 E	304000 E	522000 E	451000	14	556000
VANADIUM	P	6.9 B	8.5 B	7.5 B	4 U	53		4 U
ZINC	P	199	2450	827	30	35		35
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		DUPLICATE	MATRIX	MS %	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		RPD	SPIKE	RECOVERY	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR500580G	AR500580G	AR500580G	ARCCV1109	ARCCV1157	ARCCV1191	ARCCB1041
MATRIX			WATER		WATER	WATER	WATER	WATER
UNITS		%	UG/L	%	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		10	10	10				
ALUMINUM	P		2210	105	105000	1070		60 U
ANTIMONY	P		467	93		966		50 U
ARSENIC	P		139 B	139		1050		60 U
BARIUM	P		2070	96		965		2 U
BERYLLIUM	P		55	104		258		0.3 U
CADMIUM	P		47	92		245		2 U
CALCIUM	P	8.2	324000			27400	4700 B	200 U

TABLE D.2.23 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500046G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		DUPLICATE	MATRIX	MS %	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		RPD	SPIKE	RECOVERY	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR500580G	AR500580G	AR500580G	ARCCV1109	ARCCV1157	ARCCV1191	ARCCB1041
MATRIX			WATER		WATER	WATER	WATER	WATER
UNITS		%	UG/L	%	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		10	10	10				
CHROMIUM	P		212	106		255		6 U
COBALT	P		481	96		252		3 U
COPPER	P	2	279	101		273		10 U
IRON	P	21	1400	102	105000	1040		20 U
LEAD	P		509	102		2240		50 U
MAGNESIUM	P	8.6	131000		53400		5690	10 U
MANGANESE	P	3	226	98	48200	272		5 U
NICKEL	P		369	90		236		6 U
SELENIUM	P		532	106		1060		60 U
SILVER	P	2	67	102		270		6 U
SODIUM	P	6.3			119000		4820 B	200 U
VANADIUM	P		548	110		285		4 U
ZINC	P	5	236	103		1600		3.1 B
% SOLIDS								

AREA	METHOD	QA	QA	QA		QA	QA	QA
LOCATION		PREP	PREP	LAB CONTROL	SITE A	SERIAL	SD %	DUPLICATE
TYPE OF LOCATION		BLANK	BLANK	SAMPLE	SITE A	DILUTION	DIFFERENCE	
SAMPLE NUMBER		ARPB01543	ARPB01544	ARLCS1466	AR815137G	AR815137G	AR815137G	AR815137G
MATRIX		WATER	WATER	WATER	WATER	WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	%	UG/L
ENV PROBLEM NO					25	25	25	25
ALUMINUM	P	60 U	60 U	1170	1820	1770		1820
ANTIMONY	P	50 U	50 U	947	50 U	250 U		50 U
ARSENIC	P	60 U	60 U	1050	60 UN	300 U		60 U
BARIUM	P	2 U	3 B	1030	16 BE	18 B		21 B
BERYLLIUM	P	0.3 U	0.3 U	1030	0.3 U	1.5 U		0.3 U
CADMIUM	P	2 U	2 U	923	2 U	10 U		2 U
CALCIUM	P	200 U	200 U	1010 B	313 BE	1000 U		316 B
CHROMIUM	P	6 U	10	1010	60	58		60
COBALT	P	3 U	3 U	1020	3 U	15 U		3 U
COPPER	P	10 U	10 U	1040	10 U	50 U		10 U
IRON	P	825	20 U	1050	1530	1550	1.3	1520
LEAD	P	50 U	50 U	1060	50 U	250 U		50 U
MAGNESIUM	P	10 U	10 U	1110 B	237 BE	230 B		231 B
MANGANESE	P	5 U	5 U	1070	47	47		46

TABLE D.2.23 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500046G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA		QA	QA	QA
LOCATION		PREP BLANK	PREP BLANK	LAB CONTROL SAMPLE	SITE A	SERIAL DILUTION	SD % DIFFERENCE	DUPLICATE
TYPE OF LOCATION					SITE A			
SAMPLE NUMBER		ARPB01543	ARPB01544	ARLCS1466	AR815137G	AR815137G	AR815137G	AR815137G
MATRIX		WATER	WATER	WATER	WATER	WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	%	UG/L
ENV PROBLEM NO					25	25	25	25
NICKEL	P	6 U	6 U	984	20 B	30 U		23 B
SELENIUM	P	60 U	60 U	1120	60 U	300 U		60 U
SILVER	P	6 U	6 U	1060	6 U	30 U		6 U
SODIUM	P	200 U	200 U	877 B	200 UE	1000 U		200 U
VANADIUM	P	4 U	4 U	1080	4 U	20 U		4 U
ZINC	P	18 B	22	1080	90	92		88
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		DUPLICATE RPD	MATRIX SPIKE	MS % RECOVERY	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR815137G	AR815137G	AR815137G	ARCCV1110	ARCCV1158	ARCCV1192	ARCCB1042
MATRIX			WATER		WATER	WATER	WATER	WATER
UNITS		%	UG/L	%	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		25	25	25				
ALUMINUM	P	0	3730	96	105000	1050		60 U
ANTIMONY	P		492	98		968		50 U
ARSENIC	P		131 B	131		1040		60 U
BARIUM	P		2070	103		966		2 U
BERYLLIUM	P		55	110		257		0.3 U
CADMIUM	P		53	106		246		2 U
CALCIUM	P		305 B			27300	4690 B	200 U
CHROMIUM	P	1.7	282	112		254		6 U
COBALT	P		527	105		252		3 U
COPPER	P		277	111		272		10 U
IRON	P	0.66	2510	98	105000	1030		20 U
LEAD	P		560	112		2230		50 U
MAGNESIUM	P		202 B		53400		5540	10 U
MANGANESE	P	1	262	108	49300	266		5 U
NICKEL	P		444	106		235		6 U
SELENIUM	P		555	111		1050		60 U
SILVER	P		60	118		268		6 U
SODIUM	P		200 U		118000		4700 B	200 U
VANADIUM	P		566	113		284		4 U
ZINC	P	2	294	102		1590		3 U
% SOLIDS								

TABLE D.2.23 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500046G

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CRDL STAND	INTER CHK	INTER CHK
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	FINAL	SOL. A FINAL	SOL. AB FINA
SAMPLE NUMBER		ARCCV1111	ARCCV1159	ARCCV1193	ARCCB1043	ARLRA1495	ARICS1304	ARICS1312
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								
ALUMINUM	P	106000	1060		60 U		509000	515000
ANTIMONY	P		958		50 U	125	50 U	50 U
ARSENIC	P		1030		60 U	505	60 U	60 U
BARIUM	P		949		2 U		15 B	438
BERYLLIUM	P		255		0.3 U	10	3.6 B	457
CADMIUM	P		239		2 U	9.7	21	839
CALCIUM	P		27200	4630 B	200 U		522000	528000
CHROMIUM	P		253		6 U	21	20	453
COBALT	P		250		3 U	104	28 B	458
COPPER	P		272		10 U	55	11 B	530
IRON	P	104000	1030		20 U		187000	189000
LEAD	P		2230		50 U	543	50 U	4490
MAGNESIUM	P	53600		5600	10 U		512000	517000
MANGANESE	P	47400	264		5 U	31	39	494
NICKEL	P		230		6 U	81	19 B	781
SELENIUM	P		1060		60 U	514	60 U	60 U
SILVER	P		270		6 U	20	16	1020
SODIUM	P	120000		4640 B	200 U		1470 B	1500 B
VANADIUM	P		285		4 U	111	4 U	479
ZINC	P		1590		3 U	40	9 B	980
% SOLIDS								

TABLE D.2.24 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500240F DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	PREP	LAB CONTROL
TYPE OF LOCATION		TRUE A	FOUND A	BLANK 1	TRUE	FINAL	BLANK	SAMPLE TRUE
SAMPLE NUMBER		AR2AA1010	AR2AA2010	AR03A0010	AR2B10005	AR2B10005	AR03A0010	AR0700110
MATRIX				WATER			WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ANTIMONY	F	102	102	3.3 U	60	65	3.3 U	102
% SOLIDS								

AREA	METHOD	QA			QA	QA		
LOCATION		LAB CONTROL	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING	RET. TANKS	RET. TANKS
TYPE OF LOCATION		SAMPLE	WASTEWATER	WASTEWATER	CAL FOUND	CAL BLANK	WASTEWATER	WASTEWATER
SAMPLE NUMBER		AR0700110	AR500240F	AR500320F	AR2AA4010	AR03A1010	AR500546F	AR500353F
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			10	10			10	10
ANTIMONY	F	111	3.3 U	16 B	104	3.3 U	8.3 B	3.3 U
% SOLIDS								

AREA	METHOD				QA	QA	QA	QA
LOCATION		RET. TANKS	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING	DUPLICATE	MATRIX
TYPE OF LOCATION		WASTEWATER	WASTEWATER	WASTEWATER	CAL FOUND	CAL BLANK		SPIKE
SAMPLE NUMBER		AR500524F	AR500251F	AR500706A	AR2AA5010	AR03A2010	AR500706A	AR500706A
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		10	10	10			10	10
ANTIMONY	F	3.3 U	6.7 B	3.3 U	112	3.3 U	3.3 U	106
% SOLIDS								

TABLE D.2.24 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500240F

DRAFT DO NOT CITE

AREA	M	QA			QA	QA		
LOCATION	E	MS %	319 LDF-NW	UNDWRTRS P	CONTINUING	CONTINUING		
TYPE OF LOCATION	T	RECOVERY	BACKGROUND	POND	CAL FOUND	CAL BLANK		
SAMPLE NUMBER	H	AR500706A	AR802109H	AR809048A	AR2AB4010	AR03A3010		
MATRIX	O		WATER	WATER		WATER		
UNITS	D	%	UG/L	UG/L	UG/L	UG/L		
ENV PROBLEM NO		10	17	22				
ANTIMONY	F	106	3.3 U	3.3 U	111	3.3 U		
% SOLIDS								

TABLE D.2.25 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500353F

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	PREP	CRDL STAND	CRDL STAND	CONTINUING
TYPE OF LOCATION		TRUE A	FOUND A	BLANK 1	BLANK	TRUE	FINAL	CAL FOUND
SAMPLE NUMBER		AR2AA1011	AR2AA2011	AR03A0011	AR03A0011	AR2B10006	AR2B10006	AR2AA4011
MATRIX				WATER	WATER			
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F	27	27	0.66 U	0.66 U	10	9.9	27
CADMIUM	F	9.1	9.5	0.07 U	0.09 B	5	5.1	9.1
LEAD	F	43	44	0.7 U	0.7 U	5	5.3	44
SELENIUM	F	11	11	1.3 U	1.3 U	5	5.6	11
SILVER	F	15	14	0.14 U	0.14 U	10	10	15
THALLIUM	F	25	26	0.8 U	0.8 U	10	9.7	
% SOLIDS								

AREA	METHOD	QA	QA	QA		QA	QA	QA
LOCATION		CONTINUING	LAB CONTROL	LAB CONTROL	RET. TANKS	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK	SAMPLE TRUE	SAMPLE	WASTEWATER	CAL FOUND	CAL BLANK	CAL BLANK
SAMPLE NUMBER		AR03A1011	AR0700111	AR0700111	AR500240F	AR2AA5011	AR03A2011	AR03A3011
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					10			
ARSENIC	F	0.66 U	100	103	0.9 B	26	0.66 U	0.66 U
CADMIUM	F	0.07 U	25	28	1 B	8.9	0.07 U	
LEAD	F	0.7 U	100	102	26	46	0.7 U	0.7 U
SELENIUM	F	1.3 U	25	24	1.3 U	11	1.3 U	1.3 U
SILVER	F	0.14 U	2.5	2.3	4.2 B	16	0.14 U	0.14 U
THALLIUM	F	0.8 U	50	48	0.8 U	27	0.8 U	
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	
LOCATION		INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	CONTINUING	CONTINUING	RET. TANKS
TYPE OF LOCATION		FOUND A	BLANK 2	TRUE	FINAL	CAL FOUND	CAL BLANK	WASTEWATER
SAMPLE NUMBER		AR2AB2011	AR03B0009	AR2B20005	AR2B20005	AR2AB4011	AR03B4009	AR500320F
MATRIX			WATER				WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								10
ARSENIC	F		0.66 U	10	9.7	26	0.66 U	1 B
CADMIUM	F	9.8	0.07 U	5	5	9.6	0.07 U	45

TABLE D.2.25 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500353F DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	
LOCATION		INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	CONTINUING	CONTINUING	RET. TANKS
TYPE OF LOCATION		FOUND A	BLANK 2	TRUE	FINAL	CAL FOUND	CAL BLANK	WASTEWATER
SAMPLE NUMBER		AR2AB2011	AR03B0009	AR2B20005	AR2B20005	AR2AB4011	AR03B4009	AR500320F
MATRIX			WATER				WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								10
LEAD	F		0.7 U	5	4.7	45	0.7 U	426
SELENIUM	F		1.3 U	5	5.7	10	1.3 U	1.3 U
SILVER	F		0.14 U	10	10	15	0.14 U	24
THALLIUM	F		0.8 U	10	10	26	0.8 U	0.8 U
% SOLIDS								

AREA	METHOD		QA	QA	QA	QA	QA	QA
LOCATION		RET. TANKS	CONTINUING	CONTINUING	INITIAL CAL	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		WASTEWATER	CAL FOUND	CAL BLANK	FOUND A	CAL FOUND	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR500353F	AR2AB5011	AR03B5009	AR2AC2009	AR2AC4009	AR2AC5009	AR03B6009
MATRIX		WATER		WATER				WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		10						
ARSENIC	F	1 B		0.66 U	26	28	26	
CADMIUM	F	0.15 B	9.6	0.07 U		9.7		0.07 U
LEAD	F	13			40	41		
SELENIUM	F	1.3 U		1.3 U	12	11	10	1.3 U
SILVER	F	0.5 B		0.14 U	14	15	14	
THALLIUM	F	0.8 U		0.8 U	25	25	23	0.8 U
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA			QA
LOCATION		INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	RET. TANKS	RET. TANKS	CONTINUING
TYPE OF LOCATION		FOUND A	BLANK 3	TRUE	FINAL	WASTEWATER	WASTEWATER	CAL FOUND
SAMPLE NUMBER		AR2AD2005	AR03C0009	AR2B30004	AR2B30004	AR500546F	AR500524F	AR2AD4005
MATRIX			WATER			WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	10	
ARSENIC	F	27	0.66 U	10	10	0.66 U	0.66 U	27
CADMIUM	F	9.4	0.07 U	5	5	16	0.8 B	9
LEAD	F	41	0.7 U	5	4.8	144	12	40
SELENIUM	F		1.3 U	5	4.9	1.5 B	1.3 U	10

TABLE D.2.25 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500353F DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA			QA
LOCATION		INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	RET. TANKS	RET. TANKS	CONTINUING
TYPE OF LOCATION		FOUND A	BLANK 3	TRUE	FINAL	WASTEWATER	WASTEWATER	CAL FOUND
SAMPLE NUMBER		AR2AD2005	AR03C0009	AR2B30004	AR2B30004	AR500546F	AR500524F	AR2AD4005
MATRIX			WATER			WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	10	
SILVER	F	14	0.14 U	10	9.8	13	2 B	14
THALLIUM	F		0.8 U	10	10	0.8 U	0.8 U	23
% SOLIDS								

AREA	METHOD	QA		QA	QA	QA	QA	QA
LOCATION		CONTINUING	UNDWRTRS P	CONTINUING	CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL
TYPE OF LOCATION		CAL BLANK	POND	CAL FOUND	CAL BLANK	CAL BLANK	FOUND A	BLANK 4
SAMPLE NUMBER		AR03C7009	AR809048A	AR2AD5005	AR03C8009	AR03C9009	AR2AE2003	AR03D0003
MATRIX		WATER	WATER		WATER	WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO			22					
ARSENIC	F	0.66 U	0.66 U	24	0.66 U	0.66 U		
CADMIUM	F	0.07 U	0.48 B	9	0.07 U		9	0.07 U
LEAD	F	0.7 U	26	42	0.7 U	0.7 U		0.7 U
SELENIUM	F	1.3 U	1.3 U		1.3 U		10	1.3 U
SILVER	F	0.14 U	0.3 B	14	0.14 U	0.14 U		0.14 U
THALLIUM	F	0.8 U	0.8 U		0.8 U	0.8 U	25	0.8 U
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	
LOCATION		CRDL STAND	CRDL STAND	CONTINUING	CONTINUING	MATRIX	MS %	B32 TAP WA
TYPE OF LOCATION		TRUE	FINAL	CAL FOUND	CAL BLANK	SPIKE	RECOVERY	WELLS
SAMPLE NUMBER		AR2B40003	AR2B40003	AR2AE4003	AR03D1003	AR401013G	AR401013G	AR401024A
MATRIX					WATER	WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	%	UG/L
ENV PROBLEM NO						7	7	7
ARSENIC	F					40	96	0.66 U
CADMIUM	F	5	5.1	9.1	0.07 U	4.3	86	0.16 B
LEAD	F	5	4.8	42	0.7 U	21	106	0.7 U
SELENIUM	F	5	5.5	11	1.3 U	8.1	81	1.3 U
SILVER	F	10	11	14	0.14 U	11	100	3 B
THALLIUM	F	10	9.8	23	0.8 U	58	116	0.8 U

TABLE D.2.25 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500353F

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	
LOCATION		CRDL STAND	CRDL STAND	CONTINUING	CONTINUING	MATRIX	MS %	B32 TAP WA
TYPE OF LOCATION		TRUE	FINAL	CAL FOUND	CAL BLANK	SPIKE	RECOVERY	WELLS
SAMPLE NUMBER		AR2B40003	AR2B40003	AR2AE4003	AR03D1003	AR401013G	AR401013G	AR401024A
MATRIX					WATER	WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	%	UG/L
ENV PROBLEM NO						7	7	7
% SOLIDS								

AREA	METHOD				QA	QA	QA	QA
LOCATION		B163 TAP W	RET. TANKS	319 LDF-NW	CONTINUING	CONTINUING	INITIAL CAL	CONTINUING
TYPE OF LOCATION		WELLS	WASTEWATER	BACKGROUND	CAL FOUND	CAL BLANK	FOUND A	CAL FOUND
SAMPLE NUMBER		AR402014G	AR500706A	AR802109H	AR2AE5003	AR03D1103	AR2AF2003	AR2AF4003
MATRIX		WATER	WATER	WATER		WATER		
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		7	10	17				
ARSENIC	F	1.2 B	0.66 U	0.66 U				
CADMIUM	F	0.08 B	0.16 B	0.4 B	9.2	0.07 U		8.9
LEAD	F	1.5 B	1 B	265			40	43
SELENIUM	F	1.3 U	1.3 U	1.3 U	12	1.3 U	10	11
SILVER	F	1 B	0.6 B	0.14 U		0.14 U	16	15
THALLIUM	F	0.8 U	0.8 U	0.8 U	24	0.8 U		27
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	
LOCATION		CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	B32 TAP WA
TYPE OF LOCATION		CAL FOUND	CAL BLANK	FOUND A	BLANK 5	TRUE	FINAL	WELLS
SAMPLE NUMBER		AR2AF5003	AR03D1203	AR2AG2003	AR03E0003	AR2B50002	AR2B50002	AR401013G
MATRIX			WATER		WATER			WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								7
ARSENIC	F							1.2 B
CADMIUM	F		0.07 U	9.8	0.07 U			0.07 U
LEAD	F					5	4.8	0.7 U
SELENIUM	F	11	1.3 U					1.3 U
SILVER	F	16	0.14 U					1 B
THALLIUM	F			26				0.8 U
% SOLIDS								

TABLE D.2.25 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR500353F

DRAFT DO NOT CITE

AREA	METHOD			QA	QA	QA	QA	QA
LOCATION		RET. TANKS	RET. TANKS	DUPLICATE	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		WASTEWATER	WASTEWATER		CAL FOUND	CAL BLANK	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR500251F	AR500115F	AR401013G	AR2AG4003	AR03E1303	AR2AG5003	AR03E1403
MATRIX		WATER	WATER	WATER		WATER		WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		10	10	7				
ARSENIC	F	0.66 U	12	1.7 B				
CADMIUM	F	15	1340	0.07 U	9.9	0.07 U	8.9	0.07 U
LEAD	F	79	87800	3.6 B				
SELENIUM	F	1.3 U	2 B	4 B	11			
SILVER	F	2 B	2 B	1 B	14			
THALLIUM	F	0.8 U	0.8 U	0.8 U	27		26	
% SOLIDS								

AREA	METHOD		QA	QA
LOCATION		RET. TANKS	CONTINUING	CONTINUING
TYPE OF LOCATION		WASTEWATER	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR500104F	AR2AH4002	AR03E1503
MATRIX		WATER		WATER
UNITS		UG/L	UG/L	UG/L
ENV PROBLEM NO		10		
ARSENIC	F	6 B		
CADMIUM	F	355	9.9	0.07 U
LEAD	F	40000		
SELENIUM	F	1.3 U		
SILVER	F	1 B		
THALLIUM	F	0.8 U		
% SOLIDS				

TABLE D.2.26 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR501014F

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK 1	INITIAL CAL TRUE A	INITIAL CAL FOUND A	CONTINUING CAL BLANK	CONTINUING CAL FOUND	LAB CONTROL SAMPLE TRUE	LAB CONTROL SAMPLE
TYPE OF LOCATION								
SAMPLE NUMBER		AR03A0012	AR2AA1012	AR2AA2012	AR03A1012	AR2AA4012	AR0700112	AR0700112
MATRIX		WATER			WATER		SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
MERCURY	CV	0.01 U	10	11	0.01 U	10	19	19
% SOLIDS								

AREA	METHOD			QA	QA	QA	QA	
LOCATION		DRYING BED SLUDGE	DRYING BED SLUDGE	CONTINUING CAL BLANK	DUPLICATE	DUPLICATE RPD	MATRIX SPIKE	DRYING BED SLUDGE
TYPE OF LOCATION								
SAMPLE NUMBER		AR501025F	AR501014F	AR03A2012	AR501014F	AR501014F	AR501014F	AR501069F
MATRIX		SOIL	SOIL	WATER	SOIL		SOIL	SOIL
UNITS		MG/KG	MG/KG	UG/L	MG/KG	%	MG/KG	MG/KG
ENV PROBLEM NO		11	11		11	11	11	11
MERCURY	CV	214	159	0.01 U	148	7.2	157	307
% SOLIDS		58.7	68.9					45.3

AREA	METHOD	QA	QA				QA	
LOCATION		CONTINUING CAL BLANK	CONTINUING CAL FOUND	DRYING BED SLUDGE	DRYING BED SLUDGE	DRYING BED SLUDGE	CONTINUING CAL BLANK	319 LDF-NW BACKGROUND
TYPE OF LOCATION								
SAMPLE NUMBER		AR03A3012	AR2AA5012	AR501058F	AR501047F	AR501036F	AR03B4010	AR802018E
MATRIX		WATER		SOIL	SOIL	SOIL	WATER	SOIL
UNITS		UG/L	UG/L	MG/KG	MG/KG	MG/KG	UG/L	MG/KG
ENV PROBLEM NO				11	11	11		17
MERCURY	CV	0.01 U	10	318	258	182	0.01 U	0.07 B
% SOLIDS				50.9	48	53.4		68.4

TABLE D.2.26 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR501014F

DRAFT DO NOT CITE

AREA	METHOD						QA	QA
LOCATION		319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	CONTINUING	CONTINUING
TYPE OF LOCATION		BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR802029E	AR802030E	AR802041E	AR802052E	AR802063E	AR03C7010	AR2AB4012
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	WATER	
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO		17	17	17	17	17		
MERCURY	CV	0.05	0.08	0.05 B	0.05 B	0.05 B	0.01 U	10
% SOLIDS		72.1	67.7	76.3	80.4	77		

AREA	METHOD				QA	QA	QA
LOCATION		319 LDF-NW	319 LDF-NW	319 LDF-NW	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION		BACKGROUND	BACKGROUND	BACKGROUND	BLANK	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR802074E	AR802085E	AR802096E	AR03A0012	AR03C8010	AR2AB5012
MATRIX		SOIL	SOIL	SOIL	WATER	WATER	
UNITS		MG/KG	MG/KG	MG/KG	UG/L	UG/L	UG/L
ENV PROBLEM NO		17	17	17			
MERCURY	CV	0.08	0.08	0.05 B	0.01 B	0.01 U	9.7
% SOLIDS		82	82.1	80.2			

TABLE D.2.27 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR501014K

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	LAB CONTROL	INITIAL CAL	INITIAL CAL	PREP	PREP	LAB CONTROL
TYPE OF LOCATION		TRUE A	SAMPLE TRUE	FOUND A	BLANK	BLANK	BLANK	SAMPLE
SAMPLE NUMBER		ARICV1373	ARLCS1484	ARICV1357	ARICB1290	ARPB01545	ARPB01546	ARLCS1467
MATRIX		WATER	SOLID	WATER	WATER	WATER	WATER	SOIL
UNITS		UG/L	MG/KG	UG/L	UG/L	UG/L	UG/L	MG/KG
ENV PROBLEM NO								
POTASSIUM	FE	1000 B	8150	1100 B	100 U	100 U	100 U	9400
% SOLIDS								

AREA	METHOD	QA	QA				QA	QA
LOCATION		CONTINUING	CONTINUING	DRYING BED	DRYING BED	319 LDF-NW	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL FOUND	CAL BLANK	SLUDGE	SLUDGE	BACKGROUND	CAL FOUND	CAL BLANK
SAMPLE NUMBER		ARCCV1112	ARCCB1044	AR501047E	AR501025E	AR802052F	ARCCV1113	ARCCB1045
MATRIX		WATER	WATER	SLUDG	SLUDG	SOIL	WATER	WATER
UNITS		UG/L	UG/L	MG/KG	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO				11	11	17		
POTASSIUM	FE	1100 B	100 U	1200 B	1000 B	1400	1000 B	100 U
% SOLIDS				47.9	58.8	80.5		

AREA	METHOD						QA	QA
LOCATION		319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	CONTINUING	CONTINUING
TYPE OF LOCATION		BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR802074F	AR802063F	AR802041F	AR802030F	AR802029F	ARCCV1114	ARCCB1046
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO		17	17	17	17	17		
POTASSIUM	FE	2000	1200	1300	1600	1500	1000 B	100 U
% SOLIDS		80	77.1	74.6	68.4	71.4		

TABLE D.2.27 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR501014K

DRAFT DO NOT CITE

AREA	METHOD						
LOCATION		319 LDF-NW	DRYING BED	DRYING BED	DRYING BED	DRYING BED	B148 FLUE	B148 FLUE
TYPE OF LOCATION		BACKGROUND	SLUDGE	SLUDGE	SLUDGE	SLUDGE	SEEPAGE	SEEPAGE
SAMPLE NUMBER		AR802018F	AR501058E	AR501069E	AR501014E	AR501036E	AR504017B	AR504028B
MATRIX		SOIL	SLUDG	SLUDG	SLUDG	SLUDG	SOIL	SOIL
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		17	11	11	11	11	13	13
POTASSIUM	FE	1600	1400 B	1400 B	1300	970	1400	1400
% SOLIDS		65	47.9	47.9	67.7	65.4	87.5	88.6

AREA	METHOD				QA	QA		QA
LOCATION		B148 FLUE	B148 FLUE	B148 FLUE	CONTINUING	CONTINUING	B148 FLUE	DUPLICATE
TYPE OF LOCATION		SEEPAGE	SEEPAGE	SEEPAGE	CAL FOUND	CAL BLANK	SEEPAGE	
SAMPLE NUMBER		AR504039B	AR504040B	AR504051B	ARCCV1115	ARCCB1047	AR504062B	AR504062B
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		13	13	13			13	13
POTASSIUM	FE	1200	1300	1400	1000 B	100 U	1200	1200
% SOLIDS		90.9	80.1	83.3			83.2	83.2

AREA	METHOD	QA	QA	QA
LOCATION		CONTINUING	DUPLICATE	CONTINUING
TYPE OF LOCATION		CAL FOUND	RPD	CAL BLANK
SAMPLE NUMBER		ARCCV1116	AR504062B	ARCCB1048
MATRIX		WATER		WATER
UNITS		UG/L	%	UG/L
ENV PROBLEM NO			13	
POTASSIUM	FE	1000 B	0	100 U
% SOLIDS				

TABLE D.2.28 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR506019A

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	PREP	PREP
TYPE OF LOCATION		BLANK 1	TRUE A	FOUND A	TRUE	FINAL	BLANK	BLANK 2
SAMPLE NUMBER		AR03A0001	AR2AA1001	AR2AA2001	AR2B10001	AR2B10001	AR03A0001	AR03B0001
MATRIX		WATER					WATER	WATER
UNITS		MG/KG	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
LEAD	F	1.4 U	39	40	5	5	0.38 B	0.36 B
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LAB CONTROL	LAB CONTROL	CONTINUING	CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL
TYPE OF LOCATION		SAMPLE TRUE	SAMPLE	CAL TRUE	CAL FOUND	CAL BLANK	FOUND A	BLANK 2
SAMPLE NUMBER		AR0710001	AR0710001	AR2AA3001	AR2AA4001	AR03A1001	AR2AB2001	AR03B0001
MATRIX		SOIL	SOIL			WATER		WATER
UNITS		MG/KG	MG/KG	UG/L	UG/L	MG/KG	UG/L	MG/KG
ENV PROBLEM NO								
LEAD	F	236	240	39	43	1.4 U	38	1.4 U
% SOLIDS								

AREA	METHOD	QA	QA			QA		QA
LOCATION		CRDL STAND	CRDL STAND	B. 378/382	B. 378/382	CONTINUING	B. 378/382	CONTINUING
TYPE OF LOCATION		TRUE	FINAL	LEAD	LEAD	CAL FOUND	LEAD	CAL BLANK
SAMPLE NUMBER		AR2B20001	AR2B20001	AR506019A	AR506020A	AR2AB4001	AR506031A	AR03B4001
MATRIX				SOIL	SOIL		SOIL	WATER
UNITS		UG/L	UG/L	MG/KG	MG/KG	UG/L	MG/KG	MG/KG
ENV PROBLEM NO				15	15		15	
LEAD	F	5	5.2	239	114	40	46100	1.4 U
% SOLIDS				96.7	95.6		94.9	

TABLE D.2.28 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR506019A

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	
LOCATION		CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND	B. 378/382
TYPE OF LOCATION		CAL FOUND	CAL BLANK	FOUND A	BLANK 3	TRUE	FINAL	LEAD
SAMPLE NUMBER		AR2AB5001	AR03B5001	AR2AC2001	AR03C0001	AR2D40001	AR2D40001	AR506086A
MATRIX			WATER		WATER			SOIL
UNITS		UG/L	MG/KG	UG/L	MG/KG	UG/L	UG/L	MG/KG
ENV PROBLEM NO								15
LEAD	F	38	1.4 U	41	1.4 U	5	4.9	1070
% SOLIDS								93.8

AREA	METHOD	QA	QA			QA	QA	QA
LOCATION		CONTINUING	CONTINUING	B. 378/382	B. 378/382	DUPLICATE	DUPLICATE	MATRIX
TYPE OF LOCATION		CAL FOUND	CAL BLANK	LEAD	LEAD		RPD	SPIKE
SAMPLE NUMBER		AR2AC4001	AR03C7001	AR506097A	AR506042A	AR506042A	AR506019A	AR506042A
MATRIX			WATER	SOIL	SOIL	SOIL		SOIL
UNITS		UG/L	MG/KG	MG/KG	MG/KG	MG/KG	%	MG/KG
ENV PROBLEM NO				15	15	15	15	15
LEAD	F	40	1.4 U	1090	265	222	18	157
% SOLIDS				93.6	95.3			

AREA	METHOD		QA	QA	QA	QA	QA	QA
LOCATION		B. 378/382	CONTINUING	CONTINUING	INITIAL CAL	INITIAL CAL	CRDL STAND	CRDL STAND
TYPE OF LOCATION		LEAD	CAL FOUND	CAL BLANK	FOUND A	BLANK 4	TRUE	FINAL
SAMPLE NUMBER		AR506053A	AR2AC5001	AR03C8001	AR2AD2001	AR03D0001	AR2B40001	AR2B40001
MATRIX		SOIL		WATER		WATER		
UNITS		MG/KG	UG/L	MG/KG	UG/L	MG/KG	UG/L	UG/L
ENV PROBLEM NO		15						
LEAD	F	4620	38	1.4 U	41	1.4 U	5	4.9
% SOLIDS		94.6						

TABLE D.2.28 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR506019A

DRAFT DO NOT CITE

AREA	METHOD			QA	QA			
LOCATION		B. 378/382	B. 378/382	CONTINUING	CONTINUING			
TYPE OF LOCATION		LEAD	LEAD	CAL FOUND	CAL BLANK			
SAMPLE NUMBER		AR506064A	AR506075A	AR2AD4001	AR03D1001			
MATRIX		SOIL	SOIL		WATER			
UNITS		MG/KG	MG/KG	UG/L	MG/KG			
ENV PROBLEM NO		15	15					
LEAD	F	29100	9180	41	1.4 U			
% SOLIDS		95.6	93.9					

TABLE D.2.29 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR507010C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INTER CHK	INTER CHK	INITIAL CAL	INITIAL CAL	INITIAL CAL	LAB CONTROL	CRDL STAND
TYPE OF LOCATION		SOL. A TRUE	SOL. AB TRUE	TRUE A	TRUE B	TRUE C	SAMPLE TRUE	TRUE
SAMPLE NUMBER		ARICS1337	ARICS1345	ARICV1374	ARICV1393	ARICV1409	ARLCS1485	ARLRA1512
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	UG/L
ENV PROBLEM NO								
ALUMINUM	P	511000	508000	100000	990		15200	
ANTIMONY	P				1000		20 U	120
ARSENIC	P		483		1000		680	500
BARIUM	P		474		990		430	
BERYLLIUM	P		909		241		1 U	10
CADMIUM	P	476000	470000		245		1 U	10
CALCIUM	P		513		24900	5000	10500	
CHROMIUM	P		478		253		17	20
COBALT	P		534		237		6.9	100
COPPER	P	219000	211000	100000	271		265	50
IRON	P		4850		995		11200	
LEAD	P	513000	513000	50000	2260		5830	500
MAGNESIUM	P		470	50000		5000	14700	
MANGANESE	P		916		257		91700	30
NICKEL	P				248		22	80
SELENIUM	P		934		1000		1 U	500
SILVER	P			100000	255		2 U	20
SODIUM	P		475			5000	3720	
VANADIUM	P		973		256		18	100
ZINC	P				1550		425	40
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND A	FOUND B	FOUND C	BLANK	INITIAL
SAMPLE NUMBER		ARRAN1564	ARRAN1572	ARICV1358	ARICV1385	ARICV1401	ARICB1294	ARLRA1504
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								
ALUMINUM	P	10000	800000	99600	1110		60 U	
ANTIMONY	P	10000			973		50 U	102
ARSENIC	P	20000			1030		60 U	474
BARIUM	P	5000			984		2 U	
BERYLLIUM	P	1500			245		0.3 U	9.6
CADMIUM	P	5000			249		2 U	8.4
CALCIUM	P	10000	900000		25300	5100	200 U	

TABLE D.2.29 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR507010C DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND A	FOUND B	FOUND C	BLANK	INITIAL
SAMPLE NUMBER		ARRAN1564	ARRAN1572	ARICV1358	ARICV1385	ARICV1401	ARICB1294	ARLRA1504
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								
CHROMIUM	P	10000			252		6 U	19
COBALT	P	10000			242		3 U	96
COPPER	P	10000			268		10 U	49
IRON	P	12000	800000	99500	970		20 U	
LEAD	P	50000			2160		50 U	487
MAGNESIUM	P	12000	500000	46500		4900 B	10 U	
MANGANESE	P	2000	200000	48000	250		5 U	29
NICKEL	P	15000			235		6 U	74
SELENIUM	P	10000			996		60 U	461
SILVER	P	10000			247		6 U	20
SODIUM	P	10000	900000	97100		4620 B	200 U	
VANADIUM	P	10000			268		4 U	99
ZINC	P	6000			1460		7 U	33
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	BLDG 108	BLDG 108
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	SILT	SILT
SAMPLE NUMBER		ARICS1321	ARICS1329	ARPB01547	ARPB01548	ARLCS1468	AR507010C	AR507021C
MATRIX		WATER	WATER	WATER	WATER	SOIL	SILT	SILT
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO							16	16
ALUMINUM	P	510000	510000	60 U	60 U	19100	5240	6260
ANTIMONY	P			50 U	50 U	9.6 U	11 UN	14 UN
ARSENIC	P			60 U	60 U	633	26 B	16 U
BARIUM	P	14 B	447	3 B	2 U	413	50	60
BERYLLIUM	P	4 B	444	0.3 U	0.3 U	1.4	2.2	2.3
CADMIUM	P	17	824	2 U	2 U	1.1	3.1	4.8
CALCIUM	P	486000	487000	200 U	200 U	10500	4320	6110
CHROMIUM	P	17	440	6 U	6 U	7.9	10	9
COBALT	P	7.2 B	421	3 U	3 U	6	8.9 B	8 B
COPPER	P	10 U	482	10 U	10 U	254	53	63
IRON	P	212000	212000	20 U	20 U	13800	43100	78600
LEAD	P	50 U	4360	50 U	50 U	5250	44 B	57 B
MAGNESIUM	P	516000	516000	10 U	10 U	15900	2130	1910
MANGANESE	P	5 U	426	5 U	5 U	87800	75	68

TABLE D.2.29 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR507010C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	BLDG 108	BLDG 108
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	SILT	SILT
SAMPLE NUMBER		ARICS1321	ARICS1329	ARPB01547	ARPB01548	ARLCS1468	AR507010C	AR507021C
MATRIX		WATER	WATER	WATER	WATER	SOIL	SILT	SILT
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO							16	16
NICKEL	P	13 B	795	6 U	6 U	21	24	21
SELENIUM	P			60 U	60 U	12 U	14 U	16 U
SILVER	P	7.5 B	923	6 U	6 U	1.2 U	1.4 U	1.6 U
SODIUM	P			200 U	200 U	4060	777 B	1760
VANADIUM	P	4 U	446	4 U	4 U	22	26	30
ZINC	P	7 U	885	7 U	7 U	409	153	160
% SOLIDS							62.9	47.6

AREA	METHOD	QA	QA	QA	QA			
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	BLDG 108	319 LNDF-S	319 LNDF-S
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	SILT	LANDFILL	LANDFILL
SAMPLE NUMBER		ARCCV1117	ARCCV1160	ARCCV1194	ARCCB1049	AR507032C	AR801017D	AR801028D
MATRIX		WATER	WATER	WATER	WATER	SILT	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO						16	17	17
ALUMINUM	P	100000	1130		60 U	8720	12400	11300
ANTIMONY	P		977		50 U	13 UN	8.8 UN	8.7 UN
ARSENIC	P		1040		60 U	37 B	10 U	10 U
BARIUM	P		975		2 U	68	142	356
BERYLLIUM	P		244		0.3 U	2	1.2	1.1
CADMIUM	P		239		2 U	4.4	8.6	4.6
CALCIUM	P		25200	5070	200 U	8740	42300	62300
CHROMIUM	P		251		6 U	14	28	18
COBALT	P		243		3 U	9.6 B	13	12
COPPER	P		267		10 U	55	433	219
IRON	P	99000	971		20 U	59800	29000	27800
LEAD	P		2180		50 U	66	196	91
MAGNESIUM	P	46500		4940 B	10 U	5380	24500	37800
MANGANESE	P	48500	251		5 U	119	1010	872
NICKEL	P		236		6 U	30	58	39
SELENIUM	P		968		60 U	16 U	10 U	10 U
SILVER	P		250		6 U	1.6 U	5.2	4
SODIUM	P	99400		4350 B	200 U	2210	192 B	230 B
VANADIUM	P		269		4 U	39	27	24
ZINC	P		1460		7 U	343	758	521
% SOLIDS						52	78.9	80.8

TABLE D.2.29 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR507010C

DRAFT DO NOT CITE

AREA	METHOD							
LOCATION		319 LNDF-S	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE
TYPE OF LOCATION		LANDFILL	DRAINS	DRAINS	DRAINS	DRAINS	DRAINS	DRAINS
SAMPLE NUMBER		AR801039D	AR807013D	AR807024D	AR807035D	AR807046D	AR807080D	AR807079D
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		17	21	21	21	21	21	21
ALUMINUM	P	11200	13100	9640	11000	14300	19400	8610
ANTIMONY	P	9.1 UN	8.6 UN	9.8 UN	8.7 UN	8.8 UN	8.8 UN	8 UN
ARSENIC	P	11 U	10 U	12 U	10 U	11 U	11 U	9.6 U
BARIUM	P	105	63	192	82	59	98	33
BERYLLIUM	P	1.2	1.2	1.1	0.99	1.2	1.3	1
CADMIUM	P	2.2	2.6	17	1.5	2	2	1.7
CALCIUM	P	52000	28000	52000	15700	36600	16300	76200
CHROMIUM	P	14	27	108	15	20	25	12
COBALT	P	12	13	16	12	12	12	8.7
COPPER	P	26	43	78	20	28	24	25
IRON	P	28600	27300	24700	23500	31200	31000	22000
LEAD	P	21 B	112	2010	30 B	29 B	24 B	18 B
MAGNESIUM	P	31600	18200	27500	10700	23800	12500	45100
MANGANESE	P	1340	291	335	1030	721	871	758
NICKEL	P	27	29	22	22	30	32	21
SELENIUM	P	11 U	10 U	12 U	10 U	11 U	11 U	9.6 U
SILVER	P	1.7 B	1 U	1.3 B	1.6 B	1.1 B	1.1 B	1.3 B
SODIUM	P	221 B	160 B	222 B	91 B	193 B	176 B	286 B
VANADIUM	P	29	30	23	29	33	46	20
ZINC	P	74	180	1450	74	81	80	75
% SOLIDS		78.6	79	69.4	78.2	79.1	80.1	82.7

AREA	METHOD	QA	QA	QA	QA			
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	NIKE SITE	NIKE SITE	CP-3 AREA
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	DRAINS	DRAINS	SITE A
SAMPLE NUMBER		ARCCV1118	ARCCV1161	ARCCV1195	ARCCB1050	AR807068D	AR807057D	AR812010D
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO						21	21	25
ALUMINUM	P	100000	1130		60 U	17600	17500	16700
ANTIMONY	P		978		50 U	8.5 UN	8.8 UN	8.6 UN
ARSENIC	P		1040		60 U	10 U	11 U	10 U
BARIUM	P		982		2 U	88	105	61
BERYLLIUM	P		246		0.3 U	1.3	1.3	0.99
CADMIUM	P		239		2 U	2	1.6	1.8
CALCIUM	P		25500	5070	200 U	11700	20800	7550

TABLE D.2.29 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR507010C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA			
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	NIKE SITE	NIKE SITE	CP-3 AREA
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	DRAINS	DRAINS	SITE A
SAMPLE NUMBER		ARCCV1118	ARCCV1161	ARCCV1195	ARCCB1050	AR807068D	AR807057D	AR812010D
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO						21	21	25
CHROMIUM	P		254		6 U	24	21	24
COBALT	P		246		3 U	14	13	12
COPPER	P		268		10 U	28	22	25
IRON	P	99500	985		20 U	32800	28200	27400
LEAD	P		2180		50 U	32 B	23 B	23 B
MAGNESIUM	P	46600		4960 B	10 U	10300	14500	8150
MANGANESE	P	48300	253		5 U	961	1040	543
NICKEL	P		237		6 U	33	26	25
SELENIUM	P		995		60 U	10 U	11 U	10 U
SILVER	P		250		6 U	1.1 B	1.1 U	1.2 B
SODIUM	P	98700		4400 B	200 U	190 B	114 B	113 B
VANADIUM	P		271		4 U	44	41	36
ZINC	P		1480		7 U	85	78	70
% SOLIDS						79.9	79.4	82.9

AREA	METHOD				QA	QA	QA	QA
LOCATION		CP-3 AREA	CP-3 AREA	CP-3 AREA	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		SITE A	SITE A	SITE A	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR812021D	AR812032D	AR812043D	ARCCV1119	ARCCV1162	ARCCV1196	ARCCB1051
MATRIX		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		25	25	25				
ALUMINUM	P	13500	14900	16600	100000	1110		60 U
ANTIMONY	P	8.1 UN	8.1 UN	8.3 UN		975		50 U
ARSENIC	P	9.7 U	9.7 U	10 U		1040		60 U
BARIUM	P	54	63	85		974		2 U
BERYLLIUM	P	0.69 B	1.3	1.3		244		0.3 U
CADMIUM	P	1.9	1.4	2.2		239		2 U
CALCIUM	P	973	3690	13100		25200	5150	200 U
CHROMIUM	P	20	19	23		251		6 U
COBALT	P	11	16	24		240		3 U
COPPER	P	22	21	40		265		10 U
IRON	P	23700	22300	33300	100000	972		20 U
LEAD	P	26 B	22 B	24 B		2140		50 U
MAGNESIUM	P	3630	4980	12500	46700		4930 B	10 U
MANGANESE	P	456	649	684	49100	250		5 U

TABLE D.2.29 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR507010C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		MS %	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CRDL STAND	INTER CHK
TYPE OF LOCATION		RECOVERY	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	FINAL	SOL. A FINAL
SAMPLE NUMBER		AR812065D	ARCCV1120	ARCCV1163	ARCCV1197	ARCCB1052	ARLRA1496	ARICS1305
MATRIX			WATER	WATER	WATER	WATER	WATER	WATER
UNITS		%	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		25						
ALUMINUM	P		101000	1110		60 U		561000
ANTIMONY	P	21		955		50 U	123	
ARSENIC	P	82		1020		60 U	560	
BARIUM	P	95		964		2 U		14 B
BERYLLIUM	P	94		244		0.3 U	11	4.7 B
CADMIUM	P	89		236		2 U	10	16
CALCIUM	P			25100	4950 B	200 U		538000
CHROMIUM	P	100		251		6 U	23	19
COBALT	P	83		242		3 U	111	6.5 B
COPPER	P	93		265		10 U	57	10 U
IRON	P		101000	971		20 U		233000
LEAD	P	98		2170		50 U	555	50 U
MAGNESIUM	P		47000		4990 B	10 U		568000
MANGANESE	P		48400	249		5 U	33	5 U
NICKEL	P	93		235		6 U	86	12 B
SELENIUM	P	82		966		60 U	534	
SILVER	P	106		249		6 U	21	7.6 B
SODIUM	P		100000		4440 B	200 U		
VANADIUM	P	93		270		4 U	116	4 U
ZINC	P	94		1470		7 U	39	7 U
% SOLIDS								

AREA	METHOD	QA
LOCATION		INTER CHK
TYPE OF LOCATION		SOL. AB FINA
SAMPLE NUMBER		ARICS1313
MATRIX		WATER
UNITS		UG/L
ENV PROBLEM NO		
ALUMINUM	P	564000
ANTIMONY	P	
ARSENIC	P	
BARIUM	P	486
BERYLLIUM	P	497
CADMIUM	P	897
CALCIUM	P	541000

TABLE D.2.29 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR507010C

DRAFT DO NOT CITE

AREA	METHOD				QA	QA	QA	QA
LOCATION		CP-3 AREA	CP-3 AREA	CP-3 AREA	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		SITE A	SITE A	SITE A	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR812021D	AR812032D	AR812043D	ARCCV1119	ARCCV1162	ARCCV1196	ARCCB1051
MATRIX		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		25	25	25				
NICKEL	P	23	20	53		237		6 U
SELENIUM	P	9.7 U	9.7 U	10 U		976		60 U
SILVER	P	1.1 B	1 B	1.1 B		244		6 U
SODIUM	P	46 B	90 B	239 B	98500		4370 B	200 U
VANADIUM	P	31	30	34		267		4 U
ZINC	P	76	53	82		1450		7 U
% SOLIDS		81.9	82.5	82.1				

AREA	METHOD			QA	QA	QA	QA	QA
LOCATION		CP-3 AREA	CP-3 AREA	SERIAL	SD %	DUPLICATE	DUPLICATE	MATRIX
TYPE OF LOCATION		SITE A	SITE A	DILUTION	DIFFERENCE		RPD	SPIKE
SAMPLE NUMBER		AR812054D	AR812065D	AR812065D	AR812065D	AR812065D	AR812065D	AR812065D
MATRIX		SOIL	SOIL	SOIL		SOIL		SOIL
UNITS		MG/KG	MG/KG	MG/KG	%	MG/KG	%	MG/KG
ENV PROBLEM NO		25	25	25	25	25	25	25
ALUMINUM	P	18400	22000	21500	2.3	22600	2.7	21200
ANTIMONY	P	8.1 UN	8.8 UN	44 U		8.6 U		18
ARSENIC	P	9.7 U	11 U	53 U		10 U		14 B
BARIUM	P	73	79	87	10	77	2	396
BERYLLIUM	P	1.5	1.5	1.4		1.5	0	9.4
CADMIUM	P	2	1.8	2.8		2	0.2	9.3
CALCIUM	P	31000	2710	2720	0.37	1860	850	1630
CHROMIUM	P	24	28	31		29	3.5	62
COBALT	P	14	25	26		28	3	96
COPPER	P	28	32	32		36	9	72
IRON	P	28800	32700	32300	1.2	34500	5.4	33500
LEAD	P	17 B	21 B	44 U		24 B		103
MAGNESIUM	P	21800	6810	6640	2.5	6610	3	6140
MANGANESE	P	540	633	574	9.3	749	17	675
NICKEL	P	39	34	37		35	1	112
SELENIUM	P	9.7 U	11 U	53 U		10 U		69
SILVER	P	0.97 U	1.1 U	5.3 U		1 B		9
SODIUM	P	220 B	237 B	177 U		272 B		395 B
VANADIUM	P	35	43	47	9.3	44	2.3	121
ZINC	P	74	82	85	3.7	90	9.3	161
% SOLIDS		86.5	79.9	79.9		79.9		79.9

TABLE D.2.29 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR507010C

DRAFT DO NOT CITE

	METHOD	
AREA		QA
LOCATION		INTER CHK
TYPE OF LOCATION		SOL. AB FINA
SAMPLE NUMBER		ARICS1313
MATRIX		WATER
UNITS		UG/L
ENV PROBLEM NO		
CHROMIUM	P	493
COBALT	P	467
COPPER	P	539
IRON	P	235000
LEAD	P	4840
MAGNESIUM	P	571000
MANGANESE	P	472
NICKEL	P	863
SELENIUM	P	
SILVER	P	1070
SODIUM	P	
VANADIUM	P	512
ZINC	P	997
% SOLIDS		

TABLE D.2.30 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR507010K

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	LAB CONTROL	INITIAL CAL	INITIAL CAL	PREP	PREP	LAB CONTROL
TYPE OF LOCATION		TRUE A	SAMPLE TRUE	BLANK	FOUND A	BLANK	BLANK	SAMPLE
SAMPLE NUMBER		ARICV1375	ARLCS1486	ARICB1295	ARICV1359	ARPB01549	ARPB01550	ARLCS1469
MATRIX		WATER	SOIL	WATER	WATER	WATER	WATER	SOIL
UNITS		UG/L	MG/KG	UG/L	UG/L	UG/L	UG/L	MG/KG
ENV PROBLEM NO								
POTASSIUM	FE	1000 B	8150	100 U	1000 B	100 U	100 U	11000
% SOLIDS								

AREA	METHOD							QA
LOCATION		BLDG 108	BLDG 108	BLDG 108	319 LNDF-S	319 LNDF-S	319 LNDF-S	CONTINUING
TYPE OF LOCATION		SILT	SILT	SILT	LANDFILL	LANDFILL	LANDFILL	CAL BLANK
SAMPLE NUMBER		AR507010C	AR507021C	AR507032C	AR801017D	AR801028D	AR801039D	ARCCB1053
MATRIX		SILT	SILT	SILT	SOIL	SOIL	SOIL	WATER
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L
ENV PROBLEM NO		16	16	16	17	17	17	
POTASSIUM	FE	1100 B	1500	1300	3400	2700	2100	100 U
% SOLIDS		62.9	47.6	52	78.9	80.8	78.6	

AREA	METHOD	QA						QA
LOCATION		CONTINUING	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE	CONTINUING
TYPE OF LOCATION		CAL FOUND	DRAINS	DRAINS	DRAINS	DRAINS	DRAINS	CAL BLANK
SAMPLE NUMBER		ARCCV1121	AR807013D	AR807024D	AR807035D	AR807046D	AR807080D	ARCCB1054
MATRIX		WATER	SOIL	SOIL	SOIL	SOIL	SOIL	WATER
UNITS		UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L
ENV PROBLEM NO			21	21	21	21	21	
POTASSIUM	FE	1000 B	2500	2200	2100	3400	3000	100 U
% SOLIDS			79	69.4	78.2	79.1	80.1	

TABLE D.2.30 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR507010K

DRAFT DO NOT CITE

AREA	METHOD	QA						QA
LOCATION		CONTINUING	NIKE SITE	NIKE SITE	NIKE SITE	CP-3 AREA	CP-3 AREA	CONTINUING
TYPE OF LOCATION		CAL FOUND	DRAINS	DRAINS	DRAINS	SITE A	SITE A	CAL BLANK
SAMPLE NUMBER		ARCCV1122	AR807079D	AR807068D	AR807057D	AR812010D	AR812021D	ARCCB1055
MATRIX		WATER	SOIL	SOIL	SOIL	SOIL	SOIL	WATER
UNITS		UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L
ENV PROBLEM NO			21	21	21	25	25	
POTASSIUM	FE	1000 B	2800	3400	3200	2900	2600	100 U
% SOLIDS			82.7	79.9	79.4	82.9	81.9	

AREA	METHOD	QA					QA	QA
LOCATION		CONTINUING	CP-3 AREA	CP-3 AREA	CP-3 AREA	CP-3 AREA	DUPLICATE	DUPLICATE
TYPE OF LOCATION		CAL FOUND	SITE A	SITE A	SITE A	SITE A		RPD
SAMPLE NUMBER		ARCCV1123	AR812032D	AR812043D	AR812054D	AR812065D	AR812065D	AR812065D
MATRIX		WATER	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS		UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	%
ENV PROBLEM NO			25	25	25	25	25	25
POTASSIUM	FE	1000 B	1900	3800	4200	4600	4800	4.3
% SOLIDS			82.5	82.1	86.5	79.9	79.9	

AREA	METHOD	QA	QA
LOCATION		CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK	CAL FOUND
SAMPLE NUMBER		ARCCB1056	ARCCV1124
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
POTASSIUM	FE	100 U	1000 B
% SOLIDS			

TABLE D.2.31 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR800050C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		ICP LINEAR RANGES	SERIAL DILUTION	SD % DIFFERENCE	LAB CONTROL SAMP-SOLID	PREP BLANK	INITIAL CALIBRATION	INITIAL CAL BLANK
TYPE OF LOCATION		AR0408013	AR800061C	AR800061C	AR0623013	AR0623013	AR0623098	AR0623098
SAMPLE NUMBER		WATER	SOIL		SOIL	SOIL	WATER	WATER
MATRIX		UG/L	UG/L	%	MG/KG	MG/KG	UG/L	UG/L
UNITS			17	17				
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P	10000	15 B	68	46	0.56 U	472	2.8 U
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS					100			

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CRDL STAND INITIAL	ICP FIRST INT CHECK A	ICP FIRST INT CHECK AB	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 2	CONTINUING CAL BLANK 2
TYPE OF LOCATION		AR0623098	AR0623098	AR0623098	AR0623098	AR0623098	AR0623108	AR0623108
SAMPLE NUMBER		WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P	10 B	29	934	394	2.8 U	406	2.8 U
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL VERIF 3	CONTINUING CAL BLANK 3	CONTINUING CAL VERIF 4	CONTINUING CAL BLANK 4	CONTINUING CAL VERIF 5	CONTINUING CAL BLANK 5	CONTINUING CAL VERIF 6
TYPE OF LOCATION		AR0623108	AR0623108	AR0623118	AR0623118	AR0623118	AR0623118	AR0623128
SAMPLE NUMBER		WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P	400	2.8 U	392	2.8 U	402	2.8 U	391

TABLE D.2.31 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR800050C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 3	CAL BLANK 3	CAL VERIF 4	CAL BLANK 4	CAL VERIF 5	CAL BLANK 5	CAL VERIF 6
SAMPLE NUMBER		AR0623108	AR0623108	AR0623118	AR0623118	AR0623118	AR0623118	AR0623128
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								
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 6	CAL VERIF 7	CAL BLANK 7	CAL VERIF 8	CAL BLANK 8	CAL VERIF 9	CAL BLANK 9
SAMPLE NUMBER		AR0623128	AR0623138	AR0623138	AR0623148	AR0623148	AR0623148	AR0623148
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								
ARSENIC	F							
CADMIUM	P	2.8 U	394	2.8 U	395	4.3 B	400	2.8 U
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CRDL STAND	ICP FINAL	ICP FINAL
TYPE OF LOCATION		CAL VERIF 10	CAL BLANK 10	CAL VERIF 11	CAL BLANK 11	FINAL	INT CHECK A	INT CHECK AB
SAMPLE NUMBER		AR0623158	AR0623158	AR0623158	AR0623158	AR0623158	AR0623158	AR0623158
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								
ARSENIC	F							
CADMIUM	P	402	2.8 U	401	2.8 U	10 B	28	923
LEAD	F							
SELENIUM	F							

TABLE D.2.31 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR800050C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING.	CONTINUING	CRDL STAND	ICP FINAL	ICP FINAL
TYPE OF LOCATION		CAL VERIF 10	CAL BLANK 10	CAL VERIF 11	CAL BLANK 11	FINAL	INT CHECK A	INT CHECK AB
SAMPLE NUMBER		AR0623158	AR0623158	AR0623158	AR0623158	AR0623158	AR0623158	AR0623158
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								
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	INITIAL CAL	INITIAL	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 12	CAL BLANK 12	BLANK 1	CAL 1	CAL BLANK 1	CAL VERIF 1	CAL BLANK 2
SAMPLE NUMBER		AR0623158	AR0623168	AR0810082	AR0810083	AR0810092	AR0810092	AR0810102
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								
ARSENIC	F							
CADMIUM	P	407	3.1 B					
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F			5.1 U	94	5.1 U	31	5.1 U
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	LAB CONTROL	PREP	CONTINUING	CONTINUING	INITIAL CAL	INITIAL
TYPE OF LOCATION		CAL VERIF 2	SAMP-SOLID	BLANK	CAL BLANK 3	CAL VERIF 3	BLANK 2	CAL 2
SAMPLE NUMBER		AR0810103	AR0810113	AR0810114	AR0810115	AR0810120	AR0812143	AR0812143
MATRIX		WATER	SOIL	SOIL	WATER	WATER	WATER	WATER
UNITS		UG/L	MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F						2.4 U	50
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F	31	35	1 U	5.1 U	28		

TABLE D.2.31 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR800050C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	LAB CONTROL	PREP	CONTINUING	CONTINUING	INITIAL CAL	INITIAL
TYPE OF LOCATION		CAL VERIF 2	SAMP-SOLID	BLANK	CAL BLANK 3	CAL VERIF 3	BLANK 2	CAL 2
SAMPLE NUMBER		AR0810103	AR0810113	AR0810114	AR0810115	AR0810120	AR0812143	AR0812143
MATRIX		WATER	SOIL	SOIL	WATER	WATER	WATER	WATER
UNITS		UG/L	MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
% SOLIDS			100					

AREA	METHOD		QA	QA	QA	QA		
LOCATION		319 LANDF	DUPLICATE	DUPLICATE	MATRIX	MS %	317 AREA	SE 317 ARE
TYPE OF LOCATION		STREAM		RPD	SPIKE	RECOVERY	DRAINAGE	DRAINAGE
SAMPLE NUMBER		AR800061C	AR800061C	AR800061C	AR800061C	AR800061C	AR803064D	AR804032D
MATRIX		SOIL	SOIL		SOIL		SOIL	SOIL
UNITS		MG/KG	MG/KG	%	MG/KG	%	MG/KG	MG/KG
ENV PROBLEM NO		17	17	17	17	17	18	18
ARSENIC	F	9.3	7.7	19	19	92	7.5	12
CADMIUM	P	2.3 B	2.3 B	0	3.7 B	108	2.2 B	2.4 B
LEAD	F	18 N	19	5.5	24 N	129	20 N	29 N
SELENIUM	F	4.6 UN	4.6 U		4.6 UN	0	4.5 UN	4.5 UN
SILVER	F	1.1 U	1.1 U		5.2	102	1 U	1 U
THALLIUM	F	1.3 U	1.3 U		12	97	1.3 U	1.3 U
% SOLIDS		78	78		78		80.4	80.8

AREA	METHOD	QA	QA					
LOCATION		CONTINUING	CONTINUING	319 LANDF	SE 317 ARE	SE 317 ARE	319 LANDFI	319 LANDFI
TYPE OF LOCATION		CAL BLANK 1	CAL VERIF 1	STREAM	DRAINAGE	DRAINAGE	LANDFILL	LANDFILL
SAMPLE NUMBER		AR0812153	AR0812154	AR800050C	AR804010D	AR804021D	AR805011D	AR805022D
MATRIX		WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO				17	18	18	19	19
ARSENIC	F	2.4 U	29	12	10	11	10	12
CADMIUM	P			2.2 B	2.1 B	2.3 B	2.2 B	1.8 B
LEAD	F			53 N	32 N	36 N	34 N	31 N
SELENIUM	F			11 UN	4.9 UN	5.2 UN	4.8 UN	4.9 UN
SILVER	F			1.3 U	1.2 U	1.5 B	1.1 U	1.1 U
THALLIUM	F			1.6 U	1.4 U	1.5 U	1.4 U	1.4 U
% SOLIDS				65	73	69	75	74.2

TABLE D.2.31 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR800050C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA				QA	QA
LOCATION		CONTINUING	CONTINUING	319 LANDFI	UNDWRTRS P	UNDWRTRS P	LAB CONTROL	PREP
TYPE OF LOCATION		CAL BLANK 2	CAL VERIF 2	LANDFILL	POND	POND	SAMP-SOLID	BLANK
SAMPLE NUMBER		AR0812164	AR0812165	AR805033D	AR809015A	AR809026A	AR0812173	AR0812174
MATRIX		WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO				19	22	22		
ARSENIC	F	2.4 U	32	12	8.3 B	10 B	879	0.48 U
CADMIUM	P			2 B	4 B	8.1 B		
LEAD	F			23 N	68 N	76 N		
SELENIUM	F			5.1 UN	17 UN	40 UN		
SILVER	F			1.2 U	3.9 U	4.6 U		
THALLIUM	F			1.4 U	4.8 U	11 U		
% SOLIDS				70.4	21.4	18.2	100	

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	INITIAL CAL	INITIAL	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 3	CAL VERIF 3	BLANK	CALIBRATION	CAL BLANK 1	CAL VERIF 1	CAL BLANK 2
SAMPLE NUMBER		AR0812180	AR0812180	AR0815084	AR0815084	AR0815093	AR0815094	AR0815104
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								
ARSENIC	F	2.4 U	29					
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F			4.2 U	98	4.2 U	33	4.2 U
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	LAB CONTROL	PREP	CONTINUING	CONTINUING	INITIAL CAL	INITIAL
TYPE OF LOCATION		CAL VERIF 2	SAMP-SOLID	BLANK	CAL BLANK 3	CAL VERIF 3	BLANK	CALIBRATION
SAMPLE NUMBER		AR0815104	AR0815112	AR0815113	AR0815114	AR0815114	AR0825094	AR0825095
MATRIX		WATER	SOIL	SOIL	WATER	WATER	WATER	WATER
UNITS		UG/L	MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P							

TABLE D.2.31 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR800050C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL VERIF 2	LAB CONTROL SAMP-SOLID	PREP BLANK	CONTINUING CAL BLANK 3	CONTINUING CAL VERIF 3	INITIAL CAL BLANK	INITIAL CALIBRATION
TYPE OF LOCATION								
SAMPLE NUMBER		AR0815104	AR0815112	AR0815113	AR0815114	AR0815114	AR0825094	AR0825095
MATRIX		WATER	SOIL	SOIL	WATER	WATER	WATER	WATER
UNITS		UG/L	MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
LEAD	F						2.1 U	98
SELENIUM	F							
SILVER	F	32	28	0.84 U	4.2 U	32		
THALLIUM	F							
% SOLIDS			100					

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2	LAB CONTROL SAMP-SOLID	PREP BLANK	CONTINUING CAL BLANK 3
TYPE OF LOCATION								
SAMPLE NUMBER		AR0825111	AR0825111	AR0825123	AR0825124	AR0825133	AR0825134	AR0825135
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	UG/L
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P							
LEAD	F	2.1 U	30	2.1 U	30	241	0.42 U	2.1 U
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL VERIF 3	INITIAL CAL BLANK	INITIAL CALIBRATION	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2
TYPE OF LOCATION								
SAMPLE NUMBER		AR0825140	AR0829091	AR0829092	AR0829105	AR0829110	AR0829122	AR0829122
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								
ARSENIC	F							
CADMIUM	P							
LEAD	F	30						
SELENIUM	F		3.6 U	98	3.6 U	31	3.6 U	33

TABLE D.2.31 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR800050C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	INITIAL CAL	INITIAL	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 3	BLANK	CALIBRATION	CAL BLANK 1	CAL VERIF 1	CAL BLANK 2	CAL VERIF 2
SAMPLE NUMBER		AR0825140	AR0829091	AR0829092	AR0829105	AR0829110	AR0829122	AR0829122
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								
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA
LOCATION		LAB CONTROL	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION		SAMP-SOLID	BLANK	CAL BLANK 3	CAL VERIF 3
SAMPLE NUMBER		AR0829132	AR0829134	AR0829135	AR0829140
MATRIX		SOIL	SOIL	WATER	WATER
UNITS		MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO					
ARSENIC	F				
CADMIUM	P				
LEAD	F				
SELENIUM	F	41	0.72 U	3.6 U	32
SILVER	F				
THALLIUM	F				
% SOLIDS		100			

TABLE D.2.32 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR801017C

DRAFT DO NOT CITE

AREA	METHOD		QA	QA			QA	QA	QA
LOCATION			INITIAL CAL BLANK	INITIAL CALIBRATION	UNDWRTRS P POND	319 LDF-NW BACKGROUND	DUPLICATE	MATRIX SPIKE	MS % RECOVERY
TYPE OF LOCATION			AR0804125	AR0804130	AR809037A	AR802030E	AR802030E	AR802030E	AR802030E
SAMPLE NUMBER			WATER	WATER	SOIL	SOIL	SOIL	SOIL	
MATRIX			UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	%
UNITS					22	17	17	17	17
ENV PROBLEM NO									
ANTIMONY	F		18 U	1070	10 UN	5.1 UN	5.1 U	5.1 UN	0
% SOLIDS					35.4	69.4	69.4	69.4	

AREA	METHOD			QA	QA				
LOCATION			319 LDF-NW BACKGROUND	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1	570 WTP LAGOON	570 WTP LAGOON	570 WTP LAGOON	570 WTP LAGOON
TYPE OF LOCATION			AR802096E	AR0804140	AR0804141	AR806012D	AR806045D	AR806056D	AR806078D
SAMPLE NUMBER			SOIL	WATER	WATER	SOIL	SOIL	SOIL	SOIL
MATRIX			MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
UNITS			17			20	20	20	20
ENV PROBLEM NO									
ANTIMONY	F		4.4 UN	18 U	99	4.1 UN	4.5 UN	4.1 UN	4.5 UN
% SOLIDS			81.8			86.8	79.4	86.4	78.4

AREA	METHOD			QA	QA				
LOCATION			570 WTP LAGOON	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2	NIKE SITE DRAINS	NIKE SITE DRAINS	NIKE SITE DRAINS	317 AREA DRAINAGE
TYPE OF LOCATION			AR806089D	AR0804151	AR0804151	AR807057C	AR807068C	AR807079C	AR803031D
SAMPLE NUMBER			SOIL	WATER	WATER	SOIL	SOIL	SOIL	SOIL
MATRIX			MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG
UNITS			20			21	21	21	18
ENV PROBLEM NO									
ANTIMONY	F		4.9 UN	18 U	105	4.3 UN	4.4 UN	4.2 UN	4.3 UN
% SOLIDS			73.2			83.4	81.2	83.8	83.6

TABLE D.2.32 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR801017C

DRAFT DO NOT CITE

AREA	METHOD		QA	QA			QA	QA
LOCATION		317 AREA	CONTINUING	CONTINUING	BLDG 19/34	319 LNDF-S	LAB CONTROL	PREP
TYPE OF LOCATION		DRAINAGE	CAL BLANK 3	CAL VERIF 3	D&D	LANDFILL	SAMP-SOLID	BLANK
SAMPLE NUMBER		AR803064D	AR0804161	AR0804162	AR810018D	AR801017C	AR0804165	AR0804170
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		18			23	17		
ANTIMONY	F	4.4 UN	18 U	105	4.1 UN	5.5 UN	206	3.6 U
% SOLIDS		80.4			86.4	65.2	100	

AREA	METHOD	QA	QA
LOCATION		CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 4	CAL VERIF 4
SAMPLE NUMBER		AR0804171	AR0804172
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
ANTIMONY	F	18 U	107
% SOLIDS			

TABLE D.2.33 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR801028C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA		QA	QA	QA
LOCATION		ICP LINEAR RANGES	INITIAL CAL BLANK	INITIAL CALIBRATION	570 WTP LAGOON	DUPLICATE	DUPLICATE RPD	MATRIX SPIKE
TYPE OF LOCATION								
SAMPLE NUMBER		AR0408014	AR0617122	AR0617123	AR806034D	AR806034D	AR806034D	AR806034D
MATRIX		WATER	WATER	WATER	SOIL	SOIL		SOIL
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	%	MG/KG
ENV PROBLEM NO					20	20	20	20
ANTIMONY	F				19	20	4.2	29
ARSENIC	F		2.4 U	54	2.4 B	2.8 B	15	4 BN
CADMIUM	P	10000			31	34	11	38
LEAD	F				1.8 U	0.9 U		2.1 B
SELENIUM	F				3	2.8	6.9	7.7
SILVER	F				1.3 U	1.3 U		12
THALLIUM	F							
% SOLIDS					80.4	80.4		80.4

AREA	METHOD	QA			QA	QA		
LOCATION		MS % RECOVERY	BLDG 19/34 D&D	317 AREA DRAINAGE	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1	BLDG 19/34 D&D	317 AREA DRAINAGE
TYPE OF LOCATION								
SAMPLE NUMBER		AR806034D	AR810041D	AR803020D	AR0617133	AR0617133	AR810018D	AR803053D
MATRIX			SOIL	SOIL	WATER	WATER	SOIL	SOIL
UNITS		%	MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO		20	23	18			23	18
ANTIMONY	F							
ARSENIC	F	107	11	15	2.4 U	31	14	9.8
CADMIUM	P	133	3.2 B	2.5 B			5.3	2.8 B
LEAD	F	146	27	16			35	41
SELENIUM	F	84	1.7 U	1.6 U			1.7 U	1.7 U
SILVER	F	94	0.98 U	0.95 U			0.97 U	0.99 U
THALLIUM	F	100	1.2 U	1.2 U			1.2 U	1.2 U
% SOLIDS			85.4	88.6			86.4	84.8

TABLE D.2.33 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR801028C

DRAFT DO NOT CITE

AREA	METHOD			QA	QA			
LOCATION		319 LNDF-S	317 AREA	CONTINUING	CONTINUING	317 AREA	570 WTP	BLDG 19/34
TYPE OF LOCATION		LANDFILL	DRAINAGE	CAL BLANK 2	CAL VERIF 2	DRAINAGE	LAGOON	D&D
SAMPLE NUMBER		AR801039C	AR803031D	AR0617144	AR0617145	AR803019D	AR806056D	AR810052D
MATRIX		SOIL	SOIL	WATER	WATER	SOIL	SOIL	SOIL
UNITS		MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		17	18			18	20	23
ANTIMONY	F							
ARSENIC	F	11	9.7	2.4 U	32	7.9	15	11
CADMIUM	P	3.2 B	2.3 B			2 B	1.6 B	2.6 B
LEAD	F	25	15			15	31	23
SELENIUM	F	1.7 U	1.7 U			1.6 U	1.7 U	0.85 U
SILVER	F	1 U	1 U			0.95 U	0.97 U	0.99 U
THALLIUM	F	1.2 U	1.2 U			1.2 U	1.2 U	1.2 U
% SOLIDS		83	83.6			88.2	86.4	85

AREA	METHOD		QA	QA	QA	QA	QA	QA
LOCATION		570 WTP	CONTINUING	CONTINUING	PREP	LAB CONTROL	CONTINUING	CONTINUING
TYPE OF LOCATION		LAGOON	CAL BLANK 3	CAL VERIF 3	BLANK	SAMP-SOLID	CAL BLANK 4	CAL VERIF 4
SAMPLE NUMBER		AR806089D	AR0617160	AR0617161	AR0617162	AR0617163	AR0617164	AR0617165
MATRIX		SOIL	WATER	WATER	SOIL	SOIL	WATER	WATER
UNITS		MG/KG	UG/L	UG/L	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO		20						
ANTIMONY	F							
ARSENIC	F	26	2.4 U	32	0.48 U	706	2.4 U	31
CADMIUM	P	3.4 B						
LEAD	F	31						
SELENIUM	F	2 U						
SILVER	F	1.1 U						
THALLIUM	F	1.4 U						
% SOLIDS		73.2				100		

TABLE D.2.33 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR801028C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK 1	INITIAL CAL 1	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1	INITIAL CAL BLANK 2	INITIAL CAL 2	CONTINUING CAL BLANK 1
TYPE OF LOCATION		AR0620144	AR0620145	AR0620160	AR0620160	AR0621133	AR0621134	AR0621150
SAMPLE NUMBER		WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F	3.6 U	98	3.6 U	27	3.6 U	94	3.6 U
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL VERIF 1	CONTINUING CAL VERIF 2	CONTINUING CAL BLANK 2	INITIAL CAL BLANK 3	INITIAL CAL 3	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1
TYPE OF LOCATION		AR0621151	AR0621161	AR0621162	AR0622090	AR0622091	AR0622100	AR0622102
SAMPLE NUMBER		WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F	28	27	3.6 U	3.6 U	96	3.6 U	29
SILVER	F							
THALLIUM	F							
% SOLIDS								

TABLE D.2.33 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR801028C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK 4	INITIAL CAL 4	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1	PREP BLANK	LAB CONTROL SAMP-SOLID	CONTINUING CAL BLANK 2
TYPE OF LOCATION								
SAMPLE NUMBER		AR0622132	AR0622133	AR0622143	AR0622144	AR0622151	AR0622152	AR0622153
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	UG/L
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F	3.6 U	95	3.6 U	27	0.72 U	21	3.6 U
SILVER	F							
THALLIUM	F							
% SOLIDS							100	

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL VERIF 2	SERIAL DILUTION	SD % DIFFERENCE	LAB CONTROL SAMP-SOLID	PREP BLANK	INITIAL CALIBRATION	INITIAL CAL BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR0622153	AR806034D	AR806034D	AR0623014	AR0623014	AR0623097	AR0623097
MATRIX		WATER	SOIL		SOIL	SOIL	WATER	WATER
UNITS		UG/L	UG/L	%	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO			20	20				
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P		14 B	43	27	0.56 U	472	2.8 U
LEAD	F							
SELENIUM	F	28						
SILVER	F							
THALLIUM	F							
% SOLIDS					100			

TABLE D.2.33 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR801028C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CRDL STAND	ICP FIRST	ICP FIRST	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		INITIAL	INT CHECK A	INT CHECK AB	CAL VERIF 1	CAL BLANK 1	CAL VERIF 2	CAL BLANK 2
SAMPLE NUMBER		AR0623097	AR0623097	AR0623097	AR0623097	AR0623097	AR0623107	AR0623107
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	10 B	29	934	394	2.8 U	406	2.8 U
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 3	CAL BLANK 3	CAL VERIF 4	CAL BLANK 4	CAL VERIF 5	CAL BLANK 5	CAL VERIF 6
SAMPLE NUMBER		AR0623107	AR0623107	AR0623117	AR0623117	AR0623117	AR0623117	AR0623127
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	400	2.8 U	392	2.8 U	402	2.8 U	391
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

TABLE D.2.33 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR801028C DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 6	CAL VERIF 7	CAL BLANK 7	CAL VERIF 8	CAL BLANK 8	CAL VERIF 9	CAL BLANK 9
SAMPLE NUMBER		AR0623127	AR0623137	AR0623137	AR0623147	AR0623147	AR0623147	AR0623147
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	2.8 U	394	2.8 U	395	4.3 B	400	2.8 U
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CRDL STAND	ICP FINAL	ICP FINAL
TYPE OF LOCATION		CAL VERIF 10	CAL BLANK 10	CAL VERIF 11	CAL BLANK 11	FINAL	INT CHECK A	INT CHECK AB
SAMPLE NUMBER		AR0623157	AR0623157	AR0623157	AR0623157	AR0623157	AR0623157	AR0623157
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	402	2.8 U	401	2.8 U	10 B	28	923
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

TABLE D.2.33 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR801028C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	INITIAL CAL	INITIAL	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 12	CAL BLANK 12	BLANK	CALIBRATION	CAL BLANK 1	CAL VERIF 1	CAL BLANK 2
SAMPLE NUMBER		AR0623157	AR0623167	AR0627111	AR0627112	AR0627124	AR0627125	AR0627140
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	407	3.1 B					
LEAD	F			2.1 U	100	2.1 U	31	2.1 U
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	PREP	LAB CONTROL	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 2	CAL BLANK 3	CAL VERIF 3	BLANK	SAMP-SOLID	CAL BLANK 4	CAL VERIF 4
SAMPLE NUMBER		AR0627141	AR0627154	AR0627155	AR0627162	AR0627165	AR0627171	AR0627171
MATRIX		WATER	WATER	WATER	SOIL	SOIL	WATER	WATER
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	32	-3.7 B	32	0.42 U	164	2.1 U	33
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS						100		

TABLE D.2.33 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR801028C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL	LAB CONTROL	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		BLANK	CALIBRATION	SAMP-SOLID	CAL BLANK 1	CAL VERIF 1	CAL BLANK 2	CAL VERIF 2
SAMPLE NUMBER		AR0628091	AR0628092	AR0628092	AR0628100	AR0628100	AR0628110	AR0628110
MATRIX		WATER	WATER	SOIL	WATER	WATER	WATER	WATER
UNITS		UG/L	UG/L	MG/KG	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F	5.1 U	98	26	5.1 U	31	5.1 U	31
% SOLIDS				100				

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		PREP	CONTINUING	CONTINUING	INITIAL CAL	INITIAL	LAB CONTROL	CONTINUING
TYPE OF LOCATION		BLANK	CAL BLANK 3	CAL VERIF 3	BLANK	CALIBRATION	SAMP-SOLID	CAL BLANK 1
SAMPLE NUMBER		AR0628115	AR0628121	AR0628121	AR0629095	AR0629101	AR0629102	AR0629112
MATRIX		SOIL	WATER	WATER	WATER	WATER	SOIL	WATER
UNITS		MG/KG	UG/L	UG/L	UG/L	UG/L	MG/KG	UG/L
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F				4.2 U	106	16	4.2 U
THALLIUM	F	1 U	5.1 U	27				
% SOLIDS							100	

TABLE D.2.33 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR801028C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	PREP	CONTINUING	CONTINUING	INITIAL CAL
TYPE OF LOCATION		CAL VERIF 1	CAL BLANK 2	CAL VERIF 2	BLANK	CAL BLANK 3	CAL VERIF 3	BLANK
SAMPLE NUMBER		AR0629112	AR0629123	AR0629124	AR0629134	AR0629140	AR0629140	AR0705091
MATRIX		WATER	WATER	WATER	SOIL	WATER	WATER	WATER
UNITS		UG/L	UG/L	UG/L	MG/KG	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ANTIMONY	F							18 U
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F	31	4.2 U	32	0.84 U	4.2 U	32	
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA		QA	QA	QA		
LOCATION		INITIAL	BLDG 19/34	DUPLICATE	MATRIX	MS %	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION		CALIBRATION	D&D		SPIKE	RECOVERY	D&D	D&D
SAMPLE NUMBER		AR0705091	AR810030D	AR810030D	AR810030D	AR810030D	AR810063D	AR810074D
MATRIX		WATER	SOIL	SOIL	SOIL		SOIL	SOIL
UNITS		UG/L	MG/KG	MG/KG	MG/KG	%	MG/KG	MG/KG
ENV PROBLEM NO			23	23	23	23	23	23
ANTIMONY	F	1070	4.1 UN	4.1 U	4.1 UN	0	3.9 UN	4.1 UN
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS			87.8	87.8	87.8		90.6	86.2

TABLE D.2.33 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR801028C DRAFT DO NOT CITE

AREA	METHOD	QA	QA					QA
LOCATION		CONTINUING	CONTINUING	BLDG 19/34	BLDG 19/34	319 LNDF-S	319 LDF-NW	CONTINUING
TYPE OF LOCATION		CAL BLANK 1	CAL VERIF 1	D&D	D&D	LANDFILL	BACKGROUND	CAL BLANK 2
SAMPLE NUMBER		AR0705101	AR0705102	AR810085D	AR810096D	AR801028C	AR802041E	AR0705110
MATRIX		WATER	WATER	SOIL	SOIL	SOIL	SOIL	WATER
UNITS		UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	UG/L
ENV PROBLEM NO				23	23	17	17	
ANTIMONY	F	18 U	103	4.1 UN	4.2 UN	4.1 UN	4.5 UN	18 U
ARSENIC	F					13		
CADMIUM	P					6.9		
LEAD	F					135		
SELENIUM	F					0.83 U		
SILVER	F					2.6		
THALLIUM	F					1.2 U		
% SOLIDS				87.8	85.6	86.4	79.4	

AREA	METHOD	QA			QA	QA	QA	QA
LOCATION		CONTINUING	319 LDF-NW	SE 317 ARE	LAB CONTROL	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 2	BACKGROUND	DRAINAGE	SAMP-SOLID	BLANK	CAL BLANK 3	CAL VERIF 3
SAMPLE NUMBER		AR0705111	AR802052E	AR804010D	AR0705114	AR0705115	AR0705120	AR0705120
MATRIX		WATER	SOIL	SOIL	SOIL	SOIL	WATER	WATER
UNITS		UG/L	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO			17	18				
ANTIMONY	F	106	4.3 UN	4.9 UN	184	3.6 U	18 U	100
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS			82.8	73				

TABLE D.2.34 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802018E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		ICP LINEAR RANGES	LAB CONTROL SAMP-SOLID	PREP BLANK	SERIAL DILUTION	SD % DIFFERENCE	INITIAL CALIBRATION	INITIAL CAL BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR0408021	AR0620000	AR0620000	AR819017D	AR819017D	AR0620133	AR0620133
MATRIX		WATER	SOIL	SOIL	SOIL		WATER	WATER
UNITS		UG/L	MG/KG	MG/KG	UG/L	%	UG/L	UG/L
ENV PROBLEM NO					28	28		
ARSENIC	F	10000	46	0.56 U	14 U	100	477	2.8 U
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS			100					

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CRDL STAND INITIAL	ICP FIRST INT CHECK A	ICP FIRST INT CHECK AB	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 2	CONTINUING CAL BLANK 2
TYPE OF LOCATION								
SAMPLE NUMBER		AR0620133	AR0620134	AR0620134	AR0620134	AR0620134	AR0620141	AR0620141
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								
ARSENIC	F	12 B	32	934	397	2.8 U	396	2.8 U
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL VERIF 3	CONTINUING CAL BLANK 3	CRDL STAND FINAL	ICP FINAL INT CHECK A	ICP FINAL INT CHECK AB	CONTINUING CAL VERIF 4	CONTINUING CAL BLANK 4
TYPE OF LOCATION								
SAMPLE NUMBER		AR0620144	AR0620144	AR0620144	AR0620145	AR0620145	AR0620145	AR0620145
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								
ARSENIC	F	394	2.8 U	8 B	31	941	391	2.8 U
CADMIUM	P							

TABLE D.2.34 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802018E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CRDL STAND	ICP FINAL	ICP FINAL	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 3	CAL BLANK 3	FINAL	INT CHECK A	INT CHECK AB	CAL VERIF 4	CAL BLANK 4
SAMPLE NUMBER		AR0620144	AR0620144	AR0620144	AR0620145	AR0620145	AR0620145	AR0620145
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								
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL	CONTINUING	CONTINUING	LAB CONTROL	PREP	CONTINUING
TYPE OF LOCATION		BLANK 2	CAL 2	CAL BLANK 1	CAL VERIF 1	SAMP-SOLID	BLANK	CAL BLANK 2
SAMPLE NUMBER		AR0810140	AR0810141	AR0810151	AR0810152	AR0810160	AR0810161	AR0810162
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	UG/L
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F	5.1 U	93	5.1 U	30	35	1 U	5.1 U
% SOLIDS						100		

AREA	METHOD	QA	QA	QA		QA	QA	QA
LOCATION		CONTINUING	INITIAL CAL	INITIAL	PLOT M	DUPLICATE	DUPLICATE	MATRIX
TYPE OF LOCATION		CAL VERIF 2	BLANK	CALIBRATION	SEEP		RPD	SPIKE
SAMPLE NUMBER		AR0810162	AR0811085	AR0811085	AR819017D	AR819017D	AR819017D	AR819017D
MATRIX		WATER	WATER	WATER	SOIL	SOIL		SOIL
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	%	MG/KG
ENV PROBLEM NO					28	28	28	28
ARSENIC	F		2.4 U	53	9.5 N	9.7	2.1	28 N
CADMIUM	P				3 B	3 B	0	4.2 B
LEAD	F				39	37	5.5	46
SELENIUM	F				5.2 UN	5.2 U		5.2 UN

TABLE D.2.34 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802018E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA		QA	QA	QA
LOCATION		CONTINUING CAL VERIF 2	INITIAL CAL BLANK	INITIAL CALIBRATION	PLOT M SEEP	DUPLICATE	DUPLICATE RPD	MATRIX SPIKE
TYPE OF LOCATION								
SAMPLE NUMBER		AR0810162	AR0811085	AR0811085	AR819017D	AR819017D	AR819017D	AR819017D
MATRIX		WATER	WATER	WATER	SOIL	SOIL		SOIL
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	%	MG/KG
ENV PROBLEM NO					28	28	28	28
SILVER	F				1.2 U	1.2 U		5.3
THALLIUM	F	29			1.5 U	1.5 U		14
% SOLIDS					68.6	68.6		68.6

AREA	METHOD	QA				QA	QA	
LOCATION		MS % RECOVERY	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1	319 LDF-NW BACKGROUND
TYPE OF LOCATION								
SAMPLE NUMBER		AR819017D	AR802018E	AR802029E	AR802030E	AR0811101	AR0811102	AR802063E
MATRIX			SOIL	SOIL	SOIL	WATER	WATER	SOIL
UNITS		%	MG/KG	MG/KG	MG/KG	UG/L	UG/L	MG/KG
ENV PROBLEM NO		28	17	17	17			17
ARSENIC	F	159	6.7 N	8.6 N	7.1 N	2.4 U	32	5.8 N
CADMIUM	P	80	2.3 B	2.3 B	2.2 B			4.3 B
LEAD	F	109	31	36	39			29
SELENIUM	F	179	5.2 UN	4.9 UN	5.2 UN			4.5 UN
SILVER	F	91	1.2 U	1.1 U	1.2 U			1.1 U
THALLIUM	F	97	1.5 U	1.4 U	1.5 U			1.3 U
% SOLIDS			69.6	73.4	69.4			79.4

AREA	METHOD				QA	QA	QA	QA
LOCATION		319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	LAB CONTROL SAMP-SOLID	PREP BLANK	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2
TYPE OF LOCATION								
SAMPLE NUMBER		AR802074E	AR802085E	AR802096E	AR0811111	AR0811113	AR0811114	AR0811115
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO		17	17	17				
ARSENIC	F	12 N	10 N	12 N	1040	0.48 U	2.4 U	28
CADMIUM	P	3.4 B	3.6 B	3 B				
LEAD	F	25	23	27				
SELENIUM	F	4.4 UN	4.3 UN	4.4 UN				
SILVER	F	1 U	0.99 U	1 U				
THALLIUM	F	1.2 U	1.2 U	1.2 U				

TABLE D.2.34 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802018E

DRAFT DO NOT CITE

AREA	METHOD				QA	QA	QA	QA
LOCATION		319 LDF-NW	319 LDF-NW	319 LDF-NW	LAB CONTROL	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION		BACKGROUND	BACKGROUND	BACKGROUND	SAMP-SOLID	BLANK	CAL BLANK 2	CAL VERIF 2
SAMPLE NUMBER		AR802074E	AR802085E	AR802096E	AR0811111	AR0811113	AR0811114	AR0811115
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO		17	17	17				
% SOLIDS		82.4	84.6	81.8	100			

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL	CONTINUING	CONTINUING	INITIAL CAL	INITIAL	CONTINUING
TYPE OF LOCATION		BLANK 2	CAL 2	CAL BLANK 1	CAL VERIF 1	BLANK	CALIBRATION	CAL BLANK 1
SAMPLE NUMBER		AR0811142	AR0811143	AR0811153	AR0811154	AR0819131	AR0819131	AR0819142
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								
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F					4.2 U	98	4.2 U
THALLIUM	F	5.1 U	93	5.1 U	31			
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	LAB CONTROL	PREP	CONTINUING	CONTINUING	INITIAL CAL	INITIAL
TYPE OF LOCATION		CAL VERIF 1	SAMP-SOLID	BLANK	CAL BLANK 2	CAL VERIF 2	BLANK	CALIBRATION
SAMPLE NUMBER		AR0819142	AR0819151	AR0819152	AR0819153	AR0819154	AR0826083	AR0826085
MATRIX		WATER	SOIL	SOIL	WATER	WATER	WATER	WATER
UNITS		UG/L	MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P							
LEAD	F						2.1 U	99
SELENIUM	F							
SILVER	F	31	26	0.84 U	4.2 U	32		
THALLIUM	F							
% SOLIDS			100					

TABLE D.2.34 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802018E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	LAB CONTROL	PREP	CONTINUING	CONTINUING	INITIAL CAL
TYPE OF LOCATION		CAL BLANK 1	CAL VERIF 1	SAMP-SOLID	BLANK	CAL BLANK 2	CAL VERIF 2	BLANK
SAMPLE NUMBER		AR0826101	AR0826102	AR0826114	AR0826115	AR0826120	AR0826121	AR0831085
MATRIX		WATER	WATER	SOIL	SOIL	WATER	WATER	WATER
UNITS		UG/L	UG/L	MG/KG	MG/KG	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P							
LEAD	F	2.1 U	31	249	0.42 U	2.1 U	30	
SELENIUM	F							3.6 U
SILVER	F							
THALLIUM	F							
% SOLIDS				100				

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL	CONTINUING	CONTINUING	CONTINUING	CONTINUING	LAB CONTROL	PREP
TYPE OF LOCATION		CALIBRATION	CAL BLANK 1	CAL VERIF 1	CAL BLANK 2	CAL VERIF 2	SAMP-SOLID	BLANK
SAMPLE NUMBER		AR0831090	AR0831104	AR0831105	AR0831114	AR0831114	AR0831121	AR0831123
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F	98	3.6 U	28	3.6 U	29	35	0.72 U
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA
LOCATION		CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 3	CAL VERIF 3
SAMPLE NUMBER		AR0831124	AR0831124
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
ARSENIC	F		
CADMIUM	P		

TABLE D.2.34 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802018E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA
LOCATION		CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 3	CAL VERIF 3
SAMPLE NUMBER		AR0831124	AR0831124
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
LEAD	F		
SELENIUM	F	3.6 U	29
SILVER	F		
THALLIUM	F		
% SOLIDS			

TABLE D.2.35 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802085F

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INTER CHK	INTER CHK	INITIAL CAL	INITIAL CAL	INITIAL CAL	LAB CONTROL	CRDL STAND
TYPE OF LOCATION		SOL. A TRUE	SOL. AB TRUE	TRUE A	TRUE B	TRUE C	SAMPLE TRUE	TRUE
SAMPLE NUMBER		ARICS1338	ARICS1346	ARICV1376	ARICV1394	ARICV1410	ARLCS1487	ARLRA1513
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	UG/L
ENV PROBLEM NO								
ALUMINUM	P	511000	508000	100000	990		15200	
ANTIMONY	P				1000		20 U	120
ARSENIC	P				1000		680	500
BARIUM	P		483		990		430	
BERYLLIUM	P		474		241		1 U	10
CADMIUM	P		909		244		1 U	10
CALCIUM	P	476000	470000		24900	5000	10500	
CHROMIUM	P		513		253		17	20
COBALT	P		478		237		6.9	100
COPPER	P		534		277		265	50
IRON	P	219000	211000	100000	995		11200	
LEAD	P		4850		2260		5830	500
MAGNESIUM	P	513000	513000	50000		5000	14700	
MANGANESE	P		470	50000	257		91700	30
NICKEL	P		916		248		22	80
SELENIUM	P				1000		1 U	500
SILVER	P		934		255		2 U	20
SODIUM	P			100000		5000	3730	
VANADIUM	P		475		255		18	100
ZINC	P		973		1550		425	40
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND A	FOUND B	FOUND C	BLANK	INITIAL
SAMPLE NUMBER		ARRAN1565	ARRAN1573	ARICV1360	ARICV1386	ARICV1402	ARICB1296	ARLRA1505
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								
ALUMINUM	P	10000	800000	98700	1190		60 U	
ANTIMONY	P	10000			992		50 U	120
ARSENIC	P	20000			1070		60 U	527
BARIUM	P	5000			990		2 U	
BERYLLIUM	P	1500			247		0.3 U	9.9
CADMIUM	P	5000			249		2 U	9.7
CALCIUM	P	10000	900000		25200	5220	200 U	

TABLE D.2.35 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802085F

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND A	FOUND B	FOUND C	BLANK	INITIAL
SAMPLE NUMBER		ARRAN1565	ARRAN1573	ARICV1360	ARICV1386	ARICV1402	ARICB1296	ARLRA1505
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								
CHROMIUM	P	10000			255		6 U	21
COBALT	P	10000			245		3 U	100
COPPER	P	10000			269		10 U	53
IRON	P	12000	800000	98800	969		20 U	
LEAD	P	50000			2170		50 U	509
MAGNESIUM	P	12000	500000	46200		5050	10 U	
MANGANESE	P	2000	200000	48800	252		5 U	30
NICKEL	P	15000			240		6 U	81
SELENIUM	P	10000			995		60 U	498
SILVER	P	10000			253		6 U	19
SODIUM	P	10000	900000	99000		4920 B	200 U	
VANADIUM	P	10000			272		4 U	104
ZINC	P	6000			1510		7 U	43
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	SE 317 ARE	SE 317 ARE
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	DRAINAGE	DRAINAGE
SAMPLE NUMBER		ARICS1322	ARICS1330	ARPB01551	ARPB01552	ARLCS1470	AR804032E	AR804021E
MATRIX		WATER	WATER	WATER	WATER	SOIL	SEDIM	SEDIM
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO							18	18
ALUMINUM	P	504000	506000	60 U	60 U	17200	8230	11400
ANTIMONY	P			50 U	50 U	9.5 U	9.7 UN	10 UN
ARSENIC	P			60 U	60 U	675	12 U	12 U
BARIUM	P	13 B	448	2.4 B	4.4 B	416	50 E	67 E
BERYLLIUM	P	3.9 B	448	0.3 U	0.3 U	1.3	1.1	1.2
CADMIUM	P	16	831	2 U	2 U	0.98	1.6	2.1
CALCIUM	P	475000	477000	200 U	200 U	10100	93800	61500
CHROMIUM	P	18	445	6 U	6 U	3.4	12	20
COBALT	P	6.8 B	423	3 U	3 U	6.1	8.3 B	9.6 B
COPPER	P	10 U	494	10 U	10 U	261	23	32
IRON	P	210000	211000	20 U	20 U	12900	18700	24200
LEAD	P	50 U	4340	50 U	50 U	5410	22 B	39 B
MAGNESIUM	P	512000	512000	10 U	10 U	15700	57600	37600
MANGANESE	P	5 U	430	5 U	5 U	92500	713	619

TABLE D.2.35 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802085F DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	SE 317 ARE	SE 317 ARE
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	DRAINAGE	DRAINAGE
SAMPLE NUMBER		ARICS1322	ARICS1330	ARPB01551	ARPB01552	ARLCS1470	AR804032E	AR804021E
MATRIX		WATER	WATER	WATER	WATER	SOIL	SEDIM	SEDIM
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO							18	18
NICKEL	P	12 B	799	6 U	6 U	20	20	25
SELENIUM	P			60 U	60 U	11 U	12 UN	12 UN
SILVER	P	7.9 B	952	6 U	6 U	1.1 U	2.4	3.3
SODIUM	P			200 U	200 U	4630	437 B	357 B
VANADIUM	P	4 U	462	4 U	4 U	20	17	25
ZINC	P	7 U	905	7 U	7 U	423	100	134
% SOLIDS							71.6	69.2

AREA	METHOD		QA	QA	QA	QA		
LOCATION		SE 317 ARE	CONTINUING	CONTINUING	CONTINUING	CONTINUING	319 LANDFI	319 LANDFI
TYPE OF LOCATION		DRAINAGE	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	LANDFILL	LANDFILL
SAMPLE NUMBER		AR804010E	ARCCV1125	ARCCV1164	ARCCV1198	ARCCB1057	AR805033E	AR805022E
MATRIX		SEDIM	WATER	WATER	WATER	WATER	SEDIM	SEDIM
UNITS		MG/KG	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO		18					19	19
ALUMINUM	P	14000	101000	1180		60 U	14000	11000
ANTIMONY	P	10 UN		991		50 U	9.5 UN	9.2 UN
ARSENIC	P	12 U		1060		60 U	11 U	11 U
BARIUM	P	105 E		980		2 U	283 E	130 E
BERYLLIUM	P	1.3		249		0.3 U	1.3	1.1
CADMIUM	P	2		244		2 U	2	1.8
CALCIUM	P	70600		25200	4880 B	200 U	66600	68700
CHROMIUM	P	16		258		6 U	20	15
COBALT	P	8.6 B		248		3 U	12	12
COPPER	P	32		271		10 U	30	28
IRON	P	30900	101000	984		20 U	25100	24000
LEAD	P	29 B		2200		50 U	20 B	27 B
MAGNESIUM	P	42600	47000		5130	10 U	40600	41200
MANGANESE	P	1240	48800	255		5 U	747	903
NICKEL	P	27		237		6 U	28	28
SELENIUM	P	12 UN		1010		60 U	11 UN	11 UN
SILVER	P	2.2		268		6 U	1.7 B	2
SODIUM	P	367 B	106000		4830 B	200 U	1740	777 B
VANADIUM	P	32		281		4 U	29	27
ZINC	P	91		1530		7 U	86	81
% SOLIDS		70.2					70.7	76.8

TABLE D.2.35 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802085F

DRAFT DO NOT CITE

AREA	METHOD							
LOCATION		319 LANDFI	PLOT M	PLOT M	PLOT M	UNDWRTRS P	UNDWRTRS P	UNDWRTRS P
TYPE OF LOCATION		LANDFILL	SEEP	SEEP	SEEP	POND	POND	POND
SAMPLE NUMBER		AR805011E	AR819039E	AR819028E	AR819017E	AR809015B	AR809026B	AR809037B
MATRIX		SEDIM	SEDIM	SEDIM	SEDIM	SEDIM	SEDIM	SEDIM
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		19	28	28	28	22	22	22
ALUMINUM	P	10400	9430	10200	8330	5640	10400	10600
ANTIMONY	P	8.9 UN	9.8 UN	9.3 UN	9.6 UN	29 UN	27 UN	21 UN
ARSENIC	P	11 U	12 U	11 U	12 U	34 U	33 U	26 U
BARIUM	P	73 E	82 E	136 E	68 E	64 BE	76 BE	68 BE
BERYLLIUM	P	1	1.1	1.1	0.89 B	1.2 B	1.3 B	1.2 B
CADMIUM	P	1.9	1.5	2	1.4	1.8 B	2 B	1.7 B
CALCIUM	P	49100	15100	11700	10200	53300	29800	16300
CHROMIUM	P	16	13	14	12	11	17	18
COBALT	P	11	14	19	11	7.7 B	8.9 B	9.9 B
COPPER	P	35	23	25	21	26	34	31
IRON	P	23400	21500	23500	19300	22800	25700	21500
LEAD	P	32 B	38 B	44	34 B	48 B	53 B	42 B
MAGNESIUM	P	27400	9450	8040	6940	28900	12600	10600
MANGANESE	P	550	1140	1980	640	162	184	209
NICKEL	P	27	24	29	22	17 B	23	24
SELENIUM	P	11 UN	12 UN	11 UN	12 UN	34 UN	33 UN	26 UN
SILVER	P	1.7 B	1.7 B	1.4 B	1.4 B	3.4 U	3.3 U	2.6 U
SODIUM	P	464 B	142 B	144 B	131 B	306 B	248 B	196 B
VANADIUM	P	25	27	30	23	24 B	32	33
ZINC	P	108	92	117	82	124	121	103
% SOLIDS		73.2	71	73.8	71.8	23.2	26.6	36.4

AREA	METHOD	QA	QA	QA	QA			QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	319 LDF-NW	319 LDF-NW	SERIAL
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	BACKGROUND	BACKGROUND	DILUTION
SAMPLE NUMBER		ARCCV1126	ARCCV1165	ARCCV1199	ARCCB1058	AR802096F	AR802085F	AR802085F
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO						17	17	17
ALUMINUM	P	100000	1170		60 U	19000	21400	21300
ANTIMONY	P		976		50 U	8.3 UN	8.2 UN	41 U
ARSENIC	P		1050		60 U	10 U	9.8 U	49 U
BARIUM	P		968		2 U	92 E	72 E	82
BERYLLIUM	P		247		0.3 U	1.1	1.1	0.8 B
CADMIUM	P		240		2 U	1.6	1.7	4.2
CALCIUM	P		24600	4790 B	200 U	1620	1600	1650

TABLE D.2.35 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802085F

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA			QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	319 LDF-NW	319 LDF-NW	SERIAL
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	BACKGROUND	BACKGROUND	DILUTION
SAMPLE NUMBER		ARCCV1126	ARCCV1165	ARCCV1199	ARCCB1058	AR802096F	AR802085F	AR802085F
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO						17	17	17
CHROMIUM	P		257		6 U	23	26	29
COBALT	P		246		3 U	15	12	13
COPPER	P		271		10 U	26	31	31
IRON	P	99900	977		20 U	31700	34800	36000
LEAD	P		2190		50 U	24 B	20 B	41 U
MAGNESIUM	P	46600		5170	10 U	4520	5180	5390
MANGANESE	P	47800	252		5 U	581	469	445
NICKEL	P		234		6 U	29	30	38
SELENIUM	P		990		60 U	10 UN	9.8 UN	49 U
SILVER	P		271		6 U	1 U	0.98 U	4.9 U
SODIUM	P	105000		4870 B	200 U	129 B	145 B	164 U
VANADIUM	P		284		4 U	42	48	53
ZINC	P		1530		7 U	83	82	78
% SOLIDS						80.9	81	81

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		SD %	DUPLICATE	DUPLICATE	MATRIX	MS %	SITE A	SITE A
TYPE OF LOCATION		DIFFERENCE		RPD	SPIKE	RECOVERY	SITE A	SITE A
SAMPLE NUMBER		AR802085F	AR802085F	AR802085F	AR802085F	AR802085F	AR813011A	AR813022A
MATRIX			SOIL		SOIL		SOIL	SOIL
UNITS		%	MG/KG	%	MG/KG	%	MG/KG	MG/KG
ENV PROBLEM NO		17	17	17	17	17	25	25
ALUMINUM	P	0.47	18700	13	19000			
ANTIMONY	P		8.4 U		11	13		
ARSENIC	P		10 U		14 B	82		
BARIUM	P	14	71	1	385	94		
BERYLLIUM	P		0.93	0.17	9	95		
CADMIUM	P		1.6	0.1	8.9	87		
CALCIUM	P	3.1	1540	60	1570			
CHROMIUM	P		22	12	59	100		
COBALT	P		14	2	93	98		
COPPER	P		28	10	68	88		
IRON	P	3.4	32200	7.8	32700			
LEAD	P		23 B		101	98	141	75
MAGNESIUM	P	4.1	4670	10	4860			
MANGANESE	P	5.1	498	6	541	87		

TABLE D.2.35 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802085F

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		SD % DIFFERENCE	DUPLICATE	DUPLICATE RPD	MATRIX SPIKE	MS % RECOVERY	SITE A SITE A	SITE A SITE A
TYPE OF LOCATION								
SAMPLE NUMBER		AR802085F	AR802085F	AR802085F	AR802085F	AR802085F	AR813011A	AR813022A
MATRIX			SOIL		SOIL		SOIL	SOIL
UNITS		%	MG/KG	%	MG/KG	%	MG/KG	MG/KG
ENV PROBLEM NO		17	17	17	17	17	25	25
NICKEL	P		28	2	105	90		
SELENIUM	P		10 U		55 B	66		
SILVER	P		1 U		9.6	116		
SODIUM	P		136 B		113 B			
VANADIUM	P	10	43	11	128	96		
ZINC	P	3.7	74	9	156	90		
% SOLIDS			81		81		80.2	80

AREA	METHOD				QA	QA	QA	QA
LOCATION		SITE A SITE A	SITE A SITE A	SITE A SITE A	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK
TYPE OF LOCATION								
SAMPLE NUMBER		AR813033A	AR813044A	AR813055A	ARCCV1127	ARCCV1166	ARCCV1200	ARCCB1059
MATRIX		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		25	25	25				
ALUMINUM	P				102000	1200		60 U
ANTIMONY	P					973		50 U
ARSENIC	P					1060		60 U
BARIUM	P					960		2 U
BERYLLIUM	P					247		0.3 U
CADMIUM	P					238		2 U
CALCIUM	P					24500	4690 B	200 U
CHROMIUM	P					258		6 U
COBALT	P					246		3 U
COPPER	P					271		10 U
IRON	P				99900	984		20 U
LEAD	P	22 B	20 B	15 B		2220		50 U
MAGNESIUM	P				46800		5200	10 U
MANGANESE	P				47400	253		5 U
NICKEL	P					232		6 U
SELENIUM	P					972		60 U
SILVER	P					276		6 U
SODIUM	P				106000		4900 B	200 U
VANADIUM	P					287		4 U
ZINC	P					1550		7 U
% SOLIDS		82.5	84.4	88				

TABLE D.2.35 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802085F

DRAFT DO NOT CITE

AREA	METHOD		QA	QA	QA	QA	QA	QA
LOCATION		SITE A	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CRDL STAND	INTER CHK
TYPE OF LOCATION		SITE A	CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	FINAL	SOL. A FINAL
SAMPLE NUMBER		AR813066A	ARCCV1128	ARCCV1167	ARCCV1201	ARCCB1060	ARLRA1497	ARICS1306
MATRIX		SOIL	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		MG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		25						
ALUMINUM	P		101000	1150		60 U		505000
ANTIMONY	P			971		50 U	119	
ARSENIC	P			1060		60 U	512	
BARIUM	P			961		2 U		13 B
BERYLLIUM	P			247		0.3 U	9.8	3.7 B
CADMIUM	P			237		2 U	8.8	15
CALCIUM	P			24500	4690 B	200 U		472000
CHROMIUM	P			259		6 U	21	18
COBALT	P			248		3 U	100	6.9 B
COPPER	P			270		10 U	50	10 U
IRON	P		99800	979		20 U		210000
LEAD	P	12 B		2210		50 U	507	50 U
MAGNESIUM	P		46400		5160	10 U		507000
MANGANESE	P		46900	252		5 U	30	5 U
NICKEL	P			231		6 U	77	11 B
SELENIUM	P			963		60 U	485	
SILVER	P			275		6 U	18	7.6 B
SODIUM	P		106000		4810 B	200 U		
VANADIUM	P			285		4 U	106	4 U
ZINC	P			1540		7 U	23	7 U
% SOLIDS		86.6						

AREA	METHOD	QA
LOCATION		INTER CHK
TYPE OF LOCATION		SOL. AB FINA
SAMPLE NUMBER		ARICS1314
MATRIX		WATER
UNITS		UG/L
ENV PROBLEM NO		
ALUMINUM	P	503000
ANTIMONY	P	
ARSENIC	P	
BARIUM	P	435
BERYLLIUM	P	447
CADMIUM	P	792
CALCIUM	P	472000

TABLE D.2.35 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802085F

DRAFT DO NOT CITE

AREA	METHOD	QA
LOCATION		INTER CHK
TYPE OF LOCATION		SOL. AB FINA
SAMPLE NUMBER		ARICS1314
MATRIX		WATER
UNITS		UG/L
ENV PROBLEM NO		
CHROMIUM	P	447
COBALT	P	424
COPPER	P	491
IRON	P	210000
LEAD	P	4400
MAGNESIUM	P	505000
MANGANESE	P	428
NICKEL	P	771
SELENIUM	P	
SILVER	P	1010
SODIUM	P	
VANADIUM	P	478
ZINC	P	917
% SOLIDS		

TABLE D.2.36 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802085K

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		INITIAL CAL	LAB CONTROL	PREP	PREP	LAB CONTROL	SE 317 ARE	SE 317 ARE
TYPE OF LOCATION		TRUE A	SAMPLE TRUE	BLANK	BLANK	SAMPLE	DRAINAGE	DRAINAGE
SAMPLE NUMBER		ARICV1377	ARLCS1488	ARPB01553	ARPB01554	ARLCS1471	AR804032E	AR804021E
MATRIX		WATER	SOIL	WATER	WATER	SOIL	SEDIM	SEDIM
UNITS		UG/L	MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO							18	18
POTASSIUM	FE	1000 B	8150	100 U	100 U	9700	1700	1900
% SOLIDS							71.6	69.2

AREA	METHOD				QA	QA		
LOCATION		SE 317 ARE	319 LANDFI	319 LANDFI	INITIAL CAL	INITIAL CAL	319 LANDFI	PLOT M
TYPE OF LOCATION		DRAINAGE	LANDFILL	LANDFILL	BLANK	FOUND A	LANDFILL	SEEP
SAMPLE NUMBER		AR804010E	AR805033E	AR805022E	ARICB1297	ARICV1361	AR805011E	AR819039E
MATRIX		SEDIM	SEDIM	SEDIM	WATER	WATER	SEDIM	SEDIM
UNITS		MG/KG	MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO		18	19	19			19	28
POTASSIUM	FE	2600	3200	2800	100 U	1000 B	2300	1600
% SOLIDS		70.2	70.7	76.8			73.2	71

AREA	METHOD						QA	QA
LOCATION		PLOT M	PLOT M	UNDWRTRS P	UNDWRTRS P	UNDWRTRS P	CONTINUING	CONTINUING
TYPE OF LOCATION		SEEP	SEEP	POND	POND	POND	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR819028E	AR819017E	AR809015B	AR809026B	AR809037B	ARCCB1061	ARCCV1129
MATRIX		SEDIM	SEDIM	SEDIM	SEDIM	SEDIM	WATER	WATER
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO		28	28	22	22	22		
POTASSIUM	FE	1800	1300	1200 B	2200 B	2400	100 U	1000 B
% SOLIDS		73.8	71.8	23.2	26.6	36.4		

TABLE D.2.36 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR802085K

DRAFT DO NOT CITE

AREA	METHOD			QA	QA		QA	QA
LOCATION		319 LDF-NW	319 LDF-NW	DUPLICATE	DUPLICATE	SITE A	CONTINUING	CONTINUING
TYPE OF LOCATION		BACKGROUND	BACKGROUND		RPD	SITE A	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR802096F	AR802085F	AR802085F	AR802085F	AR813011A	ARCCB1062	ARCCV1130
MATRIX		SOIL	SOIL	SOIL		SOIL	WATER	WATER
UNITS		MG/KG	MG/KG	MG/KG	%	MG/KG	UG/L	UG/L
ENV PROBLEM NO		17	17	17	17	25		
POTASSIUM	FE	2400	3000	2200	800	1600	100 U	1000 B
% SOLIDS		80.9	81	81		80.2		

AREA	METHOD						QA	QA
LOCATION		SITE A	SITE A	SITE A	SITE A	SITE A	CONTINUING	CONTINUING
TYPE OF LOCATION		SITE A	SITE A	SITE A	SITE A	SITE A	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR813022A	AR813033A	AR813044A	AR813055A	AR813066A	ARCCB1063	ARCCV1131
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO		25	25	25	25	25		
POTASSIUM	FE	2600	1600	2500	2300	2100	100 U	1000 B
% SOLIDS		80	82.5	84.4	88	86.6		

TABLE D.2.37 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR803019D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK 1	INITIAL CAL TRUE A	INITIAL CAL FOUND A	CONTINUING CAL BLANK	CONTINUING CAL FOUND	LAB CONTROL SAMPLE TRUE	LAB CONTROL SAMPLE
TYPE OF LOCATION		AR03A0013	AR2AA1013	AR2AA2013	AR03A1013	AR2AA4013	AR0700113	AR0700113
SAMPLE NUMBER		SOIL			SOIL		SOIL	SOIL
MATRIX		MG/KG	UG/L	UG/L	MG/KG	UG/L	MG/KG	MG/KG
UNITS								
ENV PROBLEM NO								
MERCURY	CV	0.01 U	10	9.7	0.01 U	10	19	19
% SOLIDS								

AREA	METHOD				QA	QA	QA	QA
LOCATION		317 AREA DRAINAGE	317 AREA DRAINAGE	317 AREA DRAINAGE	DUPLICATE	DUPLICATE RPD	CONTINUING CAL BLANK	CONTINUING CAL FOUND
TYPE OF LOCATION		AR803019D	AR803020D	AR803031D	AR803031D	AR803031D	AR03A2013	AR2AA5013
SAMPLE NUMBER		SOIL	SOIL	SOIL	SOIL		SOIL	
MATRIX		MG/KG	MG/KG	MG/KG	MG/KG	%	MG/KG	UG/L
UNITS		18	18	18	18	18		
ENV PROBLEM NO								
MERCURY	CV	0.1	0.04 B	0.12	0.09	29	0.01 U	10
% SOLIDS		86	85.4	82.8	82.8			

AREA	METHOD	QA	QA					QA
LOCATION		MATRIX SPIKE	MS % RECOVERY	317 AREA DRAINAGE	317 AREA DRAINAGE	SAWMILL CR BACKGROUND	SAWMILL CR BACKGROUND	CONTINUING CAL BLANK
TYPE OF LOCATION		AR803031D	AR803031D	AR803053D	AR803064D	AR302035D	AR302024D	AR03A3013
SAMPLE NUMBER		SOIL		SOIL	SOIL	SOIL	SOIL	SOIL
MATRIX		MG/KG	%	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
UNITS		18	18	18	18	2	2	
ENV PROBLEM NO								
MERCURY	CV	0.48	124	0.03 B	0.06	0.05 B	0.04 B	0.01 U
% SOLIDS				85.3	79	78.7	72.2	

TABLE D.2.37 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR803019D DRAFT DO NOT CITE

AREA	METHOD	QA					QA	QA
LOCATION		CONTINUING	SAWMILL CR	SE 317 ARE	SE 317 ARE	SE 317 ARE	PREP	CONTINUING
TYPE OF LOCATION		CAL FOUND	BACKGROUND	DRAINAGE	DRAINAGE	DRAINAGE	BLANK	CAL BLANK
SAMPLE NUMBER		AR2AB4013	AR302013D	AR804032D	AR804021D	AR804010D	AR03A0013	AR03B4011
MATRIX			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS		UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO			2	18	18	18		
MERCURY	CV	10	0.08 B	0.13	0.11	0.08	0.002 U	0.01 U
% SOLIDS			56.6	73.7	73.9	73.3		

AREA	METHOD	QA
LOCATION		CONTINUING
TYPE OF LOCATION		CAL FOUND
SAMPLE NUMBER		AR2AB5013
MATRIX		
UNITS		UG/L
ENV PROBLEM NO		
MERCURY	CV	9.8
% SOLIDS		

TABLE D.2.38 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR803019E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INTER CHK	INTER CHK	INITIAL CAL	INITIAL CAL	INITIAL CAL	LAB CONTROL	CRDL STAND
TYPE OF LOCATION		SOL. A TRUE	SOL. AB TRUE	TRUE A	TRUE B	TRUE C	SAMPLE TRUE	TRUE
SAMPLE NUMBER		ARICS1339	ARICS1347	ARICV1378	ARICV1395	ARICV1411	ARLCS1489	ARLRA1514
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	UG/L
ENV PROBLEM NO								
ALUMINUM	P	502000	508000	100000	1000		15200	
ANTIMONY	P				1000		20 U	120
ARSENIC	P		483		1000		680	500
BARIUM	P		474		990		430	
BERYLLIUM	P		909		241		1 U	10
CADMIUM	P	506000	516000		245		1 U	10
CALCIUM	P		513		24900	5000	10500	
CHROMIUM	P		478		253		17	20
COBALT	P		534		237		6.9	100
COPPER	P	196000	203000	100000	271		265	50
IRON	P		4850		995		11200	
LEAD	P	498000	509000	50000	2260		5830	500
MAGNESIUM	P		531	50000		5000	14700	
MANGANESE	P		916		257		91700	30
NICKEL	P				248		22	80
SELENIUM	P		993		1000		1 U	500
SILVER	P			100000	255		2 U	20
SODIUM	P		475			5000	3720	
VANADIUM	P		973		256		18	100
ZINC	P				1550		425	40
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND A	FOUND B	FOUND C	BLANK	INITIAL
SAMPLE NUMBER		ARRAN1566	ARRAN1574	ARICV1362	ARICV1387	ARICV1403	ARICB1298	ARLRA1506
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								
ALUMINUM	P	10000	800000	103000	978		60 U	
ANTIMONY	P	10000			1050		50 U	123
ARSENIC	P	20000			1050		60 U	495
BARIUM	P	5000			1010		2 U	
BERYLLIUM	P	1500			257		0.3 U	9.6
CADMIUM	P	5000			247		2 U	10
CALCIUM	P	10000	900000		25600	5280	200 U	

TABLE D.2.38 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR803019E DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		LINEAR RANGE	LINEAR RANGE	INITIAL CAL	INITIAL CAL	INITIAL CAL	INITIAL CAL	CRDL STAND
TYPE OF LOCATION				FOUND A	FOUND B	FOUND C	BLANK	INITIAL
SAMPLE NUMBER		ARRAN1566	ARRAN1574	ARICV1362	ARICV1387	ARICV1403	ARICB1298	ARLRA1506
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								
CHROMIUM	P	10000			257		6 U	19
COBALT	P	10000			246		3 U	98
COPPER	P	10000			273		10 U	52
IRON	P	12000	800000	102000	984		20 U	
LEAD	P	50000			2170		50 U	494
MAGNESIUM	P	12000	500000	48900		4990 B	10 U	
MANGANESE	P	2000	200000	49000	255		5 U	30
NICKEL	P	15000			249		6 U	84
SELENIUM	P	10000			1010		60 U	519
SILVER	P	10000			252		6 U	14
SODIUM	P	10000	900000	105000		4610 B	200 U	
VANADIUM	P	10000			261		4 U	95
ZINC	P	6000			1500		7 U	37
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	570 WTP	570 WTP
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	LAGOON	LAGOON
SAMPLE NUMBER		ARICS1323	ARICS1331	ARPB01555	ARPB01556	ARLCS1472	AR806012E	AR806023E
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO							20	20
ALUMINUM	P	508000	516000	60 U	60 U	18500	14900	17200
ANTIMONY	P	50 B		50 U	50 U	9.1 U	7.8 UN	9.1 UN
ARSENIC	P	60 U		60 U	60 U	667	9.4 UN	11 UN
BARIUM	P	12 B	455	2.6 B	2 U	447	108 E	92 E
BERYLLIUM	P	4.6 B	450	0.31 B	0.3 U	1.8	1.5 E	1.9 E
CADMIUM	P	7.3	831	2 U	2 U	0.73	2.2	1.5
CALCIUM	P	481000	490000	200 U	200 U	10900	37600	55300
CHROMIUM	P	14	430	6 U	6 U	8.5	35	25
COBALT	P	6.3 B	412	3 U	3 U	5.6	12	11
COPPER	P	10 U	491	10 U	10 U	268	37	44
IRON	P	213000	216000	20 U	20 U	13300	33400	42400
LEAD	P	50 U	4150	50 U	50 U	5560	17 B	36 B
MAGNESIUM	P	500000	500000	11 B	10 U	16400	23900	35200
MANGANESE	P	8.3 B	440	5.2 B	5 U	100000	1140	722

TABLE D.2.38 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR803019E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA		
LOCATION		INTER CHK	INTER CHK	PREP	PREP	LAB CONTROL	570 WTP	570 WTP
TYPE OF LOCATION		SOL. A INIT	SOL. AB INIT	BLANK	BLANK	SAMPLE	LAGOON	LAGOON
SAMPLE NUMBER		ARICS1323	ARICS1331	ARPB01555	ARPB01556	ARLCS1472	AR806012E	AR806023E
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO							20	20
NICKEL	P	17 B	826	6 U	6 U	26	38	35
SELENIUM	P	60 U		60 U	60 U	15	9.4 U	11 U
SILVER	P	6 U	886	6 U	6 U	1.1 U	2.8	1.3 B
SODIUM	P	915 B		200 U	200 U	4340	826	889 B
VANADIUM	P	4 U	411	4 U	4 U	20	32	41
ZINC	P	14 B	927	7 U	7 U	429	93	116
% SOLIDS							80.8	70.3

AREA	METHOD	QA	QA	QA	QA			
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	570 WTP	570 WTP	570 WTP
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	LAGOON	LAGOON	LAGOON
SAMPLE NUMBER		ARCCV1132	ARCCV1168	ARCCV1202	ARCCB1064	AR806034E	AR806045E	AR806056E
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO						20	20	20
ALUMINUM	P	101000	943		60 U	18600	23800	10200
ANTIMONY	P		1050		50 U	8.1 UN	8.4 UN	7.6 UN
ARSENIC	P		1050		60 U	9.8 UN	10 UN	9.1 UN
BARIUM	P		1020		2 U	109 E	131 E	45 E
BERYLLIUM	P		257		0.3 U	1.6 E	1.8 E	1.3 E
CADMIUM	P		247		2 U	1.1	0.83 B	0.9
CALCIUM	P		25600	5260	200 U	28400	8480	86300
CHROMIUM	P		254		6 U	48	39	19
COBALT	P		248		3.4 B	12	11	10
COPPER	P		269		10 U	37	30	27
IRON	P	103000	991		20 U	29000	30500	24100
LEAD	P		2160		50 U	23 B	15 B	15 B
MAGNESIUM	P	48300		4870 B	10 U	19000	8630	49900
MANGANESE	P	51500	259		5 U	623	241	541
NICKEL	P		252		6 U	28	31	26
SELENIUM	P		1030		60 U	9.8 U	10 U	9.1 U
SILVER	P		239		6 U	4.4	1.9	1.9
SODIUM	P	101000		4580 B	200 U	759 B	884	504 B
VANADIUM	P		251		4 U	40	58	20
ZINC	P		1500		7 U	118	91	53
% SOLIDS						78.6	78.1	83.5

TABLE D.2.38 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR803019E

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AREA	METHOD							
LOCATION		570 WTP	570 WTP	BLDG 19/34	BLDG 19/34	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION		LAGOON	LAGOON	D&D	D&D	D&D	D&D	D&D
SAMPLE NUMBER		AR806078E	AR806089E	AR810018E	AR810029E	AR810030E	AR810041E	AR810052E
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		20	20	23	23	23	23	23
ALUMINUM	P	12500	10600	12800	12100	14400	13100	13900
ANTIMONY	P	8.3 UN	9.3 UN	7.8 UN	7.7 UN	7.4 UN	7.6 UN	7.7 UN
ARSENIC	P	9.9 UN	11 UN	9.3 UN	9.2 UN	8.8 UN	9.1 UN	9.3 UN
BARIUM	P	58 E	48 E	62 E	56 E	69 E	53 E	52 E
BERYLLIUM	P	1.5 E	1.5 E	1.4 E	1.4 E	1.5 E	1.5 E	1.6 E
CADMIUM	P	1.4	1.1	2.4	1.1	5.5	1.5	0.78
CALCIUM	P	91000	102000	65300	71200	59100	80600	80100
CHROMIUM	P	18	15	30	18	48	25	19
COBALT	P	7.9 B	6.7 B	10	10	12	9.4	10
COPPER	P	35	30	38	28	55	32	27
IRON	P	40400	36300	25000	23500	25400	23300	24700
LEAD	P	10 B	15 B	20 B	13 B	28 B	10 B	7.7 U
MAGNESIUM	P	56200	61900	35900	39300	31900	43800	42100
MANGANESE	P	518	483	571	526	576	472	505
NICKEL	P	28	26	31	28	39	27	28
SELENIUM	P	9.9 U	11 U	9.3 U	9.2 U	8.8 U	9.1 U	9.3 U
SILVER	P	2.1	1.8 B	1.5 B	1.2 B	2	1.2 B	1.3 B
SODIUM	P	860	861 B	351 B	470 B	390 B	514 B	507 B
VANADIUM	P	28	25	25	23	27	24	26
ZINC	P	96	93	137	81	153	77	66
% SOLIDS		74.3	65.8	83.6	82.8	85.5	83.6	84

AREA	METHOD	QA	QA	QA	QA			
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION		CAL FOUND	CAL FOUND	CAL FOUND	CAL BLANK	D&D	D&D	D&D
SAMPLE NUMBER		ARCCV1133	ARCCV1169	ARCCV1203	ARCCB1065	AR810063E	AR810074E	AR810085E
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO						23	23	23
ALUMINUM	P	101000	954		60 U	14200	17400	14900
ANTIMONY	P		1060		50 U	7.5 UN	7.8 UN	7.5 UN
ARSENIC	P		1060		60 U	9 UN	9.3 UN	9 UN
BARIUM	P		1040		2 U	62 E	80 E	70 E
BERYLLIUM	P		262		0.3 U	1.5 E	1.5 E	1.5 E
CADMIUM	P		250		2 U	1.1	1.2	0.93
CALCIUM	P		25800	5250	200 U	69700	44000	71800

TABLE D.2.38 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR803019E

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AREA	METHOD	QA	QA	QA	QA			
LOCATION		CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK	BLDG 19/34 D&D	BLDG 19/34 D&D	BLDG 19/34 D&D
TYPE OF LOCATION		ARCCV1133	ARCCV1169	ARCCV1203	ARCCB1065	AR810063E	AR810074E	AR810085E
SAMPLE NUMBER		WATER	WATER	WATER	WATER	SOIL	SOIL	SOIL
MATRIX		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG
UNITS								
ENV PROBLEM NO						23	23	23
CHROMIUM	P		254		6 U	21	24	31
COBALT	P		250		3 U	13	13	10
COPPER	P		268		10 U	30	35	30
IRON	P	104000	1010		20 U	27400	31000	24300
LEAD	P		2180		50 U	14 B	12 B	11 B
MAGNESIUM	P	48400		4800 B	10 U	37200	27800	42300
MANGANESE	P	52500	260		5 U	592	727	553
NICKEL	P		261		6 U	30	38	32
SELENIUM	P		1030		60 U	9 U	9.3 U	9 U
SILVER	P		233		6 U	1.1 B	0.93 U	1.7
SODIUM	P	99000		4420 B	200 U	455 B	285 B	361 B
VANADIUM	P		248		4 U	27	32	27
ZINC	P		1500		7 U	74	88	73
% SOLIDS						83.6	82.8	82.1

AREA	METHOD							QA
LOCATION		BLDG 19/34 D&D	317 AREA DRAINAGE	317 AREA DRAINAGE	317 AREA DRAINAGE	317 AREA DRAINAGE	317 AREA DRAINAGE	SERIAL DILUTION
TYPE OF LOCATION		AR810096E	AR803019E	AR803020E	AR803031E	AR803053E	AR803064E	AR803064E
SAMPLE NUMBER		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
MATRIX		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
UNITS								
ENV PROBLEM NO		23	18	18	18	18	18	18
ALUMINUM	P	13500	12600	14700	9570	14600	13400	13800
ANTIMONY	P	7.5 UN	7.5 UN	7.3 UN	7.7 UN	7.3 UN	8.2 UN	98
ARSENIC	P	9 UN	9 UN	8.8 UN	9.3 UN	8.8 UN	9.8 UN	49 U
BARIUM	P	55 E	55 E	62 E	39 E	49 E	46 E	52
BERYLLIUM	P	1.4 E	1.4 E	1.5 E	1.5 E	1.6 E	1.7 E	3.2
CADMIUM	P	0.87	1.5	0.56 B	0.66 B	0.5 B	0.58 B	1.6 U
CALCIUM	P	69200	78500	75900	116000	72300	101000	108000
CHROMIUM	P	22	17	18	14	20	20	24
COBALT	P	10	8.9	11	7.3 B	12	9.2	10
COPPER	P	29	27	26	22	26	24	27
IRON	P	24100	25000	26700	19900	25600	23400	25700
LEAD	P	15 B	19 B	7.3 U	7.7 U	7.7 B	15 B	41 U
MAGNESIUM	P	37700	45000	42300	63400	39200	55900	59900
MANGANESE	P	537	481	562	381	547	455	465

TABLE D.2.38 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR803019E

DRAFT DO NOT CITE

AREA	METHOD							QA
LOCATION		BLDG 19/34	317 AREA	317 AREA	317 AREA	317 AREA	317 AREA	SERIAL
TYPE OF LOCATION		D&D	DRAINAGE	DRAINAGE	DRAINAGE	DRAINAGE	DRAINAGE	DILUTION
SAMPLE NUMBER		AR810096E	AR803019E	AR803020E	AR803031E	AR803053E	AR803064E	AR803064E
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		23	18	18	18	18	18	18
NICKEL	P	29	27	30	21	32	27	13
SELENIUM	P	9 U	9 U	8.8 U	9.3 U	8.8 U	9.8 U	49 U
SILVER	P	1.1 B	1.3 B	0.88 U	1.1 B	0.92 B	1.1 B	4.9 U
SODIUM	P	418 B	350 B	438 B	662 B	395 B	658 B	405 B
VANADIUM	P	25	23	26	18	25	24	31
ZINC	P	71	81	65	57	66	63	64
% SOLIDS		84.7	84.1	85	82.6	84.5	77.3	77.3

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		SD %	DUPLICATE	DUPLICATE	MATRIX	MS %	CONTINUING	CONTINUING
TYPE OF LOCATION		DIFFERENCE		RPD	SPIKE	RECOVERY	CAL FOUND	CAL FOUND
SAMPLE NUMBER		AR803064E	AR803064E	AR803064E	AR803064E	AR803064E	ARCCV1134	ARCCV1170
MATRIX			SOIL		SOIL		WATER	WATER
UNITS		%	MG/KG	%	MG/KG	%	UG/L	UG/L
ENV PROBLEM NO		18	18	18	18	18		
ALUMINUM	P	3	13400	0	11900		100000	972
ANTIMONY	P		8 U		14	18		1070
ARSENIC	P		9.5 U		10 B	62		1060
BARIUM	P	13	46	0	360	98		1040
BERYLLIUM	P	88	1.7	0	9.4	96		253
CADMIUM	P		0.8		7.7	88		249
CALCIUM	P	6.9	108000	6.7	107000			25500
CHROMIUM	P		19	5.1	45	78		252
COBALT	P		9.3	0.1	77	85		249
COPPER	P		24	0	61	92		266
IRON	P	9.8	23600	0.85	23100		104000	998
LEAD	P		11 B		88	91		2140
MAGNESIUM	P	7.2	60000	7.1	58600		48200	
MANGANESE	P	2.2	439	3.6	528	91	53400	258
NICKEL	P		27	0	98	89		263
SELENIUM	P		9.5 U		328	103		1050
SILVER	P		1.5 B		8.3	90		226
SODIUM	P		656 B		630 B		96800	
VANADIUM	P		23	0	87	80		243
ZINC	P	1.6	65	3.1	140	96		1490
% SOLIDS			77.3		77.3			

TABLE D.2.38 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR803019E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL FOUND	CONTINUING CAL BLANK	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL FOUND	CONTINUING CAL BLANK	CRDL STAND FINAL
TYPE OF LOCATION								
SAMPLE NUMBER		ARCCV1204	ARCCB1066	ARCCV1135	ARCCV1171	ARCCV1205	ARCCB1067	ARLRA1498
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								
ALUMINUM	P			99600				
ANTIMONY	P		60 U		951		60 U	
ARSENIC	P		50 U		1060		50 U	126
BARIUM	P		60 U		1030		60 U	491
BERYLLIUM	P		2 U		1010		2 U	
CADMIUM	P		0.3 U		249		0.3 U	8.3
CALCIUM	P	5270	2 U		244		2 U	9.8
CHROMIUM	P		200 U		24800	5220	200 U	
COBALT	P		6 U		248		6 U	18
COPPER	P		3 U		246		3 U	98
IRON	P		10 U		262		10 U	47
LEAD	P		20 U	102000	976		20 U	
MAGNESIUM	P		50 U		2100		50 U	478
MANGANESE	P	4740 B	10 U	47800		4700 B	10 U	
NICKEL	P		5 U	52600	252		5 U	30
SELENIUM	P		6 U		258		6 U	86
SILVER	P		60 U		1040		60 U	518
SODIUM	P		6 U		227		6 U	17
VANADIUM	P	4480 B	200 U	97500		4180 B	200 U	
ZINC	P		4 U		241		4 U	90
% SOLIDS			7 U		1460		7 U	29

AREA	METHOD	QA	QA
LOCATION		INTER CHK	INTER CHK
TYPE OF LOCATION		SOL. A FINAL	SOL. AB FINA
SAMPLE NUMBER		ARICS1307	ARICS1315
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
ALUMINUM	P	492000	498000
ANTIMONY	P	50 U	
ARSENIC	P	60 U	
BARIUM	P	11 B	447
BERYLLIUM	P	3.3 B	434
CADMIUM	P	5	801
CALCIUM	P	465000	469000

TABLE D.2.38 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR803019E

DRAFT DO NOT CITE

AREA	METHOD	QA	QA
LOCATION		INTER CHK	INTER CHK
TYPE OF LOCATION		SOL. A FINAL	SOL. AB FINA
SAMPLE NUMBER		ARICS1307	ARICS1315
MATRIX		WATER	WATER
UNITS		UG/L	UG/L
ENV PROBLEM NO			
CHROMIUM	P	13	409
COBALT	P	5.1 B	399
COPPER	P	10 U	471
IRON	P	207000	209000
LEAD	P	50 U	3900
MAGNESIUM	P	495000	500000
MANGANESE	P	8 B	431
NICKEL	P	13 B	823
SELENIUM	P	60 U	
SILVER	P	6 U	809
SODIUM	P	573 B	
VANADIUM	P	4 U	383
ZINC	P	7 U	885
% SOLIDS			

TABLE D.2.39 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR805022D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK 1	INITIAL CAL TRUE A	INITIAL CAL FOUND A	CONTINUING CAL BLANK	CONTINUING CAL FOUND	LAB CONTROL SAMPLE TRUE	LAB CONTROL SAMPLE
TYPE OF LOCATION								
SAMPLE NUMBER		AR03A0014	AR2AA1014	AR2AA2014	AR03A1014	AR2AA4014	AR0700114	AR0700114
MATRIX		SOIL			SOIL		SOIL	SOIL
UNITS		MG/KG	UG/L	UG/L	MG/KG	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
MERCURY	CV	0.01 U	10	9.6	0.01 U	10	19	18
% SOLIDS								

AREA	METHOD					QA		
LOCATION		COAL PILE RUNOFF	COAL PILE RUNOFF	COAL PILE RUNOFF	319 LANDFI LANDFILL	CONTINUING CAL FOUND	319 LANDFI LANDFILL	319 LANDFI LANDFILL
TYPE OF LOCATION								
SAMPLE NUMBER		AR308031D	AR308020D	AR308019D	AR805022D	AR2AA5014	AR805011D	AR805033D
MATRIX		SOIL	SOIL	SOIL	SOIL		SOIL	SOIL
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	UG/L	MG/KG	MG/KG
ENV PROBLEM NO		4	4	4	19		19	19
MERCURY	CV	0.04 B	0.06	0.07	0.09	10	0.14	0.12
% SOLIDS		73.7	71.2	68.2	75.9		74.2	68.9

AREA	METHOD	QA	QA	QA	QA		QA	QA
LOCATION		DUPLICATE	DUPLICATE RPD	MATRIX SPIKE	MS % RECOVERY	319 LNDF-S LANDFILL	CONTINUING CAL BLANK	CONTINUING CAL FOUND
TYPE OF LOCATION								
SAMPLE NUMBER		AR805033D	AR805033D	AR805033D	AR805033D	AR801017C	AR03A2014	AR2AB4014
MATRIX		SOIL		SOIL		SOIL	SOIL	
UNITS		MG/KG	%	MG/KG	%	MG/KG	MG/KG	UG/L
ENV PROBLEM NO		19	19	19	19	17		
MERCURY	CV	0.1	18	0.39	108	1.7	0.01 U	10
% SOLIDS						82		

TABLE D.2.39 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR805022D

DRAFT DO NOT CITE

AREA	METHOD						QA	QA
LOCATION		319 LNDF-S	319 LNDF-S	CP-3 AREA	CP-3 AREA	CP-3 AREA	CONTINUING	CONTINUING
TYPE OF LOCATION		LANDFILL	LANDFILL	SITE A	SITE A	SITE A	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR801028C	AR801039C	AR812010C	AR812021C	AR812032C	AR03A3014	AR2AB5014
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L
ENV PROBLEM NO		17	17	25	25	25		
MERCURY	CV	0.29	0.1	0.05 B	0.06	0.05 B	0.01 U	10
% SOLIDS		84.2	82.4	82.3	82.3	83.3		

AREA	METHOD				QA	QA	QA
LOCATION		CP-3 AREA	CP-3 AREA	CP-3 AREA	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION		SITE A	SITE A	SITE A	BLANK	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR812043C	AR812054C	AR812065C	AR03A0014	AR03B1014	AR2AC4010
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L
ENV PROBLEM NO		25	25	25			
MERCURY	CV	0.06	0.06	0.04 B	0.01 B	0.01 U	10
% SOLIDS		84.9	85.3	88.7			

TABLE D.2.40 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR806012D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		ICP LINEAR RANGES	SERIAL DILUTION	SD % DIFFERENCE	LAB CONTROL SAMP-SOLID	PREP BLANK	INITIAL CALIBRATION	INITIAL CAL BLANK
TYPE OF LOCATION		AR0408015	AR806012D	AR806012D	AR0623015	AR0623015	AR0623096	AR0623096
SAMPLE NUMBER		WATER	WATER		SOIL	SOIL	WATER	WATER
MATRIX		UG/L	UG/L	%	MG/KG	MG/KG	UG/L	UG/L
UNITS			20	20				
ENV PROBLEM NO								
ARSENIC	F	10000	24 B	99	45	0.56 U	472	2.8 U
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS					100			

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CRDL STAND INITIAL	ICP FIRST INT CHECK A	ICP FIRST INT CHECK AB	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 2	CONTINUING CAL BLANK 2
TYPE OF LOCATION		AR0623096	AR0623096	AR0623096	AR0623096	AR0623096	AR0623106	AR0623106
SAMPLE NUMBER		WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ARSENIC	F	10 B	29	934	394	2.8 U	406	2.8 U
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL VERIF 3	CONTINUING CAL BLANK 3	CONTINUING CAL VERIF 4	CONTINUING CAL BLANK 4	CONTINUING CAL VERIF 5	CONTINUING CAL BLANK 5	CONTINUING CAL VERIF 6
TYPE OF LOCATION		AR0623106	AR0623106	AR0623116	AR0623116	AR0623116	AR0623116	AR0623126
SAMPLE NUMBER		WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ARSENIC	F	400	2.8 U	392	2.8 U	402	2.8 U	391
CADMIUM	P							

TABLE D.2.40 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR806012D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 3	CAL BLANK 3	CAL VERIF 4	CAL BLANK 4	CAL VERIF 5	CAL BLANK 5	CAL VERIF 6
SAMPLE NUMBER		AR0623106	AR0623106	AR0623116	AR0623116	AR0623116	AR0623116	AR0623126
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								
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 6	CAL VERIF 7	CAL BLANK 7	CAL VERIF 8	CAL BLANK 8	CAL VERIF 9	CAL BLANK 9
SAMPLE NUMBER		AR0623126	AR0623136	AR0623136	AR0623146	AR0623146	AR0623146	AR0623146
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								
ARSENIC	F							
CADMIUM	P	2.8 U	394	2.8 U	395	4.3 B	400	2.8 U
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CRDL STAND	ICP FINAL	ICP FINAL
TYPE OF LOCATION		CAL VERIF 10	CAL BLANK 10	CAL VERIF 11	CAL BLANK 11	FINAL	INT CHECK A	INT CHECK AB
SAMPLE NUMBER		AR0623156	AR0623156	AR0623156	AR0623156	AR0623156	AR0623156	AR0623156
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								
ARSENIC	F							
CADMIUM	P	402	2.8 U	401	2.8 U	10 B	28	923
LEAD	F							
SELENIUM	F							

TABLE D.2.40 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR806012D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	CONTINUING	CRDL STAND	ICP FINAL	ICP FINAL
TYPE OF LOCATION		CAL VERIF 10	CAL BLANK 10	CAL VERIF 11	CAL BLANK 11	FINAL	INT CHECK A	INT CHECK AB
SAMPLE NUMBER		AR0623156	AR0623156	AR0623156	AR0623156	AR0623156	AR0623156	AR0623156
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								
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	INITIAL CAL	INITIAL	CONTINUING	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 12	CAL BLANK 12	BLANK	CALIBRATION	CAL BLANK 1	CAL VERIF 1	CAL BLANK 2
SAMPLE NUMBER		AR0623156	AR0623166	AR0809084	AR0809085	AR0809094	AR0809094	AR0809105
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								
ARSENIC	F							
CADMIUM	P	407	3.1 B					
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS				5.1 U	92	5.1 U	31	5.1 U

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	LAB CONTROL	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 2	CAL BLANK 3	CAL VERIF 3	SAMP-SOLID	BLANK	CAL BLANK 4	CAL VERIF 4
SAMPLE NUMBER		AR0809105	AR0809115	AR0809120	AR0809120	AR0809122	AR0809123	AR0809124
MATRIX		WATER	WATER	WATER	SOIL	SOIL	WATER	WATER
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F	29	5.1 U	28	38	1 U	5.1 U	29

TABLE D.2.40 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR806012D

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	CONTINUING	LAB CONTROL	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL VERIF 2	CAL BLANK 3	CAL VERIF 3	SAMP-SOLID	BLANK	CAL BLANK 4	CAL VERIF 4
SAMPLE NUMBER		AR0809105	AR0809115	AR0809120	AR0809120	AR0809122	AR0809123	AR0809124
MATRIX		WATER	WATER	WATER	SOIL	SOIL	WATER	WATER
UNITS		UG/L	UG/L	UG/L	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO								
% SOLIDS					100			

AREA	METHOD	QA		QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	570 WTP	INITIAL	DUPLICATE	DUPLICATE	MATRIX	MS %
TYPE OF LOCATION		BLANK 1	LAGOON	CAL 1		RPD	SPIKE	RECOVERY
SAMPLE NUMBER		AR0812083	AR806012D	AR0812083	AR806012D	AR806012D	AR806012D	AR806012D
MATRIX		WATER	SOIL	WATER	SOIL		SOIL	
UNITS		UG/L	MG/KG	UG/L	MG/KG	%	MG/KG	%
ENV PROBLEM NO			20		20	20	20	20
ARSENIC	F	2.4 U	24	51	21	11	32	91
CADMIUM	P		2.8 BN		2.7 B	3.6	4.2 BN	127
LEAD	F		28		26	7	36	178
SELENIUM	F		4.1 UN		4.1 U		4.1 UN	
SILVER	F		0.97 UN		1.9 B	200	7.1 N	154
THALLIUM	F		1.2 U		1.2 U		10	89
% SOLIDS			86.8		86.8		86.8	

AREA	METHOD			QA	QA			
LOCATION		570 WTP	570 WTP	CONTINUING	CONTINUING	570 WTP	319 LNDF-S	UNDWRTRS P
TYPE OF LOCATION		LAGOON	LAGOON	CAL BLANK 1	CAL VERIF 1	LAGOON	LANDFILL	POND
SAMPLE NUMBER		AR806023D	AR806045D	AR0812094	AR0812094	AR806078D	AR801017C	AR809037A
MATRIX		SOIL	SOIL	WATER	WATER	SOIL	SOIL	SOIL
UNITS		MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		20	20			20	17	22
ARSENIC	F	18	12	2.4 U	32	27	17	8.1
CADMIUM	P	3.2 BN	3.1 BN			3.7 BN	116 N	2.8 BN
LEAD	F	29	23			31	347	48
SELENIUM	F	4.7 UN	4.5 UN			4.6 UN	5.5 UN	10 UN
SILVER	F	1.1 UN	1.2 BN			1.1 UN	8.4 N	2.4 UN
THALLIUM	F	1.3 U	1.3 U			1.3 U	1.6 U	2.9 U
% SOLIDS		76.6	79.4			78.4	65.2	35.4

TABLE D.2.40 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR806012D

DRAFT DO NOT CITE

AREA	METHOD			QA	QA			QA
LOCATION		NIKE SITE DRAINS	NIKE SITE DRAINS	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2	NIKE SITE DRAINS	NIKE SITE DRAINS	LAB CONTROL SAMP-SOLID
TYPE OF LOCATION								
SAMPLE NUMBER		AR807013C	AR807057C	AR0812110	AR0812110	AR807068C	AR807079C	AR0812114
MATRIX		SOIL	SOIL	WATER	WATER	SOIL	SOIL	SOIL
UNITS		MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		21	21			21	21	
ARSENIC	F	13	11	2.4 U	31	11	14	1100
CADMIUM	P	14 N	2.5 BN			2.7 BN	2.6 BN	
LEAD	F	2860	26			28	67	
SELENIUM	F	4.8 UN	4.3 UN			4.4 UN	4.3 UN	
SILVER	F	1.1 UN	1 UN			1 UN	1 UN	
THALLIUM	F	1.4 U	1.2 U			1.3 U	1.2 U	
% SOLIDS		74.4	83.4			81.2	83.8	100

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		PREP BLANK	CONTINUING CAL BLANK 3	CONTINUING CAL VERIF 3	INITIAL CAL BLANK	INITIAL CALIBRATION	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1
TYPE OF LOCATION								
SAMPLE NUMBER		AR0812115	AR0812120	AR0812121	AR0822135	AR0822140	AR0822145	AR0822150
MATRIX		SOIL	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		MG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F	0.64 B	2.8 B	31				
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F				4.2 U	98	4.2 U	31
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2	INITIAL CAL BLANK	INITIAL CALIBRATION	LAB CONTROL SAMP-SOLID	PREP BLANK	CONTINUING CAL BLANK 3
TYPE OF LOCATION								
SAMPLE NUMBER		AR0822160	AR0822161	AR0823133	AR0823133	AR0823140	AR0823141	AR0823142
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	UG/L
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P							

TABLE D.2.40 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR806012D

DRAFT DO NOT CIT

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2	INITIAL CAL BLANK	INITIAL CALIBRATION	LAB CONTROL SAMP-SOLID	PREP BLANK	CONTINUING CAL BLANK 3
TYPE OF LOCATION								
SAMPLE NUMBER		AR0822160	AR0822161	AR0823133	AR0823133	AR0823140	AR0823141	AR0823142
MATRIX		WATER	WATER	WATER	WATER	SOIL	SOIL	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	UG/L
ENV PROBLEM NO								
LEAD	F							
SELENIUM	F							
SILVER	F	4.2 U	33	4.2 U	95	27	0.84 U	4.2 U
THALLIUM	F							
% SOLIDS						100		

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK 2	INITIAL CAL 2	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 2	LAB CONTROL SAMP-SOLID
TYPE OF LOCATION								
SAMPLE NUMBER		AR0824152	AR0824152	AR0824164	AR0824164	AR0824184	AR0824185	AR0824192
MATRIX		WATER	WATER	WATER	WATER	WATER	WATER	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P							
LEAD	F	2.1 U	96	2.1 U	31	2.1 U	29	267
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								100

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		PREP BLANK	CONTINUING CAL BLANK 3	CONTINUING CAL VERIF 3	INITIAL CAL BLANK	INITIAL CALIBRATION	CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 1
TYPE OF LOCATION								
SAMPLE NUMBER		AR0824195	AR0824200	AR0824201	AR0830084	AR0830084	AR0830095	AR0830100
MATRIX		SOIL	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		MG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
ARSENIC	F							
CADMIUM	P							
LEAD	F	0.42 U	2.1 U	30				
SELENIUM	F				3.6 U	96	3.6 U	28

TABLE D.2.40 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR806012D DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		PREP	CONTINUING	CONTINUING	INITIAL CAL	INITIAL	CONTINUING	CONTINUING
TYPE OF LOCATION		BLANK	CAL BLANK 3	CAL VERIF 3	BLANK	CALIBRATION	CAL BLANK 1	CAL VERIF 1
SAMPLE NUMBER		AR0824195	AR0824200	AR0824201	AR0830084	AR0830084	AR0830095	AR0830100
MATRIX		SOIL	WATER	WATER	WATER	WATER	WATER	WATER
UNITS		MG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	LAB CONTROL	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 2	CAL VERIF 2	SAMP-SOLID	BLANK	CAL BLANK 3	CAL VERIF 3
SAMPLE NUMBER		AR0830111	AR0830111	AR0830114	AR0830115	AR0830120	AR0830121
MATRIX		WATER	WATER	SOIL	SOIL	WATER	WATER
UNITS		UG/L	UG/L	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO							
ARSENIC	F						
CADMIUM	P						
LEAD	F						
SELENIUM	F	3.6 U	29	37	0.72 U	3.6 U	30
SILVER	F						
THALLIUM	F						
% SOLIDS				100			

TABLE D.2.41 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR806090F

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	CONTINUING	CONTINUING	LAB CONTROL	LAB CONTROL
TYPE OF LOCATION		BLANK 1	TRUE A	FOUND A	CAL BLANK	CAL FOUND	SAMPLE TRUE	SAMPLE
SAMPLE NUMBER		AR03A0015	AR2AA1015	AR2AA2015	AR03A1015	AR2AA4015	AR0700115	AR0700115
MATRIX		WATER			WATER		WATER	WATER
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
MERCURY	CV	0.01 U	10	10	0.01 U	11	873	940
% SOLIDS								

AREA	METHOD	QA		QA	QA	QA	QA	QA
LOCATION		PREP	570 WTP	DUPLICATE	MATRIX	MS %	CONTINUING	CONTINUING
TYPE OF LOCATION		BLANK	LAGOON		SPIKE	RECOVERY	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR03A0015	AR806090F	AR806090F	AR806090F	AR806090F	AR03A2015	AR2AA5015
MATRIX		WATER	WATER	WATER	WATER		WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	%	UG/L	UG/L
ENV PROBLEM NO			20	20	20	20		
MERCURY	CV	0.01 U	0.02 B	0.02 B	1.1	104	0.01 U	11
% SOLIDS								

AREA	METHOD			QA	QA
LOCATION		RET. TANKS	RET. TANKS	CONTINUING	CONTINUING
TYPE OF LOCATION		WASTEWATER	WASTEWATER	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR500331F	AR500342F	AR03A3015	AR2AB4015
MATRIX		WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		10	10		
MERCURY	CV	8.4	15	0.01 U	11
% SOLIDS					

TABLE D.2.42 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR807080C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK 1	INITIAL CAL TRUE A	INITIAL CAL FOUND A	CONTINUING CAL BLANK	CONTINUING CAL FOUND	LAB CONTROL SAMPLE TRUE	LAB CONTROL SAMPLE
TYPE OF LOCATION								
SAMPLE NUMBER		AR03A0016	AR2AA1016	AR2AA2016	AR03A1016	AR2AA4016	AR0700116	AR0700116
MATRIX		WATER			WATER		SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
MERCURY	CV	0.01 U	10	9.9	0.01 U	9.9	19	20
% SOLIDS								

AREA	METHOD			QA	QA	QA	QA	QA
LOCATION		NIKE SITE DRAINS	NIKE SITE DRAINS	DUPLICATE	PREP BLANK	CONTINUING CAL BLANK	CONTINUING CAL FOUND	MATRIX SPIKE
TYPE OF LOCATION								
SAMPLE NUMBER		AR807080C	AR807079C	AR807079C	AR03A0016	AR03A2016	AR2AA5016	AR807079C
MATRIX		SOIL	SOIL	SOIL	WATER	WATER		SOIL
UNITS		MG/KG	MG/KG	MG/KG	UG/L	UG/L	UG/L	MG/KG
ENV PROBLEM NO		21	21	21				21
MERCURY	CV	0.04	0.04 B	0.03 B	0.006 B	0.01 U	10	0.31
% SOLIDS		81.2	79.5					

AREA	METHOD	QA					QA	QA
LOCATION		MS % RECOVERY	NIKE SITE DRAINS	NIKE SITE DRAINS	NIKE SITE DRAINS	NIKE SITE DRAINS	CONTINUING CAL BLANK	CONTINUING CAL FOUND
TYPE OF LOCATION								
SAMPLE NUMBER		AR807079C	AR807068C	AR807057C	AR807013C	AR807024C	AR03A3016	AR2AB4016
MATRIX			SOIL	SOIL	SOIL	SOIL	WATER	
UNITS		%	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO		21	21	21	21	21		
MERCURY	CV	96	0.05	0.05 B	0.06	0.08	0.01 U	10
% SOLIDS			79.2	82.1	71.8	73.1		

TABLE D.2.42 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR807080C

DRAFT DO NOT CITE

AREA	METHOD			QA	QA
LOCATION		NIKE SITE	NIKE SITE	CONTINUING	CONTINUING
TYPE OF LOCATION		DRAINS	DRAINS	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR807035C	AR807046C	AR03B4012	AR2AB5016
MATRIX		SOIL	SOIL	WATER	
UNITS		MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO		21	21		
MERCURY	CV	0.05	0.05 B	0.01 U	10
% SOLIDS		78.3	83.5		

TABLE D.2.43 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR809015A DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	CONTINUING	CONTINUING	LAB CONTROL	LAB CONTROL
TYPE OF LOCATION		BLANK 1	TRUE A	FOUND A	CAL BLANK	CAL FOUND	SAMPLE TRUE	SAMPLE
SAMPLE NUMBER		AR03A0017	AR2AA1017	AR2AA2017	AR03A1017	AR2AA4017	AR0700117	AR0700117
MATRIX		WATER			WATER		SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
MERCURY	CV	0.01 U	10	10	0.01 U	9.9	19	19
% SOLIDS								

AREA	METHOD	QA				QA	QA	
LOCATION		PREP	UNDWRTRS P	UNDWRTRS P	UNDWRTRS P	CONTINUING	CONTINUING	570 WTP
TYPE OF LOCATION		BLANK	POND	POND	POND	CAL BLANK	CAL FOUND	LAGOON
SAMPLE NUMBER		AR03A0017	AR809015A	AR809026A	AR809037A	AR03A2017	AR2AA5017	AR806012D
MATRIX		WATER	SOIL	SOIL	SOIL	WATER		SOIL
UNITS		UG/L	MG/KG	MG/KG	MG/KG	UG/L	UG/L	MG/KG
ENV PROBLEM NO			22	22	22			20
MERCURY	CV	0.01 B	0.17 B	0.18 B	0.12 B	0.01 U	9.9	1.3
% SOLIDS			17.9	18.9	32.3			84

AREA	METHOD			QA	QA			
LOCATION		570 WTP	570 WTP	CONTINUING	CONTINUING	570 WTP	570 WTP	570 WTP
TYPE OF LOCATION		LAGOON	LAGOON	CAL BLANK	CAL FOUND	LAGOON	LAGOON	LAGOON
SAMPLE NUMBER		AR806023D	AR806034D	AR03A3017	AR2AB4017	AR806045D	AR806056D	AR806078D
MATRIX		SOIL	SOIL	WATER		SOIL	SOIL	SOIL
UNITS		MG/KG	MG/KG	UG/L	UG/L	MG/KG	MG/KG	MG/KG
ENV PROBLEM NO		20	20			20	20	20
MERCURY	CV	0.58	0.23	0.01 U	10	0.69	0.26	0.16
% SOLIDS		75.6	79			78.4	84.4	75.1

TABLE D.2.43 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR809015A

DRAFT DO NOT CITE

AREA	METHOD	QA	QA		QA	QA	QA	QA
LOCATION		CONTINUING CAL BLANK	CONTINUING CAL FOUND	570 WTP LAGOON	DUPLICATE	DUPLICATE RPD	MATRIX SPIKE	MS % RECOVERY
TYPE OF LOCATION		AR03B4013	AR2AB5017	AR806089D	AR806089D	AR806089D	AR806089D	AR806089D
SAMPLE NUMBER		WATER		SOIL	SOIL		SOIL	
MATRIX		UG/L	UG/L	MG/KG	MG/KG	%	MG/KG	%
UNITS				20	20	20	20	20
ENV PROBLEM NO								
MERCURY	CV	0.01 U	10	0.39	0.44	13	0.68	103
% SOLIDS				66.8				

AREA	METHOD	QA	QA
LOCATION		CONTINUING CAL BLANK	CONTINUING CAL FOUND
TYPE OF LOCATION		AR03B5013	AR2AC4011
SAMPLE NUMBER		WATER	
MATRIX		UG/L	UG/L
UNITS			
ENV PROBLEM NO			
MERCURY	CV	0.01 U	10
% SOLIDS			

TABLE D.2.44 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR809048A

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	PREP	LAB CONTROL	LAB CONTROL	CONTINUING
TYPE OF LOCATION		TRUE A	FOUND A	BLANK 1	BLANK	SAMPLE TRUE	SAMPLE	CAL FOUND
SAMPLE NUMBER		AR2AA1018	AR2AA2018	AR03A0018	AR03A0018	AR0700118	AR0700118	AR2AA4018
MATRIX				WATER	WATER	WATER	WATER	
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO								
CESIUM	A	1000	980	20 U	20 U	2000	1970	970
LITHIUM	A	1000	1010	4.8 U	4.8 U	2000	2040	1010
% SOLIDS								

AREA	METHOD	QA		QA	QA	QA	QA	QA
LOCATION		CONTINUING	UNDWRTRS P	DUPLICATE	MATRIX	MS %	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK	POND		SPIKE	RECOVERY	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR03A1018	AR809048A	AR809048A	AR809048A	AR809048A	AR2AA5018	AR03A2018
MATRIX		WATER	WATER	WATER	WATER			WATER
UNITS		UG/L	UG/L	UG/L	UG/L	%	UG/L	UG/L
ENV PROBLEM NO			22	22	22	22		
CESIUM	A	20 U	20 U	20 U	1850	92	990	20 U
LITHIUM	A	4.8 U	4.8 U	4.8 U	2050	102	1020	4.8 U
% SOLIDS								

TABLE D.2.45 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR810018D

DRAFT DO NOT CITI

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	INITIAL CAL	INITIAL CAL	CONTINUING	CONTINUING	LAB CONTROL	LAB CONTROL
TYPE OF LOCATION		BLANK 1	TRUE A	FOUND A	CAL BLANK	CAL FOUND	SAMPLE TRUE	SAMPLE
SAMPLE NUMBER		AR03A0019	AR2AA1019	AR2AA2019	AR03A1019	AR2AA4019	AR0700119	AR0700119
MATRIX		WATER			WATER		SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
MERCURY	CV	0.01 U	10	9.7	0.01 U	9.7	19	18
% SOLIDS								

AREA	METHOD		QA	QA		QA	QA	QA
LOCATION		BLDG 19/34	CONTINUING	CONTINUING	BLDG 19/34	DUPLICATE	DUPLICATE	MATRIX
TYPE OF LOCATION		D&D	CAL BLANK	CAL FOUND	D&D		RPD	SPIKE
SAMPLE NUMBER		AR810018D	AR03A2019	AR2AA5019	AR810029D	AR810029D	AR810029D	AR810029D
MATRIX		SOIL	WATER		SOIL	SOIL		SOIL
UNITS		MG/KG	UG/L	UG/L	MG/KG	MG/KG	%	MG/KG
ENV PROBLEM NO		23			23	23	23	23
MERCURY	CV	0.12	0.01 U	10	0.07	0.066	5.9	0.34
% SOLIDS		84.3			83.5			

AREA	METHOD	QA				QA	QA	
LOCATION		MS %	BLDG 19/34	BLDG 19/34	BLDG 19/34	CONTINUING	CONTINUING	BLDG 19/34
TYPE OF LOCATION		RECOVERY	D&D	D&D	D&D	CAL BLANK	CAL FOUND	D&D
SAMPLE NUMBER		AR810029D	AR810030D	AR810041D	AR810052D	AR03A3019	AR2AB4018	AR810063D
MATRIX			SOIL	SOIL	SOIL	WATER		SOIL
UNITS		%	MG/KG	MG/KG	MG/KG	UG/L	UG/L	MG/KG
ENV PROBLEM NO		23	23	23	23			23
MERCURY	CV	100	0.05 B	0.07	0.04	0.01 U	10	0.06
% SOLIDS			84.8	84.5	84.2			84.5

TABLE D.2.45 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR810018D

DRAFT DO NOT CITE

AREA	METHOD				QA	QA	QA
LOCATION		BLDG 19/34	BLDG 19/34	BLDG 19/34	PREP	CONTINUING	CONTINUING
TYPE OF LOCATION		D&D	D&D	D&D	BLANK	CAL BLANK	CAL FOUND
SAMPLE NUMBER		AR810074D	AR810085D	AR810096D	AR03A0019	AR03B4014	AR2AB5018
MATRIX		SOIL	SOIL	SOIL	WATER	WATER	
UNITS		MG/KG	MG/KG	MG/KG	UG/L	UG/L	UG/L
ENV PROBLEM NO		23	23	23			
MERCURY	CV	0.06	0.05	0.05	0.01 B	0.01 U	10
% SOLIDS		84.2	86.3	84.4			

TABLE D.2.46 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR812010C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		ICP LINEAR RANGES	INITIAL CAL BLANK	CONTINUING CAL BLANK 1	INITIAL CALIBRATION	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 3
TYPE OF LOCATION		AR0408022	AR0428163	AR0428172	AR0428173	AR0428184	AR0428185	AR0428200
SAMPLE NUMBER		WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	10000						
LEAD	F		2.1 U	2.1 U	99	2.1 U	30	2.1 U
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL VERIF 2	CONTINUING CAL BLANK 4	CONTINUING CAL VERIF 3	PREP BLANK	LAB CONTROL SAMP-SOLID	CONTINUING CAL BLANK 5	CONTINUING CAL VERIF 4
TYPE OF LOCATION		AR0428201	AR0428214	AR0428215	AR0428216	AR0428221	AR0428225	AR0428225
SAMPLE NUMBER		WATER	WATER	WATER	SOIL	SOIL	WATER	WATER
MATRIX		UG/L	UG/L	UG/L	MG/KG	MG/KG	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	31	2.1 U	30	0.42 U	246	2.1 U	31
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS						100		

TABLE D.2.46 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR812010C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK	CONTINUING CAL BLANK 1	INITIAL CALIBRATION	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 3	CONTINUING CAL VERIF 2
TYPE OF LOCATION		AR0502190	AR0502194	AR0502194	AR0502205	AR0502205	AR0502220	AR0502221
SAMPLE NUMBER		WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F	4.2 U	4.2 U	99	4.2 U	29	4.2 U	29
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL BLANK 4	CONTINUING CAL VERIF 3	PREP BLANK	LAB CONTROL SAMP-SOLID	CONTINUING CAL BLANK 5	CONTINUING CAL VERIF 4	INITIAL CAL BLANK
TYPE OF LOCATION		AR0502230	AR0502231	AR05223 2	AR0502233	AR0502240	AR0502240	AR0518082
SAMPLE NUMBER		WATER	WATER	SOIL	SOIL	WATER	WATER	WATER
MATRIX		UG/L	UG/L	MG/KG	MG/KG	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ANTIMONY	F							2.4 U
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F	4.2 U	26	0.84 U	22	4.2 U	30	
SILVER	F							
THALLIUM	F							
% SOLIDS					100			

TABLE D.2.46 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR812010C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL BLANK 1	INITIAL CALIBRATION	DUPLICATE	DUPLICATE RPD	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 1	MATRIX SPIKE
TYPE OF LOCATION								
SAMPLE NUMBER		AR0518084	AR0518085	AR812010C	AR812010C	AR0518100	AR0518101	AR812010C
MATRIX		WATER	WATER	SOIL		WATER	WATER	SOIL
UNITS		UG/L	UG/L	MG/KG	%	UG/L	UG/L	MG/KG
ENV PROBLEM NO				25	25			25
ANTIMONY	F							
ARSENIC	F	2.4 U	47	8.6	18	2.4 U	28	15 N
CADMIUM	P			3 B	10			3.2 BN
LEAD	F			24	15			34
SELENIUM	F			1.7 U				1.7 BN
SILVER	F			0.97 U				3.9
THALLIUM	F			1.2 U				11
% SOLIDS				86.2				86.2

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		MS % RECOVERY	CONTINUING CAL BLANK 3	CONTINUING CAL VERIF 2	PREP BLANK	LAB CONTROL SAMP-SOLID	CONTINUING CAL BLANK 4	CONTINUING CAL VERIF 3
TYPE OF LOCATION								
SAMPLE NUMBER		AR812010C	AR0518112	AR0518112	AR0518114	AR0518120	AR0518121	AR0518122
MATRIX			WATER	WATER	SOIL	SOIL	WATER	WATER
UNITS		%	UG/L	UG/L	MG/KG	MG/KG	UG/L	UG/L
ENV PROBLEM NO		25						
ANTIMONY	F							
ARSENIC	F	55	2.4 U	28	0.48 U	942	2.4 U	27
CADMIUM	P	42						
LEAD	P	128						
SELENIUM	F	74						
SILVER	F	85						
THALLIUM	F	96						
% SOLIDS						100		

TABLE D.2.46 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR812010C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK 1	CONTINUING CAL BLANK 1	INITIAL CAL 1	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 1	CONTINUING CAL BLANK 3	CONTINUING CAL VERIF 2
TYPE OF LOCATION								
SAMPLE NUMBER		AR0519081	AR0519084	AR0519085	AR0519095	AR0519100	AR0519111	AR0519112
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F	3.6 U	3.6 U	94	3.6 U	28	3.6 U	27
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL BLANK 2	CONTINUING CAL BLANK 1	INITIAL CAL 2	PREP BLANK	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 1	LAB CONTROL SAMP-SOLID
TYPE OF LOCATION								
SAMPLE NUMBER		AR0519143	AR0519150	AR0519151	AR0519164	AR0519171	AR0519172	AR0519172
MATRIX		WATER	WATER	WATER	SOIL	WATER	WATER	SOIL
UNITS		UG/L	UG/L	UG/L	MG/KG	UG/L	UG/L	MG/KG
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F	3.6 U	3.6 U	98	0.72 U	3.6 U	28	34
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								100

TABLE D.2.46 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR812010C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	INITIAL CAL	CONTINUING	INITIAL	CONTINUING	CONTINUING
TYPE OF LOCATION		CAL BLANK 3	CAL VERIF 2	BLANK 1	CAL BLANK 1	CAL 1	CAL BLANK 2	CAL VERIF 1
SAMPLE NUMBER		AR0519173	AR0519174	AR0524080	AR0524084	AR0524084	AR0524094	AR0524094
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								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F	3.6 U	29					
SILVER	F							
THALLIUM	F			5.1 U	5.1 U	97	5.1 U	28
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING	CONTINUING	INITIAL CAL	CONTINUING	INITIAL	PREP	LAB CONTROL
TYPE OF LOCATION		CAL BLANK 3	CAL VERIF 2	BLANK 2	CAL BLANK 1	CAL 2	BLANK	SAMP-SOLID
SAMPLE NUMBER		AR0524104	AR0524104	AR0524125	AR0524132	AR0524133	AR0524134	AR0524135
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F	5.1 U	29	5.1 U	5.1 U	94	1 U	42
% SOLIDS								100

TABLE D.2.46 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR812010C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA		QA
LOCATION		CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 1	INITIAL CAL BLANK	CONTINUING CAL BLANK 1	INITIAL CALIBRATION	PLOT M SEEP	DUPLICATE
TYPE OF LOCATION								
SAMPLE NUMBER		AR0524140	AR0524141	AR0525100	AR0525103	AR0525104	AR819017D	AR819017D
MATRIX		WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO							28	28
ANTIMONY	F			18 U	18 U	1090	5.2 UN	5.2 U
ARSENIC	F							
CADMIUM	P							
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F	5.1 U	29					
% SOLIDS							68.6	68.6

AREA	METHOD	QA	QA		QA	QA		
LOCATION		MATRIX SPIKE	MS % RECOVERY	PLOT M SEEP	CONTINUING CAL BLANK 2	CONTINUING CAL VERIF 1	PLOT M SEEP	CP-3 AREA SITE A
TYPE OF LOCATION								
SAMPLE NUMBER		AR819017D	AR819017D	AR819028D	AR0525114	AR0525114	AR819039D	AR812010C
MATRIX		SOIL		SOIL	WATER	WATER	SOIL	SOIL
UNITS		MG/KG	%	MG/KG	UG/L	UG/L	MG/KG	MG/KG
ENV PROBLEM NO		28	28	28			28	25
ANTIMONY	F	5.5 BN	19	4.8 UN	18 U	109	5 UN	4.1 UN
ARSENIC	F			11 N			8.8 N	10 N
CADMIUM	P			4.1 BN			2.9 BN	2.7 BN
LEAD	F			51			40	28
SELENIUM	F			0.98 UN			1 UN	1.7 UN
SILVER	F			1.1 U			1.2 U	0.97 U
THALLIUM	F			1.4 U			1.4 U	1.2 U
% SOLIDS		68.6		73.6			71.4	86.2

TABLE D.2.46 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR812010C

DRAFT DO NOT CITE

AREA	METHOD				QA	QA		
LOCATION		CP-3 AREA	CP-3 AREA	CP-3 AREA	CONTINUING	CONTINUING	CP-3 AREA	CP-3 AREA
TYPE OF LOCATION		SITE A	SITE A	SITE A	CAL BLANK 3	CAL VERIF 2	SITE A	SITE A
SAMPLE NUMBER		AR812021C	AR812032C	AR812043C	AR0525124	AR0525124	AR812054C	AR812065C
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		25	25	25			25	25
ANTIMONY	F	4.2 UN	4.2 UN	4.1 UN	18 U	101	4.1 UN	4.1 UN
ARSENIC	F	8.9 N	6.5 N	12 N			9.9 N	7.7 N
CADMIUM	P	4.1 BN	3.1 BN	4 BN			3 BN	3.2 BN
LEAD	F	26	22	27			23	24
SELENIUM	F	1.7 UN	1.7 UN	1.6 UN			0.83 UN	1.7 UN
SILVER	F	0.98 U	0.99 U	0.96 U			0.96 U	0.97 U
THALLIUM	F	1.2 U	1.2 U	1.2 U			1.2 U	1.2 U
% SOLIDS		85.4	84.8	87.6			87.2	86.4

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		PREP	LAB CONTROL	CONTINUING	CONTINUING	SERIAL	SD %	LAB CONTROL
TYPE OF LOCATION		BLANK	SAMP-SOLID	CAL BLANK 4	CAL VERIF 3	DILUTION	DIFFERENCE	SAMP-SOLID
SAMPLE NUMBER		AR0525132	AR0525134	AR0525135	AR0525140	AR812010C	AR812010C	AR0624022
MATRIX		SOIL	SOIL	WATER	WATER	SOIL		SOIL
UNITS		MG/KG	MG/KG	UG/L	UG/L	UG/L	%	MG/KG
ENV PROBLEM NO						25	25	
ANTIMONY	F	3.6 U	143	18 U	103			
ARSENIC	F							
CADMIUM	P					24 B	109	44
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS			100					100

TABLE D.2.46 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR812010C

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		PREP BLANK	INITIAL CALIBRATION	INITIAL CAL BLANK	CRDL STAND INITIAL	ICP FIRST INT CHECK A	ICP FIRST INT CHECK AB	CONTINUING CAL VERIF 1
TYPE OF LOCATION		AR0624022	AR0624130	AR0624130	AR0624131	AR0624131	AR0624131	AR0624132
SAMPLE NUMBER		SOIL	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX		MG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	0.68 B	483	2.8 U	11 B	27	962	399
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		CONTINUING CAL BLANK 1	CONTINUING CAL VERIF 2	CONTINUING CAL BLANK 2	CRDL STAND FINAL	ICP FINAL INT CHECK A	ICP FINAL INT CHECK AB	CONTINUING CAL VERIF 3
TYPE OF LOCATION		AR0624132	AR0624140	AR0624140	AR0624142	AR0624142	AR0624143	AR0624143
SAMPLE NUMBER		WATER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS								
ENV PROBLEM NO								
ANTIMONY	F							
ARSENIC	F							
CADMIUM	P	2.8 U	413	4.8 B	14 B	29	961	404
LEAD	F							
SELENIUM	F							
SILVER	F							
THALLIUM	F							
% SOLIDS								

TABLE D.2.46 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR812010C

DRAFT DO NOT CITE

	METHOD	
AREA	M	QA
LOCATION	E	CONTINUING
TYPE OF LOCATION	T	CAL BLANK 3
SAMPLE NUMBER	H	AR0624143
MATRIX	O	WATER
UNITS	D	UG/L
ENV PROBLEM NO		
ANTIMONY	F	
ARSENIC	F	
CADMIUM	P	4.3 B
LEAD	F	
SELENIUM	F	
SILVER	F	
THALLIUM	F	
% SOLIDS		

TABLE D.2.47 ARGONNE METALS, INCLUDING CR+6 - SDG NUMBER: AR813077K

DRAFT DO NOT CITE

AREA	METHOD	QA	QA	QA	QA	QA	QA	QA
LOCATION		INITIAL CAL	LAB CONTROL	INITIAL CAL	INITIAL CAL	PREP	PREP	LAB CONTROL
TYPE OF LOCATION		TRUE A	SAMPLE TRUE	FOUND A	BLANK	BLANK	BLANK	SAMPLE
SAMPLE NUMBER		ARICV1379	ARLCS1490	ARICV1363	ARICB1299	ARPB01557	ARPB01558	ARLCS1473
MATRIX		WATER	SOIL	WATER	WATER	WATER	WATER	SOIL
UNITS		UG/L	MG/KG	UG/L	UG/L	UG/L	UG/L	MG/KG
ENV PROBLEM NO								
POTASSIUM	FE	1000 B	8150	1000 B	100 U	100 U	100 U	9200
% SOLIDS								

AREA	METHOD		QA	QA
LOCATION		SITE A	CONTINUING	CONTINUING
TYPE OF LOCATION		SITE A	CAL FOUND	CAL BLANK
SAMPLE NUMBER		AR813077A	ARCCV1136	ARCCB1068
MATRIX		SOIL	WATER	WATER
UNITS		MG/KG	UG/L	UG/L
ENV PROBLEM NO		25		
POTASSIUM	FE	900	1000 B	100 U
% SOLIDS		94.7		

Table D.2.48. ANL Metals QC Data Interelement Correction Factors

SDGs using these Interelement Correction Factors: AR300044B, AR300044K, AR300066K, AR302013E, AR302013K, AR308042G, AR406030M, AR500046G, AR501014K, AR507010C, AR507010K, AR802085F, AR802085K, AR813077K

ANALYTE	INTERELEMENT CORRECTION FACTORS FOR:												
	AL	CA	FE	MG	BA	CD	CO	CR	CU	MN	NI	TI	P
Aluminum													
Antimony								1.620E-2					
Arsenic													
Barium			1.206E-5										
Beryllium													
Cadmium	7.714E-6		1.148E-4										
Calcium	9.362E-4			3.400E-4									
Chromium			9.083E-5	1.721E-5						3.260E-4			
Cobalt			6.972E-5		6.600E-4	2.720E-4					4.880E-4		
Copper		4.414E-6	6.357E-5							1.644E-5			
Iron					1.832E-3								
Lead													
Magnesium			1.157E-5										
Manganese	7.711E-6		6.939E-5	4.573E-5									
Mercury													
Nickel					3.030E-4		3.570E-3			5.750E-5			
Potassium													
Selenium													
Silver									1.458E-3				
Sodium													
Thallium													
Vanadium		4.986E-6	8.600E-5	3.146E-5				2.237E-4		4.258E-5			
Zinc			5.216E-5								3.874E-3		

Table D.2.48. ANL Metals QC Data Interelement Correction Factors
(Continued)

SDGs using these Interelement Correction Factors: AR407019D

ANALYTE	INTERELEMENT CORRECTION FACTORS FOR:												
	AL	CA	FE	MG	BA	CD	CO	CR	CU	MN	NI	TI	P
Aluminum		44.6000		45.6000									
Antimony	50.0000												
Arsenic	493.0000												
Barium													
Beryllium													
Cadmium													
Calcium													
Chromium													
Cobalt													
Copper													
Iron													
Lead													
Magnesium													
Manganese													
Mercury													
Nickel													
Potassium													
Selenium													
Silver		18.6000											
Sodium													
Thallium													
Vanadium													
Zinc													

Table D.2.49. ANL Metals QC Data — Linear Range

SDGs: AR300044B, AR300044K, AR300066K, AR302013K, AR308042G, AR500046G, AR507010K, AR802085K, AR813077K

ANALYTE	CONCENTRATION µG/L
Aluminum	7,500
Antimony	10,000
Arsenic	20,000
Barium	5,000
Beryllium	1,500
Cadmium	5,000
Calcium	10,000
Chromium	10,000
Cobalt	10,000
Copper	10,000
Iron	12,000
Lead	50,000
Magnesium	12,000
Manganese	2,500
Mercury	
Nickel	15,000
Potassium	
Selenium	10,000
Silver	10,000
Sodium	10,000
Thallium	
Vanadium	10,000
Zinc	6,000

Table D.2.49. ANL Metals QC Data — Linear Range (continued)

SDGs: AR300044B, AR300044K, AR300066K, AR302013K, AR308042G, AR500046G, AR507010K, AR802085K, AR813077K

ANALYTE	CONCENTRATION µG/L
Aluminum	800,000
Antimony	
Arsenic	
Barium	
Beryllium	
Cadmium	
Calcium	900,000
Chromium	
Cobalt	
Copper	
Iron	800,000
Lead	
Magnesium	500,000
Manganese	200,000
Mercury	
Nickel	
Potassium	
Selenium	
Silver	
Sodium	500,000
Thallium	
Vanadium	
Zinc	

Table D.2.49. ANL Metals QC Data — Linear Range (continued)

SDGs: AR302013E, AR406030K, AR406030M, AR4501014K, AR507010C, AR802085F, AR803019E

ANALYTE	CONCENTRATION µG/L
Aluminum	10,000
Antimony	10,000
Arsenic	20,000
Barium	5,000
Beryllium	1,500
Cadmium	5,000
Calcium	10,000
Chromium	10,000
Cobalt	10,000
Copper	10,000
Iron	12,000
Lead	50,000
Magnesium	12,000
Manganese	2,000
Mercury	
Nickel	15,000
Potassium	
Selenium	10,000
Silver	10,000
Sodium	10,000
Thallium	
Vanadium	10,000
Zinc	6,000

Table D.2.49. ANL Metals QC Data — Linear Range (continued)

SDGs: AR302013E, AR406030K, AR406030M, AR4501014K, AR507010C, AR802085F, AR803019E

ANALYTE	CONCENTRATION µG/L
Aluminum	800,000
Antimony	
Arsenic	
Barium	
Beryllium	
Cadmium	
Calcium	900,000
Chromium	
Cobalt	
Copper	
Iron	800,000
Lead	
Magnesium	500,000
Manganese	200,000
Mercury	
Nickel	
Potassium	
Selenium	
Silver	
Sodium	900,000
Thallium	
Vanadium	
Zinc	

Table D.2.49. ANL Metals QC Data — Linear Range (continued)

SDGs: AR302013D, AR310013C, AR800050C, AR801028C, AR802018E, AR806012D, AR812010C

ANALYTE	CONCENTRATION µG/L
Aluminum	
Antimony	
Arsenic	
Barium	
Beryllium	
Cadmium	10,000
Calcium	
Chromium	
Cobalt	
Copper	
Iron	
Lead	
Magnesium	
Manganese	
Mercury	
Nickel	
Potassium	
Selenium	
Silver	
Sodium	
Thallium	
Vanadium	
Zinc	

Table D.2.49. ANL Metals QC Data — Linear Range (continued)

SDGs: AR407019D

ANALYTE	CONCENTRATION µG/L
Aluminum	100,000
Antimony	50,000
Arsenic	50,000
Barium	10,000
Beryllium	5,000
Cadmium	10,000
Calcium	200,000
Chromium	10,000
Cobalt	10,000
Copper	10,000
Iron	100,000
Lead	50,000
Magnesium	100,000
Manganese	10,000
Mercury	
Nickel	10,000
Potassium	100,000
Selenium	50,000
Silver	10,000
Sodium	
Thallium	50,000
Vanadium	10,000
Zinc	10,000

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)
2	AR302013F	AR302013F	D.3.2 (D-252)
2	AR302024F	AR302013F	D.3.2 (D-252)
2	AR302035F	AR302013F	D.3.2 (D-252)
3	AR307018K	AR307018K	D.3.3 (D-253)
3	AR307029I	AR307018K	D.3.3 (D-253)
3	AR307030I	AR307018K	D.3.3 (D-253)
4	AR308019F	AR302013F	D.3.2 (D-252)
4	AR308020F	AR302013F	D.3.2 (D-252)
4	AR308031F	AR302013F	D.3.2 (D-252)
4	AR308042I	AR302013F	D.3.2 (D-252)
5	AR309010H	AR302013F	D.3.2 (D-252)
5	AR309021H	AR302013F	D.3.2 (D-252)
5	AR309032H	AR302013F	D.3.2 (D-252)
5	AR309043B	AR302013F	D.3.2 (D-252)
5	AR310013E	AR307018K	D.3.3 (D-253)
5	AR310024E	AR307018K	D.3.3 (D-253)
5	AR310035E	AR307018K	D.3.3 (D-253)

TABLE D.3.2 ARGONNE OIL AND GREASE - SDG NUMBER: AR302013F

DRAFT DO NOT CITE

AREA	QA						QA
LOCATION	CALIBRATION	COAL PILE	B815 SEWER	B815 SEWER	B815 SEWER	B815 SEWER	CALIBRATION
TYPE OF LOCATION	VER TRUE	RUNOFF	DRAINAGE	DRAINAGE	DRAINAGE	DRAINAGE	VER FOUND
SAMPLE NUMBER	ARCVA1236	AR308042I	AR309010H	AR309043B	AR309021H	AR309032H	ARCVA1223
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	5	5	5	5	
OIL AND GREASE	32000	2000 U	6000	2000 U	5000	7000	32800

AREA							
LOCATION	SAWMILL CR	SAWMILL CR	SAWMILL CR	COAL PILE	COAL PILE	COAL PILE	
TYPE OF LOCATION	BACKGROUND	BACKGROUND	BACKGROUND	RUNOFF	RUNOFF	RUNOFF	
SAMPLE NUMBER	AR302035F	AR302024F	AR302013F	AR308019F	AR308020F	AR308031F	
MATRIX	SEDIM	SEDIM	SEDIM	SEDIM	SEDIM	SEDIM	
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	
ENV PROBLEM NO	2	2	2	4	4	4	
OIL AND GREASE	260	460	740	570	170	160	

TABLE D.3.3 ARGONNE OIL AND GREASE - SDG NUMBER: AR307018K DRAFT DO NOT CITE

AREA

LOCATION	B815 SEWER	B815 SEWER	B815 SEWER	NPDESOUTF2	NPDESOUTF2	NPDESOUTF2
TYPE OF LOCATION	DRAINAGE	DRAINAGE	DRAINAGE	SEEP	SEEP	SEEP
SAMPLE NUMBER	AR310013E	AR310024E	AR310035E	AR307018K	AR307029I	AR307030I
MATRIX	SEDIM	SEDIM	SEDIM	WATER	WATER	WATER
UNITS	MG/KG	MG/KG	MG/KG	UG/L	UG/L	UG/L
ENV PROBLEM NO	5	5	5	3	3	3
OIL AND GREASE	6900	2600	4300	2000 U	2000 U	2000 U

TABLE D.4.1 DIRECTORY FOR PETROLEUM HYDROCARBONS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
8	AR405017A	AR405017A	D.4.2 (D-255)
8	AR405028A	AR405017A	D.4.2 (D-255)
8	AR405039A	AR405017A	D.4.2 (D-255)
8	AR405040A	AR405017A	D.4.2 (D-256)
8	AR405051A	AR405017A	D.4.2 (D-256)
8	AR405062A	AR405017A	D.4.2 (D-256)
17	AR802018B	AR405017A	D.4.2 (D-258)
17	AR802029B	AR405017A	D.4.2 (D-258)
17	AR802030B	AR405017A	D.4.2 (D-258)
17	AR802041B	AR405017A	D.4.2 (D-258)
17	AR802052B	AR405017A	D.4.2 (D-258)
17	AR802063B	AR405017A	D.4.2 (D-258)
17	AR802074B	AR405017A	D.4.2 (D-259)
17	AR802085B	AR405017A	D.4.2 (D-259)
17	AR802096B	AR405017A	D.4.2 (D-259)
21	AR808014A	AR405017A	D.4.2 (D-256)
21	AR808025A	AR405017A	D.4.2 (D-256)
21	AR808036A	AR405017A	D.4.2 (D-256)

TABLE D.4.2 ARGONNE PETROLEUM HYDROCARBONS - SDG NUMBER: AR405017A DRAFT DO NOT CITE

AREA		QA	QA		QA	QA	QA
LOCATION	B212 U. TA	ISTD RT	ISTD PA	B212 U. TA	ISTD RT	ISTD PA	DUPLICATE
TYPE OF LOCATION	TANKS	CONSISTENCY	CONSISTENCY	TANKS	CONSISTENCY	CONSISTENCY	
SAMPLE NUMBER	AR405017A	AR405017A	AR405017A	AR405028A	AR405028A	AR405028A	AR405028A
MATRIX	SOIL			SOIL			SOIL
UNITS	UG/G	% D	% D	UG/G	% D	% D	UG/G
ENV PROBLEM NO	8	8	8	8	8	8	8
PETROLEUM HYDROCARBONS	100 U			100 U			100 U
INTERNAL STD(N-TRICOSANE)							
INTERNAL STD(PRISTANE)		-0.18	-1.6		-0.18	-4.8	

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	DUPLICATE	DUP ISTD RT	DUP ISTD PA	MATRIX	MS %	MS ISTD RT	MS ISTD PA
TYPE OF LOCATION	RPD	CONSISTENCY	CONSISTENCY	SPIKE	RECOVERY	CONSISTENCY	CONSISTENCY
SAMPLE NUMBER	AR405028A	AR405028A	AR405028A	AR405028A	AR405028A	AR405028A	AR405028A
MATRIX				SOIL			
UNITS	%	% D	% D	UG/G	%	% D	% D
ENV PROBLEM NO	8	8	8	8	8	8	8
PETROLEUM HYDROCARBONS	0			1190	81		
INTERNAL STD(N-TRICOSANE)							
INTERNAL STD(PRISTANE)		-0.2	2.7			-0.22	-13

AREA	QA	QA	QA	QA	QA		QA
LOCATION	MATRIX SPIKE	MSD %	MSD RPD	MSD ISTD RT	MSD ISTD PA	B212 U. TA	ISTD RT
TYPE OF LOCATION	DUPLICATE	RECOVERY		CONSISTENCY	CONSISTENCY	TANKS	CONSISTENCY
SAMPLE NUMBER	AR405028A	AR405028A	AR405028A	AR405028A	AR405028A	AR405039A	AR405039A
MATRIX	SOIL					SOIL	
UNITS	UG/G	%	%	% D	% D	UG/G	% D
ENV PROBLEM NO	8	8	8	8	8	8	8
PETROLEUM HYDROCARBONS	1160	80	1.2			100 U	
INTERNAL STD(N-TRICOSANE)							
INTERNAL STD(PRISTANE)				-0.22	-12		-0.22

TABLE D.4.2 ARGONNE PETROLEUM HYDROCARBONS - SDG NUMBER: AR405017A

DRAFT DO NOT CITE

AREA	QA		QA	QA		QA	QA
LOCATION	ISTD PA CONSISTENCY	B212 U. TA TANKS	ISTD RT CONSISTENCY	ISTD PA CONSISTENCY	B212 U. TA TANKS	ISTD RT CONSISTENCY	ISTD PA CONSISTENCY
TYPE OF LOCATION							
SAMPLE NUMBER	AR405039A	AR405040A	AR405040A	AR405040A	AR405051A	AR405051A	AR405051A
MATRIX		SOIL			SOIL		
UNITS	% D	UG/G	% D	% D	UG/G	% D	% D
ENV PROBLEM NO	8	8	8	8	8	8	8
PETROLEUM HYDROCARBONS		100 U			100 U		
INTERNAL STD(N-TRICOSANE)							
INTERNAL STD(PRISTANE)	4.7		-0.22	3.6		-0.22	4.7

AREA		QA	QA		QA	QA	
LOCATION	B212 U. TA TANKS	ISTD RT CONSISTENCY	ISTD PA CONSISTENCY	NIKE SITE DRAINS	ISTD RT CONSISTENCY	ISTD PA CONSISTENCY	NIKE SITE DRAINS
TYPE OF LOCATION							
SAMPLE NUMBER	AR405062A	AR405062A	AR405062A	AR808014A	AR808014A	AR808014A	AR808025A
MATRIX	SOIL			SOIL			SOIL
UNITS	UG/G	% D	% D	UG/G	% D	% D	UG/G
ENV PROBLEM NO	8	8	8	21	21	21	21
PETROLEUM HYDROCARBONS	100 U			1100 X			850 X
INTERNAL STD(N-TRICOSANE)							
INTERNAL STD(PRISTANE)		-0.24	9.8		-0.2	45	

AREA	QA	QA	QA	QA	QA		QA
LOCATION	ISTD RT CONSISTENCY	ISTD PA CONSISTENCY	BLANK	ISTD RT CONSISTENCY	ISTD PA CONSISTENCY	NIKE SITE DRAINS	ISTD RT CONSISTENCY
TYPE OF LOCATION							
SAMPLE NUMBER	AR808025A	AR808025A	ARPHCBLK1	ARPHCBLK1	ARPHCBLK1	AR808036A	AR808036A
MATRIX			SOIL			SOIL	
UNITS	% D	% D	UG/G	% D	% D	UG/G	% D
ENV PROBLEM NO	21	21				21	21
PETROLEUM HYDROCARBONS			100 U			170 X	
INTERNAL STD(N-TRICOSANE)							
INTERNAL STD(PRISTANE)	-0.2	76		-0.07	-6.5		-0.22

TABLE D.4.2 ARGONNE PETROLEUM HYDROCARBONS - SDG NUMBER: AR405017A

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA		QA	QA
LOCATION	ISTD PA CONSISTENCY	BLANK	ISTD RT CONSISTENCY	ISTD PA CONSISTENCY	REANALYSIS	RE. ISTD RT CONSISTENCY	RE. ISTD PA CONSISTENCY
TYPE OF LOCATION							
SAMPLE NUMBER	AR808036A	ARPHCBLK2	ARPHCBLK2	ARPHCBLK2	AR405028A	AR405028A	AR405028A
MATRIX		SOIL			SOIL		
UNITS	% D	UG/G	% D	% D	UG/G	% D	% D
ENV PROBLEM NO	21				8	8	8
PETROLEUM HYDROCARBONS		100 U			100 U		
INTERNAL STD(N-TRICOSANE)			-0.05	14		-0.14	5.1
INTERNAL STD(PRISTANE)	29						

AREA		QA	QA	QA	QA	QA	QA
LOCATION	REANALYSIS	RE. ISTD RT CONSISTENCY	RE. ISTD PA CONSISTENCY	MATRIX SPIKE	MS % RECOVERY	MS ISTD RT CONSISTENCY	MS ISTD PA CONSISTENCY
TYPE OF LOCATION							
SAMPLE NUMBER	AR808014A	AR808014A	AR808014A	AR808014A	AR808014A	AR808014A	AR808014A
MATRIX	SOIL			SOIL			
UNITS	UG/G	% D	% D	UG/G	%	% D	% D
ENV PROBLEM NO	21	21	21	21	21	21	21
PETROLEUM HYDROCARBONS	2100			3960	112		
INTERNAL STD(N-TRICOSANE)		-0.19	-4.7			-0.2	14
INTERNAL STD(PRISTANE)							

AREA	QA	QA	QA	QA	QA		QA
LOCATION	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	MSD RPD	MSD ISTD RT CONSISTENCY	MSD ISTD PA CONSISTENCY	REANALYSIS	RE. ISTD RT CONSISTENCY
TYPE OF LOCATION							
SAMPLE NUMBER	AR808014A	AR808014A	AR808014A	AR808014A	AR808014A	AR808025A	AR808025A
MATRIX	SOIL					SOIL	
UNITS	UG/G	%	%	% D	% D	UG/G	% D
ENV PROBLEM NO	21	21	21	21	21	21	21
PETROLEUM HYDROCARBONS	3440	84	29			1540	
INTERNAL STD(N-TRICOSANE)				-0.22	-9.2		-0.23
INTERNAL STD(PRISTANE)							

TABLE D.4.2 ARGONNE PETROLEUM HYDROCARBONS - SDG NUMBER: AR405017A DRAFT DO NOT CITE

AREA	QA		QA	QA		QA	QA
LOCATION	RE. ISTD PA	REANALYSIS	RE. ISTD RT	RE. ISTD PA	319 LDF-NW	ISTD RT	ISTD PA
TYPE OF LOCATION	CONSISTENCY		CONSISTENCY	CONSISTENCY	BACKGROUND	CONSISTENCY	CONSISTENCY
SAMPLE NUMBER	AR808025A	AR808036A	AR808036A	AR808036A	AR802018B	AR802018B	AR802018B
MATRIX		SOIL			SOIL		
UNITS	% D	UG/G	% D	% D	UG/G	% D	% D
ENV PROBLEM NO	21	21	21	21	17	17	17
PETROLEUM HYDROCARBONS		275			100 U		
INTERNAL STD(N-TRICOSANE)	-13		-0.05	-26		-0.12	-23
INTERNAL STD(PRISTANE)							

AREA		QA	QA		QA	QA	
LOCATION	319 LDF-NW	ISTD RT	ISTD PA	319 LDF-NW	ISTD RT	ISTD PA	319 LDF-NW
TYPE OF LOCATION	BACKGROUND	CONSISTENCY	CONSISTENCY	BACKGROUND	CONSISTENCY	CONSISTENCY	BACKGROUND
SAMPLE NUMBER	AR802029B	AR802029B	AR802029B	AR802030B	AR802030B	AR802030B	AR802041B
MATRIX	SOIL			SOIL			SOIL
UNITS	UG/G	% D	% D	UG/G	% D	% D	UG/G
ENV PROBLEM NO	17	17	17	17	17	17	17
PETROLEUM HYDROCARBONS	100 U			100 U			100 U
INTERNAL STD(N-TRICOSANE)		-0.14	-46		-0.16	-51	
INTERNAL STD(PRISTANE)							

AREA	QA	QA		QA	QA		QA
LOCATION	ISTD RT	ISTD PA	319 LDF-NW	ISTD RT	ISTD PA	319 LDF-NW	ISTD RT
TYPE OF LOCATION	CONSISTENCY	CONSISTENCY	BACKGROUND	CONSISTENCY	CONSISTENCY	BACKGROUND	CONSISTENCY
SAMPLE NUMBER	AR802041B	AR802041B	AR802052B	AR802052B	AR802052B	AR802063B	AR802063B
MATRIX			SOIL			SOIL	
UNITS	% D	% D	UG/G	% D	% D	UG/G	% D
ENV PROBLEM NO	17	17	17	17	17	17	17
PETROLEUM HYDROCARBONS			100 U			100 U	
INTERNAL STD(N-TRICOSANE)	-0.16	-34		-0.16	-44		-0.16
INTERNAL STD(PRISTANE)							

TABLE D.4.2 ARGONNE PETROLEUM HYDROCARBONS - SDG NUMBER: AR405017A

DRAFT DO NOT CITE

AREA	QA		QA	QA		QA	QA
LOCATION	ISTD PA	319 LDF-NW	ISTD RT	ISTD PA	319 LDF-NW	ISTD RT	ISTD PA
TYPE OF LOCATION	CONSISTENCY	BACKGROUND	CONSISTENCY	CONSISTENCY	BACKGROUND	CONSISTENCY	CONSISTENCY
SAMPLE NUMBER	AR802063B	AR802074B	AR802074B	AR802074B	AR802085B	AR802085B	AR802085B
MATRIX		SOIL			SOIL		
UNITS	% D	UG/G	% D	% D	UG/G	% D	% D
ENV PROBLEM NO	17	17	17	17	17	17	17
PETROLEUM HYDROCARBONS		100 U			100 U		
INTERNAL STD(N-TRICOSANE)	-46		-0.05	-41		0.01	-43
INTERNAL STD(PRISTANE)							

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	MATRIX	MS %	MS ISTD RT	MS ISTD PA	MATRIX SPIKE	MSD %	MSD RPD
TYPE OF LOCATION	SPIKE	RECOVERY	CONSISTENCY	CONSISTENCY	DUPLICATE	RECOVERY	
SAMPLE NUMBER	AR802096B	AR802096B	AR802096B	AR802096B	AR802096B	AR802096B	AR802096B
MATRIX	SOIL				SOIL		
UNITS	UG/G	%	% D	% D	UG/G	%	%
ENV PROBLEM NO	17	17	17	17	17	17	17
PETROLEUM HYDROCARBONS	1650	104			1630	101	2.9
INTERNAL STD(N-TRICOSANE)			0.04	-48			
INTERNAL STD(PRISTANE)							

AREA	QA	QA		QA	QA		QA
LOCATION	MSD ISTD RT	MSD ISTD PA	319 LDF-NW	ISTD RT	ISTD PA	REANALYSIS	RE. ISTD RT
TYPE OF LOCATION	CONSISTENCY	CONSISTENCY	BACKGROUND	CONSISTENCY	CONSISTENCY		CONSISTENCY
SAMPLE NUMBER	AR802096B	AR802096B	AR802096B	AR802096B	AR802096B	AR802096B	AR802096B
MATRIX			SOIL			SOIL	
UNITS	% D	% D	UG/G	% D	% D	UG/G	% D
ENV PROBLEM NO	17	17	17	17	17	17	17
PETROLEUM HYDROCARBONS			100 U			100 U	
INTERNAL STD(N-TRICOSANE)	0.04	-37		0.05	-39		0.03
INTERNAL STD(PRISTANE)							

TABLE D.4.2 ARGONNE PETROLEUM HYDROCARBONS - SDG NUMBER: AR405017A

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	RE. ISTD PA	BLANK	ISTD RT	ISTD PA			
TYPE OF LOCATION	CONSISTENCY		CONSISTENCY	CONSISTENCY			
SAMPLE NUMBER	AR802096B	ARPHCBLK3	ARPHCBLK3	ARPHCBLK3			
MATRIX		SOIL					
UNITS	% D	UG/G	% D	% D			
ENV PROBLEM NO	17						
PETROLEUM HYDROCARBONS		100 U					
INTERNAL STD(N-TRICOSANE)	-33		-0.05	-42			
INTERNAL STD(PRISTANE)							

TABLE D.5.1 DIRECTORY FOR SOIL GAS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
25	AR814012A	AR814012A	D.5.2 (D-262)
25	AR814023A	AR814012A	D.5.2 (D-262)
25	AR814034A	AR814012A	D.5.2 (D-262)
25	AR814078A	AR814012A	D.5.2 (D-262)
26	AR816025A	AR814012A	D.5.2 (D-262)
26	AR816047A	AR814012A	D.5.2 (D-262)
26	AR816058A	AR814012A	D.5.2 (D-262)
26	AR816069A	AR814012A	D.5.2 (D-262)
26	AR816070C	AR814012A	D.5.2 (D-262)
26	AR816081C	AR814012A	D.5.2 (D-262)

TABLE D.5.2 ARGONNE SOIL GAS - SDG NUMBER: AR814012A

DRAFT DO NOT CITE

AREA

LOCATION	SITE A	SITE A	SITE A	SITE A	SUNOCO STA	SUNOCO STA	SUNOCO STA
TYPE OF LOCATION	SITE A	SITE A	SITE A	SITE A	GAS SPILL	GAS SPILL	GAS SPILL
SAMPLE NUMBER	AR814012A	AR814023A	AR814034A	AR814078A	AR816025A	AR816047A	AR816058A
MATRIX	TRAPS	TRAPS	TRAPS	TRAPS	TRAPS	TRAPS	TRAPS
UNITS	NG/TUBE	NG/TUBE	NG/TUBE	NG/TUBE	NG/TUBE	NG/TUBE	NG/TUBE
ENV PROBLEM NO	25	25	25	25	26	26	26
ACETONE	22 U	22 U	22 U	22 U	22 U	22 U	22 U
BENZENE	12 B	8 B	660 B	410	7 U	7 U	14 B
CARBON TETRACHLORIDE	390	520	6400 E	58 U	58 U	1900	3100
CHLOROFORM	47 U	1500	1700	47 U	47 U	47 U	1800
ETHYL ACETATE	16 U	16 U	16 U	91000 E	16 U	170 B	16 U
METHYL ETHYL KETONE	13 U	13 U	13 U	13 U	13 U	66	54
METHYL ISOBUTYL KETONE	14 U	14 U	28	14 U	790	53	1000
METHYLENE CHLORIDE	54 U	54 U	170	54 U	54 U	54 U	54 U
N,N-DIMETHYLFORMAMIDE	890 B	700 B	33000 B	5200 E	18000 B	23000 B	36000 B
TETRAHYDROFURAN	8 U	8 U	240	8 U	45	8 U	8 U
TRICHLOROETHYLENE	39	27	3400 E	23 U	3800 E	440	350

AREA

LOCATION	SUNOCO STA	SUNOCO STA	SUNOCO STA
TYPE OF LOCATION	GAS SPILL	GAS SPILL	GAS SPILL
SAMPLE NUMBER	AR816069A	AR816070C	AR816081C
MATRIX	TRAPS	TRAPS	TRAPS
UNITS	NG/TUBE	NG/TUBE	NG/TUBE
ENV PROBLEM NO	26	26	26
ACETONE	22 U	110	430 B
BENZENE	410 B	7 U	7 U
CARBON TETRACHLORIDE	1600	58 U	81
CHLOROFORM	11000 E	47 U	47 U
ETHYL ACETATE	16 U	16 U	16 U
METHYL ETHYL KETONE	13 U	13 U	13 U
METHYL ISOBUTYL KETONE	200	14 U	14 U
METHYLENE CHLORIDE	54 U	54 U	54 U
N,N-DIMETHYLFORMAMIDE	6200 B	47 U	47 U
TETRAHYDROFURAN	13000 E	8 U	8 U
TRICHLOROETHYLENE	2500 E	23 U	73

TABLE D.6.1 DIRECTORY FOR PCBS & OTHER EXTRACTABLES QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
1	AR300044A	ARG04	D.6.5 (D-282)
1	AR300055A	ARG04	D.6.5 (D-283)
1	AR300066A	ARG05	D.6.6 (D-288)
2	AR302013B	ARG06	D.6.7 (D-294)
2	AR302024B	ARG06	D.6.7 (D-294)
2	AR302035B	ARG06	D.6.7 (D-295)
3	AR307018E	ARG02	D.6.3 (D-274)
3	AR307029E	ARG02	D.6.3 (D-274)
3	AR307030E	ARG02	D.6.3 (D-271)
3	AR307041E	ARG02	D.6.3 (D-274)
4	AR308019B	ARG06	D.6.7 (D-295)
4	AR308020B	ARG06	D.6.7 (D-295)
4	AR308031B	ARG06	D.6.7 (D-295)
4	AR308042E	ARG04	D.6.5 (D-284)
5	AR309021E	ARG02	D.6.3 (D-274)
5	AR309032E	ARG02	D.6.3 (D-274)
5	AR310013B	ARG06	D.6.7 (D-295)
5	AR310024B	ARG06	D.6.7 (D-295)
5	AR310035B	ARG06	D.6.7 (D-296)
6	AR311047A	ARG04	D.6.5 (D-282)
6	AR311058A	ARG04	D.6.5 (D-283)
6	AR311069A	ARG05	D.6.6 (D-288)
6	AR311070A	ARG04	D.6.5 (D-282)
7	AR400012E	ARG02	D.6.3 (D-272)
7	AR401013E	ARG02	D.6.3 (D-273)
7	AR401013E	ARG04	D.6.5 (D-281)
7	AR402014E	ARG04	D.6.5 (D-281)
7	AR403015E	ARG04	D.6.5 (D-282)
9	AR406030H	AR406030J	D.6.8 (D-299)
9	AR406041H	AR406030J	D.6.8 (D-299)
9	AR407019C	AR407019C	D.6.9 (D-302)
9	AR407086C	AR407019C	D.6.9 (D-302)
9	AR407155F	AR406030J	D.6.8 (D-298)
9	AR411015E	ARG05	D.6.6 (D-289)
9	AR411026E	ARG05	D.6.6 (D-289)
9	AR413017H	AR406030J	D.6.8 (D-299)
9	AR413028H	AR406030J	D.6.8 (D-299)
9	AR413062E	AR406030J	D.6.8 (D-299)
9	AR417011C	AR407019C	D.6.9 (D-303)
9	AR420038E	ARG05	D.6.6 (D-288)
10	AR500013E	ARG02	D.6.3 (D-271)
10	AR500024E	ARG02	D.6.3 (D-272)
10	AR500046E	ARG05	D.6.6 (D-289)
10	AR500068E	ARG04	D.6.5 (D-285)
10	AR500080E	ARG05	D.6.6 (D-287)
10	AR500091E	ARG02	D.6.3 (D-272)
10	AR500104E	ARG04	D.6.5 (D-282)
10	AR500126E	ARG02	D.6.3 (D-272)
10	AR500240E	ARG04	D.6.5 (D-283)
10	AR500251E	ARG04	D.6.5 (D-283)
10	AR500273E	ARG05	D.6.6 (D-289)

TABLE D.6.1 DIRECTORY FOR PCBS & OTHER EXTRACTABLES QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
10	AR500295E	ARG02	D.6.3 (D-272)
10	AR500319E	ARG02	D.6.3 (D-272)
10	AR500320E	ARG04	D.6.5 (D-283)
10	AR500331E	ARG05	D.6.6 (D-288)
10	AR500342E	ARG05	D.6.6 (D-288)
10	AR500353E	ARG04	D.6.5 (D-284)
10	AR500477E	ARG05	D.6.6 (D-289)
10	AR500488E	ARG05	D.6.6 (D-290)
10	AR500502E	ARG05	D.6.6 (D-290)
10	AR500557E	ARG05	D.6.6 (D-290)
10	AR500568E	ARG05	D.6.6 (D-290)
10	AR500579E	ARG05	D.6.6 (D-290)
10	AR500580E	ARG05	D.6.6 (D-290)
10	AR500717E	ARG05	D.6.6 (D-287)
11	AR501014B	ARG06	D.6.7 (D-293)
11	AR501025B	ARG06	D.6.7 (D-293)
11	AR501036B	ARG06	D.6.7 (D-294)
11	AR501047B	ARG06	D.6.7 (D-294)
11	AR501058B	ARG06	D.6.7 (D-294)
11	AR501069B	ARG06	D.6.7 (D-294)
12	AR503016A	ARG04	D.6.5 (D-285)
12	AR503027A	ARG04	D.6.5 (D-285)
12	AR503038A	ARG04	D.6.5 (D-285)
12	AR503049A	ARG04	D.6.5 (D-285)
14	AR505018B	ARG01	D.6.2 (D-266)
14	AR505029B	ARG01	D.6.2 (D-266)
16	AR507010B	ARG01	D.6.2 (D-267)
16	AR507021B	ARG01	D.6.2 (D-267)
16	AR507032B	ARG01	D.6.2 (D-267)
16	AR508011E	ARG02	D.6.3 (D-275)
16	AR508022E	ARG02	D.6.3 (D-275)
16	AR508033E	ARG02	D.6.3 (D-275)
16	AR508044E	ARG02	D.6.3 (D-275)
17	AR800016B	ARG01	D.6.2 (D-267)
17	AR800027B	ARG01	D.6.2 (D-267)
17	AR800038B	ARG01	D.6.2 (D-267)
17	AR800049B	ARG01	D.6.2 (D-268)
17	AR800050B	ARG01	D.6.2 (D-268)
17	AR800061B	ARG01	D.6.2 (D-268)
17	AR801017B	ARG03	D.6.4 (D-276)
17	AR801028B	ARG03	D.6.4 (D-276)
17	AR801039B	ARG03	D.6.4 (D-277)
17	AR802018C	ARG01	D.6.2 (D-268)
17	AR802029C	ARG01	D.6.2 (D-268)
17	AR802030C	ARG01	D.6.2 (D-268)
17	AR802041C	ARG01	D.6.2 (D-269)
17	AR802052C	ARG01	D.6.2 (D-269)
17	AR802063C	ARG01	D.6.2 (D-269)
17	AR802074C	ARG01	D.6.2 (D-269)
17	AR802085C	ARG01	D.6.2 (D-269)
17	AR802096C	ARG01	D.6.2 (D-269)
18	AR803019B	ARG03	D.6.4 (D-277)

TABLE D.6.1 DIRECTORY FOR PCBS & OTHER EXTRACTABLES QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
18	AR803020B	ARG03	D.6.4 (D-277)
18	AR803031B	ARG03	D.6.4 (D-277)
18	AR803053B	ARG03	D.6.4 (D-277)
18	AR803064B	ARG03	D.6.4 (D-277)
18	AR804010B	ARG03	D.6.4 (D-280)
18	AR804021B	ARG03	D.6.4 (D-280)
18	AR804032B	ARG03	D.6.4 (D-280)
18	AR804043E	ARG05	D.6.6 (D-288)
19	AR805011B	ARG06	D.6.7 (D-296)
19	AR805022B	ARG06	D.6.7 (D-296)
19	AR805033B	ARG03	D.6.4 (D-280)
20	AR806012B	ARG03	D.6.4 (D-278)
20	AR806023B	ARG03	D.6.4 (D-279)
20	AR806034B	ARG03	D.6.4 (D-279)
20	AR806045B	ARG03	D.6.4 (D-279)
20	AR806056B	ARG03	D.6.4 (D-279)
20	AR806078B	ARG03	D.6.4 (D-279)
20	AR806089B	ARG03	D.6.4 (D-279)
20	AR806090E	ARG05	D.6.6 (D-289)
21	AR808058Z	ARG05	D.6.6 (D-291)
25	AR815137E	ARG05	D.6.6 (D-291)

TABLE D.6.2 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG01

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	EVAL A TUNED CALIBRATION	EVAL B TUNED CALIBRATION	EVAL B TUNED CALIBRATION	RSD	EVAL C TUNED CALIBRATION	317 AREA BURN PILE	317 AREA BURN PILE
TYPE OF LOCATION							
SAMPLE NUMBER	AR112587	AR112587	AR112587	AR112587	AR112587	AR505018B	AR505029B
MATRIX						SOIL	SOIL
UNITS	CF	%	CF	%	CF	UG/KG	UG/KG
ENV PROBLEM NO						14	14
ALDRIN	3790000		4300000	6.29	4080000	9 U	8.7 U
ALPHA CHLORDANE						90 U	87 U
ALPHA-BHC						9 U	8.7 U
AROCLOR-1016						90 U	87 U
AROCLOR-1221						90 U	87 U
AROCLOR-1232						90 U	87 U
AROCLOR-1242						90 U	87 U
AROCLOR-1248						90 U	87 U
AROCLOR-1254						180 U	170 U
AROCLOR-1260						180 U	170 U
BETA-BHC						9 U	8.7 U
COMBINED DBC	0	12	0	0	0		
DELTA-BHC						9 U	8.7 U
DIELDRIN						18 U	17 U
ENDOSULFAN I						9 U	8.7 U
ENDOSULFAN II						18 U	17 U
ENDOSULFAN SULFATE						18 U	17 U
ENDRIN	1220000	0	2270000	35.53	2600000	18 U	17 U
ENDRIN KETONE						18 U	17 U
GAMMA CHLORDANE						90 U	87 U
GAMMA-BHC (LINDANE)						9 U	8.7 U
HEPTACHLOR						9 U	8.7 U
HEPTACHLOR EPOXIDE						9 U	8.7 U
METHOXYCHLOR						90 U	87 U
MIREX	2250000		2480000	6.83	2580000		
TOXAPHENE						180 U	170 U
4,4'-DDD						18 U	30 J
4,4'-DDE						18 J	73 J
4,4'-DDT	885000	17	1240000	18.22	1230000	18 J	200 J
SURR 2(MIR) %RECOVERY						0 *	0 *
ACTUAL(ALLOWED) EXTRACT TIME						8(14 D)	8(14 D)

TABLE D.6.2 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG01 DRAFT DO NOT CITE

AREA				QA			
LOCATION	BLDG 108	BLDG 108	BLDG 108	CONT. CAL	319 LANDF	319 LANDF	319 LANDF
TYPE OF LOCATION	SILT	SILT	SILT	% BREAKDOWN	STREAM	STREAM	STREAM
SAMPLE NUMBER	AR507010B	AR507021B	AR507032B	AR112687	AR800016B	AR800027B	AR800038B
MATRIX	SOIL	SOIL	SOIL		SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	16	16	16		17	17	17
ALDRIN	13 U	16 U	17 U		9.9 U	9.9 U	11 U
ALPHA CHLORDANE	130 U	160 U	170 U		99 U	99 U	110 U
ALPHA-BHC	13 U	16 U	17 U		9.9 U	9.9 U	11 U
AROCLOR-1016	130 U	160 U	170 U		99 U	99 U	110 U
AROCLOR-1221	130 U	160 U	170 U		99 U	99 U	110 U
AROCLOR-1232	130 U	160 U	170 U		99 U	99 U	110 U
AROCLOR-1242	130 U	160 U	170 U		99 U	99 U	110 U
AROCLOR-1248	130 U	160 U	170 U		99 U	99 U	110 U
AROCLOR-1254	270 U	320 U	330 U		200 U	200 U	220 U
AROCLOR-1260	270 U	320 U	330 U		200 U	200 U	220 U
BETA-BHC	13 U	16 U	17 U		9.9 U	9.9 U	11 U
COMBINED DBC				11			
DELTA-BHC	13 U	16 U	17 U		9.9 U	9.9 U	11 U
DIELDRIN	27 U	32 U	33 U		20 U	20 U	22 U
ENDOSULFAN I	13 U	16 U	17 U		9.9 U	9.9 U	11 U
ENDOSULFAN II	27 U	32 U	33 U		20 U	20 U	22 U
ENDOSULFAN SULFATE	27 U	32 U	33 U		20 U	20 U	22 U
ENDRIN	27 U	32 U	33 U	0	20 U	20 U	22 U
ENDRIN KETONE	27 U	32 U	33 U		20 U	20 U	22 U
GAMMA CHLORDANE	130 U	160 U	170 U		99 U	99 U	110 U
GAMMA-BHC (LINDANE)	13 U	16 U	17 U		9.9 U	9.9 U	11 U
HEPTACHLOR	13 U	16 U	17 U		9.9 U	9.9 U	11 U
HEPTACHLOR EPOXIDE	13 U	16 U	17 U		9.9 U	9.9 U	11 U
METHOXYCHLOR	130 U	160 U	170 U		99 U	99 U	110 U
MIREX							
TOXAPHENE	270 U	320 U	330 U		200 U	200 U	220 U
4,4'-DDD	27 U	32 U	33 U		20 U	20 U	22 U
4,4'-DDE	27 U	32 U	33 U		20 U	20 U	22 U
4,4'-DDT	27 U	32 U	33 U	16	20 U	20 U	22 U
SURR 2(MIR) %RECOVERY	0 *	0 D	0 D		0 *	0 *	0 *
ACTUAL(ALLOWED) EXTRACT TIME	8(14 D)	8(14 D)	8(14 D)		8(14 D)	8(14 D)	8(14 D)

TABLE D.6.2 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG01 DRAFT DO NOT CITE

AREA			QA				
LOCATION	319 LANDF	319 LANDF	CONT. CAL	319 LANDF	319 LDF-NW	319 LDF-NW	319 LDF-NW
TYPE OF LOCATION	STREAM	STREAM	% BREAKDOWN	STREAM	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR800049B	AR800050B	AR112787	AR800061B	AR802018C	AR802029C	AR802030C
MATRIX	SOIL	SOIL		SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	%	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	17	17		17	17	17	17
ALDRIN	9.4 U	12 U		10 U	10 U	12 U	10 U
ALPHA CHLORDANE	94 U	120 U		100 U	100 U	120 U	100 U
ALPHA-BHC	9.4 U	12 U		10 U	10 U	12 U	10 U
AROCLOR-1016	94 U	120 U		100 U	100 U	120 U	100 U
AROCLOR-1221	94 U	120 U		100 U	100 U	120 U	100 U
AROCLOR-1232	94 U	120 U		100 U	100 U	120 U	100 U
AROCLOR-1242	94 U	120 U		100 U	100 U	120 U	100 U
AROCLOR-1248	94 U	120 U		100 U	100 U	120 U	100 U
AROCLOR-1254	190 U	230 U		200 U	210 U	230 U	210 U
AROCLOR-1260	190 U	230 U		200 U	210 U	230 U	210 U
BETA-BHC	9.4 U	12 U		10 U	10 U	12 U	10 U
COMBINED DBC			15				
DELTA-BHC	9.4 U	12 U		10 U	10 U	12 U	10 U
DIELDRIN	19 U	23 U		20 U	21 U	23 U	21 U
ENDOSULFAN I	9.4 U	12 U		10 U	10 U	12 U	10 U
ENDOSULFAN II	19 U	23 U		20 U	21 U	23 U	21 U
ENDOSULFAN SULFATE	19 U	23 U		20 U	21 U	23 U	21 U
ENDRIN	19 U	23 U	0	20 U	21 U	23 U	21 U
ENDRIN KETONE	19 U	23 U		20 U	21 U	23 U	21 U
GAMMA CHLORDANE	94 U	120 U		100 U	100 U	120 U	100 U
GAMMA-BHC (LINDANE)	9.4 U	12 U		10 U	10 U	12 U	10 U
HEPTACHLOR	9.4 U	12 U		10 U	10 J	12 J	10 J
HEPTACHLOR EPOXIDE	9.4 U	12 U		10 U	10 U	12 U	10 U
METHOXYCHLOR	94 U	120 U		100 U	100 U	120 U	100 U
MIREX							
TOXAPHENE	190 U	230 U		200 U	210 U	230 U	210 U
4,4'-DDD	19 U	23 U		20 U	21 U	23 U	21 U
4,4'-DDE	19 U	23 U		20 U	21 U	23 U	21 U
4,4'-DDT	19 U	23 U	21	20 U	21 U	23 U	21 U
SURR 2(MIR) %RECOVERY	0 *	0 *		0 *	74	85	91
ACTUAL(ALLOWED) EXTRACT TIME	8(14 D)	8(14 D)		8(14 D)	6(14 D)	6(14 D)	6(14 D)

TABLE D.6.2 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG01 DRAFT DO NOT CITE

AREA		QA					
LOCATION	319 LDF-NW	CONT. CAL	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW
TYPE OF LOCATION	BACKGROUND	% BREAKDOWN	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR802041C	AR112787	AR802052C	AR802063C	AR802074C	AR802085C	AR802096C
MATRIX	SOIL		SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	%	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	17		17	17	17	17	17
ALDRIN	11 U		9.1 U	11 U	10 U	10 U	9.1 U
ALPHA CHLORDANE	110 U		91 U	110 U	100 U	100 U	91 U
ALPHA-BHC	11 U		9.1 U	11 U	10 U	10 U	9.1 U
AROCLOR-1016	110 U		91 U	110 U	100 U	100 U	91 U
AROCLOR-1221	110 U		91 U	110 U	100 U	100 U	91 U
AROCLOR-1232	110 U		91 U	110 U	100 U	100 U	91 U
AROCLOR-1242	110 U		91 U	110 U	100 U	100 U	91 U
AROCLOR-1248	110 U		91 U	110 U	100 U	100 U	91 U
AROCLOR-1254	210 U		180 U	220 U	200 U	200 U	180 U
AROCLOR-1260	210 U		180 U	220 U	200 U	200 U	180 U
BETA-BHC	11 U		9.1 U	11 U	10 U	10 U	9.1 U
COMBINED DBC		13					
DELTA-BHC	11 U		9.1 U	11 U	10 U	10 U	9.1 U
DIELDRIN	21 U		18 U	22 U	20 U	20 U	18 U
ENDOSULFAN I	11 U		9.1 U	11 U	10 U	10 U	9.1 U
ENDOSULFAN II	21 U		18 U	22 U	20 U	20 U	18 U
ENDOSULFAN SULFATE	21 U		18 U	22 U	20 U	20 U	18 U
ENDRIN	21 U	0	18 U	22 U	20 U	20 U	18 U
ENDRIN KETONE	21 U		18 U	22 U	20 U	20 U	18 U
GAMMA CHLORDANE	110 U		91 U	110 U	100 U	100 U	91 U
GAMMA-BHC (LINDANE)	11 U		9.1 U	11 U	10 U	10 U	9.1 U
HEPTACHLOR	11 J		9.1 U	11 U	10 U	10 U	9.1 U
HEPTACHLOR EPOXIDE	11 U		9.1 U	11 U	10 U	10 U	9.1 U
METHOXYCHLOR MIREX	110 U		91 U	110 U	100 U	100 U	91 U
TOXAPHENE	210 U		180 U	220 U	200 U	200 U	180 U
4,4'-DDD	21 U		18 U	22 U	20 U	20 U	18 U
4,4'-DDE	21 U		18 U	22 U	20 U	20 U	18 U
4,4'-DDT	21 U	18	18 U	22 U	20 U	20 U	18 U
SURR 2(MIR) %RECOVERY	87		76	68	94	82	68
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)		6(14 D)	6(14 D)	6(14 D)	6(14 D)	6(14 D)

TABLE D.6.2 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG01

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	CONT. CAL	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %	CONT. CAL
TYPE OF LOCATION	% BREAKDOWN	SPIKE	RECOVERY		DUPLICATE	RECOVERY	% BREAKDOWN
SAMPLE NUMBER	AR112787	AR802096C	AR802096C	AR802096C	AR802096C	AR802096C	AR112787
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	%	UG/KG	%	%	UG/KG	%	%
ENV PROBLEM NO		17	17	17	17	17	
ALDRIN		30	48	13	35	55	
ALPHA CHLORDANE		91 U			91 U		
ALPHA-BHC		9.1 U			9.1 U		
AROCLOR-1016		91 U			91 U		
AROCLOR-1221		91 U			91 U		
AROCLOR-1232		91 U			91 U		
AROCLOR-1242		91 U			91 U		
AROCLOR-1248		91 U			91 U		
AROCLOR-1254		180 U			180 U		
AROCLOR-1260		180 U			180 U		
BETA-BHC		9.1 U			9.1 U		
COMBINED	14						14
DBC							
DELTA-BHC		9.1 U			9.1 U		
DIELDRIN		18 J	2 *	39 *	18 J	1.4 *	
ENDOSULFAN I		9.1 U			9.1 U		
ENDOSULFAN II		18 U			18 U		
ENDOSULFAN SULFATE		18 U			18 U		
ENDRIN	0	55	33 *	11	44	29 *	0
ENDRIN KETONE		18 U			18 U		
GAMMA CHLORDANE		91 U			91 U		
GAMMA-BHC (LINDANE)		31	46	9.9	33	51	
HEPTACHLOR		32	45	13	35	51	
HEPTACHLOR EPOXIDE		9.1 U			9.1 U		
METHOXYCHLOR		91 U			91 U		
MIREX							
TOXAPHENE		180 U			180 U		
4,4'-DDD		19			18 J		
4,4'-DDE		18 U			18 U		
4,4'-DDT	19	110	69	16	130	81	19
SURR 2(MIR) %RECOVERY		70			73		
ACTUAL(ALLOWED) EXTRACT TIME		6(14 D)			6(14 D)		

TABLE D.6.3 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG02

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	EVAL A TUNED CALIBRATION	EVAL B TUNED CALIBRATION	EVAL B TUNED CALIBRATION	RSD	EVAL C TUNED CALIBRATION	NPDESOUTF2 SEEP	RET. TANKS WASTEWATER
TYPE OF LOCATION							
SAMPLE NUMBER	AR120187	AR120187	AR120187	AR120187	AR120187	AR307030E	AR500013E
MATRIX						WATER	WATER
UNITS	CF	%	CF	%	CF	UG/L	UG/L
ENV PROBLEM NO						3	10
ALDRIN	4830000		5080000	3.6	5190000	0.06 U	0.06 U
ALPHA CHLORDANE						0.56 U	0.56 U
ALPHA-BHC						0.06 U	0.06 U
AROCLOR-1016						0.56 U	0.56 U
AROCLOR-1221						0.56 U	0.56 U
AROCLOR-1232						0.56 U	0.56 U
AROCLOR-1242						0.56 U	0.56 U
AROCLOR-1248						0.56 U	0.56 U
AROCLOR-1254						1.1 U	1.1 U
AROCLOR-1260						1.1 U	1.1 U
BETA-BHC						0.06 U	0.06 U
COMBINED		18					
DBC	0		0	0	0		
DELTA-BHC						0.06 U	0.06 U
DIELDRIN						0.11 J	0.11 U
ENDOSULFAN I						0.06 U	0.06 U
ENDOSULFAN II						0.11 U	0.11 U
ENDOSULFAN SULFATE						0.11 U	0.11 U
ENDRIN	2590000	0	2980000	8.29	3020000	0.13 J	0.11 U
ENDRIN KETONE						0.11 U	0.11 U
GAMMA CHLORDANE						0.56 U	0.56 U
GAMMA-BHC (LINDANE)				..		0.06 U	0.06 U
HEPTACHLOR						0.06 U	0.06 U
HEPTACHLOR EPOXIDE						0.06 U	0.06 U
METHOXYCHLOR						0.56 U	0.56 U
MIREX	3000000		3270000	6.76	3430000		
TOXAPHENE						1.1 U	1.1 U
4,4'-DDD						0.11 U	0.11 U
4,4'-DDE						0.11 U	0.11 U
4,4'-DDT	1220000	25	1450000	14.56	1640000	0.66 J	0.25 J
SURR 2(MIR) %RECOVERY						0 *	0 *
ACTUAL(ALLOWED) EXTRACT TIME						2(7 D)	3(7 D)

TABLE D.6.3 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG02

DRAFT DO NOT CITE

AREA				QA			
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	CONT. CAL	RET. TANKS	RET. TANKS	B31 TAP WA
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	% BREAKDOWN	WASTEWATER	WASTEWATER	WELLS
SAMPLE NUMBER	AR500024E	AR500091E	AR500126E	AR120287	AR500295E	AR500319E	AR400012E
MATRIX	WATER	WATER	WATER		WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO	10	10	10		10	10	7
ALDRIN	0.06 U	0.06 U	0.06 U		0.2 J	0.06 U	0.06 U
ALPHA CHLORDANE	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
ALPHA-BHC	0.06 U	0.06 U	0.06 U		0.08 J	0.06 J	0.06 U
AROCLOR-1016	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1221	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1232	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1242	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1248	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1254	1.1 U	1.1 U	1.1 U		1.1 U	1.1 U	1.1 U
AROCLOR-1260	1.1 U	1.1 U	1.1 U		1.1 U	1.1 U	1.1 U
BETA-BHC	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
COMBINED DBC				19			
DELTA-BHC	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
DIELDRIN	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
ENDOSULFAN I	0.06 U	0.06 U	0.06 U		0.06 U	0.1 J	0.06 U
ENDOSULFAN II	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
ENDOSULFAN SULFATE	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
ENDRIN	0.11 U	0.11 U	0.11 U	0	0.11 U	0.29 J	0.11 U
ENDRIN KETONE	0.11 U	0.11 U	0.11 U		0.11 J	0.11 U	0.11 U
GAMMA CHLORDANE	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
GAMMA-BHC (LINDANE)	0.06 U	0.06 U	0.06 U		0.17 J	0.06 U	0.06 U
HEPTACHLOR	0.06 J	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
HEPTACHLOR EPOXIDE	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
METHOXYCHLOR	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
MIREX							
TOXAPHENE	1.1 U	1.1 U	1.1 U		1.1 U	1.1 U	1.1 U
4,4'-DDD	0.11 U	0.11 J	0.11 U		0.18 J	0.11 U	0.11 U
4,4'-DDE	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
4,4'-DDT	0.11 J	0.2 J	0.11 U	25	0.11 U	0.11 J	0.11 U
SURR 2(MIR) %RECOVERY	0 *	0 *	0 *		53	0 *	0 *
ACTUAL(ALLOWED) EXTRACT TIME	3(7 D)	3(7 D)	3(7 D)		3(7 D)	3(7 D)	5(7 D)

TABLE D.6.3 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG02

DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA	QA
LOCATION	B32 TAP WA	MATRIX SPIKE	MS % RECOVERY	RPD	CONT. CAL % BREAKDOWN	MATRIX SPIKE DUPLICATE	MSD % RECOVERY
TYPE OF LOCATION	WELLS	AR401013E	AR401013E	AR401013E	AR120287	AR401013E	AR401013E
SAMPLE NUMBER	AR401013E	WATER	WATER	WATER		WATER	WATER
MATRIX	WATER	UG/L	%	%	%	UG/L	%
UNITS	UG/L						
ENV PROBLEM NO	7	7	7	7		7	7
ALDRIN	0.06 U	0.06 J	64	56 *		0.07	36 *
ALPHA CHLORDANE	0.56 U	0.56 U				0.56 U	
ALPHA-BHC	0.06 U	0.11				0.06 U	
AROCLOR-1016	0.56 U	0.56 U				0.56 U	
AROCLOR-1221	0.56 U	0.56 U				0.56 U	
AROCLOR-1232	0.56 U	0.56 U				0.56 U	
AROCLOR-1242	0.56 U	0.56 U				0.56 U	
AROCLOR-1248	0.56 U	0.56 U				0.56 U	
AROCLOR-1254	1.1 U	1.1 U				1.1 U	
AROCLOR-1260	1.1 U	1.1 U				1.1 U	
BETA-BHC	0.06 U	0.06 U				0.06 U	
COMBINED					18		
DBC							
DELTA-BHC	0.06 U	0.06 U				0.06 U	
DIELDRIN	0.11 U	0.11 J	20 *	27 *		0.11 J	26 *
ENDOSULFAN I	0.06 U	0.06 U				0.06 U	
ENDOSULFAN II	0.11 U	0.11 U				0.11 U	
ENDOSULFAN SULFATE	0.11 U	0.11 U				0.11 U	
ENDRIN	0.11 U	0.11 U	0 *	200 *	0	0.21	33 *
ENDRIN KETONE	0.11 U	0.11 U				0.11 U	
GAMMA CHLORDANE	0.56 U	0.56 U				0.56 U	
GAMMA-BHC (LINDANE)	0.06 U	0.06 J	62	29 *		0.06 J	46 *
HEPTACHLOR	0.06 U	0.06 U	0 *	200 *		0.07	68
HEPTACHLOR EPOXIDE	0.06 U	0.06 U				0.06 U	
METHOXYCHLOR	0.56 U	0.56 U				0.56 U	
MIREX							
TOXAPHENE	1.1 U	1.1 U				1.1 U	
4,4'-DDD	0.11 U	0.11 U				0.11 J	
4,4'-DDE	0.11 U	0.11 U				0.11 U	
4,4'-DDT	0.11 U	0.11 U	0 *	200 *	25	0.33	75
SURR 2(MIR) %RECOVERY	0 *	0 *				0 *	
ACTUAL(ALLOWED) EXTRACT TIME	5(7 D)	5(7 D)				5(7 D)	

TABLE D.6.3 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG02

DRAFT DO NOT CITE

AREA	QA				QA		
LOCATION	METHOD BLANK	NPDESOUTF2	NPDESOUTF2	NPDESOUTF2	CONT. CAL % BREAKDOWN	B815 SEWER DRAINAGE	B815 SEWER DRAINAGE
TYPE OF LOCATION		SEEP	SEEP	SEEP			
SAMPLE NUMBER	AR000000	AR307018E	AR307029E	AR307041E	AR120387	AR309021E	AR309032E
MATRIX	WATER	WATER	WATER	WATER		WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	%	UG/L	UG/L
ENV PROBLEM NO		3	3	3		5	5
ALDRIN	0.06 U	0.06 U	0.56 U	0.06 U		0.06 U	0.06 U
ALPHA CHLORDANE	0.56 U	0.56 U	5.6 U	0.56 U		0.56 U	0.56 U
ALPHA-BHC	0.06 U	0.06 U	0.56 U	0.06 U		0.06 U	0.06 U
AROCLOR-1016	0.56 U	0.56 U	5.6 U	0.56 U		0.56 U	0.56 U
AROCLOR-1221	0.56 U	0.56 U	5.6 U	0.56 U		0.56 U	0.56 U
AROCLOR-1232	0.56 U	0.56 U	5.6 U	0.56 U		0.56 U	0.56 U
AROCLOR-1242	0.56 U	0.56 U	5.6 U	0.56 U		0.56 U	0.56 U
AROCLOR-1248	0.56 U	0.56 U	5.6 U	0.56 U		0.56 U	0.56 U
AROCLOR-1254	1.1 U	1.1 U	11 U	1.1 U		1.1 U	1.1 U
AROCLOR-1260	1.1 U	1.1 U	11 U	1.1 U		1.1 U	1.1 U
BETA-BHC	0.06 U	0.06 U	0.56 U	0.06 U		0.06 U	0.06 U
COMBINED DBC					17		
DELTA-BHC	0.06 U	0.06 U	0.56 U	0.06 U		0.06 U	0.06 U
DIELDRIN	0.11 U	0.11 U	1.1 U	0.11 U		0.11 U	0.11 U
ENDOSULFAN I	0.06 U	0.06 U	0.56 U	0.06 U		0.06 U	0.06 U
ENDOSULFAN II	0.11 U	0.11 U	1.1 U	0.11 U		0.11 U	0.11 U
ENDOSULFAN SULFATE	0.11 U	0.11 U	1.1 U	0.11 U		0.11 U	0.11 U
ENDRIN	0.11 U	0.11 U	1.1 U	0.11 U	0	0.11 U	0.11 U
ENDRIN KETONE	0.11 U	0.11 U	1.1 U	0.11 U		0.11 U	0.11 U
GAMMA CHLORDANE	0.56 U	0.56 U	5.6 U	0.56 U		0.56 U	0.56 U
GAMMA-BHC (LINDANE)	0.06 U	0.06 U	0.56 U	0.06 U		0.06 U	0.06 U
HEPTACHLOR	0.06 U	0.06 U	0.56 U	0.06 U		0.06 J	0.06 U
HEPTACHLOR EPOXIDE	0.06 U	0.06 U	0.56 U	0.06 U		0.06 U	0.06 U
METHOXYCHLOR	0.56 U	0.56 U	5.6 U	0.56 U		0.56 U	0.56 U
MIREX							
TOXAPHENE	1.1 U	1.1 U	11 U	1.1 U		1.1 U	1.1 U
4,4'-DDD	0.11 U	0.11 U	1.1 U	0.11 U		0.11 U	0.11 U
4,4'-DDE	0.11 U	0.11 U	1.1 U	0.11 U		0.11 U	0.11 U
4,4'-DDT	0.11 U	0.11 U	1.1 U	0.11 U	24	0.11 U	0.11 U
SURR 2(MIR) %RECOVERY	0 *	0 *	0 D	0 *		0 *	0 *
ACTUAL(ALLOWED) EXTRACT TIME		7(7 D)	6(7 D)	6(7 D)		7(7 D)	6(7 D)

TABLE D.6.3 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG02

DRAFT DO NOT CITE

AREA					QA
LOCATION	BLDG 108	BLDG 108	BLDG 108	BLDG 108	CONT. CAL
TYPE OF LOCATION	SILT	SILT	SILT	SILT	% BREAKDOWN
SAMPLE NUMBER	AR508011E	AR508022E	AR508033E	AR508044E	AR120387
MATRIX	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	%
ENV PROBLEM NO	16	16	16	16	
ALDRIN	0.06 U	0.06 U	0.06 J	0.06 U	
ALPHA CHLORDANE	0.56 U	0.56 U	0.56 U	0.56 U	
ALPHA-BHC	0.06 U	0.06 U	0.06 U	0.06 U	
AROCLOR-1016	0.56 U	0.56 U	0.56 U	0.56 U	
AROCLOR-1221	0.56 U	0.56 U	0.56 U	0.56 U	
AROCLOR-1232	0.56 U	0.56 U	0.56 U	0.56 U	
AROCLOR-1242	0.56 U	0.56 U	0.56 U	0.56 U	
AROCLOR-1248	0.56 U	0.56 U	0.56 U	0.56 U	
AROCLOR-1254	1.1 U	1.1 U	1.1 U	1.1 U	
AROCLOR-1260	1.1 U	1.1 U	1.1 U	1.1 U	
BETA-BHC	0.06 U	0.06 U	0.06 U	0.06 U	
COMBINED DBC					15
DELTA-BHC	0.06 U	0.06 U	0.06 U	0.06 U	
DIELDRIN	0.11 U	0.11 U	0.11 U	0.11 U	
ENDOSULFAN I	0.06 U	0.06 U	0.06 U	0.06 U	
ENDOSULFAN II	0.11 U	0.11 U	0.11 U	0.11 U	
ENDOSULFAN SULFATE	0.11 U	0.11 U	0.11 U	0.11 U	
ENDRIN	0.11 U	0.11 U	0.11 U	0.11 U	0
ENDRIN KETONE	0.11 U	0.11 U	0.11 U	0.11 U	
GAMMA CHLORDANE	0.56 U	0.56 U	0.56 U	0.56 U	
GAMMA-BHC (LINDANE)	0.06 U	0.06 U	0.06 U	0.06 U	
HEPTACHLOR	0.06 U	0.06 U	0.06 U	0.06 U	
HEPTACHLOR EPOXIDE	0.06 U	0.06 U	0.06 J	0.06 U	
METHOXYCHLOR	0.56 U	0.56 U	0.56 U	0.56 U	
MIREX	1.1 U	1.1 U	1.1 U	1.1 U	
TOXAPHENE	0.11 U	0.11 U	0.11 U	0.11 U	
4,4'-DDD	0.11 U	0.11 U	0.11 U	0.11 U	
4,4'-DDE	0.11 U	0.11 U	0.11 U	0.11 U	21
4,4'-DDT					
SURR 2(MIR) %RECOVERY	0 *	0 *	107	0 *	
ACTUAL(ALLOWED) EXTRACT TIME	6(7 D)	6(7 D)	9(7 D)	9(7 D)	

TABLE D.6.4 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG03

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	EVAL A TUNED CALIBRATION	EVAL B TUNED CALIBRATION	EVAL B TUNED CALIBRATION	RSD	EVAL C TUNED CALIBRATION	319 LNDF-S LANDFILL	319 LNDF-S LANDFILL
TYPE OF LOCATION							
SAMPLE NUMBER	AR120787	AR120787	AR120787	AR120787	AR120787	AR801017B	AR801028B
MATRIX						SOIL	SOIL
UNITS	CF	%	CF	%	CF	UG/KG	UG/KG
ENV PROBLEM NO						17	17
ALDRIN	4710000		5180000	8.02	5530000	9.8 U	9.8 U
ALPHA CHLORDANE						98 U	98 U
ALPHA-BHC						9.8 U	9.8 U
AROCLOR-1016						98 U	98 U
AROCLOR-1221						98 U	98 U
AROCLOR-1232						98 U	98 U
AROCLOR-1242						98 U	98 U
AROCLOR-1248						260 J	98 U
AROCLOR-1254						750 J	490 J
AROCLOR-1260						200 U	200 U
BETA-BHC						9.8 U	9.8 U
COMBINED		15					
DBC	0		0	0	0		
DELTA-BHC						9.8 U	9.8 U
DIELDRIN						20 U	20 U
ENDOSULFAN I						9.8 U	9.8 U
ENDOSULFAN II						20 U	20 U
ENDOSULFAN SULFATE						20 U	20 U
ENDRIN	2710000	0	2870000	4.34	2960000	20 U	20 U
ENDRIN KETONE						20 U	20 U
GAMMA CHLORDANE						98 U	98 U
GAMMA-BHC (LINDANE)						9.8 U	9.8 U
HEPTACHLOR						9.8 U	9.8 U
HEPTACHLOR EPOXIDE						9.8 U	9.8 U
METHOXYCHLOR						98 U	98 U
MIREX	3130000		3330000	7.12	3600000		
TOXAPHENE						200 U	200 U
4,4'-DDD						20 U	20 U
4,4'-DDE						20 U	20 U
4,4'-DDT	1150000	20	1360000	15.8	1580000	20 U	20 U
SURR 2(MIR) %RECOVERY						73	84
ACTUAL(ALLOWED) EXTRACT TIME						12(14 D)	12(14 D)

TABLE D.6.4 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG03 DRAFT DO NOT CITE

AREA				QA			
LOCATION	319 LNDF-S	317 AREA	317 AREA	CONT. CAL	317 AREA	317 AREA	317 AREA
TYPE OF LOCATION	LANDFILL	DRAINAGE	DRAINAGE	% BREAKDOWN	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR801039B	AR803019B	AR803020B	AR120887	AR803031B	AR803053B	AR803064B
MATRIX	SOIL	SOIL	SOIL		SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	17	18	18		18	18	18
ALDRIN	9.8 U	8.2 U	9.4 U		9.8 U	9.3 U	10 U
ALPHA CHLORDANE	98 U	82 U	94 U		98 U	93 U	100 U
ALPHA-BHC	9.8 U	8.2 U	9.4 U		9.8 U	9.3 U	10 U
AROCLOR-1016	98 U	82 U	94 U		98 U	93 U	100 U
AROCLOR-1221	98 U	82 U	94 U		98 U	93 U	100 U
AROCLOR-1232	98 U	82 U	94 U		98 U	93 U	100 U
AROCLOR-1242	98 U	82 U	94 U		98 U	93 U	100 U
AROCLOR-1248	98 U	82 U	94 U		98 J	93 U	270 J
AROCLOR-1254	200 U	240 J	190 U		550 J	190 U	490 J
AROCLOR-1260	200 U	160 U	190 U		550 J	190 U	510 J
BETA-BHC	9.8 U	8.2 U	9.4 U		9.8 U	9.3 U	10 U
COMBINED DBC				14			
DELTA-BHC	9.8 U	8.2 U	9.4 U		9.8 U	9.3 U	10 U
DIELDRIN	20 U	16 U	19 U		20 U	19 U	20 U
ENDOSULFAN I	9.8 U	8.2 U	9.4 U		9.8 U	9.3 U	10 U
ENDOSULFAN II	20 U	16 U	19 U		20 U	19 U	20 U
ENDOSULFAN SULFATE	20 U	16 U	19 U		20 U	19 U	20 U
ENDRIN	20 U	16 U	19 U	0	20 U	19 U	20 U
ENDRIN KETONE	20 U	16 U	19 U		20 U	19 U	20 U
GAMMA CHLORDANE	98 U	82 U	94 U		98 U	93 U	100 U
GAMMA-BHC (LINDANE)	9.8 U	8.2 U	9.4 U		9.8 U	9.3 U	10 U
HEPTACHLOR	9.8 U	8.2 U	9.4 U		9.8 U	9.3 U	10 U
HEPTACHLOR EPOXIDE	9.8 U	8.2 U	9.4 U		9.8 U	9.3 U	10 U
METHOXYCHLOR	98 U	82 U	94 U		98 U	93 U	100 U
MIREX							
TOXAPHENE	200 U	160 U	190 U		200 U	190 U	200 U
4,4'-DDD	20 U	16 U	19 U		20 U	19 U	20 U
4,4'-DDE	20 U	16 U	19 U		20 U	19 U	20 U
4,4'-DDT	20 U	16 U	19 U	19	20 U	19 U	20 U
SURR 2(MIR) %RECOVERY	85	67	80		94	73	104
ACTUAL(ALLOWED) EXTRACT TIME	12(14 D)	18(14 D)	16(14 D)		16(14 D)	16(14 D)	16(14 D)

TABLE D.6.4 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG03

DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA	QA
LOCATION	570 WTP	MATRIX	MS %	RPD	CONT. CAL	MATRIX SPIKE	MSD %
TYPE OF LOCATION	LAGOON	SPIKE	RECOVERY		% BREAKDOWN	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR806012B	AR806012B	AR806012B	AR806012B	AR120887	AR806012B	AR806012B
MATRIX	SOIL	SOIL	SOIL	SOIL		SOIL	SOIL
UNITS	UG/KG	UG/KG	%	%	%	UG/KG	%
ENV PROBLEM NO	20	20	20	20		20	20
ALDRIN	9.7 U	31	46	22		38	57
ALPHA CHLORDANE	97 U	97 U				97 U	
ALPHA-BHC	9.7 U	9.7 U				9.7 U	
AROCLOR-1016	97 U	97 U				97 U	
AROCLOR-1221	97 U	97 U				97 U	
AROCLOR-1232	97 U	97 U				97 U	
AROCLOR-1242	97 U	97 U				97 U	
AROCLOR-1248	200 J	220				160	
AROCLOR-1254	830 J	830				830	
AROCLOR-1260	370 J	2800				2600	
BETA-BHC	9.7 U	9.7 U				9.7 U	
COMBINED							
DBC					14		
DELTA-BHC	9.7 U	9.7 U				9.7 U	
DIELDRIN	19 U	200	118	4.1		210	123
ENDOSULFAN I	9.7 U	9.7 U				9.7 U	
ENDOSULFAN II	19 U	19 U				19 U	
ENDOSULFAN SULFATE	19 U	19 U				19 U	
ENDRIN	19 U	84	50	5.1	0	88	53
ENDRIN KETONE	19 U	19 U				19 U	
GAMMA CHLORDANE	97 U	97 U				97 U	
GAMMA-BHC (LINDANE)	9.7 U	23	34 *	62 *		44	65
HEPTACHLOR	9.7 U	30	45	29		40	60
HEPTACHLOR EPOXIDE	9.7 U	9.7 U				9.7 U	
METHOXYCHLOR	97 U	97 U				97 U	
MIREX							
TOXAPHENE	190 U	190 U				190 U	
4,4'-DDD	19 U	19 U				19 U	
4,4'-DDE	19 U	19 U				19 U	
4,4'-DDT	19 U	210	126	5.2	19	200	120
SURR 2(MIR) %RECOVERY	94	102				95	
ACTUAL(ALLOWED) EXTRACT TIME	10(14 D)	10(14 D)				10(14 D)	

TABLE D.6.4 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG03

DRAFT DO NOT CITE

AREA					QA		
LOCATION	570 WTP LAGOON	570 WTP LAGOON	570 WTP LAGOON	570 WTP LAGOON	CONT. CAL % BREAKDOWN	570 WTP LAGOON	570 WTP LAGOON
TYPE OF LOCATION					AR120987		
SAMPLE NUMBER	AR806023B	AR806034B	AR806045B	AR806056B		AR806078B	AR806089B
MATRIX	SOIL	SOIL	SOIL	SOIL		SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	%	UG/KG	UG/KG
ENV PROBLEM NO	20	20	20	20		20	20
ALDRIN	11 U	10 U	10 U	9.5 U		11 U	12 U
ALPHA CHLORDANE	110 U	100 U	100 U	95 U		110 U	120 U
ALPHA-BHC	11 U	10 U	10 U	9.5 U		11 U	12 U
AROCLOR-1016	110 U	100 U	100 U	95 U		110 U	120 U
AROCLOR-1221	110 U	100 U	100 U	95 U		110 U	120 U
AROCLOR-1232	110 U	100 U	100 U	95 U		110 U	120 U
AROCLOR-1242	110 U	100 U	100 U	95 U		110 U	120 U
AROCLOR-1248	110 U	100 U	100 U	95 U		110 U	550 J
AROCLOR-1254	220 U	200 J	980 J	190 J		300 J	1200 J
AROCLOR-1260	220 U	200 U	470 J	190 U		220 U	640 J
BETA-BHC	11 U	10 U	10 U	9.5 U		11 U	12 U
COMBINED					12		
DBC							
DELTA-BHC	11 U	10 U	10 U	9.5 U		11 U	12 U
DIELDRIN	22 U	20 U	20 U	19 U		22 U	24 U
ENDOSULFAN I	11 U	10 U	10 U	9.5 U		11 U	12 U
ENDOSULFAN II	22 U	20 U	20 U	19 U		22 U	24 U
ENDOSULFAN SULFATE	22 U	20 U	20 U	19 U		22 U	24 U
ENDRIN	22 U	20 U	20 U	19 U	0	22 U	24 U
ENDRIN KETONE	22 U	20 U	20 U	19 U		22 U	24 U
GAMMA CHLORDANE	110 U	100 U	100 U	95 U		110 U	120 U
GAMMA-BHC (LINDANE)	11 U	10 U	10 U	9.5 U		11 U	12 U
HEPTACHLOR	11 U	10 U	10 U	9.5 U		11 U	12 U
HEPTACHLOR EPOXIDE	11 U	10 U	10 U	9.5 U		11 U	12 U
METHOXYCHLOR	110 U	100 U	100 U	95 U		110 U	120 U
MIREX							
TOXAPHENE	220 U	200 U	200 U	190 U		220 U	240 U
4,4'-DDD	22 U	20 U	20 U	19 U		22 U	24 U
4,4'-DDE	22 U	20 U	20 U	19 U		22 U	24 U
4,4'-DDT	22 U	20 U	20 U	19 U	16	22 U	24 U
SURR 2(MIR) %RECOVERY	109	36	96	71		89	99
ACTUAL(ALLOWED) EXTRACT TIME	10(14 D)	10(14 D)	10(14 D)	10(14 D)		10(14 D)	10(14 D)

TABLE D.6.4 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG03 DRAFT DO NOT CITE

AREA	QA			QA			QA
LOCATION	METHOD	SE 317 ARE	SE 317 ARE	CONT. CAL	SE 317 ARE	319 LANDFI	CONT. CAL
TYPE OF LOCATION	BLANK	DRAINAGE	DRAINAGE	% BREAKDOWN	DRAINAGE	LANDFILL	% BREAKDOWN
SAMPLE NUMBER	AR000000	AR804010B	AR804021B	AR120987	AR804032B	AR805033B	AR120987
MATRIX	SOIL	SOIL	SOIL		SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	%	UG/KG	UG/KG	%
ENV PROBLEM NO		18	18		18	19	
ALDRIN	8 U	12 U	11 U		10 U	11 U	
ALPHA CHLORDANE	80 U	120 U	110 U		100 U	110 U	
ALPHA-BHC	8 U	12 U	11 U		10 U	11 U	
AROCLOR-1016	80 U	120 U	110 U		100 J	110 U	
AROCLOR-1221	80 U	120 U	110 U		100 U	110 U	
AROCLOR-1232	80 U	120 U	110 U		100 U	110 U	
AROCLOR-1242	80 U	120 U	110 U		100 U	110 U	
AROCLOR-1248	80 U	120 J	110 J		100 U	110 U	
AROCLOR-1254	160 U	250 J	210 J		410 J	1100 J	
AROCLOR-1260	160 U	250 U	210 U		210 U	1400 J	
BETA-BHC	8 U	12 U	11 U		10 U	11 U	
COMBINED DBC				15			13
DELTA-BHC	8 U	12 U	11 U		10 U	11 U	
DIELDRIN	16 U	24 U	21 U		21 U	22 U	
ENDOSULFAN I	8 U	12 U	11 U		10 U	11 U	
ENDOSULFAN II	16 U	24 U	21 U		21 U	22 U	
ENDOSULFAN SULFATE	16 U	24 U	21 U		21 U	22 U	
ENDRIN	16 U	24 U	21 U	0	21 U	22 U	0
ENDRIN KETONE	16 U	24 U	21 U		21 U	22 U	
GAMMA CHLORDANE	80 U	120 U	110 U		100 U	110 U	
GAMMA-BHC (LINDANE)	8 U	12 U	11 U		10 U	11 U	
HEPTACHLOR	8 U	12 U	11 U		10 U	11 U	
HEPTACHLOR EPOXIDE	8 U	12 U	11 U		10 U	11 U	
METHOXYCHLOR	80 U	120 U	110 U		100 U	110 U	
MIREX							
TOXAPHENE	160 U	240 U	210 U		210 U	220 U	
4,4'-DDD	16 U	24 U	21 U		21 U	22 U	
4,4'-DDE	16 U	24 U	21 U		21 U	22 U	
4,4'-DDT	16 U	24 U	21 U	21	21 U	22 U	19
SURR 2(MIR) %RECOVERY	74	112	97		78	116	
ACTUAL(ALLOWED) EXTRACT TIME		20(14 D)	20(14 D)		20(14 D)	20(14 D)	

TABLE D.6.5 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG04

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	EVAL A TUNED CALIBRATION	EVAL B TUNED CALIBRATION	EVAL B TUNED CALIBRATION	RSD	EVAL C TUNED CALIBRATION	B32 TAP WA WELLS	B163 TAP W WELLS
TYPE OF LOCATION						WELLS	WELLS
SAMPLE NUMBER	AR121087	AR121087	AR121087	AR121087	AR121087	AR401013E	AR402014E
MATRIX						WATER	WATER
UNITS	CF	%	CF	%	CF	UG/L	UG/L
ENV PROBLEM NO						7	7
ALDRIN	9750000		1E+07	4.4	1E+07	0.06 U	0.06 U
ALPHA CHLORDANE						0.56 U	0.56 U
ALPHA-BHC						0.06 U	0.06 U
AROCLOR-1016						0.56 U	0.56 U
AROCLOR-1221						0.56 U	0.56 U
AROCLOR-1232						0.56 U	0.56 U
AROCLOR-1242						0.56 U	0.56 U
AROCLOR-1248						0.56 U	0.56 U
AROCLOR-1254						1.1 U	1.1 U
AROCLOR-1260						1.1 U	1.1 U
BETA-BHC						0.06 U	0.06 U
COMBINED		1.9					
DBC	0		0	0	0		
DELTA-BHC						0.06 U	0.06 U
DIELDRIN						0.11 U	0.11 U
ENDOSULFAN I						0.06 U	0.06 U
ENDOSULFAN II						0.11 U	0.11 U
ENDOSULFAN SULFATE						0.11 U	0.11 U
ENDRIN	5380000	0	5980000	6.47	6080000	0.11 U	0.11 U
ENDRIN KETONE						0.11 U	0.11 U
GAMMA CHLORDANE						0.56 U	0.56 U
GAMMA-BHC (LINDANE)						0.06 U	0.06 U
HEPTACHLOR						0.06 U	0.06 U
HEPTACHLOR EPOXIDE						0.06 U	0.06 U
METHOXYCHLOR						0.56 U	0.56 U
MIREX	5520000		6020000	4.87	6000000		
TOXAPHENE						1.1 U	1.1 U
4,4'-DDD						0.11 U	0.11 U
4,4'-DDE						0.11 U	0.11 U
4,4'-DDT	2140000	2.9	2640000	19.94	3200000	0.11 U	0.11 U
SURR 2(MIR) %RECOVERY						44	30
ACTUAL(ALLOWED) EXTRACT TIME						5(7 D)	5(7 D)

TABLE D.6.5 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG04 DRAFT DO NOT CITE

AREA				QA			QA
LOCATION	B264 TAP W WELLS	NPDESOUTF1 EFFLUENT	NPDES10WTP DISCHARGES	CONT. CAL % BREAKDOWN	NPDES10WTP DISCHARGES	RET. TANKS WASTEWATER	METHOD BLANK
TYPE OF LOCATION							
SAMPLE NUMBER	AR403015E	AR300044A	AR311047A	AR121187	AR311070A	AR500104E	AR000000
MATRIX	WATER	WATER	WATER		WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO	7	1	6		6	10	
ALDRIN	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
ALPHA CHLORDANE	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
ALPHA-BHC	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
AROCLOR-1016	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1221	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1232	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1242	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1248	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1254	1.1 U	1.1 U	1.1 U		1.1 U	1.1 U	1.1 U
AROCLOR-1260	1.1 U	1.1 U	1.1 U		1.1 U	1.1 U	1.1 U
BETA-BHC	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
COMBINED DBC				11			
DELTA-BHC	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
DIELDRIN	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
ENDOSULFAN I	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
ENDOSULFAN II	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
ENDOSULFAN SULFATE	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
ENDRIN	0.11 U	0.11 U	0.11 U	0	0.11 U	0.11 U	0.11 U
ENDRIN KETONE	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
GAMMA CHLORDANE	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
GAMMA-BHC (LINDANE)	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
HEPTACHLOR	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
HEPTACHLOR EPOXIDE	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
METHOXYCHLOR	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
MIREX							
TOXAPHENE	1.1 U	1.1 U	1.1 U		1.1 U	1.1 U	1.1 U
4,4'-DDD	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
4,4'-DDE	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
4,4'-DDT	0.11 U	0.11 U	0.11 U	15	0.11 U	0.11 U	0.11 U
SURR 2(MIR) %RECOVERY	14 *	0 *	0 *		46	30	0 *
ACTUAL(ALLOWED) EXTRACT TIME	5(7 D)	8(7 D)	8(7 D)		8(7 D)	7(7 D)	

TABLE D.6.5 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG04 DRAFT DO NOT CITE

AREA	QA						QA
LOCATION	CONT. CAL	NPDESOUTF1	NPDES10WTP	RET. TANKS	RET. TANKS	RET. TANKS	CONT. CAL
TYPE OF LOCATION	% BREAKDOWN	EFFLUENT	DISCHARGES	WASTEWATER	WASTEWATER	WASTEWATER	% BREAKDOWN
SAMPLE NUMBER	AR121187	AR300055A	AR311058A	AR500240E	AR500251E	AR500320E	AR121287
MATRIX		WATER	WATER	WATER	WATER	WATER	
UNITS	%	UG/L	UG/L	UG/L	UG/L	UG/L	%
ENV PROBLEM NO		1	6	10	10	10	
ALDRIN		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	
ALPHA CHLORDANE		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	
ALPHA-BHC		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	
AROCLOR-1016		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	
AROCLOR-1221		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	
AROCLOR-1232		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	
AROCLOR-1242		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	
AROCLOR-1248		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	
AROCLOR-1254		1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	
AROCLOR-1260		1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	
BETA-BHC		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	
COMBINED DBC	6.6						8.6
DELTA-BHC		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	
DIELDRIN		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	
ENDOSULFAN I		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	
ENDOSULFAN II		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	
ENDOSULFAN SULFATE		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	
ENDRIN	0	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0
ENDRIN KETONE		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	
GAMMA CHLORDANE		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	
GAMMA-BHC (LINDANE)		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	
HEPTACHLOR		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	
HEPTACHLOR EPOXIDE		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	
METHOXYCHLOR		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	
MIREX							
TOXAPHENE		1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	
4,4'-DDD		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	
4,4'-DDE		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	
4,4'-DDT	8.9	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	13
SURR 2(MIR) %RECOVERY		0 *	0 *	0 *	0 *	0 *	
ACTUAL(ALLOWED) EXTRACT TIME		7(7 D)	7(7 D)	6(7 D)	6(7 D)	6(7 D)	

TABLE D.6.5 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG04

DRAFT DO NOT CITE

AREA		QA		QA	QA	QA	QA
LOCATION	RET. TANKS	CONT. CAL	COAL PILE	MATRIX	MS %	RPD	MATRIX SPIKE
TYPE OF LOCATION	WASTEWATER	% BREAKDOWN	RUNOFF	SPIKE	RECOVERY		DUPLICATE
SAMPLE NUMBER	AR500353E	AR121287	AR308042E	AR309010E	AR309010E	AR309010E	AR309010E
MATRIX	WATER		WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	%	UG/L	UG/L	%	%	UG/L
ENV PROBLEM NO	10		4	5	5	5	5
ALDRIN	0.06 U		0.06 U	0.06 U	0 *	0	0.06 U
ALPHA CHLORDANE	0.56 U		0.56 U	0.56 U			0.56 U
ALPHA-BHC	0.06 U		0.06 U	0.06 U			0.06 U
AROCLOR-1016	0.56 U		0.56 U	0.56 U			0.56 U
AROCLOR-1221	0.56 U		0.56 U	0.56 U			0.56 U
AROCLOR-1232	0.56 U		0.56 U	0.56 U			0.56 U
AROCLOR-1242	0.56 U		0.56 U	0.56 U			0.56 U
AROCLOR-1248	0.56 U		0.56 U	0.56 U			0.56 U
AROCLOR-1254	1.1 U		1.1 U	1.1 U			1.1 U
AROCLOR-1260	1.1 U		1.1 U	1.1 U			1.1 U
BETA-BHC	0.06 U		0.06 U	0.06 U			0.06 U
COMBINED DBC		11					
DELTA-BHC	0.06 U		0.06 U	0.06 U			0.06 U
DIELDRIN	0.11 U		0.11 U	0.11 U	0 *	0	0.11 U
ENDOSULFAN I	0.06 U		0.06 U	0.06 U			0.06 U
ENDOSULFAN II	0.11 U		0.11 U	0.11 U			0.11 U
ENDOSULFAN SULFATE	0.11 U		0.11 U	0.11 U			0.11 U
ENDRIN	0.11 U	0	0.11 U	0.11 U	0 *	0	0.11 U
ENDRIN KETONE	0.11 U		0.11 U	0.11 U			0.11 U
GAMMA CHLORDANE	0.56 U		0.56 U	0.56 U			0.56 U
GAMMA-BHC (LINDANE)	0.06 U		0.06 U	0.06 U	0 *	0	0.06 U
HEPTACHLOR	0.06 U		0.06 U	0.06 U	0 *	0	0.06 U
HEPTACHLOR EPOXIDE	0.06 U		0.06 U	0.06 U			0.06 U
METHOXYCHLOR	0.56 U		0.56 U	0.56 U			0.56 U
MIREX							
TOXAPHENE	1.1 U		1.1 U	1.1 U			1.1 U
4,4'-DDD	0.11 U		0.11 U	0.11 U			0.11 U
4,4'-DDE	0.11 U		0.11 U	0.11 U			0.11 U
4,4'-DDT	0.11 U	14	0.11 U	0.11 U	0 *	0	0.11 U
SURR 2(MIR) %RECOVERY	26		0 *	0 *			0 *
ACTUAL(ALLOWED) EXTRACT TIME	6(7 D)		33(7 D)	13(7 D)			13(7 D)

TABLE D.6.5 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG04 DRAFT DO NOT CITE

AREA	QA		QA				
LOCATION	MSD % RECOVERY	RET. TANKS WASTEWATER	CONT. CAL % BREAKDOWN	B145 FLUE DISCHARGES	B145 FLUE DISCHARGES	B145 FLUE DISCHARGES	B145 FLUE DISCHARGES
TYPE OF LOCATION							
SAMPLE NUMBER	AR309010E	AR500068E	AR121287	AR503049A	AR503016A	AR503027A	AR503038A
MATRIX	WATER	WATER		WATER	WATER	WATER	WATER
UNITS	%	UG/L	%	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	5	10		12	12	12	12
ALDRIN	0 *	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
ALPHA CHLORDANE		0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
ALPHA-BHC		0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
AROCLOR-1016		0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1221		0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1232		0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1242		0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1248		0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1254		1.1 U		1.1 U	1.1 U	1.1 U	1.1 U
AROCLOR-1260		1.1 U		1.1 U	1.1 U	1.1 U	1.1 U
BETA-BHC		0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
COMBINED DBC			10				
DELTA-BHC		0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
DIELDRIN	0 *	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U
ENDOSULFAN I		0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
ENDOSULFAN II		0.11 U		0.11 U	0.11 U	0.11 U	0.11 U
ENDOSULFAN SULFATE		0.11 U		0.11 U	0.11 U	0.11 U	0.11 U
ENDRIN	0 *	0.11 U	0	0.11 U	0.11 U	0.11 U	0.11 U
ENDRIN KETONE		0.11 U		0.11 U	0.11 U	0.11 U	0.11 U
GAMMA CHLORDANE		0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
GAMMA-BHC (LINDANE)	0 *	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
HEPTACHLOR	0 *	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
HEPTACHLOR EPOXIDE		0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
METHOXYCHLOR		0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
MIREX							
TOXAPHENE		1.1 U		1.1 U	1.1 U	1.1 U	1.1 U
4,4'-DDD		0.11 U		0.11 U	0.11 U	0.11 U	0.11 U
4,4'-DDE		0.11 U		0.11 U	0.11 U	0.11 U	0.11 U
4,4'-DDT	0 *	0.11 U	14	0.11 U	0.11 U	0.11 U	0.11 U
SURR 2(MIR) %RECOVERY		0 *		48	141	126	149
ACTUAL(ALLOWED) EXTRACT TIME		12(7 D)		28(7 D)	28(7 D)	28(7 D)	28(7 D)

TABLE D.6.5 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG04 DRAFT DO NOT CITE

AREA	QA
LOCATION	CONT. CAL
TYPE OF LOCATION	% BREAKDOWN
SAMPLE NUMBER	AR121387
MATRIX	
UNITS	%
ENV PROBLEM NO	
ALDRIN	
ALPHA CHLORDANE	
ALPHA-BHC	
AROCLOR-1016	
AROCLOR-1221	
AROCLOR-1232	
AROCLOR-1242	
AROCLOR-1248	
AROCLOR-1254	
AROCLOR-1260	
BETA-BHC	
COMBINED	11
DBC	
DELTA-BHC	
DIELDRIN	
ENDOSULFAN I	
ENDOSULFAN II	
ENDOSULFAN SULFATE	
ENDRIN	0
ENDRIN KETONE	
GAMMA CHLORDANE	
GAMMA-BHC (LINDANE)	
HEPTACHLOR	
HEPTACHLOR EPOXIDE	
METHOXYCHLOR	
MIREX	
TOXAPHENE	
4,4'-DDD	
4,4'-DDE	
4,4'-DDT	15
SURR 2(MIR) %RECOVERY	
ACTUAL(ALLOWED) EXTRACT TIME	

TABLE D.6.6 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG05

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	EVAL A TUNED	EVAL B TUNED	EVAL B TUNED	RSD	EVAL C TUNED	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CALIBRATION		CALIBRATION	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR121787	AR121787	AR121787	AR121787	AR121787	AR500080E	AR500717E
MATRIX						WATER	WATER
UNITS	CF	%	CF	%	CF	UG/L	UG/L
ENV PROBLEM NO						10	10
ALDRIN	7550000		7900000	3.34	8060000	0.06 U	0.06 U
ALPHA CHLORDANE						0.56 U	0.56 U
ALPHA-BHC						0.06 U	0.06 U
AROCLOR-1016						0.56 U	0.56 U
AROCLOR-1221						0.56 U	0.56 U
AROCLOR-1232						0.56 U	0.56 U
AROCLOR-1242						0.56 U	0.56 U
AROCLOR-1248						0.56 U	0.56 U
AROCLOR-1254						1.1 U	1.1 U
AROCLOR-1260						1.1 U	1.1 U
BETA-BHC						0.06 U	0.06 U
COMBINED		13					
DBC	0		0	0	0		
DELTA-BHC						0.06 U	0.06 U
DIELDRIN						0.11 U	0.11 U
ENDOSULFAN I						0.06 U	0.06 U
ENDOSULFAN II						0.11 U	0.11 U
ENDOSULFAN SULFATE						0.11 U	0.11 U
ENDRIN	3650000	0	3680000	0.71	3700000	0.11 U	0.11 U
ENDRIN KETONE						0.11 U	0.11 U
GAMMA CHLORDANE						0.56 U	0.56 U
GAMMA-BHC (LINDANE)						0.06 U	0.06 U
HEPTACHLOR						0.06 U	0.06 U
HEPTACHLOR EPOXIDE						0.08 J	0.06 0.05
METHOXYCHLOR						0.56 U	0.56 U
MIREX	5070000		4590000	5.06	4880000		
TOXAPHENE						1.1 U	1.1 U
4,4'-DDD						0.11 U	0.11 U
4,4'-DDE						0.11 U	0.11 U
4,4'-DDT	1480000	18	1870000	16.15	2040000	0.11 U	0.11 U
SURR 2(MIR) %RECOVERY						5.6 *	34
ACTUAL(ALLOWED) EXTRACT TIME						12(7 D)	12(7 D)

TABLE D.6.6 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG05

DRAFT DO NOT CITE

AREA				QA			
LOCATION	SE 317 ARE	NPDESOUTF1	NPDES10WTP	CONT. CAL	317-319 LF	RET. TANKS	RET. TANKS
TYPE OF LOCATION	DRAINAGE	EFFLUENT	DISCHARGES	% BREAKDOWN	WELL	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR804043E	AR300066A	AR311069A	AR121887	AR420038E	AR500331E	AR500342E
MATRIX	WATER	WATER	WATER		WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO	18	1	6		9	10	10
ALDRIN	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
ALPHA CHLORDANE	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
ALPHA-BHC	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
AROCLOR-1016	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1221	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1232	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1242	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1248	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
AROCLOR-1254	1.1 U	1.1 U	1.1 U		1.1 U	1.1 U	1.1 U
AROCLOR-1260	1.1 U	1.1 U	1.1 U		36 J	1.1 U	1.1 U
BETA-BHC	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
COMBINED DBC				14			
DELTA-BHC	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.07 J
DIELDRIN	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
ENDOSULFAN I	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
ENDOSULFAN II	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
ENDOSULFAN SULFATE	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
ENDRIN	0.11 U	0.11 U	0.11 U	0	0.11 U	0.11 U	0.11 U
ENDRIN KETONE	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
GAMMA CHLORDANE	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
GAMMA-BHC (LINDANE)	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
HEPTACHLOR	0.06 U	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U
HEPTACHLOR EPOXIDE	0.11 J	0.06 U	0.06 J		0.06 U	0.06 U	0.08 J
METHOXYCHLOR	0.56 U	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U
MIREX							
TOXAPHENE	1.1 U	1.1 U	1.1 U		1.1 U	1.1 U	1.1 U
4,4'-DDD	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
4,4'-DDE	0.11 U	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U
4,4'-DDT	0.11 U	0.11 U	0.11 U	20	0.11 U	0.11 U	0.11 U
SURR 2(MIR) %RECOVERY	49	9.9 *	0 *		0 *	0 *	0 *
ACTUAL(ALLOWED) EXTRACT TIME	12(7 D)	7(7 D)	7(7 D)		8(7 D)	7(7 D)	7(7 D)

TABLE D.6.6 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG05

DRAFT DO NOT CITE

AREA			QA				
LOCATION	570 WTP	800 LANDFI	CONT. CAL	800 LANDFI	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	LAGOON	WELL	% BREAKDOWN	WELL	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR806090E	AR411015E	AR121987	AR411026E	AR500046E	AR500273E	AR500477E
MATRIX	WATER	WATER		WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	%	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	20	9		9	10	10	10
ALDRIN	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
ALPHA CHLORDANE	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
ALPHA-BHC	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
AROCLOR-1016	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1221	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1232	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1242	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1248	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1254	1.1 U	1.1 U		1.1 U	1.1 U	1.1 U	1.1 U
AROCLOR-1260	1.1 U	1.1 U		1.1 U	1.1 U	1.1 U	1.1 U
BETA-BHC	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
COMBINED DBC			14				
DELTA-BHC	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
DIELDRIN	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U
ENDOSULFAN I	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
ENDOSULFAN II	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U
ENDOSULFAN SULFATE	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U
ENDRIN	0.11 U	0.11 U	0	0.11 U	0.11 U	0.11 U	0.11 U
ENDRIN KETONE	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U
GAMMA CHLORDANE	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
GAMMA-BHC (LINDANE)	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
HEPTACHLOR	0.06 U	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U
HEPTACHLOR EPOXIDE	0.06 U	0.06 U		0.06 J	0.08 J	0.12 J	0.06 U
METHOXYCHLOR	0.56 U	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U
MIREX							
TOXAPHENE	1.1 U	1.1 U		1.1 U	1.1 U	1.1 U	1.1 U
4,4'-DDD	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U
4,4'-DDE	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U
4,4'-DDT	0.11 U	0.11 U	19	0.11 U	0.11 U	0.11 U	0.11 U
SURR 2(MIR) %RECOVERY	23 *	31		13 *	0 *	0 *	0 *
ACTUAL(ALLOWED) EXTRACT TIME	6(7 D)	8(7 D)		8(7 D)	7(7 D)	7(7 D)	12(7 D)

TABLE D.6.6 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG05

DRAFT DO NOT CITE

AREA		QA					
LOCATION	RET. TANKS	CONT. CAL	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	WASTEWATER	% BREAKDOWN	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR500488E	AR121987	AR500502E	AR500557E	AR500568E	AR500579E	AR500580E
MATRIX	WATER		WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	%	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	10		10	10	10	10	10
ALDRIN	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
ALPHA CHLORDANE	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
ALPHA-BHC	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
AROCLOR-1016	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1221	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1232	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1242	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1248	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
AROCLOR-1254	1.1 U		1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
AROCLOR-1260	1.1 U		1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
BETA-BHC	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
COMBINED DBC		15					
DELTA-BHC	0.06 U		0.06 U	0.06 U	0.06 U	0.08 J	0.06 U
DIELDRIN	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ENDOSULFAN I	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
ENDOSULFAN II	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ENDOSULFAN SULFATE	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ENDRIN	0.11 U	0.22	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ENDRIN KETONE	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
GAMMA CHLORDANE	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
GAMMA-BHC (LINDANE)	0.06 U		0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
HEPTACHLOR	0.06 U		0.06 U	0.06 U	0.06 U	0.26 J	0.06 U
HEPTACHLOR EPOXIDE	0.06 U		0.06 J	0.08 J	0.06 U	0.11 J	0.06 U
METHOXYCHLOR	0.56 U		0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
MIREX							
TOXAPHENE	1.1 U		1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
4,4'-DDD	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
4,4'-DDE	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
4,4'-DDT	0.11 U	23	0.11 U	0.11 U	0.11 U	0.11 J	0.11 U
SURR 2(MIR) %RECOVERY	2.1 *		0 *	23 *	0 *	12 *	0 *
ACTUAL(ALLOWED) EXTRACT TIME	12(7 D)		7(7 D)	12(7 D)	8(7 D)	8(7 D)	10(7 D)

TABLE D.6.6 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG05 DRAFT DO NOT CITE

AREA	QA			QA	QA	QA	QA
LOCATION	CONT. CAL	NIKE SITE	SITE A	METHOD	METHOD	MATRIX	MS %
TYPE OF LOCATION	% BREAKDOWN	DRAINS	SITE A	BLANK	BLANK	SPIKE	RECOVERY
SAMPLE NUMBER	AR121987	AR808058Z	AR815137E	AR0000001	AR0000002	AR000000	AR000000
MATRIX		WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	UG/L	UG/L	UG/L	UG/L	UG/L	%
ENV PROBLEM NO		21	25				
ALDRIN		0.06 U	0.06 U	0.03 U	0.03 U	0.26	96
ALPHA CHLORDANE		0.56 U	0.56 U	0.28 U	0.28 U	0.56 U	
ALPHA-BHC		0.06 U	0.06 U	0.03 U	0.03 U	0.06 U	
AROCLOR-1016		0.56 U	0.56 U	0.28 U	0.28 U	0.56 U	
AROCLOR-1221		0.56 U	0.56 U	0.28 U	0.28 U	0.56 U	
AROCLOR-1232		0.56 U	0.56 U	0.28 U	0.28 U	0.56 U	
AROCLOR-1242		0.56 U	0.56 U	0.28 U	0.28 U	0.56 U	
AROCLOR-1248		0.56 U	0.56 U	0.28 U	0.28 U	0.56 U	
AROCLOR-1254		1.1 U	1.1 U	0.56 U	0.56 U	1.1 U	
AROCLOR-1260		1.1 U	1.1 U	0.56 U	0.56 U	1.1 U	
BETA-BHC		0.06 U	0.06 U	0.03 U	0.03 U	0.06 U	
COMBINED	13						
DBC							
DELTA-BHC		0.06 U	0.06 U	0.03 U	0.03 U	0.06 U	
DIELDRIN		0.11 U	0.11 U	0.06 U	0.06 U	0.11 U	194 *
ENDOSULFAN I		0.06 U	0.06 U	0.03 U	0.03 U	0.06 U	
ENDOSULFAN II		0.11 U	0.11 U	0.06 U	0.06 U	0.11 U	
ENDOSULFAN SULFATE		0.11 U	0.11 U	0.06 U	0.06 U	0.11 U	
ENDRIN	0	0.11 U	0.11 U	0.06 U	0.06 U	0.81	127 *
ENDRIN KETONE		0.11 U	0.11 U	0.06 U	0.06 U	0.11 U	
GAMMA CHLORDANE		0.56 U	0.56 U	0.28 U	0.28 U	0.56 U	
GAMMA-BHC (LINDANE)		0.06 U	0.06 U	0.03 U	0.03 U	0.96	110
HEPTACHLOR		0.06 U	0.06 U	0.03 U	0.03 U	0.39	92
HEPTACHLOR EPOXIDE		0.06 J	0.06 U	0.03 U	0.03 J	0.06 U	
METHOXYCHLOR		0.56 U	0.56 U	0.28 U	0.28 U	0.56 U	
MIREX							
TOXAPHENE		1.1 U	1.1 U	0.56 U	0.56 U	1.1 U	
4,4'-DDD		0.11 U	0.11 U	0.06 U	0.06 U	0.17	
4,4'-DDE		0.11 U	0.11 U	0.06 U	0.06 U	0.11 U	
4,4'-DDT	19	0.11 U	0.11 U	0.06 U	0.06 U	3.1	152 *
SURR 2(MIR) %RECOVERY		70	43	7.7 *	11 *	151	
ACTUAL(ALLOWED) EXTRACT TIME		8(7 D)	12(7 D)				

TABLE D.6.6 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG05

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA
LOCATION	RPD	CONT. CAL	MATRIX SPIKE	MSD %	CONT. CAL
TYPE OF LOCATION		% BREAKDOWN	DUPLICATE	RECOVERY	% BREAKDOWN
SAMPLE NUMBER	AR000000	AR121987	AR000000	AR000000	AR121987
MATRIX	WATER		WATER	WATER	
UNITS	%	%	UG/L	%	%
ENV PROBLEM NO					
ALDRIN	41 *		0.29	146 *	
ALPHA CHLORDANE			0.56 U		
ALPHA-BHC			0.06 U		
AROCLOR-1016			0.56 U		
AROCLOR-1221			0.56 U		
AROCLOR-1232			0.56 U		
AROCLOR-1242			0.56 U		
AROCLOR-1248			0.56 U		
AROCLOR-1254			1.1 U		
AROCLOR-1260			1.1 U		
BETA-BHC			0.06 U		
COMBINED		13			22
DBC					
DELTA-BHC			0.06 U		
DIELDRIN	34 *		0.52	275 *	
ENDOSULFAN I			0.06 U		
ENDOSULFAN II			0.11 U		
ENDOSULFAN SULFATE			0.11 U		
ENDRIN	33 *	0	0.83	177 *	0
ENDRIN KETONE			0.11 J		
GAMMA CHLORDANE			0.56 U		
GAMMA-BHC (LINDANE)	13		0.96	124 *	
HEPTACHLOR	30 *		0.39	125	
HEPTACHLOR EPOXIDE			0.06 U		
METHOXYCHLOR			0.56 U		
MIREX					
TOXAPHENE			1.1 U		
4,4'-DDD			0.19		
4,4'-DDE			0.11 U		
4,4'-DDT	15	19	3.3	176 *	23
SURR 2(MIR) %RECOVERY			195 *		
ACTUAL(ALLOWED) EXTRACT TIME					

TABLE D.6.7 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG06

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	EVAL A TUNED	EVAL B TUNED	EVAL B TUNED	RSD	EVAL C TUNED	DRYING BED	DRYING BED
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CALIBRATION		CALIBRATION	SLUDGE	SLUDGE
SAMPLE NUMBER	AR122887	AR122887	AR122887	AR122987	AR122987	AR501014B	AR501025B
MATRIX						SOIL	SOIL
UNITS	CF	%	CF	%	CF	UG/KG	UG/KG
ENV PROBLEM NO						11	11
ALDRIN	8340000		8900000	6.13	9430000	1100 U	1500 U
ALPHA CHLORDANE						11000 U	15000 U
ALPHA-BHC						1100 U	1500 U
AROCLOR-1016						11000 U	15000 U
AROCLOR-1221						11000 U	15000 U
AROCLOR-1232						11000 U	15000 U
AROCLOR-1242						11000 U	15000 U
AROCLOR-1248						200000 JD	320000 JD
AROCLOR-1254						91000 JD	130000 JD
AROCLOR-1260						23000 JD	30000 JD
BETA-BHC						1100 U	1500 U
COMBINED		0					
DBC	0		0	0	0		
DELTA-BHC						1100 U	1500 U
DIELDRIN						2300 U	3000 U
ENDOSULFAN I						1100 U	1500 U
ENDOSULFAN II						2300 U	3000 U
ENDOSULFAN SULFATE						2300 U	3000 U
ENDRIN	3660000	0	3880000	4.45	4000000	2300 U	3000 U
ENDRIN KETONE						2300 U	3000 U
GAMMA CHLORDANE						11000 U	15000 U
GAMMA-BHC (LINDANE)						1100 U	1500 U
HEPTACHLOR						1100 U	1500 U
HEPTACHLOR EPOXIDE						1100 U	1500 U
METHOXYCHLOR						11000 U	15000 U
MIREX	0		5100000	0	5630000		
TOXAPHENE						23000 U	30000 U
4,4'-DDD						2300 U	3000 U
4,4'-DDE						2300 U	3000 U
4,4'-DDT	1450000	0	1740000	15.73	1990000	2300 U	3000 U
SURR 2(MIR) %RECOVERY						0 D	0 D
ACTUAL(ALLOWED) EXTRACT TIME						7(14 D)	7(14 D)

TABLE D.6.7 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG06

DRAFT DO NOT CITE

AREA				QA			
LOCATION	DRYING BED	DRYING BED	DRYING BED	CONT. CAL	DRYING BED	SAWMILL CR	SAWMILL CR
TYPE OF LOCATION	SLUDGE	SLUDGE	SLUDGE	% BREAKDOWN	SLUDGE	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR501036B	AR501047B	AR501058B	AR123087	AR501069B	AR302013B	AR302024B
MATRIX	SOIL	SOIL	SOIL		SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	11	11	11		11	2	2
ALDRIN	1800 U	1600 U	1700 U		1900 U	1100 U	1100 U
ALPHA CHLORDANE	18000 U	16000 U	17000 U		19000 U	11000 U	11000 U
ALPHA-BHC	1800 U	1600 U	1700 U		1900 U	1100 U	1100 U
AROCLOR-1016	18000 U	16000 U	17000 U		19000 U	11000 U	11000 U
AROCLOR-1221	18000 U	16000 U	17000 U		19000 U	11000 U	11000 U
AROCLOR-1232	18000 U	16000 U	17000 U		19000 U	11000 U	11000 U
AROCLOR-1242	18000 U	16000 U	17000 U		19000 U	11000 U	11000 U
AROCLOR-1248	390000 JD	260000 JD	430000 JD		480000 JD	11000 U	11000 U
AROCLOR-1254	180000 JD	130000 JD	120000 JD		140000 JD	23000 U	21000 U
AROCLOR-1260	36000 JD	32000 JD	35000 JD		37000 JD	23000 U	21000 U
BETA-BHC	1800 U	1600 U	1700 U		1900 U	1100 U	1100 U
COMBINED DBC				15			
DELTA-BHC	1800 U	1600 U	1700 U		1900 U	1100 U	1100 U
DIELDRIN	3600 U	3200 U	3500 U		3700 U	2300 U	2100 U
ENDOSULFAN I	1800 U	1600 U	1700 U		1900 U	1100 U	1100 U
ENDOSULFAN II	3600 U	3200 U	3500 U		3700 U	2300 U	2100 U
ENDOSULFAN SULFATE	3600 U	3200 U	3500 U		3700 U	2300 U	2100 U
ENDRIN	3600 U	3200 U	3500 U	1.2	3700 U	2300 U	2100 U
ENDRIN KETONE	3600 U	3200 U	3500 U		3700 U	2300 U	2100 U
GAMMA CHLORDANE	18000 U	16000 U	17000 U		19000 U	11000 U	11000 U
GAMMA-BHC (LINDANE)	1800 U	1600 U	1700 U		1900 U	1100 U	1100 U
HEPTACHLOR	1800 U	1600 U	1700 U		1900 U	1100 U	1100 U
HEPTACHLOR EPOXIDE	1800 U	1600 U	1700 U		1900 U	1100 U	1100 U
METHOXYCHLOR	18000 U	16000 U	17000 U		19000 U	11000 U	11000 U
MIREX							
TOXAPHENE	36000 U	32000 U	35000 U		37000 U	23000 U	21000 U
4,4'-DDD	3600 U	3200 U	3500 U		3700 U	2300 U	2100 U
4,4'-DDE	3600 U	3200 U	3500 U		3700 U	2300 U	2100 U
4,4'-DDT	3600 U	3200 U	3500 U	21	3700 U	2300 U	2100 U
SURR 2(MIR) %RECOVERY	0 D	0 D	0 D		0 D	0 D	0 D
ACTUAL(ALLOWED) EXTRACT TIME	7(14 D)	7(14 D)	7(14 D)		7(14 D)	14(14 D)	14(14 D)

TABLE D.6.7 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG06 DRAFT DO NOT CITE

AREA			QA				
LOCATION	SAWMILL CR	COAL PILE	CONT. CAL	COAL PILE	COAL PILE	B815 SEWER	B815 SEWER
TYPE OF LOCATION	BACKGROUND	RUNOFF	% BREAKDOWN	RUNOFF	RUNOFF	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR302035B	AR308019B	AR123087	AR308020B	AR308031B	AR310013B	AR310024B
MATRIX	SOIL	SOIL		SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	%	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	2	4		4	4	5	5
ALDRIN	980 U	1300 U		1200 U	1100 U	1000 U	1200 U
ALPHA CHLORDANE	9800 U	13000 U		12000 U	11000 U	10000 U	12000 U
ALPHA-BHC	980 U	1300 U		1200 U	1100 U	1000 U	1200 U
AROCLOR-1016	9800 U	13000 U		12000 U	11000 U	10000 U	12000 U
AROCLOR-1221	9800 U	13000 U		12000 U	11000 U	10000 U	12000 U
AROCLOR-1232	9800 U	13000 U		12000 U	11000 U	10000 U	12000 U
AROCLOR-1242	9800 U	13000 U		12000 U	11000 U	10000 U	12000 U
AROCLOR-1248	9800 U	13000 U		12000 U	11000 U	10000 U	12000 U
AROCLOR-1254	20000 U	25000 U		24000 U	22000 U	21000 U	23000 U
AROCLOR-1260	20000 U	25000 U		24000 U	22000 U	21000 U	23000 U
BETA-BHC	980 U	1300 U		1200 U	1100 U	1000 U	1200 U
COMBINED DBC			25				
DELTA-BHC	980 U	1300 U		1200 U	1100 U	1000 U	1200 U
DIELDRIN	2000 U	2500 U		2400 U	2200 U	2100 U	2300 U
ENDOSULFAN I	980 U	1300 U		1200 U	1100 U	1000 U	1200 U
ENDOSULFAN II	2000 U	2500 U		2400 U	2200 U	2100 U	2300 U
ENDOSULFAN SULFATE	2000 U	2500 U		2400 U	2200 U	2100 U	2300 U
ENDRIN	2000 U	2500 U	0	2400 U	2200 U	2100 U	2300 U
ENDRIN KETONE	2000 U	2500 U		2400 U	2200 U	2100 U	2300 U
GAMMA CHLORDANE	9800 U	13000 U		12000 U	11000 U	10000 U	12000 U
GAMMA-BHC (LINDANE)	980 U	1300 U		1200 U	1100 U	1000 U	1200 U
HEPTACHLOR	980 U	1300 U		1200 U	1100 U	1000 U	1200 U
HEPTACHLOR EPOXIDE	980 U	1300 U		1200 U	1100 U	1000 U	1200 U
METHOXYCHLOR	9800 U	13000 U		12000 U	11000 U	10000 U	12000 U
MIREX							
TOXAPHENE	20000 U	25000 U		24000 U	22000 U	21000 U	23000 U
4,4'-DDD	2000 U	2500 U		2400 U	2200 U	2100 U	2300 U
4,4'-DDE	2000 U	2500 U		2400 U	2200 U	2100 U	2300 U
4,4'-DDT	2000 U	2500 U	32	2400 U	2200 U	2100 U	2300 U
SURR 2(MIR) %RECOVERY	0 D	0 D		0 D	0 D	92 D	0 D
ACTUAL(ALLOWED) EXTRACT TIME	14(14 D)	14(14 D)		15(14 D)	15(14 D)	15(14 D)	15(14 D)

TABLE D.6.7 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG06 DRAFT DO NOT CITE

AREA		QA			QA	QA	QA
LOCATION	B815 SEWER	CONT. CAL	319 LANDFI	319 LANDFI	MATRIX	MS %	RPD
TYPE OF LOCATION	DRAINAGE	% BREAKDOWN	LANDFILL	LANDFILL	SPIKE	RECOVERY	
SAMPLE NUMBER	AR310035B	AR123087	AR805011B	AR805022B	AR805022B	AR805022B	AR805022B
MATRIX	SOIL		SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	%	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	5		19	19	19	19	19
ALDRIN	1200 U		1100 U	1200 U	1200 U	0 *	0
ALPHA CHLORDANE	12000 U		11000 U	12000 U	12000 U		
ALPHA-BHC	1200 U		1100 U	1200 U	1200 U		
AROCLOR-1016	12000 U		11000 U	12000 U	12000 U		
AROCLOR-1221	12000 U		11000 U	12000 U	12000 U		
AROCLOR-1232	12000 U		11000 U	12000 U	12000 U		
AROCLOR-1242	12000 U		11000 U	12000 U	12000 U		
AROCLOR-1248	12000 U		24000 JD	12000 U	12000 U		
AROCLOR-1254	25000 U		22000 JD	24000 U	24000 U		
AROCLOR-1260	25000 U		22000 JD	24000 U	24000 U		
BETA-BHC	1200 U		1100 U	1200 U	1200 U		
COMBINED DBC		14					
DELTA-BHC	1200 U		1100 U	1200 U	1200 U		
DIELDRIN	2500 U		2200 U	2400 U	2400 U	0 *	0
ENDOSULFAN I	1200 U		1100 U	1200 U	1200 U		
ENDOSULFAN II	2500 U		2200 U	2400 U	2400 U		
ENDOSULFAN SULFATE	2500 U		2200 U	2400 U	2400 U		
ENDRIN	2500 U	5.9	2200 U	2400 U	2400 U	0 *	0
ENDRIN KETONE	2500 U		2200 U	2400 U	2400 U		
GAMMA CHLORDANE	12000 U		11000 U	12000 U	12000 U		
GAMMA-BHC (LINDANE)	1200 U		1100 U	1200 U	1200 U	0 *	0
HEPTACHLOR	1200 U		1100 U	1200 U	1200 U	0 *	0
HEPTACHLOR EPOXIDE	1200 U		1100 U	1200 U	1200 U		
METHOXYCHLOR	12000 U		11000 U	12000 U	12000 U		
MIREX							
TOXAPHENE	25000 U		22000 U	24000 U	24000 U		
4,4'-DDD	2500 U		2200 U	2400 U	2400 U		
4,4'-DDE	2500 U		2200 U	2400 U	2400 U		
4,4'-DDT	2500 U	18	2200 U	2400 U	2400 U	0 *	0
SURR 2(MIR) %RECOVERY	0 D		0 D	0 D	0 *		
ACTUAL(ALLOWED) EXTRACT TIME	15(14 D)		14(14 D)	14(14 D)	14(14 D)		

TABLE D.6.7 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: ARG06 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA
LOCATION	MATRIX SPIKE	MSD %	METHOD	CONT. CAL
TYPE OF LOCATION	DUPLICATE	RECOVERY	BLANK	% BREAKDOWN
SAMPLE NUMBER	AR805022B	AR805022B	AR000000	AR123187
MATRIX	SOIL	SOIL	SOIL	
UNITS	UG/KG	%	UG/KG	%
ENV PROBLEM NO	19	19		
ALDRIN	1200 U	0 *	800 U	
ALPHA CHLORDANE	12000 U		8000 U	
ALPHA-BHC	1200 U		800 U	
AROCLOR-1016	12000 U		8000 U	
AROCLOR-1221	12000 U		8000 U	
AROCLOR-1232	12000 U		8000 U	
AROCLOR-1242	12000 U		8000 U	
AROCLOR-1248	12000 U		8000 U	
AROCLOR-1254	24000 U		16000 U	
AROCLOR-1260	24000 U		16000 U	
BETA-BHC	1200 U		800 U	
COMBINED DBC				13
DELTA-BHC	1200 U		800 U	
DIELDRIN	2400 U	0 *	1600 U	
ENDOSULFAN I	1200 U		800 U	
ENDOSULFAN II	2400 U		1600 U	
ENDOSULFAN SULFATE	2400 U		1600 U	
ENDRIN	2400 U	0 *	1600 U	0
ENDRIN KETONE	2400 U		1600 U	
GAMMA CHLORDANE	12000 U		8000 U	
GAMMA-BHC (LINDANE)	1200 U	0 *	800 U	
HEPTACHLOR	1200 U	0 *	800 U	
HEPTACHLOR EPOXIDE	1200 U		800 U	
METHOXYCHLOR	12000 U		8000 U	
MIREX				
TOXAPHENE	24000 U		16000 U	
4,4'-DDD	2400 U		1600 U	
4,4'-DDE	2400 U		1600 U	
4,4'-DDT	2400 U	0 *	1600 U	19
SURR 2(MIR) %RECOVERY	0 *		58	
ACTUAL(ALLOWED) EXTRACT TIME	14(14 D)			

TABLE D.6.8 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: AR406030J

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	
LOCATION	EVAL A TUNED CALIBRATION	EVAL B TUNED CALIBRATION	EVAL B TUNED CALIBRATION	RSD	EVAL C TUNED CALIBRATION	METHOD BLANK	WELL #9 WELL
TYPE OF LOCATION						1207PBLK	AR407155F
SAMPLE NUMBER	AR010588	AR010588	AR010588	AR010588	AR010588	WATER	WATER
MATRIX						UG/L	UG/L
UNITS	CF	%	CF	%	CF		
ENV PROBLEM NO							9
ALDRIN						0.05 U	0.051 U
ALPHA CHLORDANE	1410		1330	3.4	1330		
ALPHA-BHC						0.5 U	0.51 U
AROCLOR-1016						0.05 U	0.051 U
AROCLOR-1221						0.5 U	0.51 U
AROCLOR-1232						0.5 U	0.51 U
AROCLOR-1242						0.5 U	0.51 U
AROCLOR-1248						0.5 U	0.51 U
AROCLOR-1254						0.5 U	0.51 U
AROCLOR-1260						1 U	1 U
BETA-BHC						1 U	1 U
COMBINED						0.05 U	0.051 U
DBC		4.3					
DELTA-BHC	836		770	4.4	782		
DIELDRIN						0.05 U	0.051 U
ENDOSULFAN I						0.1 U	0.1 U
ENDOSULFAN II						0.05 U	0.051 U
ENDOSULFAN SULFATE						0.1 U	0.1 U
ENDRIN						0.1 U	0.1 U
ENDRIN KETONE	917	6.7	837	4.6	868	0.1 U	0.1 U
GAMMA CHLORDANE						0.1 U	0.1 U
GAMMA-BHC (LINDANE)						0.5 U	0.51 U
HEPTACHLOR						0.05 U	0.051 U
HEPTACHLOR EPOXIDE						0.05 U	0.051 U
METHOXYCHLOR						0.05 U	0.051 U
MIREX						0.5 U	0.51 U
TOXAPHENE	0		0	0	0		
4,4'-DDD						1 U	1 U
4,4'-DDE						0.1 U	0.1 U
4,4'-DDT						0.1 U	0.1 U
SURR 1(DBC) %RECOVERY	844	3.1	807	2.3	821	0.1 U	0.1 U
ACTUAL(ALLOWED) EXTRACT TIME						22 *	8 *
							5(7 D)

TABLE D.6.8 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: AR406030J

DRAFT DO NOT CITE

AREA				QA			QA
LOCATION	PLOT M	PLOT M	PLOT M NEW	CONT. CAL	WELL #9	WELL #9	MATRIX
TYPE OF LOCATION	WELL	WELL	WELL	% BREAKDOWN	WELL	WELL	SPIKE
SAMPLE NUMBER	AR413028H	AR413017H	AR413062E	AR010688	AR406030H	AR406041H	AR406041K
MATRIX	WATER	WATER	WATER		WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO	9	9	9		9	9	9
ALDRIN	0.051 U	0.057 U	0.051 U		0.052 U	0.05 U	0.18
ALPHA CHLORDANE	0.51 U	0.57 U	0.51 U		0.52 U	0.5 U	0.56 U
ALPHA-BHC	0.051 U	0.006 J	0.051 U		0.052 U	0.05 U	0.056 U
AROCLOR-1016	0.51 U	0.57 U	0.51 U		0.52 U	0.5 U	0.56 U
AROCLOR-1221	0.51 U	0.57 U	0.51 U		0.52 U	0.5 U	0.56 U
AROCLOR-1232	0.51 U	0.57 U	0.51 U		0.52 U	0.5 U	0.56 U
AROCLOR-1242	0.51 U	0.57 U	0.51 U		0.52 U	0.5 U	0.56 U
AROCLOR-1248	0.51 U	0.57 U	0.51 U		0.52 U	0.5 U	0.56 U
AROCLOR-1254	1 U	1.1 U	1 U		1 U	1 U	1.1 U
AROCLOR-1260	1 U	1.1 U	1 U		1 U	1 U	1.1 U
BETA-BHC	0.051 U	0.057 U	0.051 U		0.052 U	0.05 U	0.056 U
COMBINED DBC				3.2			
DELTA-BHC	0.051 U	0.057 U	0.051 U		0.052 U	0.05 U	0.056 U
DIELDRIN	0.1 U	0.11 U	0.1 U		0.1 U	0.1 U	0.5
ENDOSULFAN I	0.051 U	0.057 U	0.051 U		0.052 U	0.05 U	0.056 U
ENDOSULFAN II	0.1 U	0.11 U	0.1 U		0.1 U	0.1 U	0.023 J
ENDOSULFAN SULFATE	0.1 U	0.11 U	0.1 U		0.1 U	0.1 U	0.11 U
ENDRIN	0.1 U	0.11 U	0.1 U	5.1	0.1 U	0.1 U	0.63
ENDRIN KETONE	0.1 U	0.11 U	0.1 U		0.1 U	0.1 U	0.014 J
GAMMA CHLORDANE	0.51 U	0.57 U	0.51 U		0.52 U	0.1 U	0.56 U
GAMMA-BHC (LINDANE)	0.051 U	0.057 U	0.051 U		0.052 U	0.05 U	0.22
HEPTACHLOR	0.051 U	0.057 U	0.051 U		0.052 U	0.05 U	0.2
HEPTACHLOR EPOXIDE	0.051 U	0.057 U	0.051 U		0.052 U	0.05 U	0.056 U
METHOXYCHLOR	0.51 U	0.57 U	0.51 U		0.52 U	0.5 U	0.56 U
MIREX							
TOXAPHENE	1 U	1.1 U	1 U		1 U	1 U	1.1 U
4,4'-DDD	0.1 U	0.11 U	0.1 U		0.031 J	0.1 U	0.11 U
4,4'-DDE	0.1 U	0.11 U	0.1 U		0.1 U	0.1 U	0.11 U
4,4'-DDT	0.1 U	0.11 U	0.1 U	2.2	0.1 U	0.1 U	0.54
SURR 1(DBC) %RECOVERY	79	72	111		82	57	92
ACTUAL(ALLOWED) EXTRACT TIME	6(7 D)	6(7 D)	6(7 D)		4(7 D)	4(7 D)	4(7 D)

TABLE D.6.8 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: AR406030J

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA
LOCATION					
TYPE OF LOCATION	MS % RECOVERY	RPD	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	CONT. CAL % BREAKDOWN
SAMPLE NUMBER	AR406041K	AR406041K	AR406041L	AR406041L	AR010788
MATRIX	WATER	WATER	WATER	WATER	
UNITS	%	%	UG/L	%	%
ENV PROBLEM NO	9	9	9	9	
ALDRIN			0.19		
ALPHA CHLORDANE	82	9.3	0.052 U	90	
ALPHA-BHC			0.052 U		
AROCLOR-1016			0.52 U		
AROCLOR-1221			0.52 U		
AROCLOR-1232			0.52 U		
AROCLOR-1242			0.52 U		
AROCLOR-1248			0.52 U		
AROCLOR-1254			1 U		
AROCLOR-1260			1 U		
BETA-BHC			0.052 U		
COMBINED					3.1
DBC			0.052 U		
DELTA-BHC			0.5	96	
DIELDRIN	89	7.6	0.052 U		
ENDOSULFAN I			0.022 J		
ENDOSULFAN II			0.1 U		
ENDOSULFAN SULFATE			0.61	117	3.7
ENDRIN	112	4.4	0.018 J		
ENDRIN KETONE			0.052 U		
GAMMA CHLORDANE			0.21	100	
GAMMA-BHC (LINDANE)	100	0	0.19	90	
HEPTACHLOR	91	1.1	0.052 U		
HEPTACHLOR EPOXIDE			0.52 U		
METHOXYCHLOR					
MIREX			1 U		
TOXAPHENE			0.033 J		
4,4'-DDD			0.1 U		
4,4'-DDE			0.5	98	2.8
4,4'-DDT	96	2.1			
SURR 1(DBC) %RECOVERY			93		
ACTUAL(ALLOWED) EXTRACT TIME			4(7 D)		

TABLE D.6.9 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: AR407019C

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	EVAL A TUNED CALIBRATION	EVAL B TUNED CALIBRATION	EVAL B TUNED CALIBRATION	RSD	EVAL C TUNED CALIBRATION	CONT. CAL % BREAKDOWN	METHOD BLANK
TYPE OF LOCATION							1207PBLK
SAMPLE NUMBER	AR010588	AR010588	AR010588	AR010588	AR010588	AR010688	
MATRIX							SOIL
UNITS	CF	%	CF	%	CF	%	UG/KG
ENV PROBLEM NO							
ALDRIN	1410		1330	3.4	1330		16 U
ALPHA CHLORDANE							160 U
ALPHA-BHC							16 U
AROCLOR-1016							160 U
AROCLOR-1221							160 U
AROCLOR-1232							160 U
AROCLOR-1242							160 U
AROCLOR-1248							160 U
AROCLOR-1254							320 U
AROCLOR-1260							320 U
BETA-BHC							16 U
COMBINED		4.3				3.2	
DBC	836		770	4.4	782		
DELTA-BHC							16 U
DIELDRIN							32 U
ENDOSULFAN I							16 U
ENDOSULFAN II							1.2 J
ENDOSULFAN SULFATE							32 U
ENDRIN	917	6.7	837	4.6	868	5.1	32 U
ENDRIN KETONE							32 U
GAMMA CHLORDANE							160 U
GAMMA-BHC (LINDANE)							16 U
HEPTACHLOR							0.98 J
HEPTACHLOR EPOXIDE							16 U
METHOXYCHLOR							160 U
MIREX	0		0	0	0		
TOXAPHENE							320 U
4,4'-DDD							32 U
4,4'-DDE							32 U
4,4'-DDT	844	3.1	807	2.3	821	2.2	32 U
SURR 1(DBC) %RECOVERY							102
ACTUAL(ALLOWED) EXTRACT TIME							

TABLE D.6.9 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: AR407019C DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA	
LOCATION	WELL #9	MATRIX SPIKE	MS % RECOVERY	RPD	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	WELL #6
TYPE OF LOCATION	WELL						WELL
SAMPLE NUMBER	AR407019C	AR407019C	AR407019C	AR407019C	AR407019C	AR407019C	AR407086C
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	%	%	UG/KG	%	UG/KG
ENV PROBLEM NO	9	9	9	9	9	9	9
ALDRIN	20 U	72	106	2.9	70	103	18 U
ALPHA CHLORDANE	200 U	200 U			200 U		200 U
ALPHA-BHC	20 U	20 U			20 U		18 U
AROCLOR-1016	200 U	200 U			200 U		200 U
AROCLOR-1221	200 U	200 U			200 U		200 U
AROCLOR-1232	200 U	200 U			200 U		200 U
AROCLOR-1242	200 U	200 U			200 U		200 U
AROCLOR-1248	200 U	200 U			200 U		200 U
AROCLOR-1254	410 U	410 U			410 U		400 U
AROCLOR-1260	410 U	410 U			410 U		400 U
BETA-BHC	20 U	20 U			20 U		18 U
COMBINED DBC							
DELTA-BHC	20 U	20 U			20 U		18 U
DIELDRIN	41 U	190	112	11	170	100	40 U
ENDOSULFAN I	20 U	20 U			20 U		18 U
ENDOSULFAN II	3.2 JB	3.2 JB			3.2 JB		40 U
ENDOSULFAN SULFATE	41 U	41 U			41 U		40 U
ENDRIN	3.5 J	230	133	9.4	210	121	40 U
ENDRIN KETONE	41 U	41 U			41 J		40 U
GAMMA CHLORDANE	2.1 J	2.1 J			2.1 J		200 U
GAMMA-BHC (LINDANE)	20 U	76	112	5.5	72	106	18 U
HEPTACHLOR	20 U	74	109	0	74	109	18 U
HEPTACHLOR EPOXIDE	20 U	20 U			20 U		18 U
METHOXYCHLOR	200 U	200 U			200 U		200 U
MIREX							
TOXAPHENE	410 U	410 U			410 U		400 U
4,4'-DDD	41 U	41 U			41 U		40 U
4,4'-DDE	8.6 J	8.6 J			8.6 J		40 U
4,4'-DDT	41 U	210	124	16	180	106	40 U
SURR 1(DBC) %RECOVERY	115	134			128		139
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)	6(14 D)			6(14 D)		12(14 D)

TABLE D.6.9 ARGONNE PCBS & OTHER EXTRACTABLES - SDG NUMBER: AR407019C DRAFT DO NOT CITE

AREA	QA						
LOCATION	CONT. CAL	319 LANDF.					
TYPE OF LOCATION	% BREAKDOWN	WELL					
SAMPLE NUMBER	AR010788	AR417011C					
MATRIX		SOIL					
UNITS	%	UG/KG					
ENV PROBLEM NO		9					
ALDRIN		19 U					
ALPHA CHLORDANE		190 U					
ALPHA-BHC		19 U					
AROCLOR-1016		190 U					
AROCLOR-1221		190 U					
AROCLOR-1232		190 U					
AROCLOR-1242		190 U					
AROCLOR-1248		190 U					
AROCLOR-1254		380 U					
AROCLOR-1260		380 U					
BETA-BHC		19 U					
COMBINED DBC	3.1						
DELTA-BHC		19 U					
DIELDRIN		38 U					
ENDOSULFAN I		19 U					
ENDOSULFAN II		38 U					
ENDOSULFAN SULFATE		38 U					
ENDRIN	3.7	38 U					
ENDRIN KETONE		38 U					
GAMMA CHLORDANE		190 U					
GAMMA-BHC (LINDANE)		19 U					
HEPTACHLOR		19 U					
HEPTACHLOR EPOXIDE		19 U					
METHOXYCHLOR		190 U					
MIREX							
TOXAPHENE		380 U					
4,4'-DDD		38 U					
4,4'-DDE		38 U					
4,4'-DDT	2.8	38 U					
SURR 1(DBC) %RECOVERY		90					
ACTUAL(ALLOWED) EXTRACT TIME		8(14 D)					

TABLE D.7.1 DIRECTORY FOR EXTRACTABLE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
1	AR300044A	DD23	D.7.21 (D-442)
1	AR300055A	DD24	D.7.22 (D-448)
1	AR300066A	DD28	D.7.25 (D-466)
2	AR302013B	CD28	D.7.9 (D-359)
2	AR302024B	CD28	D.7.9 (D-359)
2	AR302035B	CD28	D.7.9 (D-359)
3	AR307018E	DD21	D.7.18 (D-416)
3	AR307029E	DD21	D.7.18 (D-416)
3	AR307030E	DD21B	D.7.19 (D-427)
3	AR307041E	DD21	D.7.18 (D-418)
4	AR308019B	CD28	D.7.9 (D-361)
4	AR308020B	CD28	D.7.9 (D-361)
4	AR308031B	CD28	D.7.9 (D-361)
5	AR309010E	DD26	D.7.24 (D-457)
5	AR309021E	DD21	D.7.18 (D-418)
5	AR309032E	DD21	D.7.18 (D-418)
5	AR310013B	CD28	D.7.9 (D-361)
5	AR310024B	CD28	D.7.9 (D-361)
5	AR310035B	CD28	D.7.9 (D-361)
6	AR311047A	DD24	D.7.22 (D-446)
6	AR311058A	DD24	D.7.22 (D-448)
6	AR311069A	DD28	D.7.25 (D-466)
6	AR311070A	DD24	D.7.22 (D-446)
7	AR400012E	DD22	D.7.20 (D-433)
7	AR401013E	DD22	D.7.20 (D-436)
7	AR401013E	DD23	D.7.21 (D-440)
7	AR402014E	DD23	D.7.21 (D-442)
7	AR403015E	DD23	D.7.21 (D-442)
9	AR406030E	AR406030G	D.7.2 (D-313)
9	AR406041E	AR406030G	D.7.2 (D-310)
9	AR407019C	AR406030G	D.7.2 (D-316)
9	AR407086C	AR406030G	D.7.2 (D-316)
9	AR407155E	AR406030G	D.7.2 (D-313)
9	AR411015E	DD29	D.7.26 (D-472)
9	AR411026E	DD29	D.7.26 (D-472)
9	AR412016E	DD23	D.7.21 (D-440)
9	AR412027E	DD23	D.7.21 (D-440)
9	AR413017E	AR406030G	D.7.2 (D-313)
9	AR413028E	AR406030G	D.7.2 (D-316)
9	AR413062F	AR406030G	D.7.2 (D-313)
9	AR415019E	DD26	D.7.24 (D-457)
9	AR415020E	DD26	D.7.24 (D-457)
9	AR417011C	AR406030G	D.7.2 (D-316)
9	AR419013E	DD22	D.7.20 (D-431)
9	AR419024E	DD22	D.7.20 (D-431)
9	AR420016E	DD28	D.7.25 (D-466)
9	AR420027E	DD28	D.7.25 (D-466)
9	AR420038E	DD29	D.7.26 (D-470)
10	AR500013E	DD21B	D.7.19 (D-427)
10	AR500024E	DD21B	D.7.19 (D-427)
10	AR500046E	DD29	D.7.26 (D-472)

TABLE D.7.1 DIRECTORY FOR EXTRACTABLE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
10	AR500068E	DD28	D.7.25 (D-464)
10	AR500080E	DD28	D.7.25 (D-466)
10	AR500091E	DD21B	D.7.19 (D-425)
10	AR500104E	DD24	D.7.22 (D-446)
10	AR500115E	DD24	D.7.22 (D-448)
10	AR500126E	DD21B	D.7.19 (D-425)
10	AR500240E	DD24	D.7.22 (D-448)
10	AR500251E	DD25	D.7.23 (D-452)
10	AR500273E	DD29	D.7.26 (D-472)
10	AR500295E	DD21B	D.7.19 (D-425)
10	AR500319E	DD21B	D.7.19 (D-425)
10	AR500320E	DD25	D.7.23 (D-452)
10	AR500331E	DD29	D.7.26 (D-470)
10	AR500342E	DD29	D.7.26 (D-470)
10	AR500353E	DD25	D.7.23 (D-452)
10	AR500477E	DD29	D.7.26 (D-472)
10	AR500488E	DD30	D.7.27 (D-476)
10	AR500502E	DD30	D.7.27 (D-476)
10	AR500524E	DD26	D.7.24 (D-455)
10	AR500546E	DD26	D.7.24 (D-455)
10	AR500557E	DD30	D.7.27 (D-476)
10	AR500568E	DD30	D.7.27 (D-478)
10	AR500579E	DD30	D.7.27 (D-478)
10	AR500580E	DD30	D.7.27 (D-478)
10	AR500717E	DD28	D.7.25 (D-464)
11	AR501014B	CD25	D.7.7 (D-349)
11	AR501025B	CD26	D.7.8 (D-353)
11	AR501036B	CD26	D.7.8 (D-353)
11	AR501047B	CD26	D.7.8 (D-353)
11	AR501058B	CD26	D.7.8 (D-355)
11	AR501069B	CD26	D.7.8 (D-355)
11	AR501070E	DD26	D.7.24 (D-455)
14	AR505018B	CD22	D.7.4 (D-329)
14	AR505029B	CD22	D.7.4 (D-329)
16	AR507010B	CD22	D.7.4 (D-329)
16	AR507021B	CD22	D.7.4 (D-331)
16	AR507032B	CD22	D.7.4 (D-331)
16	AR508011E	DD21B	D.7.19 (D-427)
16	AR508022E	DD21B	D.7.19 (D-427)
16	AR508033E	DD22	D.7.20 (D-433)
16	AR508044E	DD22	D.7.20 (D-433)
17	AR800016B	CD22	D.7.4 (D-331)
17	AR800027B	CD22	D.7.4 (D-331)
17	AR800038B	CD22	D.7.4 (D-331)
17	AR800049B	CD22	D.7.4 (D-331)
17	AR800050B	CD23	D.7.5 (D-335)
17	AR800061B	CD23	D.7.5 (D-335)
17	AR801017B	C106	D.7.16 (D-404)
17	AR801028B	C106	D.7.16 (D-404)
17	AR801039B	C106	D.7.16 (D-406)
17	AR802018C	CD23	D.7.5 (D-337)
17	AR802029C	CD24	D.7.6 (D-341)

TABLE D.7.1 DIRECTORY FOR EXTRACTABLE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
17	AR802030C	CD24	D.7.6 (D-341)
17	AR802041C	CD24	D.7.6 (D-341)
17	AR802052C	CD24	D.7.6 (D-343)
17	AR802063C	CD24	D.7.6 (D-343)
17	AR802074C	CD24	D.7.6 (D-343)
17	AR802085C	CD24	D.7.6 (D-343)
17	AR802096C	CD24	D.7.6 (D-343)
17	AR802109G	DD24	D.7.22 (D-448)
18	AR803019B	C106	D.7.16 (D-406)
18	AR803020B	C107	D.7.17 (D-410)
18	AR803031B	C107	D.7.17 (D-410)
18	AR803053B	C107	D.7.17 (D-410)
18	AR803064B	C107	D.7.17 (D-412)
18	AR804010B	CD29	D.7.10 (D-367)
18	AR804021B	CD29	D.7.10 (D-367)
18	AR804032B	CD29	D.7.10 (D-367)
18	AR804043E	DD28	D.7.25 (D-464)
19	AR805011B	CD29	D.7.10 (D-365)
19	AR805022B	CD29	D.7.10 (D-365)
19	AR805033B	CD29	D.7.10 (D-370)
20	AR806012B	CD30	D.7.11 (D-376)
20	AR806023B	CD31	D.7.12 (D-380)
20	AR806034B	CD31	D.7.12 (D-380)
20	AR806045B	CD31	D.7.12 (D-380)
20	AR806056B	CD31	D.7.12 (D-382)
20	AR806078B	CD31	D.7.12 (D-382)
20	AR806089B	CD31	D.7.12 (D-382)
20	AR806090E	DD29	D.7.26 (D-472)
21	AR807013B	C104	D.7.14 (D-392)
21	AR807024B	C104	D.7.14 (D-392)
21	AR807035B	C104	D.7.14 (D-392)
21	AR807046B	C104	D.7.14 (D-394)
21	AR807057B	C104	D.7.14 (D-394)
21	AR807068B	C104	D.7.14 (D-394)
21	AR807079B	C104	D.7.14 (D-394)
21	AR807080B	C104	D.7.14 (D-394)
21	AR808058	DD30	D.7.27 (D-478)
23	AR810018B	CD31	D.7.12 (D-382)
23	AR810029B	CD31	D.7.12 (D-382)
23	AR810030B	CD31	D.7.12 (D-382)
23	AR810041B	C101	D.7.13 (D-386)
23	AR810052B	C101	D.7.13 (D-386)
23	AR810063B	C101	D.7.13 (D-386)
23	AR810074B	C101	D.7.13 (D-388)
23	AR810085B	C101	D.7.13 (D-388)
23	AR810096B	C101	D.7.13 (D-388)
25	AR812010B	C104	D.7.14 (D-394)
25	AR812021B	C105	D.7.15 (D-398)
25	AR812032B	C105	D.7.15 (D-400)
25	AR812043B	C105	D.7.15 (D-400)
25	AR812054B	C105	D.7.15 (D-400)
25	AR812065B	C105	D.7.15 (D-400)

TABLE D.7.1 DIRECTORY FOR EXTRACTABLE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
25	AR815137E	DD30	D.7.27 (D-478)
27	AR817015C	CD25	D.7.7 (D-349)
27	AR817026C	CD25	D.7.7 (D-349)
28	AR819017B	CD30	D.7.11 (D-374)
28	AR819028B	CD30	D.7.11 (D-374)
28	AR819039B	CD30	D.7.11 (D-374)

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	INITIAL CAL	INITIAL CAL	TUNED	TUNED
TYPE OF LOCATION	RRF	% RSD	CALIBRATION	RRF	% RSD	CALIBRATION	CALIBRATION
SAMPLE NUMBER	AR1216876	AR1216876	AR1216875	AR0106886	AR0106886	AR0106885	AR0108885
MATRIX							
UNITS	RRF	%	%	RRF	%	%	%
ENV PROBLEM NO							
ACENAPHTHENE	1.307	7		1.375	2.4		
ACENAPHTHYLENE	1.7	12.7		1.905	2.9		
ANTHRACENE	1.095	7.2		1.146	2.8		
BENZO(A)ANTHRACENE	1.306	3		1.242	5.3		
BENZO(A)PYRENE	1.482	4.4		1.516	5.9		
BENZO(B)FLUORANTHENE	1.781	10.8		1.954	3.8		
BENZO(G,H,I)PERYLENE	0.907	8.9		1.026	10.5		
BENZO(K)FLUORANTHENE	1.634	13.4		1.975	7.2		
BENZOIC ACID	0.147	25.8		0.172	11.8		
BENZYL ALCOHOL	1.058	7.3		1.152	13.8		
BIS(2-CHLOROETHOXY)METHANE	0.501	9.5		0.581	7.3		
BIS(2-CHLOROETHYL)ETHER	1.743	13.2		1.98	7.5		
BIS(2-CHLOROISOPROPYL)ETHER	1.779	12		2.427	5.7		
BIS(2-ETHYLHEXYL)PHTHALATE	1.486	12.3		1.85	5.2		
BUTYLBENZYLPHTHALATE	0.995	7		1.158	9.5		
CHRYSENE	1.193	37.4		1.212	44.2		
DI-N-BUTYLPHTHALATE	1.455	20.1		1.739	7.4		
DI-N-OCTYL PHTHALATE	3.367	14.8		4.734	10.1		
DIBENZ(A,H)ANTHRACENE	0.822	26.2		0.905	19.6		
DIBENZOFURAN	1.856	11.3		2.007	3.9		
DIETHYLPHTHALATE	1.617	10.4		1.811	3.2		
DIMETHYLPHTHALATE	1.435	5.6		1.535	3.9		
FLUORANTHENE	1.08	5.8		1.086	5.5		
FLUORENE	1.215	7.4		1.313	3.6		
HEXACHLOROBENZENE	0.267	3.2		0.199	1.3		
HEXACHLOROBUTADIENE	0.187	3.8		0.154	0.7		
HEXACHLOROCYCLOPENTADIENE	0.158	32.6		24.9	24.9		
HEXACHLOROETHANE	0.692	4.3		0.79	4.1		
INDENO(1,2,3-CD)PYRENE	1.085	26.9		1.333	6		
ISOPHORONE	0.845	7.6		1.008	0.7		
N-NITROSO-DI-N-PROPYLAMINE	0.473	5.6		0.496	9		
N-NITROSODIPHENYLAMINE	0.475	6.3		0.541	7.4		
NAPHTHALENE	0.949	22.2		1.094	6.7		
NITROBENZENE	0.424	10.7		0.489	11.9		
NITROBENZENE-D5	0.395	5.9		0.431	10.2		
PENTACHLOROPHENOL	0.134	13		0.112	10.8		
PHENANTHRENE	1.068	4.7		1.07	4.7		
PHENOL	1.811	6.9		2.057	11.3		
PHENOL-D5	1.45	5.1		1.617	10.3		

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	INITIAL CAL RRF	INITIAL CAL % RSD	TUNED CALIBRATION	INITIAL CAL RRF	INITIAL CAL % RSD	TUNED CALIBRATION	TUNED CALIBRATION
TYPE OF LOCATION							
SAMPLE NUMBER	AR1216876	AR1216876	AR1216875	AR0106886	AR0106886	AR0106885	AR0108885
MATRIX							
UNITS	RRF	%	%	RRF	%	%	%
ENV PROBLEM NO							
PYRENE	1.516	3.3		1.597	7.6		
TERPHENYL-D14	0.907	2.4		0.823	8.6		
1,2-DICHLOROBENZENE	1.54	5.4		1.602	2.6		
1,2,4-TRICHLOROBENZENE	0.334	3.9		0.312	3.8		
1,3-DICHLOROBENZENE	1.519	4.4		1.587	5.8		
1,4-DICHLOROBENZENE	1.569	5.8		1.608	2.5		
2-CHLORONAPHTHALENE	1.211	6.7		1.28	5		
2-CHLOROPHENOL	1.556	3.1		1.713	5		
2-FLUOROBIPHENYL	1.163	6.2		1.186	2.9		
2-FLUOROPHENOL	1.234	5.5		1.28	14.1		
2-METHYLNAPHTHALENE	0.704	13.5		0.734	5.8		
2-METHYLPHENOL	1.258	7.4		1.398	7.8		
2-NITROANILINE	0.46	12.8		0.521	12.5		
2-NITROPHENOL	0.222	6.1		0.211	9.6		
2,4-DICHLOROPHENOL	0.326	5.7		0.292	8.2		
2,4-DIMETHYLPHENOL	0.427	8.9		0.458	7.9		
2,4-DINITROPHENOL	0.087	28.4		0.101	17.6		
2,4-DINITROTOLUENE	0.387	5.2		0.386	8.1		
2,4,5-TRICHLOROPHENOL	0.351	6.6		0.337	5.1		
2,4,6-TRIBROMOPHENOL	0.156	8.3		0.094	7.2		
2,4,6-TRICHLOROPHENOL	0.37	7.3		0.359	4.2		
2,6-DINITROTOLUENE	0.298	10.1		0.293	7		
3-NITROANILINE	0.136	68.8		0.225	31		
3,3'-DICHLOROBENZIDINE	0.227	12.3		0.228	19.3		
4-BROMOPHENYL-PHENYLETHER	0.232	4		0.191	3.8		
4-CHLORO-3-METHYLPHENOL	0.357	9.8		0.375	12.5		
4-CHLOROANILINE	0.283	51		0.385	27.5		
4-CHLOROPHENYL-PHENYLETHER	0.618	3		0.547	2.7		
4-METHYLPHENOL	1.25	7.1		1.357	15.5		
4-NITROANILINE	0.112	27.6		0.128	34.4		
4-NITROPHENOL	0.129	23.2		0.154	8.2		
4,6-DINITRO-2-METHYLPHENOL	0.103	26.1		0.116	13.4		
SURR 1(NBZ) %RECOVERY							
SURR 2(FBP) %RECOVERY							
SURR 3(TPH) %RECOVERY							
SURR 4(PHL) %RECOVERY							
SURR 5(2FP) %RECOVERY							
SURR 6(TBP) %RECOVERY							

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	INITIAL CAL	INITIAL CAL	TUNED	TUNED
TYPE OF LOCATION	RRF	% RSD	CALIBRATION	RRF	% RSD	CALIBRATION	CALIBRATION
SAMPLE NUMBER	AR1216876	AR1216876	AR1216875	AR0106886	AR0106886	AR0106885	AR0108885
MATRIX							
UNITS	RRF	%	%	RRF	%	%	%
ENV PROBLEM NO							
M/E 51			39			55	58
M/E 68-1			0				0
M/E 68-2			0			1.4	0
M/E 69			47			60	64
M/E 70-1			0				0
M/E 70-2			0			0	0
M/E 127			52			57	59
M/E 197			0			0	0
M/E 198			100			100	100
M/E 199			7.7			7.3	6.9
M/E 275			19			16	15
M/E 365			3			2.1	1.6
M/E 441			7.7			6.6	7.5
M/E 442			58			46	43
M/E 443-1			12				
M/E 443-2			20			19	20
INTERNAL STD AREA(ANT)							
INTERNAL STD AREA(CRY)							
INTERNAL STD AREA(DCB)							
INTERNAL STD AREA(NPT)							
INTERNAL STD AREA(PHN)							
INTERNAL STD AREA(PRY)							
DILUTION FACTOR							
PERCENT MOISTURE							
ACTUAL(ALLOWED) EXTRACT TIME							

AREA	QA	QA	QA	QA		QA	QA
LOCATION	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	WELL 89	MATRIX	MS %
TYPE OF LOCATION	CALIBRATION	CAL %D	SHIFT	BLANK	WELL	SPIKE	RECOVERY
SAMPLE NUMBER	AR0108887	AR0108887	AR0108888	1207SBLK1	AR406041E	AR406041F	AR406041F
MATRIX				WATER	WATER	WATER	WATER
UNITS	RRF	%	AREA	UG/L	UG/L	UG/L	%
ENV PROBLEM NO					9	9	9
ACENAPHTHENE	1.357	1.3		10 U	10 U	74 MS	72

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G DRAFT DO NOT CITE

AREA	QA	QA	QA	QA		QA	QA
LOCATION	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	WELL #9	MATRIX	MS %
TYPE OF LOCATION	CALIBRATION	CAL %D	SHIFT	BLANK	WELL	SPIKE	RECOVERY
SAMPLE NUMBER	AR0108887	AR0108887	AR0108888	1207SBLK1	AR406041E	AR406041F	AR406041F
MATRIX				WATER	WATER	WATER	WATER
UNITS	RRF	%	AREA	UG/L	UG/L	UG/L	%
ENV PROBLEM NO					9	9	9
ACENAPHTHYLENE	1.905	0		10 U	10 U	10 U	
ANTHRACENE	1.062	7.3		10 U	10 U	10 U	
BENZO(A)ANTHRACENE	1.319	-6.2		10 U	10 U	10 U	
BENZO(A)PYRENE	1.492	1.6		10 U	10 U	10 U	
BENZO(B)FLUORANTHENE	1.951	0.2		10 U	10 U	10 U	
BENZO(G,H,I)PERYLENE	0.97	5.5		10 U	10 U	10 U	
BENZO(K)FLUORANTHENE	1.999	-1.2		10 U	10 U	10 U	
BENZOIC ACID	0.124	27.9		50 U	50 U	51 U	
BENZYL ALCOHOL	1.151	0.1		10 U	10 U	10 U	
BIS(2-CHLOROETHOXY)METHANE	0.599	-3.1		10 U	10 U	10 U	
BIS(2-CHLOROETHYL)ETHER	2.052	-3.6		10 U	10 U	10 U	
BIS(2-CHLOROISOPROPYL)ETHER	2.426	0		10 U	10 U	10 U	
BIS(2-ETHYLHEXYL)PHTHALATE	1.935	-4.6		10 U	23	31	
BUTYLBENZYLPHTHALATE	1.207	-4.2		10 U	10 U	10 U	
CHRYSENE	1.295	-6.8		10 U	10 U	10 U	
DI-N-BUTYLPHTHALATE	1.899	-9.2		10 U	10 U	10 U	
DI-N-OCTYL PHTHALATE	5.346	-12.9		10 U	10 U	10 U	
DIBENZ(A,H)ANTHRACENE	1.004	-10.9		10 U	10 U	10 U	
DIBENZOFURAN	1.982	1.2		10 U	10 U	10 U	
DIETHYLPHTHALATE	1.823	-0.7		10 U	10 U	10 U	
DIMETHYLPHTHALATE	1.577	-2.7		10 U	10 U	10 U	
FLUORANTHENE	1.056	2.8		10 U	10 U	10 U	
FLUORENE	1.258	4.2		10 U	10 U	10 U	
HEXACHLOROBENZENE	0.194	2.5		10 U	10 U	10 U	
HEXACHLOROBUTADIENE	0.148	3.9		10 U	10 U	10 U	
HEXACHLOROCYCLOPENTADIENE	0.085	26.1		10 U	10 U	10 U	
HEXACHLOROETHANE	0.799	-1.1		10 U	10 U	10 U	
INDENO(1,2,3-CD)PYRENE	1.267	5		10 U	10 U	10 U	
ISOPHORONE	1.062	-5.4		10 U	10 U	10 U	
N-NITROSO-DI-N-PROPYLAMINE	0.525	-5.8		10 U	10 U	64 MS	63
N-NITROSODIPHENYLAMINE	0.481	11.1		10 U	10 U	10 U	
NAPHTHALENE	1.125	-2.8		10 U	10 U	10 U	
NITROBENZENE	0.472	3.5		10 U	10 U	10 U	
NITROBENZENE-D5	0.423	1.9					
PENTACHLOROPHENOL	0.099	11.6		50 U	50 U	103 MS	50
PHENANTHRENE	1.05	1.9		10 U	10 U	10 U	
PHENOL	2.144	-4.2		10 U	10 U	141 MS	69
PHENOL-D5	1.602	0.9					
PYRENE	1.634	-2.3		10 U	10 U	91 MS	89

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G DRAFT DO NOT CITE

AREA	QA	QA	QA	QA		QA	QA
LOCATION	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	WELL #9	MATRIX	MS %
TYPE OF LOCATION	CALIBRATION	CAL %D	SHIFT	BLANK	WELL	SPIKE	RECOVERY
SAMPLE NUMBER	AR0108887	AR0108887	AR0108888	1207SBLK1	AR406041E	AR406041F	AR406041F
MATRIX				WATER	WATER	WATER	WATER
UNITS	RRF	%	AREA	UG/L	UG/L	UG/L	%
ENV PROBLEM NO					9	9	9
TERPHENYL-D14	0.879	-6.8					
1,2-DICHLOROBENZENE	1.633	-1.9		10 U	10 U	10 U	
1,2,4-TRICHLOROBENZENE	0.384	2.6		10 U	10 U	54 MS	53
1,3-DICHLOROBENZENE	1.56	1.7		10 U	10 U	10 U	
1,4-DICHLOROBENZENE	1.575	2.1		10 U	10 U	58 MS	56
2-CHLORONAPHTHALENE	1.266	1.1		10 U	10 U	10 U	
2-CHLOROPHENOL	1.676	2.2		10 U	10 U	128 MS	63
2-FLUOROBIPHENYL	1.217	-2.6					
2-FLUOROPHENOL	1.276	0.3					
2-METHYLNAPHTHALENE	0.693	5.6		10 U	10 U	10 U	
2-METHYLPHENOL	1.361	2.6		10 U	10 U	10 U	
2-NITROANILINE	0.478	8.3		50 U	50 U	51 U	
2-NITROPHENOL	0.202	4.3		10 U	10 U	10 U	
2,4-DICHLOROPHENOL	0.285	2.4		10 U	10 U	10 U	
2,4-DIMETHYLPHENOL	0.453	1.1		10 U	10 U	10 U	
2,4-DINITROPHENOL	0.09	10.9		50 U	50 U	51 U	
2,4-DINITROTOLUENE	0.394	-2.1		10 U	10 U	58 MS	57
2,4,5-TRICHLOROPHENOL	0.343	-1.8		50 U	50 U	51 U	
2,4,6-TRIBROMOPHENOL	0.092	2.1					
2,4,6-TRICHLOROPHENOL	0.346	3.6		10 U	10 U	10 U	
2,6-DINITROTOLUENE	0.304	-3.8		10 U	10 U	10 U	
3-NITROANILINE	0.092	59.1		50 U	50 U	51 U	
3,3'-DICHLOROBENZIDINE	0.204	10.5		20 U	20 U	20 U	
4-BROMOPHENYL-PHENYLETHER	0.195	-2.1		10 U	10 U	10 U	
4-CHLORO-3-METHYLPHENOL	0.37	1.3		10 U	10 U	128 MS	63
4-CHLOROANILINE	0.263	31.7		10 U	10 U	10 U	
4-CHLOROPHENYL-PHENYLETHER	0.546	0.2		10 U	10 U	10 U	
4-METHYLPHENOL	1.345	0.9		10 U	10 U	10 U	
4-NITROANILINE	0.071	44.5		50 U	50 U	51 U	
4-NITROPHENOL	0.09	41.6		50 U	50 U	44 MS	21
4,6-DINITRO-2-METHYLPHENOL	0.091	21.6		50 U	50 U	51 U	
SURR 1(NBZ) %RECOVERY				62	65	65	
SURR 2(FBP) %RECOVERY				70	70	71	
SURR 3(TPH) %RECOVERY				87	74	81	
SURR 4(PHL) %RECOVERY				71	59	77	
SURR 5(2FP) %RECOVERY				82	70	72	
SURR 6(TBP) %RECOVERY				74	63	69	

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TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA		QA	QA
LOCATION	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	WELL #9	MATRIX	MS %
TYPE OF LOCATION	CALIBRATION	CAL %D	SHIFT	BLANK	WELL	SPIKE	RECOVERY
SAMPLE NUMBER	AR0108887	AR0108887	AR0108888	1207SBLK1	AR406041E	AR406041F	AR406041F
MATRIX				WATER	WATER	WATER	WATER
UNITS	RRF	%	AREA	UG/L	UG/L	UG/L	%
ENV PROBLEM NO					9	9	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)			48600	55500	54100	57000	
INTERNAL STD AREA(CRY)			49200	46500	48000	50200	
INTERNAL STD AREA(DCB)			26300	33200	29600	30900	
INTERNAL STD AREA(NPT)			103000	112000	105000	112000	
INTERNAL STD AREA(PHN)			74300	79700	78600	90800	
INTERNAL STD AREA(PRY)			28400	30900	31200	32700	
DILUTION FACTOR				1	1	1	
PERCENT MOISTURE							
ACTUAL(ALLOWED) EXTRACT TIME					4(7 D)	4(7 D)	

AREA	QA		QA	QA			
LOCATION	RPD	WELL #9	MATRIX SPIKE	MSD %	WELL #9	PLOT M NEW	PLOT M
TYPE OF LOCATION		WELL	DUPLICATE	RECOVERY	WELL	WELL	WELL
SAMPLE NUMBER	AR406041F	AR406030E	AR406041G	AR406041G	AR407155E	AR413062F	AR413017E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	UG/L	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO	9	9	9	9	9	9	9
ACENAPHTHENE	13	10 U	67 MS	63	10 U	10 U	12 U

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA	QA		QA	QA			
LOCATION	RPD	WELL #9	MATRIX SPIKE	MSD %	WELL #9	PLOT M NEW	PLOT M
TYPE OF LOCATION		WELL	DUPLICATE	RECOVERY	WELL	WELL	WELL
SAMPLE NUMBER	AR406041F	AR406030E	AR406041G	AR406041G	AR407155E	AR413062F	AR413017E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	UG/L	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO	9	9	9	9	9	9	9
ACENAPHTHYLENE		10 U	11 U		10 U	10 U	12 U
ANTHRACENE		10 U	11 U		10 U	10 U	12 U
BENZO(A)ANTHRACENE		10 U	11 U		10 U	10 U	12 U
BENZO(A)PYRENE		10 U	11 U		10 U	10 U	12 U
BENZO(B)FLUORANTHENE		10 U	11 U		10 U	10 U	12 U
BENZO(G,H,I)PERYLENE		10 U	11 U		10 U	10 U	12 U
BENZO(K)FLUORANTHENE		10 U	11 U		10 U	10 U	12 U
BENZOIC ACID		51 U	53 U		51 U	51 U	59 U
BENZYL ALCOHOL		10 U	11 U		10 U	10 U	12 U
BIS(2-CHLORDETHOXY)METHANE		10 U	11 U		10 U	10 U	12 U
BIS(2-CHLOROETHYL)ETHER		10 U	11 U		10 U	10 U	12 U
BIS(2-CHLOROISOPROPYL)ETHER		10 U	11 U		10 U	10 U	12 U
BIS(2-ETHYLHEXYL)PHTHALATE		30	18		24	10 U	12 U
BUTYLBENZYLPHTHALATE		15	11 U		6 J	10 U	12 U
CHRYSENE		10 U	11 U		10 U	10 U	12 U
DI-N-BUTYLPHTHALATE		10 U	11 U		10 U	10 U	12 U
DI-N-OCTYL PHTHALATE		10 U	11 U		10 U	10 U	12 U
DIBENZ(A,H)ANTHRACENE		10 U	11 U		10 U	10 U	12 U
DIBENZOFURAN		10 U	11 U		10 U	10 U	12 U
DIETHYLPHTHALATE		10 U	11 U		10 U	10 U	12 U
DIMETHYLPHTHALATE		10 U	11 U		10 U	10 U	12 U
FLUORANTHENE		10 U	11 U		10 U	10 U	12 U
FLUORENE		10 U	11 U		10 U	10 U	12 U
HEXACHLOROBENZENE		10 U	11 U		10 U	10 U	12 U
HEXACHLOROBUTADIENE		10 U	11 U		10 U	10 U	12 U
HEXACHLOROCYCLOPENTADIENE		10 U	11 U		10 U	10 U	12 U
HEXACHLOROETHANE		10 U	11 U		10 U	10 U	12 U
INDENO(1,2,3-CD)PYRENE		10 U	11 U		10 U	10 U	12 U
ISOPHORONE		10 U	11 U		10 U	10 U	12 U
N-NITROSO-DI-N-PROPYLAMINE	19	10 U	55 MS	52	10 U	10 U	12 U
N-NITROSODIPHENYLAMINE		10 U	11 U		10 U	10 U	12 U
NAPHTHALENE		10 U	11 U		10 U	10 U	12 U
NITROBENZENE		10 U	11 U		10 U	10 U	12 U
NITROBENZENE-D5							
PENTACHLOROPHENOL	-23	51 U	132 MS	63	51 U	10 U	59 U
PHENANTHRENE		10 U	11 U		10 U	10 U	12 U
PHENOL	-1	10 U	147 MS	70	10 U	10 U	12 U
PHENOL-D5							
PYRENE	28	10 U	71 MS	67	10 U	10 U	12 U

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA	QA		QA	QA			
LOCATION	RPD	WELL #9 WELL	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	WELL #9 WELL	PLOT M NEW WELL	PLOT M WELL
TYPE OF LOCATION							
SAMPLE NUMBER	AR406041F	AR406030E	AR406041G	AR406041G	AR407155E	AR413062F	AR413017E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	UG/L	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO	9	9	9	9	9	9	9
TERPHENYL-D14							
1,2-DICHLOROBENZENE		10 U	11 U		10 U	10 U	12 U
1,2,4-TRICHLOROBENZENE	19	10 U	47 MS	44	10 U	10 U	12 U
1,3-DICHLOROBENZENE		10 U	11 U		10 U	10 U	12 U
1,4-DICHLOROBENZENE	11	10 U	53 MS	50	10 U	10 U	12 U
2-CHLORONAPHTHALENE		10 U	11 U		10 U	10 U	12 U
2-CHLOROPHENOL	-8	10 U	144 MS	68	10 U	10 U	12 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE		10 U	11 U		10 U	10 U	12 U
2-METHYLPHENOL		10 U	11 U		10 U	10 U	12 U
2-NITROANILINE		51 U	53 U		51 U	51 U	59 U
2-NITROPHENOL		10 U	11 U		10 U	10 U	12 U
2,4-DICHLOROPHENOL		10 U	11 U		10 U	10 U	12 U
2,4-DIMETHYLPHENOL		10 U	11 U		10 U	10 U	12 U
2,4-DINITROPHENOL		51 U	53 U		51 U	51 U	59 U
2,4-DINITROTOLUENE	11	10 U	54 MS	51	10 U	10 U	12 U
2,4,5-TRICHLOROPHENOL		51 U	53 U		51 U	51 U	59 U
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL		10 U	11 U		10 U	10 U	12 U
2,6-DINITROTOLUENE		10 U	11 U		10 U	10 U	12 U
3-NITROANILINE		51 U	53 U		51 U	51 U	59 U
3,3'-DICHLOROBENZIDINE		20 U	21 U		20 U	20 U	24 U
4-BROMOPHENYL-PHENYLETHER		10 U	11 U		10 U	10 U	12 U
4-CHLORO-3-METHYLPHENOL	14	10 U	117 MS	55	10 U	10 U	12 U
4-CHLOROANILINE		10 U	11 U		10 U	10 U	12 U
4-CHLOROPHENYL-PHENYLETHER		10 U	11 U		10 U	10 U	12 U
4-METHYLPHENOL		10 U	11 U		10 U	10 U	12 U
4-NITROANILINE		51 U	53 U		51 U	51 U	59 U
4-NITROPHENOL	-17	51 U	52 MS	25	51 U	51 U	59 U
4,6-DINITRO-2-METHYLPHENOL		51 U	53 U		51 U	51 U	59 U
SURR 1(NBZ) %RECOVERY		67	58		60	66	61
SURR 2(FBP) %RECOVERY		81	63		71	78	66
SURR 3(TPH) %RECOVERY		68	69		77	96	77
SURR 4(PHL) %RECOVERY		75	81		72	61	67
SURR 5(2FP) %RECOVERY		80	80		88	77	79
SURR 6(TBP) %RECOVERY		70	80		86	63	66

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TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA	QA		QA	QA			
LOCATION	RPD	WELL #9	MATRIX SPIKE	MSD %	WELL #9	PLOT M NEW	PLOT M
TYPE OF LOCATION		WELL	DUPLICATE	RECOVERY	WELL	WELL	WELL
SAMPLE NUMBER	AR406041F	AR406030E	AR406041G	AR406041G	AR407155E	AR413062F	AR413017E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	UG/L	UG/L	%	UG/L	UG/L	UG/L
ENV PROBLEM NO	9	9	9	9	9	9	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)		46400	55400		46600	51100	51000
INTERNAL STD AREA(CRY)		45700	56000		43300	47600	44200
INTERNAL STD AREA(DCB)		26000	30900		27400	29100	27500
INTERNAL STD AREA(NPT)		95500	114000		94600	97500	97300
INTERNAL STD AREA(PHN)		74600	84800		64400	71800	70800
INTERNAL STD AREA(PRY)		27700	37900		29400	32600	30000
DILUTION FACTOR		1	0.998		1	1	1
PERCENT MOISTURE							
ACTUAL(ALLOWED) EXTRACT TIME		4(7 D)	4(7 D)		5(7 D)	6(7 D)	6(7 D)

AREA			QA	QA	QA		
LOCATION	PLOT M	319 LANDF.	TUNED	ISTD RET TIM	METHOD	WELL #9	WELL #6
TYPE OF LOCATION	WELL	WELL	CALIBRATION	SHIFT	BLANK	WELL	WELL
SAMPLE NUMBER	AR413028E	AR417011C	AR0111885	AR0111888	1207SBLK2	AR407019C	AR407086C
MATRIX	WATER	SOIL			SOIL	SOIL	SOIL
UNITS	UG/L	UG/KG	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	9	9				9	9
ACENAPHTHENE	12 U	830 U			670 U	840 U	810 U

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA			QA	QA	QA		
LOCATION	PLOT M	319 LANDF.	TUNED	ISTD RET TIM	METHOD	WELL #9	WELL #6
TYPE OF LOCATION	WELL	WELL	CALIBRATION	SHIFT	BLANK	WELL	WELL
SAMPLE NUMBER	AR413028E	AR417011C	AR0111885	AR0111888	1207SBLK2	AR407019C	AR407086C
MATRIX	WATER	SOIL			SOIL	SOIL	SOIL
UNITS	UG/L	UG/KG	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	9	9				9	9
ACENAPHTHYLENE	12 U	830 U			670 U	840 U	810 U
ANTHRACENE	12 U	830 U			670 U	840 U	810 U
BENZO(A)ANTHRACENE	12 U	830 U			670 U	840 U	810 U
BENZO(A)PYRENE	12 U	830 U			670 U	840 U	810 U
BENZO(B)FLUORANTHENE	12 U	830 U			670 U	840 U	810 U
BENZO(G,H,I)PERYLENE	12 U	830 U			670 U	840 U	810 U
BENZO(K)FLUORANTHENE	12 U	830 U			670 U	840 U	810 U
BENZOIC ACID	60 U	4000 U			3200 U	4100 U	4000 U
BENZYL ALCOHOL	12 U	830 U			670 U	840 U	810 U
BIS(2-CHLOROETHOXY)METHANE	12 U	830 U			670 U	840 U	810 U
BIS(2-CHLOROETHYL)ETHER	12 U	830 U			670 U	840 U	810 U
BIS(2-CHLOROISOPROPYL)ETHER	12 U	830 U			670 U	840 U	810 U
BIS(2-ETHYLHEXYL)PHTHALATE	12 U	320 J			170 BJ	2500 B	200 BJ
BUTYLBENZYLPHTHALATE	12 U	830 U			670 U	840 U	810 U
CHRYSENE	12 U	830 U			670 U	840 U	810 U
DI-N-BUTYLPHTHALATE	12 U	830 U			670 U	840 U	810 U
DI-N-OCTYL PHTHALATE	12 U	830 U			670 U	840 U	810 U
DIBENZ(A,H)ANTHRACENE	12 U	830 U			670 U	840 U	810 U
DIBENZOFURAN	12 U	830 U			670 U	840 U	810 U
DIETHYLPHTHALATE	12 U	830 U			670 U	840 U	810 U
DIMETHYLPHTHALATE	12 U	830 U			670 U	840 U	810 U
FLUORANTHENE	12 U	830 U			670 U	840 U	810 U
FLUORENE	12 U	830 U			670 U	840 U	810 U
HEXACHLOROBENZENE	12 U	830 U			670 U	840 U	810 U
HEXACHLOROBUTADIENE	12 U	830 U			670 U	840 U	810 U
HEXACHLOROCYCLOPENTADIENE	12 U	830 U			670 U	840 U	810 U
HEXACHLOROETHANE	12 U	830 U			670 U	840 U	810 U
INDENO(1,2,3-CD)PYRENE	12 U	830 U			670 U	840 U	810 U
ISOPHORONE	12 U	830 U			670 U	840 U	810 U
N-NITROSO-DI-N-PROPYLAMINE	12 U	830 U			670 U	840 U	810 U
N-NITROSODIPHENYLAMINE	12 U	830 U			670 U	840 U	810 U
NAPHTHALENE	12 U	830 U			670 U	7600	810 U
NITROBENZENE	12 U	830 U			670 U	840 U	810 U
NITROBENZENE-D5							
PENTACHLOROPHENOL	60 U	4000 U			3200 U	4100 U	4000 U
PHENANTHRENE	12 U	830 U			670 U	490 J	810 U
PHENOL	12 U	830 U			670 U	840 U	810 U
PHENOL-D5							
PYRENE	12 U	830 U			670 U	380 J	140 J

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA			QA	QA	QA		
LOCATION	PLOT M	319 LANDF.	TUNED	ISTD RET TIM	METHOD	WELL #9	WELL #6
TYPE OF LOCATION	WELL	WELL	CALIBRATION	SHIFT	BLANK	WELL	WELL
SAMPLE NUMBER	AR413028E	AR417011C	AR0111885	AR0111888	1207SBLK2	AR407019C	AR407086C
MATRIX	WATER	SOIL			SOIL	SOIL	SOIL
UNITS	UG/L	UG/KG	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	9	9				9	9
TERPHENYL-D14							
1,2-DICHLOROBENZENE	12 U	830 U			670 U	840 U	810 U
1,2,4-TRICHLOROBENZENE	12 U	5760 U			670 U	840 U	810 U
1,3-DICHLOROBENZENE	12 U	830 U			670 U	840 U	810 U
1,4-DICHLOROBENZENE	12 U	830 U			670 U	840 U	810 U
2-CHLORONAPHTHALENE	12 U	830 U			670 U	840 U	810 U
2-CHLOROPHENOL	12 U	830 U			670 U	840 U	810 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	12 U	830 U			670 U	470 J	810 U
2-METHYLPHENOL	12 U	830 U			670 U	840 U	810 U
2-NITROANILINE	60 U	4000 U			3200 U	4100 U	4000 U
2-NITROPHENOL	12 U	830 U			670 U	840 U	810 U
2,4-DICHLOROPHENOL	12 U	830 U			670 U	840 U	810 U
2,4-DIMETHYLPHENOL	12 U	830 U			670 U	840 U	810 U
2,4-DINITROPHENOL	60 U	4000 U			3200 U	4100 U	4000 U
2,4-DINITROTOLUENE	12 U	830 U			670 U	840 U	810 U
2,4,5-TRICHLOROPHENOL	60 U	4000 U			3200 U	4100 U	4000 U
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	12 U	830 U			670 U	840 U	810 U
2,6-DINITROTOLUENE	12 U	830 U			670 U	840 U	810 U
3-NITROANILINE	60 U	4000 U			3200 U	4100 U	4000 U
3,3'-DICHLOROBENZIDINE	24 U	1700 U			1300 U	1700 U	1600 U
4-BROMOPHENYL-PHENYLETHER	12 U	830 U			670 U	840 U	810 U
4-CHLORO-3-METHYLPHENOL	12 U	830 U			670 U	840 U	810 U
4-CHLOROANILINE	12 U	830 U			670 U	840 U	810 U
4-CHLOROPHENYL-PHENYLETHER	12 U	830 U			670 U	840 U	810 U
4-METHYLPHENOL	12 U	830 U			670 U	650 J	810 U
4-NITROANILINE	60 U	4000 U			3200 U	4100 U	4000 U
4-NITROPHENOL	60 U	4000 U			3200 U	4100 U	4000 U
4,6-DINITRO-2-METHYLPHENOL	60 U	4000 U			3200 U	4100 U	4000 U
SURR 1(NBZ) %RECOVERY	62	40			36	37	41
SURR 2(FBP) %RECOVERY	71	44			40	41	43
SURR 3(TPH) %RECOVERY	74	54			50	43	46
SURR 4(PHL) %RECOVERY	70	46			44	44	46
SURR 5(2FP) %RECOVERY	91	54			52	53	55
SURR 6(TBP) %RECOVERY	73	45			38	43	43

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TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA			QA	QA	QA		
LOCATION	PLOT M	319 LANDF.	TUNED	ISTD RET TIM	METHOD	WELL #9	WELL #6
TYPE OF LOCATION	WELL	WELL	CALIBRATION	SHIFT	BLANK	WELL	WELL
SAMPLE NUMBER	AR413028E	AR417011C	AR0111885	AR0111888	1207SBLK2	AR407019C	AR407086C
MATRIX	WATER	SOIL			SOIL	SOIL	SOIL
UNITS	UG/L	UG/KG	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	9	9				9	9
M/E 68-1			0.5				
M/E 68-2			0.8				
M/E 69			58				
M/E 70-1			0				
M/E 70-2			0				
M/E 127			60				
M/E 197			0				
M/E 198			100				
M/E 199			8.7				
M/E 275			16				
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)	54900	53000		52100	49600	59100	58500
INTERNAL STD AREA(CRY)	51200	49100		54500	42300	64800	60900
INTERNAL STD AREA(DCB)	28800	31700		27700	31700	32600	37400
INTERNAL STD AREA(NPT)	103000	101000		114000	113000	123000	137000
INTERNAL STD AREA(PHN)	82100	80300		74300	68200	92900	88500
INTERNAL STD AREA(PRY)	35000	33800		35100	28100	40100	38700
DILUTION FACTOR	0.996	2			2	2	2
PERCENT MOISTURE		15			1	22	19
ACTUAL(ALLOWED) EXTRACT TIME	6(7 D)	8(14 D)				6(14 D)	12(14 D)

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	MATRIX SPIKE	MSD %	TUNED	ISTD RET TIM	METHOD	MATRIX	MS %
TYPE OF LOCATION	DUPLICATE	RECOVERY	CALIBRATION	SHIFT	BLANK	SPIKE	RECOVERY
SAMPLE NUMBER	AR407019C	AR407019C	AR0112885	AR0112888	1207SBLK3	AR407019C	AR407019C
MATRIX	SOIL	SOIL			SOIL	SOIL	SOIL
UNITS	UG/KG	%	%	AREA	UG/KG	UG/KG	%
ENV PROBLEM NO	9	9				9	9
ACENAPHTHENE	7060 MS	84			670 U	7550 MS	89

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	MATRIX SPIKE	MSD %	TUNED	ISTD RET TIM	METHOD	MATRIX	MS %
TYPE OF LOCATION	DUPLICATE	RECOVERY	CALIBRATION	SHIFT	BLANK	SPIKE	RECOVERY
SAMPLE NUMBER	AR407019C	AR407019C	AR0112885	AR0112888	1207SBLK3	AR407019C	AR407019C
MATRIX	SOIL	SOIL			SOIL	SOIL	SOIL
UNITS	UG/KG	%	%	AREA	UG/KG	UG/KG	%
ENV PROBLEM NO	9	9				9	9
ACENAPHTHYLENE	830 U				670 U	840 U	
ANTHRACENE	830 U				670 U	840 U	
BENZO(A)ANTHRACENE	830 U				670 U	840 U	
BENZO(A)PYRENE	830 U				670 U	840 U	
BENZO(B)FLUORANTHENE	830 U				670 U	840 U	
BENZO(G,H,I)PERYLENE	830 U				670 U	840 U	
BENZO(K)FLUORANTHENE	830 U				670 U	840 U	
BENZOIC ACID	4000 U				3200 U	4100 U	
BENZYL ALCOHOL	830 U				670 U	840 U	
BIS(2-CHLOROETHOXY)METHANE	830 U				670 U	840 U	
BIS(2-CHLOROETHYL)ETHER	830 U				670 U	840 U	
BIS(2-CHLOROISOPROPYL)ETHER	830 U				670 U	840 U	
BIS(2-ETHYLHEXYL)PHTHALATE	270 BJ				670 U	400 J	
BUTYLBENZYLPHTHALATE	830 U				670 U	1700 U	
CHRYSENE	830 U				670 U	840 U	
DI-N-BUTYLPHTHALATE	830 U				670 U	840 U	
DI-N-OCTYL PHTHALATE	830 U				670 U	840 U	
DIBENZ(A,H)ANTHRACENE	830 U				670 U	840 U	
DIBENZOFURAN	830 U				670 U	840 U	
DIETHYLPHTHALATE	830 U				670 U	840 U	
DIMETHYLPHTHALATE	830 U				670 U	840 U	
FLUORANTHENE	210 J				670 U	840 U	
FLUORENE	830 U				670 U	840 U	
HEXACHLOROBENZENE	830 U				670 U	840 U	
HEXACHLOROBUTADIENE	830 U				670 U	840 U	
HEXACHLOROCYCLOPENTADIENE	830 U				670 U	840 U	
HEXACHLOROETHANE	830 U				670 U	840 U	
INDENO(1,2,3-CD)PYRENE	830 U				670 U	840 U	
ISOPHORONE	830 U				670 U	840 U	
N-NITROSO-DI-N-PROPYLAMINE	7320 MS	86			670 U	7730 MS	91
N-NITROSODIPHENYLAMINE	830 U				670 U	840 U	
NAPHTHALENE	120 J				670 U	390 J	
NITROBENZENE	830 U				670 U	840 U	
NITROBENZENE-D5							
PENTACHLOROPHENOL	11600 MS	69			3200 U	11500 MS	68
PHENANTHRENE	110 J				670 U	840 U	
PHENOL	13600 MS	80			670 U	13500 MS	79
PHENOL-D5							
PYRENE	8350 MS	94			670 U	8280 MS	93

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	MATRIX SPIKE	MSD %	TUNED	ISTD RET TIM	METHOD	MATRIX	MS %
TYPE OF LOCATION	DUPLICATE	RECOVERY	CALIBRATION	SHIFT	BLANK	SPIKE	RECOVERY
SAMPLE NUMBER	AR407019C	AR407019C	AR0112885	AR0112888	1207SBLK3	AR407019C	AR407019C
MATRIX	SOIL	SOIL			SOIL	SOIL	SOIL
UNITS	UG/KG	%	%	AREA	UG/KG	UG/KG	%
ENV PROBLEM NO	9	9				9	9
TERPHENYL-D14							
1,2-DICHLOROBENZENE	830 U				670 U	840 U	
1,2,4-TRICHLOROBENZENE	5760 MS	68			670 U	6140 MS	72
1,3-DICHLOROBENZENE	830 U				670 U	840 U	
1,4-DICHLOROBENZENE	6980 MS	83			670 U	7040 MS	83
2-CHLORONAPHTHALENE	830 U				670 U	840 U	
2-CHLOROPHENOL	13200 MS	78			670 U	13200 MS	78
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	830 U				670 U	840 U	
2-METHYLPHENOL	830 U				670 U	840 U	
2-NITROANILINE	4000 U				3200 U	4100 U	
2-NITROPHENOL	830 U				670 U	840 U	
2,4-DICHLOROPHENOL	830 U				670 U	840 U	
2,4-DIMETHYLPHENOL	830 U				670 U	840 U	
2,4-DINITROPHENOL	4000 U				3200 U	4100 U	
2,4-DINITROTOLUENE	6330 MS	75			670 U	6780 MS	80
2,4,5-TRICHLOROPHENOL	4000 U				3200 U	4100 U	
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	830 U				670 U	840 U	
2,6-DINITROTOLUENE	830 U				670 U	840 U	
3-NITROANILINE	4000 U				3200 U	4100 U	
3,3'-DICHLOROBENZIDINE	1700 U				1300 U	840 U	
4-BROMOPHENYL-PHENYLETHER	830 U				670 U	840 U	
4-CHLORO-3-METHYLPHENOL	14100 MS	83			670 U	15100 MS	89
4-CHLOROANILINE	830 U				670 U	840 U	
4-CHLOROPHENYL-PHENYLETHER	830 U				670 U	840 U	
4-METHYLPHENOL	340 J				670 U	350 J	
4-NITROANILINE	4000 U				3200 U	4100 U	
4-NITROPHENOL	9030 MS	53			3200 U	10400 MS	61
4,6-DINITRO-2-METHYLPHENOL	4000 U				3200 U	4100 U	
SURR 1(NBZ) %RECOVERY	41				37	39	
SURR 2(FBP) %RECOVERY	44				43	46	
SURR 3(TPH) %RECOVERY	53				47	43	
SURR 4(PHL) %RECOVERY	50				42	49	
SURR 5(2FP) %RECOVERY	55				55	52	
SURR 6(TBP) %RECOVERY	48				36	51	

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TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION							
TYPE OF LOCATION	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	TUNED CALIBRATION	ISTD RET TIM SHIFT	METHOD BLANK	MATRIX SPIKE	MS % RECOVERY
SAMPLE NUMBER	AR407019C	AR407019C	AR0112885	AR0112888	1207SBLK3	AR407019C	AR407019C
MATRIX	SOIL	SOIL			SOIL	SOIL	SOIL
UNITS	UG/KG	%	%	AREA	UG/KG	UG/KG	%
ENV PROBLEM NO	9	9				9	9
M/E 68-1							
M/E 68-2			0				
M/E 69			0				
M/E 70-1			59				
M/E 70-2			0				
M/E 127			0				
M/E 197			61				
M/E 198			0				
M/E 199			100				
M/E 275			7.9				
M/E 365			15				
M/E 441			3.1				
M/E 442			6.9				
M/E 443-1			43				
M/E 443-2			9.4				
			22				
INTERNAL STD AREA(ANT)	51600			51100	53100	51800	
INTERNAL STD AREA(CRY)	48900			52600	48000	59300	
INTERNAL STD AREA(DCB)	31900			27300	34200	31600	
INTERNAL STD AREA(NPT)	116000			108000	112000	113000	
INTERNAL STD AREA(PHN)	76200			77100	70900	88600	
INTERNAL STD AREA(PRY)	34200			34500	27300	39700	
DILUTION FACTOR	2				2	2	
PERCENT MOISTURE	22				1	22	
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)					6(14 D)	

AREA	QA
LOCATION	
TYPE OF LOCATION	RPD
SAMPLE NUMBER	AR407019C
MATRIX	SOIL
UNITS	%
ENV PROBLEM NO	9
ACENAPHTHENE	6

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

AREA	QA
LOCATION	RPD
TYPE OF LOCATION	AR407019C
SAMPLE NUMBER	SOIL
MATRIX	%
UNITS	9
ENV PROBLEM NO	
ACENAPHTHYLENE	
ANTHRACENE	
BENZO(A)ANTHRACENE	
BENZO(A)PYRENE	
BENZO(B)FLUORANTHENE	
BENZO(G,H,I)PERYLENE	
BENZO(K)FLUORANTHENE	
BENZOIC ACID	
BENZYL ALCOHOL	
BIS(2-CHLOROETHOXY)METHANE	
BIS(2-CHLOROETHYL)ETHER	
BIS(2-CHLOROISOPROPYL)ETHER	
BIS(2-ETHYLHEXYL)PHTHALATE	
BUTYLBENZYLPHTHALATE	
CHRYSENE	
DI-N-BUTYLPHTHALATE	
DI-N-OCTYL PHTHALATE	
DIBENZ(A,H)ANTHRACENE	
DIBENZOFURAN	
DIETHYLPHTHALATE	
DIMETHYLPHTHALATE	
FLUORANTHENE	
FLUORENE	
HEXACHLOROBENZENE	
HEXACHLOROBUTADIENE	
HEXACHLOROCYCLOPENTADIENE	
HEXACHLOROETHANE	
INDENO(1,2,3-CD)PYRENE	
ISOPHORONE	
N-NITROSO-DI-N-PROPYLAMINE	6
N-NITROSODIPHENYLAMINE	
NAPHTHALENE	
NITROBENZENE	
NITROBENZENE-D5	-1
PENTACHLOROPHENOL	
PHENANTHRENE	-1
PHENOL	
PHENOL-D5	-1
PYRENE	

TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA	QA
LOCATION	
TYPE OF LOCATION	RPD
SAMPLE NUMBER	AR407019C
MATRIX	SOIL
UNITS	%
ENV PROBLEM NO	9
TERPHENYL-D14	
1,2-DICHLOROBENZENE	
1,2,4-TRICHLOROBENZENE	6
1,3-DICHLOROBENZENE	0
1,4-DICHLOROBENZENE	0
2-CHLORONAPHTHALENE	
2-CHLOROPHENOL	
2-FLUOROBIPHENYL	
2-FLUOROPHENOL	
2-METHYLNAPHTHALENE	
2-METHYLPHENOL	
2-NITROANILINE	
2-NITROPHENOL	
2,4-DICHLOROPHENOL	
2,4-DIMETHYLPHENOL	
2,4-DINITROPHENOL	
2,4-DINITROTOLUENE	6
2,4,5-TRICHLOROPHENOL	
2,4,6-TRIBROMOPHENOL	
2,4,6-TRICHLOROPHENOL	
2,6-DINITROTOLUENE	
3-NITROANILINE	
3,3'-DICHLOROBENZIDINE	
4-BROMOPHENYL-PHENYLETHER	
4-CHLORO-3-METHYLPHENOL	7
4-CHLOROANILINE	
4-CHLOROPHENYL-PHENYLETHER	
4-METHYLPHENOL	
4-NITROANILINE	
4-NITROPHENOL	14
4,6-DINITRO-2-METHYLPHENOL	
SURR 1(NBZ) %RECOVERY	
SURR 2(FBP) %RECOVERY	
SURR 3(TPH) %RECOVERY	
SURR 4(PHL) %RECOVERY	
SURR 5(2FP) %RECOVERY	
SURR 6(TBP) %RECOVERY	
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TABLE D.7.2 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: AR406030G

DRAFT DO NOT CITE

AREA	QA
LOCATION	RPD
TYPE OF LOCATION	
SAMPLE NUMBER	AR407019C
MATRIX	SOIL
UNITS	%
ENV PROBLEM NO	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)	
INTERNAL STD AREA(CRY)	
INTERNAL STD AREA(DCB)	
INTERNAL STD AREA(NPT)	
INTERNAL STD AREA(PHN)	
INTERNAL STD AREA(PRY)	
DILUTION FACTOR	
PERCENT MOISTURE	
ACTUAL(ALLOWED) EXTRACT TIME	

TABLE D.7.3 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD21

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA
LOCATION				
TYPE OF LOCATION	INITIAL CAL RRF	INITIAL CAL % RSD	TUNED CALIBRATION	ISTD RET TIM SHIFT
SAMPLE NUMBER	AR1221876	AR1221876	AR1221875	AR1221878
MATRIX				
UNITS	RRF	%	%	AREA
ENV PROBLEM NO				
ACENAPHTHENE	1.086	9.1		
ACENAPHTHYLENE	1.708	7.8		
ANTHRACENE	1.039	4.1		
BENZO(A)ANTHRACENE	1.204	3.6		
BENZO(A)PYRENE	1.086	3.3		
BENZO(B)FLUORANTHENE	1.339	5.4		
BENZO(G,H,I)PERYLENE	0.842	5.5		
BENZO(K)FLUORANTHENE	1.085	4.7		
BENZOIC ACID	0.248	3.5		
BENZYL ALCOHOL	0.811	4.8		
BIS(2-CHLOROETHOXY)METHANE	0.537	7.4		
BIS(2-CHLOROETHYL)ETHER	1.354	19.7		
BIS(2-CHLOROISOPROPYL)ETHER	2.38	6.3		
BIS(2-ETHYLHEXYL)PHTHALATE	0.966	4.8		
BUTYLBENZYLPHTHALATE	0.788	5.6		
CHRYSENE	1.12	4		
DI-N-BUTYLPHTHALATE	1.246	12.7		
DI-N-OCTYL PHTHALATE	2.024	4.6		
DIBENZ(A,H)ANTHRACENE	0.83	9.6		
DIBENZOFURAN	1.538	6.2		
DIETHYLPHTHALATE	1.19	4.6		
DIMETHYLPHTHALATE	1.407	3.8		
FLUORANTHENE	0.888	6.7		
FLUORENE	1.134	5.5		
HEXACHLOROBENZENE	0.463	4.5		
HEXACHLOROBUTADIENE	0.307	11.3		
HEXACHLOROCYCLOPENTADIENE	0.543	4.9		
HEXACHLOROETHANE	0.717	19.7		
INDENO(1,2,3-CD)PYRENE	1.172	4		
ISOPHORONE	0.885	5		
N-NITROSO-DI-N-PROPYLAMINE	1.2	14.9		
N-NITROSODIPHENYLAMINE	0.549	2.4		
NAPHTHALENE	0.979	13.5		
NITROBENZENE	0.508	6		
NITROBENZENE-D5	0.478	3.8		
PENTACHLOROPHENOL	0.235	2.6		
PHENANTHRENE	1.076	3.3		
PHENOL	1.522	20.8		
PHENOL-D5	1.364	12.3		

AREA	QA	QA	QA	QA
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	ISTD RET TIM
TYPE OF LOCATION	RRF	% RSD	CALIBRATION	SHIFT
SAMPLE NUMBER	AR1221876	AR1221876	AR1221875	AR1221878
MATRIX				
UNITS	RRF	%	%	AREA
ENV PROBLEM NO				
PYRENE	2.408	13.7		
TERPHENYL-D14	1.378	9.5		
1,2-DICHLOROBENZENE	1.417	12		
1,2,4-TRICHLOROBENZENE	0.432	6.1		
1,3-DICHLOROBENZENE	1.458	10.6		
1,4-DICHLOROBENZENE	1.457	14.7		
2-CHLORONAPHTHALENE	1.275	6.7		
2-CHLOROPHENOL	1.149	21.8		
2-FLUOROBIPHENYL	1.332	4.7		
2-FLUOROPHENOL	1.016	7.6		
2-METHYLNAPHTHALENE	0.604	10.5		
2-METHYLPHENOL	1.147	12.9		
2-NITROANILINE	0.5	3.9		
2-NITROPHENOL	0.248	5.9		
2,4-DICHLOROPHENOL	0.364	5.4		
2,4-DIMETHYLPHENOL	0.454	5.4		
2,4-DINITROPHENOL	0.18	6.9		
2,4-DINITROTOLUENE	0.393	2.7		
2,4,5-TRICHLOROPHENOL	0.48	3.9		
2,4,6-TRIBROMOPHENOL	0.266	7		
2,4,6-TRICHLOROPHENOL	0.492	2.7		
2,6-DINITROTOLUENE	0.329	4.6		
3-NITROANILINE	0.434	5.2		
3,3'-DICHLOROBENZIDINE	0.166	14.2		
4-BROMOPHENYL-PHENYLETHER	0.312	3.9		
4-CHLORO-3-METHYLPHENOL	0.37	8.2		
4-CHLOROANILINE	0.46	3.6		
4-CHLOROPHENYL-PHENYLETHER	0.561	7.6		
4-METHYLPHENOL	1.187	13		
4-NITROANILINE	0.202	6.2		
4-NITROPHENOL	0.19	2.7		
4,6-DINITRO-2-METHYLPHENOL	0.168	4.9		
M/E 51			56	
M/E 68-1			0	
M/E 68-2			0	
M/E 69			69	
M/E 70-1			0.6	
M/E 70-2			0.8	

TABLE D.7.3 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD21 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA
LOCATION	INITIAL CAL	INITIAL CAL	TUNED	ISTD RET TIM
TYPE OF LOCATION	RRF	% RSD	CALIBRATION	SHIFT
SAMPLE NUMBER	AR1221876	AR1221876	AR1221875	AR1221878
MATRIX				
UNITS	RRF	%	%	AREA
ENV PROBLEM NO				
M/E 127			40	
M/E 197			0	
M/E 198			100	
M/E 199			7.2	
M/E 275			23	
M/E 365			3.6	
M/E 441			15	
M/E 442			89	
M/E 443-1			18	
M/E 443-2			20	
INTERNAL STD AREA(ANT)				4850000
INTERNAL STD AREA(CRY)				2100000
INTERNAL STD AREA(DCB)				2820000
INTERNAL STD AREA(NPT)				9420000
INTERNAL STD AREA(PHN)				6050000
INTERNAL STD AREA(PRY)				1110000
DILUTION FACTOR				
ACTUAL(ALLOWED) EXTRACT TIME				

TABLE D.7.4 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD22 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	317 AREA	317 AREA	BLDG 108
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BURN PILE	BURN PILE	SILT
SAMPLE NUMBER	AR1222875	AR1222877	AR1222877	AR1222878	AR505018B	AR505029B	AR507010B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					14	14	16
ACENAPHTHENE		1.214	11.7		370 U	370 U	1200
ACENAPHTHYLENE		1.819	6.5		370 U	370 U	570 U
ANTHRACENE		1.134	9.2		370 U	370 U	350 J
BENZO(A)ANTHRACENE		1.294	7.5		370 U	370 U	500 J
BENZO(A)PYRENE		1.089	0.3		370 U	370 U	660
BENZO(B)FLUORANTHENE		1.258	6.1		370 U	370 U	570
BENZO(G,H,I)PERYLENE		0.873	3.6		370 U	370 U	570 U
BENZO(K)FLUORANTHENE		1.223	12.7		370 U	370 U	590
BENZOIC ACID		0.226	8.9		1800 U	1800 U	2800 U
BENZYL ALCOHOL		0.798	1.6		370 U	370 U	570 U
BIS(2-CHLOROETHOXY)METHANE		0.576	7.1		370 U	370 U	570 U
BIS(2-CHLOROETHYL)ETHER		1.609	18.8		370 U	370 U	570 U
BIS(2-CHLOROISOPROPYL)ETHER		2.122	10.8		370 U	370 U	570 U
BIS(2-ETHYLHEXYL)PHTHALATE		1.109	14.8		370 U	49 J	840
BUTYLBENZYLPHTHALATE		0.996	26.5		370 U	370 U	570 U
CHRYSENE		1.146	2.3		370 U	370 U	560 J
DI-N-BUTYLPHTHALATE		1.586	27.2		370 U	370 U	33 J
DI-N-OCTYL PHTHALATE		2.369	17		370 U	370 U	570 U
DIBENZ(A,H)ANTHRACENE		0.717	13.6		370 U	370 U	570 U
DIBENZOFURAN		1.564	1.7		370 U	370 U	1000
DIETHYLPHTHALATE		1.276	7.2		39 J	370 U	64 J
DIMETHYLPHTHALATE		1.441	2.4		370 U	370 U	570 U
FLUORANTHENE		0.975	9.9		370 U	370 U	2100
FLUORENE		1.158	2.2		370 U	370 U	990
HEXACHLOROBENZENE		0.421	9.1		370 U	370 U	570 U
HEXACHLOROBUTADIENE		0.31	1.1		370 U	370 U	570 U
HEXACHLOROCYCLOPENTADIENE		0.519	4.4		370 U	370 U	570 U
HEXACHLOROETHANE		0.763	6.4		370 U	370 U	570 U
INDENO(1,2,3-CD)PYRENE		1.206	2.9		370 U	370 U	570 U
ISOPHORONE		0.934	5.6		370 U	370 U	570 U
N-NITROSO-DI-N-PROPYLAMINE		1.146	4.5		370 U	370 U	570 U
N-NITROSODIPHENYLAMINE		0.588	7.1		370 U	370 U	570 U
NAPHTHALENE		1.15	17.4		370 U	370 U	2100
NITROBENZENE		0.571	12.2		370 U	370 U	570 U
NITROBENZENE-D5		0.52	8.8				
PENTACHLOROPHENOL		0.227	3.4		1800 U	1800 U	2800 U
PHENANTHRENE		1.161	7.9		370 U	370 U	4500
PHENOL		1.863	22.4		370 U	370 U	570 U
PHENOL-D5		1.47	7.8				

TABLE D.7.4 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD22 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	317 AREA	317 AREA	BLDG 108
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BURN PILE	BURN PILE	SILT
SAMPLE NUMBER	AR1222875	AR1222877	AR1222877	AR1222878	AR505018B	AR505029B	AR507010B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					14	14	16
PYRENE		2.062	14.4		370 U	370 U	2700
TERPHENYL-D14		1.279	7.2				
1,2-DICHLOROBENZENE		1.513	6.8		370 U	370 U	570 U
1,2,4-TRICHLOROBENZENE		0.438	1.3		370 U	370 U	570 U
1,3-DICHLOROBENZENE		1.564	7.3		370 U	370 U	570 U
1,4-DICHLOROBENZENE		1.639	12.5		370 U	370 U	570 U
2-CHLORONAPHTHALENE		1.363	7		370 U	370 U	570 U
2-CHLOROPHENOL		1.395	21.4		370 U	370 U	570 U
2-FLUOROBIPHENYL		1.43	7.4				
2-FLUOROPHENOL		1.085	6.8				
2-METHYLNAPHTHALENE		0.606	0.4		370 U	370 U	1300
2-METHYLPHENOL		1.158	0.9		370 U	370 U	570 U
2-NITROANILINE		0.518	3.7		1800 U	1800 U	2800 U
2-NITROPHENOL		0.243	2.3		370 U	370 U	570 U
2,4-DICHLOROPHENOL		0.365	0.5		370 U	370 U	570 U
2,4-DIMETHYLPHENOL		0.478	5.3		370 U	370 U	570 U
2,4-DINITROPHENOL		0.142	21.3		1800 U	1800 U	2800 U
2,4-DINITROTOLUENE		0.376	4.3		370 U	370 U	570 U
2,4,5-TRICHLOROPHENOL		0.455	5.3		1800 U	1800 U	2800 U
2,4,6-TRIBROMOPHENOL		0.257	3.2				
2,4,6-TRICHLOROPHENOL		0.499	1.4		370 U	370 U	570 U
2,6-DINITROTOLUENE		0.327	0.7		370 U	370 U	570 U
3-NITROANILINE		0.414	4.8		1800 U	1800 U	2800 U
3,3'-DICHLOROBENZIDINE		0.17	2.2		730 U	730 U	1100 U
4-BROMOPHENYL-PHENYLETHER		0.288	7.8		370 U	370 U	570 U
4-CHLORO-3-METHYLPHENOL		0.362	2.2		370 U	370 U	570 U
4-CHLOROANILINE		0.451	1.8		370 U	370 U	570 U
4-CHLOROPHENYL-PHENYLETHER		0.555	1.1		370 U	370 U	570 U
4-METHYLPHENOL		1.145	3.5		370 U	370 U	570 U
4-NITROANILINE		0.19	6.1		1800 U	1800 U	2800 U
4-NITROPHENOL		0.226	18.9		1800 U	1800 U	2800 U
4,6-DINITRO-2-METHYLPHENOL		0.161	4.4		1800 U	1800 U	2800 U
SURR 1(NBZ) %RECOVERY					36	26	39
SURR 2(FBP) %RECOVERY					36	33	42
SURR 3(TPH) %RECOVERY					44	39	49
SURR 4(PHL) %RECOVERY					39	37	46
SURR 5(2FP) %RECOVERY					41	36	45
SURR 6(TBP) %RECOVERY					32	35	46

TABLE D.7.4 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD22 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	317 AREA	317 AREA	BLDG 108
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BURN PILE	BURN PILE	SILT
SAMPLE NUMBER	AR1222875	AR1222877	AR1222877	AR1222878	AR505018B	AR505029B	AR507010B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					14	14	16
M/E 51	56						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	76						
M/E 70-1	0.7						
M/E 70-2	0.9						
M/E 127	41						
M/E 197	0						
M/E 198	100						
M/E 199	5.6						
M/E 275	22						
M/E 365	4.4						
M/E 441	14						
M/E 442	82						
M/E 443-1	17						
M/E 443-2	21						
INTERNAL STD AREA(ANT)				2760000		5700000	5470000
INTERNAL STD AREA(CRY)				1450000		3090000	1260000
INTERNAL STD AREA(DCB)				2060000		3460000	3680000
INTERNAL STD AREA(NPT)				5890000		1E+07	1E+07
INTERNAL STD AREA(PHN)				3140000		7430000	6140000
INTERNAL STD AREA(PRY)				768000		1860000	810000
DILUTION FACTOR					1.1	1.1	1.7
PERCENT MOISTURE					11.8	8.1	39.9
ACTUAL(ALLOWED) EXTRACT TIME					8(14 D)	8(14 D)	8(14 D)

AREA							
LOCATION	BLDG 108	BLDG 108	319 LANDF	319 LANDF	319 LANDF	319 LANDF	
TYPE OF LOCATION	SILT	SILT	STREAM	STREAM	STREAM	STREAM	
SAMPLE NUMBER	AR507021B	AR507032B	AR800016B	AR800027B	AR800038B	AR800049B	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ENV PROBLEM NO	16	16	17	17	17	17	
ACENAPHTHENE	140 J	700 U	400 U	400 U	4600 U	400 U	

TABLE D.7.4 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD22 DRAFT DO NOT CITE

AREA

LOCATION	BLDG 108	BLDG 108	319 LANDF	319 LANDF	319 LANDF	319 LANDF
TYPE OF LOCATION	SILT	SILT	STREAM	STREAM	STREAM	STREAM
SAMPLE NUMBER	AR507021B	AR507032B	AR800016B	AR800027B	AR800038B	AR800049B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	16	16	17	17	17	17
ACENAPHTHYLENE	670 U	700 U	400 U	400 U	4600 U	400 U
ANTHRACENE	57 J	700 U	400 U	400 U	4600 U	400 U
BENZO(A)ANTHRACENE	670 U	700 U	400 U	400 U	4600 U	400 U
BENZO(A)PYRENE	670 U	700 U	400 U	400 U	4600 U	400 U
BENZO(B)FLUORANTHENE	670 U	700 U	110 J	400 U	4600 U	400 U
BENZO(G,H,I)PERYLENE	670 U	700 U	400 U	400 U	4600 U	400 U
BENZO(K)FLUORANTHENE	670 U	700 U	110 J	400 U	4600 U	400 U
BENZOIC ACID	3300 U	3500 U	2000 U	2000 U	23000 U	2000 U
BENZYL ALCOHOL	670 U	700 U	400 U	400 U	4600 U	400 U
BIS(2-CHLOROETHOXY)METHANE	670 U	700 U	400 U	400 U	4600 U	400 U
BIS(2-CHLOROETHYL)ETHER	670 U	700 U	400 U	400 U	4600 U	400 U
BIS(2-CHLOROISOPROPYL)ETHER	670 U	700 U	400 U	400 U	4600 U	400 U
BIS(2-ETHYLHEXYL)PHTHALATE	420 J	700 U	66 J	400 U	4600 U	81 J
BUTYLBENZYLPHTHALATE	670 U	700 U	400 U	400 U	4600 U	400 U
CHRYSENE	670 U	700 U	400 U	400 U	4600 U	400 U
DI-N-BUTYLPHTHALATE	65 J	35 J	400 U	30 J	4600 U	400 U
DI-N-OCTYL PHTHALATE	670 U	700 U	400 U	400 U	4600 U	400 U
DIBENZ(A,H)ANTHRACENE	670 U	700 U	400 U	400 U	4600 U	400 U
DIBENZOFURAN	170 J	64 J	400 U	400 U	4600 U	400 U
DIETHYLPHTHALATE	110 J	700 U	24 J	27 J	4600 U	31 J
DIMETHYLPHTHALATE	670 U	700 U	400 U	400 U	4600 U	400 U
FLUORANTHENE	220 J	96 J	35 J	32 J	4600 U	400 U
FLUORENE	120 J	700 U	400 U	400 U	4600 U	400 U
HEXACHLOROBENZENE	670 U	700 U	400 U	400 U	4600 U	400 U
HEXACHLOROBUTADIENE	670 U	700 U	400 U	400 U	4600 U	400 U
HEXACHLOROCYCLOPENTADIENE	670 U	700 U	400 U	400 U	4600 U	400 U
HEXACHLOROETHANE	670 U	700 U	400 U	400 U	4600 U	400 U
INDENO(1,2,3-CD)PYRENE	670 U	700 U	400 U	400 U	4600 U	400 U
ISOPHORONE	670 U	700 U	400 U	400 U	4600 U	400 U
N-NITROSO-DI-N-PROPYLAMINE	670 U	700 U	400 U	400 U	4600 U	400 U
N-NITROSODIPHENYLAMINE	670 U	700 U	400 U	400 U	4600 U	400 U
NAPHTHALENE	340 J	140 J	400 U	400 U	4600 U	400 U
NITROBENZENE	670 U	700 U	400 U	400 U	4600 U	400 U
NITROBENZENE-D5						
PENTACHLOROPHENOL	3300 U	3500 U	2000 U	2000 U	23000 U	2000 U
PHENANTHRENE	710	280 J	400 U	29 J	4600 U	400 U
PHENOL	670 U	700 U	400 U	400 U	4600 U	400 U
PHENOL-D5						
PYRENE	390 J	160 J	400 U	79 J	4600 U	400 U

TABLE D.7.4 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD22 DRAFT DO NOT CITE

AREA

LOCATION	BLDG 108	BLDG 108	319 LANDF	319 LANDF	319 LANDF	319 LANDF
TYPE OF LOCATION	SILT	SILT	STREAM	STREAM	STREAM	STREAM
SAMPLE NUMBER	AR507021B	AR507032B	AR800016B	AR800027B	AR800038B	AR800049B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	16	16	17	17	17	17
TERPHENYL-D14						
1,2-DICHLOROBENZENE	670 U	700 U	400 U	400 U	4600 U	400 U
1,2,4-TRICHLOROBENZENE	670 U	700 U	400 U	400 U	4600 U	400 U
1,3-DICHLOROBENZENE	670 U	700 U	400 U	400 U	4600 U	400 U
1,4-DICHLOROBENZENE	670 U	700 U	400 U	400 U	4600 U	400 U
2-CHLORONAPHTHALENE	670 U	700 U	400 U	400 U	4600 U	400 U
2-CHLOROPHENOL	670 U	700 U	400 U	400 U	4600 U	400 U
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	460 J	170 J	400 U	400 U	4600 U	400 U
2-METHYLPHENOL	670 U	700 U	400 U	400 U	4600 U	400 U
2-NITROANILINE	3300 U	3500 U	2000 U	2000 U	23000 U	2000 U
2-NITROPHENOL	670 U	700 U	400 U	400 U	4600 U	400 U
2,4-DICHLOROPHENOL	670 U	700 U	400 U	400 U	4600 U	400 U
2,4-DIMETHYLPHENOL	670 U	700 U	400 U	400 U	4600 U	400 U
2,4-DINITROPHENOL	3300 U	3500 U	2000 U	2000 U	23000 U	2000 U
2,4-DINITROTOLUENE	670 U	700 U	400 U	400 U	4600 U	400 U
2,4,5-TRICHLOROPHENOL	3300 U	3500 U	2000 U	2000 U	23000 U	2000 U
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	670 U	700 U	400 U	400 U	4600 U	400 U
2,6-DINITROTOLUENE	670 U	700 U	400 U	400 U	4600 U	400 U
3-NITROANILINE	3300 U	3500 U	2000 U	2000 U	23000 U	2000 U
3,3'-DICHLOROBENZIDINE	1300 U	1400 U	800 U	800 U	9100 U	800 U
4-BROMOPHENYL-PHENYLETHER	670 U	700 U	400 U	400 U	4600 U	400 U
4-CHLORO-3-METHYLPHENOL	670 U	700 U	400 U	400 U	4600 U	400 U
4-CHLOROANILINE	670 U	700 U	400 U	400 U	4600 U	400 U
4-CHLOROPHENYL-PHENYLETHER	670 U	700 U	400 U	400 U	4600 U	400 U
4-METHYLPHENOL	670 U	700 U	400 U	400 U	4600 U	400 U
4-NITROANILINE	3300 U	3500 U	2000 U	2000 U	23000 U	2000 U
4-NITROPHENOL	3300 U	3500 U	2000 U	2000 U	23000 U	2000 U
4,6-DINITRO-2-METHYLPHENOL	3300 U	3500 U	2000 U	2000 U	23000 U	2000 U
SURR 1(NBZ) %RECOVERY	42	45	51	48	5 *	45
SURR 2(FBP) %RECOVERY	41	42	49	48	7 *	49
SURR 3(TPH) %RECOVERY	59	70	73	80	10 *	63
SURR 4(PHL) %RECOVERY	50	54	56	53	7 *	50
SURR 5(2FP) %RECOVERY	13 *	41	57	51	7 *	49
SURR 6(TBP) %RECOVERY	32	34	37	46	6 *	57

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TABLE D.7.4 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD22 DRAFT DO NOT CITE

AREA

LOCATION	BLDG 108	BLDG 108	319 LANDF	319 LANDF	319 LANDF	319 LANDF
TYPE OF LOCATION	SILT	SILT	STREAM	STREAM	STREAM	STREAM
SAMPLE NUMBER	AR507021B	AR507032B	AR800016B	AR800027B	AR800038B	AR800049B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	16	16	17	17	17	17
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)	4110000	4440000	5520000	5370000	5250000	4540000
INTERNAL STD AREA(CRY)	1000000	1060000	2640000	1000000	1160000	1960000
INTERNAL STD AREA(DCB)	2260000	2720000	3370000	3210000	3290000	2670000
INTERNAL STD AREA(NPT)	7850000	8450000	1E+07	1E+07	1E+07	8570000
INTERNAL STD AREA(PHN)	5240000	5250000	6530000	6100000	5980000	5760000
INTERNAL STD AREA(PRY)	763000	602000	1300000	439000	612000	1410000
DILUTION FACTOR	2	2.1	1.2	1.2	13.7	1.2
PERCENT MOISTURE	50.7	51.7	18.6	18.7	26.3	14.4
ACTUAL(ALLOWED) EXTRACT TIME	8(14 D)	8(14 D)	8(14 D)	8(14 D)	8(14 D)	8(14 D)

TABLE D.7.5 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD23 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			QA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	319 LANDF	319 LANDF	MATRIX
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	STREAM	STREAM	SPIKE
SAMPLE NUMBER	AR1223875	AR1223877	AR1223877	AR1223878	AR800050B	AR800061B	AR800061B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					17	17	17
ACENAPHTHENE		1.054	3		500 U	430 U	2300 MS
ACENAPHTHYLENE		1.674	2		500 U	430 U	430 U
ANTHRACENE		1.021	1.7		54 J	39 J	430 U
BENZO(A)ANTHRACENE		1.283	6.5		500 U	430 U	430 U
BENZO(A)PYRENE		0.981	9.6		500 U	430 U	430 U
BENZO(B)FLUORANTHENE		1.253	6.4		500 U	430 U	430 U
BENZO(G,H,I)PERYLENE		0.711	15.6		500 U	430 U	430 U
BENZO(K)FLUORANTHENE		1.12	3.2		500 U	430 U	430 U
BENZOIC ACID		0.225	9.5		2500 U	2200 U	430 U
BENZYL ALCOHOL		0.509	37.3		500 U	430 U	430 U
BIS(2-CHLOROETHOXY)METHANE		0.485	9.8		500 U	430 U	430 U
BIS(2-CHLOROETHYL)ETHER		1.197	11.6		500 U	430 U	430 U
BIS(2-CHLOROISOPROPYL)ETHER		1.691	28.9		500 U	430 U	430 U
BIS(2-ETHYLHEXYL)PHTHALATE		1.283	32.9		500 U	430 U	430 U
BUTYLBENZYLPHTHALATE		1.172	48.7		500 U	430 U	430 U
CHRYSENE		1.15	2.6		500 U	430 U	430 U
DI-N-BUTYLPHTHALATE		1.288	3.4		500 U	430 U	430 U
DI-N-OCTYL PHTHALATE		2.574	27.2		500 U	430 U	430 U
DIBENZ(A,H)ANTHRACENE		0.67	19.3		500 U	430 U	430 U
DIBENZOFURAN		1.63	5.9		500 U	430 U	430 U
DIETHYLPHTHALATE		1.171	1.6		54 J	430 U	43 J
DIMETHYLPHTHALATE		1.49	5.9		500 U	430 U	430 U
FLUORANTHENE		0.67	24.5		360 J	68 J	430 U
FLUORENE		1.125	0.8		500 U	430 U	430 U
HEXACHLOROBENZENE		0.399	13.9		500 U	430 U	430 U
HEXACHLOROBUTADIENE		0.337	9.9		500 U	430 U	430 U
HEXACHLOROCYCLOPENTADIENE		0.449	17.3		500 U	430 U	430 U
HEXACHLOROETHANE		0.685	4.4		500 U	430 U	430 U
INDENO(1,2,3-CD)PYRENE		0.822	29.8		500 U	430 U	430 U
ISOPHORONE		0.874	1.2		500 U	430 U	430 U
N-NITROSO-DI-N-PROPYLAMINE		0.967	19.5		500 U	430 U	2800 MS
N-NITROSODIPHENYLAMINE		0.597	8.6		500 U	430 U	430 U
NAPHTHALENE		1.013	3.5		500 U	430 U	430 U
NITROBENZENE		0.451	11.2		500 U	430 U	430 U
NITROBENZENE-D5		0.417	12.8				
PENTACHLOROPHENOL		0.147	37.5		2500 U	2200 U	6800 MS
PHENANTHRENE		1.105	2.7		230 J	36 J	430 U
PHENOL		1.468	3.6		500 U	430 U	3800 MS
PHENOL-D5		1.38	1.2				

TABLE D.7.5 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD23 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			QA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	319 LANDF	319 LANDF	MATRIX
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	STREAM	STREAM	SPIKE
SAMPLE NUMBER	AR1223875	AR1223877	AR1223877	AR1223878	AR800050B	AR800061B	AR800061B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					17	17	17
PYRENE		4.169	73.1		210 J	54 J	1700 MS
TERPHENYL-D14		2.045	48.4				
1,2-DICHLOROBENZENE		1.407	0.8		500 U	430 U	430 U
1,2,4-TRICHLOROBENZENE		0.502	16.2		500 U	430 U	2100 MS
1,3-DICHLOROBENZENE		1.48	1.5		500 U	430 U	430 U
1,4-DICHLOROBENZENE		1.515	4		500 U	430 U	1800 MS
2-CHLORONAPHTHALENE		1.267	0.6		500 U	430 U	430 U
2-CHLOROPHENOL		1.191	3.6		500 U	430 U	4500 MS
2-FLUOROBIPHENYL		1.35	1.4				
2-FLUOROPHENOL		0.915	9.9				
2-METHYLNAPHTHALENE		0.628	4		500 U	430 U	430 U
2-METHYLPHENOL		1.067	7		500 U	430 U	430 U
2-NITROANILINE		0.353	29.3		2500 U	2200 U	2200 U
2-NITROPHENOL		0.255	2.8		500 U	430 U	430 U
2,4-DICHLOROPHENOL		0.427	17.5		500 U	430 U	430 U
2,4-DIMETHYLPHENOL		0.42	7.5		500 U	430 U	430 U
2,4-DINITROPHENOL		0.135	25.3		2500 U	2200 U	2200 U
2,4-DINITROTOLUENE		0.383	2.6		500 U	430 U	2500 MS
2,4,5-TRICHLOROPHENOL		0.452	5.8		2500 U	2200 U	2200 U
2,4,6-TRIBROMOPHENOL		0.2	24.7				
2,4,6-TRICHLOROPHENOL		0.449	8.8		500 U	430 U	430 U
2,6-DINITROTOLUENE		0.325	1.4		500 U	430 U	430 U
3-NITROANILINE		0.382	12.1		2500 U	2200 U	2200 U
3,3'-DICHLOROBENZIDINE		0.14	15.7		1000 U	870 U	870 U
4-BROMOPHENYL-PHENYLETHER		0.292	6.4		500 U	430 U	430 U
4-CHLORO-3-METHYLPHENOL		0.367	0.8		500 U	430 U	4200 MS
4-CHLOROANILINE		0.468	1.9		500 U	430 U	430 U
4-CHLOROPHENYL-PHENYLETHER		0.534	4.8		500 U	430 U	430 U
4-METHYLPHENOL		1.115	6		500 U	430 U	430 U
4-NITROANILINE		0.109	46.3		2500 U	2200 U	2200 U
4-NITROPHENOL		0.101	46.9		2500 U	2200 U	5000 MS
4,6-DINITRO-2-METHYLPHENOL		0.145	13.6		2500 U	2200 U	2200 U
SURR 1(NBZ) %RECOVERY					40	49	57
SURR 2(FBP) %RECOVERY					35	43	51
SURR 3(TPH) %RECOVERY					23	43	45
SURR 4(PHL) %RECOVERY					40	48	55
SURR 5(2FP) %RECOVERY					45	52	58
SURR 6(TBP) %RECOVERY					44	76	96

TABLE D.7.5 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD23

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			QA
LOCATION							
TYPE OF LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD RET TIM SHIFT	319 LANDF STREAM	319 LANDF STREAM	MATRIX SPIKE
SAMPLE NUMBER	AR1223875	AR1223877	AR1223877	AR1223878	AR800050B	AR800061B	AR800061B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					17	17	17
M/E 51	56						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	79						
M/E 70-1	0.5						
M/E 70-2	0.6						
M/E 127	47						
M/E 197	0						
M/E 198	100						
M/E 199	6.3						
M/E 275	24						
M/E 365	4.2						
M/E 441	16						
M/E 442	74						
M/E 443-1	18						
M/E 443-2	20						
INTERNAL STD AREA(ANT)				3580000	3870000	4500000	3890000
INTERNAL STD AREA(CRY)				594000	923000	928000	1150000
INTERNAL STD AREA(DCB)				1890000	1940000	2150000	1820000
INTERNAL STD AREA(NPT)				5900000	6360000	7140000	6200000
INTERNAL STD AREA(PHN)				4080000	4720000	5520000	4800000
INTERNAL STD AREA(PRY)				325000	735000	506000	801000
DILUTION FACTOR					1.5	1.3	1.3
PERCENT MOISTURE					30.8	20.5	20.5
ACTUAL(ALLOWED) EXTRACT TIME					8(14 D)	8(14 D)	8(14 D)

AREA	QA	QA	QA	QA			
LOCATION							
TYPE OF LOCATION	MS % RECOVERY	RPD	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	319 LDF-NW BACKGROUND		
SAMPLE NUMBER	AR800061B	AR800061B	AR800061B	AR800061B	AR802018C		
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL		
UNITS	%	%	UG/KG	%	UG/KG		
ENV PROBLEM NO	17	17	17	17	17		
ACENAPHTHENE	70	19	1900 MS	58	470 U		

TABLE D.7.5 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD23

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	MS %	RPD	MATRIX SPIKE	MSD %	319 LDF-NW		
TYPE OF LOCATION	RECOVERY		DUPLICATE	RECOVERY	BACKGROUND		
SAMPLE NUMBER	AR800061B	AR800061B	AR800061B	AR800061B	AR802018C		
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL		
UNITS	%	%	UG/KG	%	UG/KG		
ENV PROBLEM NO	17	17	17	17	17		
ACENAPHTHYLENE			430 U		470 U		
ANTHRACENE			430 U		470 U		
BENZO(A)ANTHRACENE			430 U		470 U		
BENZO(A)PYRENE			430 U		470 U		
BENZO(B)FLUORANTHENE			430 U		470 U		
BENZO(G,H,I)PERYLENE			430 U		470 U		
BENZO(K)FLUORANTHENE			430 U		470 U		
BENZOIC ACID			2200 U		2300 U		
BENZYL ALCOHOL			430 U		470 U		
BIS(2-CHLOROETHOXY)METHANE			430 U		470 U		
BIS(2-CHLOROETHYL)ETHER			430 U		470 U		
BIS(2-CHLOROISOPROPYL)ETHER			430 U		470 U		
BIS(2-ETHYLHEXYL)PHTHALATE			430 U		470 U		
BUTYLBENZYLPHTHALATE			430 U		470 U		
CHRYSENE			430 U		470 U		
DI-N-BUTYLPHTHALATE			430 U		470 U		
DI-N-OCTYL PHTHALATE			430 U		470 U		
DIBENZ(A,H)ANTHRACENE			430 U		470 U		
DIBENZOFURAN			430 U		470 U		
DIETHYLPHTHALATE			430 U		470 U		
DIMETHYLPHTHALATE			430 U		470 U		
FLUORANTHENE			430 U		470 U		
FLUORENE			430 U		470 U		
HEXACHLOROBENZENE			430 U		470 U		
HEXACHLOROBUTADIENE			430 U		470 U		
HEXACHLOROCYCLOPENTADIENE			430 U		470 U		
HEXACHLOROETHANE			430 U		470 U		
INDENO(1,2,3-CD)PYRENE			430 U		470 U		
ISOPHORONE			430 U		470 U		
N-NITROSO-DI-N-PROPYLAMINE	85	43 *	1800 MS	55	470 U		
N-NITROSODIPHENYLAMINE			430 U		470 U		
NAPHTHALENE			430 U		470 U		
NITROBENZENE			430 U		470 U		
NITROBENZENE-D5							
PENTACHLOROPHENOL	103	69 *	3300 MS	50	2300 U		
PHENANTHRENE			430 U		470 U		
PHENOL	61	62 *	2300 MS	37	470 U		
PHENOL-D5							
PYRENE	52	21	1400 MS	42	470 U		

TABLE D.7.5 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD23

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	
LOCATION	MS % RECOVERY	RPD	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	319 LDF-NW BACKGROUND
TYPE OF LOCATION					
SAMPLE NUMBER	AR800061B	AR800061B	AR800061B	AR800061B	AR802018C
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	%	%	UG/KG	%	UG/KG
ENV PROBLEM NO	17	17	17	17	17
TERPHENYL-D14					
1,2-DICHLOROBENZENE			430 U		470 U
1,2,4-TRICHLOROBENZENE	64	49 *	1300 MS	39	470 U
1,3-DICHLOROBENZENE			430 U		470 U
1,4-DICHLOROBENZENE	55	59 *	1000 MS	30	470 U
2-CHLORONAPHTHALENE			430 U		470 U
2-CHLOROPHENOL	62	41	3000 MS	41	470 U
2-FLUOROBIPHENYL					
2-FLUOROPHENOL					
2-METHYLNAPHTHALENE			430 U		470 U
2-METHYLPHENOL			430 U		470 U
2-NITROANILINE			2200 U		2300 U
2-NITROPHENOL			430 U		470 U
2,4-DICHLOROPHENOL			430 U		470 U
2,4-DIMETHYLPHENOL			430 U		470 U
2,4-DINITROPHENOL			2200 U		2300 U
2,4-DINITROTOLUENE	76	45	1600 MS	48	470 U
2,4,5-TRICHLOROPHENOL			2200 U		2300 U
2,4,6-TRIBROMOPHENOL					
2,4,6-TRICHLOROPHENOL			430 U		470 U
2,6-DINITROTOLUENE			430 U		470 U
3-NITROANILINE			2200 U		2300 U
3,3'-DICHLOROBENZIDINE			870 U		930 U
4-BROMOPHENYL-PHENYLETHER			430 U		470 U
4-CHLORO-3-METHYLPHENOL	64	42 *	2800 MS	42	470 U
4-CHLOROANILINE			430 U		470 U
4-CHLOROPHENYL-PHENYLETHER			430 U		470 U
4-METHYLPHENOL			430 U		470 U
4-NITROANILINE			2200 U		2300 U
4-NITROPHENOL	76	58 *	2800 MS	42	2300 U
4,6-DINITRO-2-METHYLPHENOL			2200 U		2300 U
SURR 1(NBZ) %RECOVERY			37		32
SURR 2(FBP) %RECOVERY			40		40
SURR 3(TPH) %RECOVERY			31		39
SURR 4(PHL) %RECOVERY			33		36
SURR 5(2FP) %RECOVERY			9 *		15 *
SURR 6(TBP) %RECOVERY			40		46

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TABLE D.7.5 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD23

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	MS %	RPD	MATRIX SPIKE	MSD %	319 LDF-NW		
TYPE OF LOCATION	RECOVERY		DUPLICATE	RECOVERY	BACKGROUND		
SAMPLE NUMBER	AR800061B	AR800061B	AR800061B	AR800061B	AR802018C		
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL		
UNITS	%	%	UG/KG	%	UG/KG		
ENV PROBLEM NO	17	17	17	17	17		
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)			4670000		3240000		
INTERNAL STD AREA(CRY)			1030000		510000		
INTERNAL STD AREA(DCB)			2310000		1480000		
INTERNAL STD AREA(NPT)			7970000		5730000		
INTERNAL STD AREA(PHN)			5450000		3160000		
INTERNAL STD AREA(PRY)			663000		304000		
DILUTION FACTOR			1.3		1.4		
PERCENT MOISTURE			20.5		33.2		
ACTUAL(ALLOWED) EXTRACT TIME			8(14 D)		6(14 D)		

TABLE D.7.6 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD24 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	319 LDF-NW	319 LDF-NW	319 LDF-NW
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR1224875	AR1224877	AR1224877	AR1224878	AR802029C	AR802030C	AR802041C
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					17	17	17
ACENAPHTHENE		1.078	0.8		430 U	470 U	400 U
ACENAPHTHYLENE		1.688	1.2		430 U	470 U	400 U
ANTHRACENE		1.021	1.7		430 U	470 U	400 U
BENZO(A)ANTHRACENE		1.265	5		430 U	470 U	400 U
BENZO(A)PYRENE		1.088	0.2		430 U	470 U	400 U
BENZO(B)FLUORANTHENE		1.338	0.1		430 U	470 U	400 U
BENZO(G,H,I)PERYLENE		0.665	21		430 U	470 U	400 U
BENZO(K)FLUORANTHENE		1.11	2.3		430 U	470 U	400 U
BENZOIC ACID		0.231	7		2200 U	2300 U	2000 U
BENZYL ALCOHOL		0.564	30.5		430 U	470 U	400 U
BIS(2-CHLOROETHOXY)METHANE		0.598	11.2		430 U	470 U	400 U
BIS(2-CHLOROETHYL)ETHER		1.483	9.5		430 U	470 U	400 U
BIS(2-CHLOROISOPROPYL)ETHER		2.485	4.4		430 U	470 U	400 U
BIS(2-ETHYLHEXYL)PHTHALATE		1.104	14.3		430 U	470 U	400 U
BUTYLBENZYLPHTHALATE		0.843	7		430 U	470 U	400 U
CHRYSENE		1.195	6.7		430 U	470 U	400 U
DI-N-BUTYLPHTHALATE		1.066	14.4		430 U	470 U	400 U
DI-N-OCTYL PHTHALATE		2.019	0.3		430 U	470 U	400 U
DIBENZ(A,H)ANTHRACENE		0.69	16.9		430 U	470 U	400 U
DIBENZOFURAN		1.623	5.5		430 U	470 U	400 U
DIETHYLPHTHALATE		1.127	5.3		430 U	470 U	400 U
DIMETHYLPHTHALATE		1.536	9.1		430 U	470 U	400 U
FLUORANTHENE		0.612	31		430 U	470 U	400 U
FLUORENE		1.151	1.6		430 U	470 U	400 U
HEXACHLOROBENZENE		0.487	5.2		430 U	470 U	400 U
HEXACHLOROBUTADIENE		0.351	14.4		430 U	470 U	400 U
HEXACHLOROCYCLOPENTADIENE		0.484	10.8		430 U	470 U	400 U
HEXACHLOROETHANE		0.818	14		430 U	470 U	400 U
INDENO(1,2,3-CD)PYRENE		0.707	39.7		430 U	470 U	400 U
ISOPHORONE		1.038	17.4		430 U	470 U	400 U
N-NITROSO-DI-N-PROPYLAMINE		1.312	9.3		430 U	470 U	400 U
N-NITROSODIPHENYLAMINE		0.594	8.2		430 U	470 U	400 U
NAPHTHALENE		1.092	11.6		430 U	470 U	400 U
NITROBENZENE		0.536	5.4		430 U	470 U	400 U
NITROBENZENE-D5		0.534	11.6				
PENTACHLOROPHENOL		0.158	32.9		2200 U	2300 U	2000 U
PHENANTHRENE		1.05	2.4		430 U	470 U	400 U
PHENOL		1.717	12.8		430 U	470 U	400 U
PHENOL-D5		1.419	4.1				

TABLE D.7.6 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD24 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	319 LDF-NW	319 LDF-NW	319 LDF-NW
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR1224875	AR1224877	AR1224877	AR1224878	AR802029C	AR802030C	AR802041C
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					17	17	17
PYRENE		3.17	31.6		430 U	470 U	400 U
TERPHENYL-D14		1.726	25.2				
1,2-DICHLOROBENZENE		1.479	4.4		430 U	470 U	400 U
1,2,4-TRICHLOROBENZENE		0.496	14.6		430 U	470 U	400 U
1,3-DICHLOROBENZENE		1.506	3.3		430 U	470 U	400 U
1,4-DICHLOROBENZENE		1.518	4.2		430 U	470 U	400 U
2-CHLORONAPHTHALENE		1.265	0.8		430 U	470 U	400 U
2-CHLOROPHENOL		1.225	6.6		430 U	470 U	400 U
2-FLUOROBIPHENYL		1.333	0.1				
2-FLUOROPHENOL		1	1.5				
2-METHYLNAPHTHALENE		0.637	5.5		430 U	470 U	400 U
2-METHYLPHENOL		1.232	7.4		430 U	470 U	400 U
2-NITROANILINE		0.491	1.8		2200 U	2300 U	2000 U
2-NITROPHENOL		0.251	1.2		430 U	470 U	400 U
2,4-DICHLOROPHENOL		0.4	10.1		430 U	470 U	400 U
2,4-DIMETHYLPHENOL		0.474	4.4		430 U	470 U	400 U
2,4-DINITROPHENOL		0.171	5.4		2200 U	2300 U	2000 U
2,4-DINITROTOLUENE		0.431	9.5		430 U	470 U	400 U
2,4,5-TRICHLOROPHENOL		0.533	11.1		2200 U	2300 U	2000 U
2,4,6-TRIBROMOPHENOL		0.247	7.3				
2,4,6-TRICHLOROPHENOL		0.499	1.3		430 U	470 U	400 U
2,6-DINITROTOLUENE		0.382	15.9		430 U	470 U	400 U
3-NITROANILINE		0.418	3.7		2200 U	2300 U	2000 U
3,3'-DICHLOROBENZIDINE		0.139	16.3		870 U	930 U	800 U
4-BROMOPHENYL-PHENYLETHER		0.363	16.5		430 U	470 U	400 U
4-CHLORO-3-METHYLPHENOL		0.394	6.3		430 U	470 U	400 U
4-CHLOROANILINE		0.478	3.9		430 U	470 U	400 U
4-CHLOROPHENYL-PHENYLETHER		0.574	2.3		430 U	470 U	400 U
4-METHYLPHENOL		1.289	8.6		430 U	470 U	400 U
4-NITROANILINE		0.108	46.5		2200 U	2300 U	2000 U
4-NITROPHENOL		0.109	42.9		2200 U	2300 U	2000 U
4,6-DINITRO-2-METHYLPHENOL		0.175	4.4		2200 U	2300 U	2000 U
SURR 1(NBZ) %RECOVERY					37	37	39
SURR 2(FBP) %RECOVERY					37	39	39
SURR 3(TPH) %RECOVERY					48	41	37
SURR 4(PHL) %RECOVERY					39	38	41
SURR 5(2FP) %RECOVERY					42	42	48
SURR 6(TBP) %RECOVERY					59	66	72

TABLE D.7.6 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD24

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION							
TYPE OF LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD RET TIM SHIFT	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND
SAMPLE NUMBER	AR1224875	AR1224877	AR1224877	AR1224878	AR802029C	AR802030C	AR802041C
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					17	17	17
M/E 51	54						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	72						
M/E 70-1	0.66						
M/E 70-2	0.92						
M/E 127	44						
M/E 197	0						
M/E 198	100						
M/E 199	7.2						
M/E 275	24						
M/E 365	4.8						
M/E 441	15						
M/E 442	97						
M/E 443-1	21						
M/E 443-2	21						
INTERNAL STD AREA(ANT)							
INTERNAL STD AREA(CRY)				1580000		1750000	2030000
INTERNAL STD AREA(DCB)				323000		449000	810000 *
INTERNAL STD AREA(NPT)				788000		986000	1060000
INTERNAL STD AREA(PHN)				2610000		3280000	3630000
INTERNAL STD AREA(PRY)				1900000		1950000	2400000
				204000		339000	522000 *
DILUTION FACTOR					1.4	1.5	1.3
PERCENT MOISTURE					30.3	34	25.4
ACTUAL(ALLOWED) EXTRACT TIME					6(14 D)	6(14 D)	6(14 D)

AREA							
LOCATION							
TYPE OF LOCATION	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND		
SAMPLE NUMBER	AR802052C	AR802063C	AR802074C	AR802085C	AR802096C		
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL		
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG		
ENV PROBLEM NO	17	17	17	17	17		
ACENAPHTHENE	380 U	400 U	380 U	380 U	380 U		

AREA

LOCATION	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW
TYPE OF LOCATION	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR802052C	AR802063C	AR802074C	AR802085C	AR802096C
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	17	17	17	17	17
ACENAPHTHYLENE	380 U	400 U	380 U	380 U	380 U
ANTHRACENE	380 U	400 U	380 U	380 U	380 U
BENZO(A)ANTHRACENE	380 U	400 U	380 U	380 U	380 U
BENZO(A)PYRENE	380 U	400 U	380 U	380 U	380 U
BENZO(B)FLUORANTHENE	380 U	400 U	380 U	380 U	380 U
BENZO(G,H,I)PERYLENE	380 U	400 U	380 U	380 U	380 U
BENZO(K)FLUORANTHENE	380 U	400 U	380 U	380 U	380 U
BENZOIC ACID	1900 U	2000 U	1900 U	1900 U	1900 U
BENZYL ALCOHOL	380 U	400 U	380 U	380 U	380 U
BIS(2-CHLOROETHOXY)METHANE	380 U	400 U	380 U	380 U	380 U
BIS(2-CHLOROETHYL)ETHER	380 U	400 U	380 U	380 U	380 U
BIS(2-CHLOROISOPROPYL)ETHER	380 U	400 U	380 U	380 U	380 U
BIS(2-ETHYLHEXYL)PHTHALATE	380 U	400 U	380 U	380 U	380 U
BUTYLBENZYLPHTHALATE	380 U	400 U	380 U	380 U	380 U
CHRYSENE	380 U	400 U	380 U	380 U	380 U
DI-N-BUTYLPHTHALATE	380 U	400 U	380 U	380 U	380 U
DI-N-OCTYL PHTHALATE	380 U	400 U	380 U	380 U	380 U
DIBENZ(A,H)ANTHRACENE	380 U	400 U	380 U	380 U	380 U
DIBENZOFURAN	380 U	400 U	380 U	380 U	380 U
DIETHYLPHTHALATE	380 U	400 U	380 U	380 U	380 U
DIMETHYLPHTHALATE	380 U	400 U	380 U	380 U	380 U
FLUORANTHENE	380 U	400 U	380 U	380 U	380 U
FLUORENE	380 U	400 U	380 U	380 U	380 U
HEXACHLOROBENZENE	380 U	400 U	380 U	380 U	380 U
HEXACHLOROBUTADIENE	380 U	400 U	380 U	380 U	380 U
HEXACHLOROCYCLOPENTADIENE	380 U	400 U	380 U	380 U	380 U
HEXACHLOROETHANE	380 U	400 U	380 U	380 U	380 U
INDENO(1,2,3-CD)PYRENE	380 U	400 U	380 U	380 U	380 U
ISOPHORONE	380 U	400 U	380 U	380 U	380 U
N-NITROSO-DI-N-PROPYLAMINE	380 U	400 U	380 U	380 U	380 U
N-NITROSODIPHENYLAMINE	380 U	400 U	380 U	380 U	380 U
NAPHTHALENE	380 U	400 U	380 U	380 U	380 U
NITROBENZENE	380 U	400 U	380 U	380 U	380 U
NITROBENZENE-D5					
PENTACHLOROPHENOL	1900 U	2000 U	1900 U	1900 U	1900 U
PHENANTHRENE	380 U	400 U	380 U	380 U	380 U
PHENOL	380 U	400 U	380 U	380 U	380 U
PHENOL-D5					
PYRENE	380 U	400 U	380 U	380 U	380 U

TABLE D.7.6 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD24

DRAFT DO NOT CITE

AREA

LOCATION	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW
TYPE OF LOCATION	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR802052C	AR802063C	AR802074C	AR802085C	AR802096C
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	17	17	17	17	17
TERPHENYL-D14					
1,2-DICHLOROBENZENE	380 U	400 U	380 U	380 U	380 U
1,2,4-TRICHLOROBENZENE	380 U	400 U	380 U	380 U	380 U
1,3-DICHLOROBENZENE	380 U	400 U	380 U	380 U	380 U
1,4-DICHLOROBENZENE	380 U	400 U	380 U	380 U	380 U
2-CHLORONAPHTHALENE	380 U	400 U	380 U	380 U	380 U
2-CHLOROPHENOL	380 U	400 U	380 U	380 U	380 U
2-FLUOROBIPHENYL					
2-FLUOROPHENOL					
2-METHYLNAPHTHALENE	380 U	400 U	380 U	380 U	380 U
2-METHYLPHENOL	380 U	400 U	380 U	380 U	380 U
2-NITROANILINE	1900 U	2000 U	1900 U	1900 U	1900 U
2-NITROPHENOL	380 U	400 U	380 U	380 U	380 U
2,4-DICHLOROPHENOL	380 U	400 U	380 U	380 U	380 U
2,4-DIMETHYLPHENOL	380 U	400 U	380 U	380 U	380 U
2,4-DINITROPHENOL	1900 U	2000 U	1900 U	1900 U	1900 U
2,4-DINITROTOLUENE	380 U	400 U	380 U	380 U	380 U
2,4,5-TRICHLOROPHENOL	1900 U	2000 U	1900 U	1900 U	1900 U
2,4,6-TRIBROMOPHENOL					
2,4,6-TRICHLOROPHENOL	380 U	400 U	380 U	380 U	380 U
2,6-DINITROTOLUENE	380 U	400 U	380 U	380 U	380 U
3-NITROANILINE	1900 U	2000 U	1900 U	1900 U	1900 U
3,3'-DICHLOROBENZIDINE	760 U	800 U	760 U	760 U	760 U
4-BROMOPHENYL-PHENYLETHER	380 U	400 U	380 U	380 U	380 U
4-CHLORO-3-METHYLPHENOL	380 U	400 U	380 U	380 U	380 U
4-CHLOROANILINE	380 U	400 U	380 U	380 U	380 U
4-CHLOROPHENYL-PHENYLETHER	380 U	400 U	380 U	380 U	380 U
4-METHYLPHENOL	380 U	400 U	380 U	380 U	380 U
4-NITROANILINE	1900 U	2000 U	1900 U	1900 U	1900 U
4-NITROPHENOL	1900 U	2000 U	1900 U	1900 U	1900 U
4,6-DINITRO-2-METHYLPHENOL	1900 U	2000 U	1900 U	1900 U	1900 U
SURR 1(NBZ) %RECOVERY	48	42	43	45	49
SURR 2(FBP) %RECOVERY	56	49	45	47	49
SURR 3(TPH) %RECOVERY	51	55	49	46	59
SURR 4(PHL) %RECOVERY	95	59	55	55	55
SURR 5(2FP) %RECOVERY	103	53	55	29	57
SURR 6(TBP) %RECOVERY	99	93	90	82	101

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TABLE D.7.6 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD24 DRAFT DO NOT CITE

AREA

LOCATION	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW		
TYPE OF LOCATION	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND		
SAMPLE NUMBER	AR802052C	AR802063C	AR802074C	AR802085C	AR802096C		
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL		
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG		
ENV PROBLEM NO	17	17	17	17	17		
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)	1570000	2160000	1790000	1890000	1890000		
INTERNAL STD AREA(CRY)	624000	527000	462000	684000 *	386000		
INTERNAL STD AREA(DCB)	551000	1130000	928000	1040000	1090000		
INTERNAL STD AREA(NPT)	3260000	3750000	3160000	3370000	3500000		
INTERNAL STD AREA(PHN)	1840000	2180000	1900000	2210000	1840000		
INTERNAL STD AREA(PRY)	508000 *	324000	248000	410000 *	207000		
DILUTION FACTOR	1.2	1.3	1.2	1.2	1.2		
PERCENT MOISTURE	22.1	25.7	19.5	20.5	22.4		
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)	6(14 D)	6(14 D)	6(14 D)	6(14 D)		

TABLE D.7.7 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD25

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION							
TYPE OF LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD RET TIM SHIFT	MATRIX SPIKE	MS % RECOVERY	RPD
SAMPLE NUMBER	AR1225875	AR1225877	AR1225877	AR1225878	AR802096C	AR802096C	AR802096C
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	%	%
ENV PROBLEM NO					17	17	17
ACENAPHTHENE		1.068	1.7		1900 MS	58	5
ACENAPHTHYLENE		1.694	0.8		380 U		
ANTHRACENE		1.047	0.8		380 U		
BENZO(A)ANTHRACENE		1.115	7.4		380 U		
BENZO(A)PYRENE		1.031	5.1		380 U		
BENZO(B)FLUORANTHENE		1.081	19.3		380 U		
BENZO(G,H,I)PERYLENE		0.872	3.5		380 U		
BENZO(K)FLUORANTHENE		1.203	10.9		380 U		
BENZOIC ACID		0.217	12.5		1900 U		
BENZYL ALCOHOL		0.259	68.1		380 U		
BIS(2-CHLOROETHOXY)METHANE		0.609	13.4		380 U		
BIS(2-CHLOROETHYL)ETHER		1.708	26.2		380 U		
BIS(2-CHLOROISOPROPYL)ETHER		2.846	19.6		380 U		
BIS(2-ETHYLHEXYL)PHTHALATE		0.901	6.6		180 J		
BUTYLBENZYLPHTHALATE		0.662	16		380 U		
CHRYSENE		1.178	5.2		380 U		
DI-N-BUTYLPHTHALATE		1.044	16.2		380 U		
DI-N-OCTYL PHTHALATE		1.677	17.2		380 U		
DIBENZ(A,H)ANTHRACENE		0.664	20		380 U		
DIBENZOFURAN		1.513	1.7		380 U		
DIETHYLPHTHALATE		1.105	7.1		34 J		
DIMETHYLPHTHALATE		1.446	2.8		380 U		
FLUORANTHENE		0.614	30.9		380 U		
FLUORENE		1.088	4		380 U		
HEXACHLOROBENZENE		0.673	45.2		380 U		
HEXACHLOROBUTADIENE		0.318	3.7		380 U		
HEXACHLOROCYCLOPENTADIENE		0.492	9.5		380 U		
HEXACHLOROETHANE		0.852	18.9		380 U		
INDENO(1,2,3-CD)PYRENE		0.614	47.6		380 U		
ISOPHORONE		1.065	20.4		380 U		
N-NITROSO-DI-N-PROPYLAMINE		1.457	21.4		2300 MS	70	32
N-NITROSODIPHENYLAMINE		0.613	11.6		380 U		
NAPHTHALENE		1.131	15.5		380 U		
NITROBENZENE		0.572	12.5		380 U		
NITROBENZENE-D5		0.549	14.8				
PENTACHLOROPHENOL		0.144	38.5		5700 MS	86	3
PHENANTHRENE		1.039	3.4		380 U		
PHENOL		1.974	29.7		4600 MS	73	5
PHENOL-D5		1.732	27				

TABLE D.7.7 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD25 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	MATRIX	MS %	RPD
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	SPIKE	RECOVERY	
SAMPLE NUMBER	AR1225875	AR1225877	AR1225877	AR1225878	AR802096C	AR802096C	AR802096C
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	%	%
ENV PROBLEM NO					17	17	17
PYRENE		2.363	1.9		2100 MS	64	0
TERPHENYL-D14		1.456	5.6				
1,2-DICHLOROBENZENE		1.498	5.7		380 U		
1,2,4-TRICHLOROBENZENE		0.444	2.7		2700 MS	82	52 *
1,3-DICHLOROBENZENE		1.554	6.6		380 U		
1,4-DICHLOROBENZENE		1.621	11.2		2600 MS	79	8
2-CHLORONAPHTHALENE		1.214	4.8		380 U		
2-CHLOROPHENOL		1.348	17.3		5800 MS	80	4
2-FLUOROBIPHENYL		1.219	8.4				
2-FLUOROPHENOL		1.017	0.1				
2-METHYLNAPHTHALENE		0.831	37.7		380 U		
2-METHYLPHENOL		1.298	13.1		380 U		
2-NITROANILINE		0.494	1.1		1900 U		
2-NITROPHENOL		0.257	3.6		380 U		
2,4-DICHLOROPHENOL		0.367	0.9		380 U		
2,4-DIMETHYLPHENOL		0.494	8.7		380 U		
2,4-DINITROPHENOL		0.092	49.2		1900 U		
2,4-DINITROTOLUENE		0.374	4.9		2100 MS	64	10
2,4,5-TRICHLOROPHENOL		0.462	3.7		1900 U		
2,4,6-TRIBROMOPHENOL		0.327	23				
2,4,6-TRICHLOROPHENOL		0.429	12.9		380 U		
2,6-DINITROTOLUENE		0.352	6.8		380 U		
3-NITROANILINE		0.401	7.7		1900 U		
3,3'-DICHLOROBENZIDINE		0.18	8.4		760 U		
4-BROMOPHENYL-PHENYLETHER		0.451	44.7		380 U		
4-CHLORO-3-METHYLPHENOL		0.348	6		5200 MS	79	19
4-CHLOROANILINE		0.465	1.2		380 U		
4-CHLOROPHENYL-PHENYLETHER		0.544	3		380 U		
4-METHYLPHENOL		1.359	14.5		380 U		
4-NITROANILINE		0.103	49.1		1900 U		
4-NITROPHENOL		0.073	61.7		5500 MS	83	8
4,6-DINITRO-2-METHYLPHENOL		0.149	11.3		1900 U		
SURR 1(NBZ) %RECOVERY					52		
SURR 2(FBP) %RECOVERY					47		
SURR 3(TPH) %RECOVERY					61		
SURR 4(PHL) %RECOVERY					69		
SURR 5(2FP) %RECOVERY					53		
SURR 6(TBP) %RECOVERY					62		

TABLE D.7.7 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD25

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION							
TYPE OF LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD RET TIM SHIFT	MATRIX SPIKE	MS % RECOVERY	RPD
SAMPLE NUMBER	AR1225875	AR1225877	AR1225877	AR1225878	AR802096C	AR802096C	AR802096C
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	%	%
ENV PROBLEM NO					17	17	17
M/E 51	54						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	67						
M/E 70-1	0.7						
M/E 70-2	1.1						
M/E 127	40						
M/E 197	0						
M/E 198	100						
M/E 199	6.6						
M/E 275	24						
M/E 365	4.1						
M/E 441	17						
M/E 442	96						
M/E 443-1	20						
M/E 443-2	21						
INTERNAL STD AREA(ANT)				4130000	4700000		
INTERNAL STD AREA(CRY)				1030000	1440000		
INTERNAL STD AREA(DCB)				1860000	1560000		
INTERNAL STD AREA(NPT)				6710000	6270000		
INTERNAL STD AREA(PHN)				4410000	5660000		
INTERNAL STD AREA(PRY)				663000	734000		
DILUTION FACTOR					1.2		
PERCENT MOISTURE					22.4		
ACTUAL(ALLOWED) EXTRACT TIME					6(14 D)		

AREA	QA	QA					
LOCATION							
TYPE OF LOCATION	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	B145 DRUM DRUM	B145 DRUM DRUM	DRYING BED SLUDGE		
SAMPLE NUMBER	AR802096C	AR802096C	AR817015C	AR817026C	AR501014B		
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL		
UNITS	UG/KG	%	UG/KG	UG/KG	UG/KG		
ENV PROBLEM NO	17	17	27	27	11		
ACENAPHTHENE	2000 MS	61	390 U	350 U	4800 U		

TABLE D.7.7 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD25 DRAFT DO NOT CITE

AREA	QA	QA			
LOCATION	MATRIX SPIKE	MSD %	B145 DRUM	B145 DRUM	DRYING BED
TYPE OF LOCATION	DUPLICATE	RECOVERY	DRUM	DRUM	SLUDGE
SAMPLE NUMBER	AR802096C	AR802096C	AR817015C	AR817026C	AR501014B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	17	17	27	27	11
ACENAPHTHYLENE	380 U		390 U	350 U	4800 U
ANTHRACENE	380 U		390 U	350 U	4800 U
BENZO(A)ANTHRACENE	380 U		390 U	350 U	4800 U
BENZO(A)PYRENE	380 U		390 U	350 U	4800 U
BENZO(B)FLUORANTHENE	380 U		390 U	350 U	4800 U
BENZO(G,H,I)PERYLENE	380 U		390 U	350 U	4800 U
BENZO(K)FLUORANTHENE	380 U		390 U	350 U	4800 U
BENZOIC ACID	1900 U		1900 U	1800 U	24000 U
BENZYL ALCOHOL	380 U		390 U	350 U	4800 U
BIS(2-CHLOROETHOXY)METHANE	380 U		390 U	350 U	4800 U
BIS(2-CHLOROETHYL)ETHER	380 U		390 U	350 U	4800 U
BIS(2-CHLOROISOPROPYL)ETHER	380 U		390 U	350 U	4800 U
BIS(2-ETHYLHEXYL)PHTHALATE	380 U		390 U	350 U	4800 U
BUTYLBENZYLPHTHALATE	380 U		390 U	350 U	4800 U
CHRYSENE	380 U		390 U	350 U	4800 U
DI-N-BUTYLPHTHALATE	380 U		390 U	350 U	4800 U
DI-N-OCTYL PHTHALATE	380 U		390 U	350 U	4800 U
DIBENZ(A,H)ANTHRACENE	380 U		390 U	350 U	4800 U
DIBENZOFURAN	380 U		390 U	350 U	4800 U
DIETHYLPHTHALATE	31 J		390 U	350 U	4800 U
DIMETHYLPHTHALATE	380 U		390 U	350 U	4800 U
FLUORANTHENE	380 U		390 U	350 U	4800 U
FLUORENE	380 U		390 U	350 U	4800 U
HEXACHLOROBENZENE	380 U		390 U	350 U	4800 U
HEXACHLOROBUTADIENE	380 U		390 U	350 U	4800 U
HEXACHLOROCYCLOPENTADIENE	380 U		390 U	350 U	4800 U
HEXACHLOROETHANE	380 U		390 U	350 U	4800 U
INDENO(1,2,3-CD)PYRENE	380 U		390 U	350 U	4800 U
ISOPHORONE	380 U		390 U	350 U	4800 U
N-NITROSO-DI-N-PROPYLAMINE	3200 MS	97	390 U	350 U	4800 U
N-NITROSODIPHENYLAMINE	380 U		390 U	350 U	4800 U
NAPHTHALENE	380 U		390 U	350 U	4800 U
NITROBENZENE	380 U		390 U	350 U	4800 U
NITROBENZENE-D5					
PENTACHLOROPHENOL	5900 MS	89	1900 U	1800 U	24000 U
PHENANTHRENE	380 U		390 U	350 U	4800 U
PHENOL	4800 MS	77	390 U	350 U	4800 U
PHENOL-D5					
PYRENE	2100 MS	64	390 U	350 U	4800 U

TABLE D.7.7 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD25

DRAFT DO NOT CITE

AREA	QA	QA			
LOCATION	MATRIX SPIKE	MSD %	B145 DRUM	B145 DRUM	DRYING BED
TYPE OF LOCATION	DUPLICATE	RECOVERY	DRUM	DRUM	SLUDGE
SAMPLE NUMBER	AR802096C	AR802096C	AR817015C	AR817026C	AR501014B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	17	17	27	27	11
TERPHENYL-D14					
1,2-DICHLOROBENZENE	380 U		390 U	350 U	4800 U
1,2,4-TRICHLOROBENZENE	1600 MS	48	390 U	350 U	4800 U
1,3-DICHLOROBENZENE	380 U		390 U	350 U	4800 U
1,4-DICHLOROBENZENE	2400 MS	73	390 U	350 U	4800 U
2-CHLORONAPHTHALENE	380 U		390 U	350 U	4800 U
2-CHLOROPHENOL	6000 MS	83	390 U	350 U	4800 U
2-FLUOROBIPHENYL					
2-FLUOROPHENOL					
2-METHYLNAPHTHALENE	380 U		120 J	350 U	4800 U
2-METHYLPHENOL	380 U		390 U	350 U	4800 U
2-NITROANILINE	1900 U		1900 U	1800 U	24000 U
2-NITROPHENOL	380 U		390 U	350 U	4800 U
2,4-DICHLOROPHENOL	380 U		390 U	350 U	4800 U
2,4-DIMETHYLPHENOL	380 U		390 U	350 U	4800 U
2,4-DINITROPHENOL	1900 U		1900 U	1800 U	24000 U
2,4-DINITROTOLUENE	1900 MS	58	390 U	350 U	4800 U
2,4,5-TRICHLOROPHENOL	1900 U		1900 U	1800 U	24000 U
2,4,6-TRIBROMOPHENOL					
2,4,6-TRICHLOROPHENOL	380 U		390 U	350 U	4800 U
2,6-DINITROTOLUENE	380 U		390 U	350 U	4800 U
3-NITROANILINE	1900 U		1900 U	1800 U	24000 U
3,3'-DICHLOROBENZIDINE	760 U		770 U	700 U	9600 U
4-BROMOPHENYL-PHENYLETHER	380 U		390 U	350 U	4800 U
4-CHLORO-3-METHYLPHENOL	4300 MS	65	390 U	350 U	4800 U
4-CHLOROANILINE	380 U		390 U	350 U	4800 U
4-CHLOROPHENYL-PHENYLETHER	380 U		390 U	350 U	4800 U
4-METHYLPHENOL	380 U		390 U	350 U	4800 U
4-NITROANILINE	1900 U		1900 U	1800 U	24000 U
4-NITROPHENOL	5100 MS	77	1900 U	1800 U	24000 U
4,6-DINITRO-2-METHYLPHENOL	1900 U		1900 U	1800 U	24000 U
SURR 1(NBZ) %RECOVERY	44		51	0 *	0 *
SURR 2(FBP) %RECOVERY	50		76	0 *	0 *
SURR 3(TPH) %RECOVERY	59		40	0 *	0 *
SURR 4(PHL) %RECOVERY	79		36	0 *	0 *
SURR 5(2FP) %RECOVERY	93		39	0 *	0 *
SURR 6(TBP) %RECOVERY	65		61	0 *	0 *

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TABLE D.7.7 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD25 DRAFT DO NOT CITE

AREA	QA	QA			
LOCATION	MATRIX SPIKE	MSD %	B145 DRUM	B145 DRUM	DRYING BED
TYPE OF LOCATION	DUPLICATE	RECOVERY	DRUM	DRUM	SLUDGE
SAMPLE NUMBER	AR802096C	AR802096C	AR817015C	AR817026C	AR501014B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	17	17	27	27	11
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)	4670000		1170000	1400000	1390000
INTERNAL STD AREA(CRY)	1410000		243000	173000	178000
INTERNAL STD AREA(DCB)	1260000		1510000	625000	733000
INTERNAL STD AREA(NPT)	8110000		3820000	2490000	2640000
INTERNAL STD AREA(PHN)	4850000		834000	1040000	1050000
INTERNAL STD AREA(PRY)	874000		159000	123000	139000
DILUTION FACTOR	1.2		1.1	1	13.7
PERCENT MOISTURE	22.4		11.4	7.1	30.2
ACTUAL(ALLOWED) EXTRACT TIME	6(14 D)		10(14 D)	10(14 D)	7(14 D)

TABLE D.7.8 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD26 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	DRYING BED	DRYING BED	DRYING BED
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	SLUDGE	SLUDGE	SLUDGE
SAMPLE NUMBER	AR1226875	AR1226877	AR1226877	AR1226878	AR501025B	AR501036B	AR501047B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					11	11	11
ACENAPHTHENE		1.112	5.1		6300 U	7600 U	6700 U
ACENAPHTHYLENE		1.803	37.1		6300 U	7600 U	6700 U
ANTHRACENE		1.109	36.9		6300 U	7600 U	6700 U
BENZO(A)ANTHRACENE		1.14	7.8		6300 U	7600 U	6700 U
BENZO(A)PYRENE		1.165	6.5		6300 U	7600 U	6700 U
BENZO(B)FLUORANTHENE		1.019	29.3		6300 U	7600 U	6700 U
BENZO(G,H,I)PERYLENE		1.106	42		6300 U	7600 U	6700 U
BENZO(K)FLUORANTHENE		1.243	26.6		6300 U	7600 U	6700 U
BENZOIC ACID		0.229	8		31000 U	38000 U	34000 U
BENZYL ALCOHOL		0.17	78.1		6300 U	7600 U	6700 U
BIS(2-CHLOROETHOXY)METHANE		0.61	46.4		6300 U	7600 U	6700 U
BIS(2-CHLOROETHYL)ETHER		1.532	5.1		6300 U	7600 U	6700 U
BIS(2-CHLOROISOPROPYL)ETHER		2.91	20.7		6300 U	7600 U	6700 U
BIS(2-ETHYLHEXYL)PHTHALATE		1.018	20.2		6300 U	7600 U	6700 U
BUTYLBENZYLPHTHALATE		0.774	8.4		6300 U	7600 U	6700 U
CHRYSENE		1.245	28.4		6300 U	7600 U	6700 U
DI-N-BUTYLPHTHALATE		1.15	18		6300 U	7600 U	6700 U
DI-N-OCTYL PHTHALATE		1.907	34.4		6300 U	7600 U	6700 U
DIBENZ(A,H)ANTHRACENE		0.569	22.5		6300 U	7600 U	6700 U
DIBENZOFURAN		1.727	27.8		6300 U	7600 U	6700 U
DIETHYLPHTHALATE		1.158	7.7		6300 U	7600 U	6700 U
DIMETHYLPHTHALATE		1.637	14.5		6300 U	7600 U	6700 U
FLUORANTHENE		0.659	26.1		6300 U	7600 U	6700 U
FLUORENE		1.145	1.6		6300 U	7600 U	6700 U
HEXACHLOROBENZENE		0.825	150.3		6300 U	7600 U	6700 U
HEXACHLOROBUTADIENE		0.353	48.9		6300 U	7600 U	6700 U
HEXACHLOROCYCLOPENTADIENE		0.595	96.2		6300 U	7600 U	6700 U
HEXACHLOROETHANE		0.887	41.8		6300 U	7600 U	6700 U
INDENO(1,2,3-CD)PYRENE		0.589	28.7		6300 U	7600 U	6700 U
ISOPHORONE		1.087	18.6		6300 U	7600 U	6700 U
N-NITROSO-DI-N-PROPYLAMINE		1.458	34.9		6300 U	7600 U	6700 U
N-NITROSODIPHENYLAMINE		0.635	66.6		6300 U	7600 U	6700 U
NAPHTHALENE		1.093	28.3		6300 U	7600 U	6700 U
NITROBENZENE		0.586	28.2		6300 U	7600 U	6700 U
NITROBENZENE-D5		0.532	25.5				
PENTACHLOROPHENOL		0.134	31.4		31000 U	38000 U	34000 U
PHENANTHRENE		1.081	26.4		6300 U	7600 U	6700 U
PHENOL		1.924	16.1		6300 U	7600 U	6700 U
PHENOL-D5		1.712	23.8				

TABLE D.7.8 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD26 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	DRYING BED	DRYING BED	DRYING BED
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	SLUDGE	SLUDGE	SLUDGE
SAMPLE NUMBER	AR1226875	AR1226877	AR1226877	AR1226878	AR501025B	AR501036B	AR501047B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					11	11	11
PYRENE		3.012	128.7		6300 U	7600 U	6700 U
TERPHENYL-D14		1.747	120				
1,2-DICHLOROBENZENE		1.597	10		6300 U	7600 U	6700 U
1,2,4-TRICHLOROBENZENE		0.461	14.6		6300 U	7600 U	6700 U
1,3-DICHLOROBENZENE		1.568	13.1		6300 U	7600 U	6700 U
1,4-DICHLOROBENZENE		1.607	15.6		6300 U	7600 U	6700 U
2-CHLORONAPHTHALENE		1.354	21.9		6300 U	7600 U	6700 U
2-CHLOROPHENOL		1.38	28.2		6300 U	7600 U	6700 U
2-FLUOROBIPHENYL		1.348	21.2				
2-FLUOROPHENOL		1.017	2.7				
2-METHYLNAPHTHALENE		0.766	24.2		6300 U	7600 U	6700 U
2-METHYLPHENOL		1.287	25.3		6300 U	7600 U	6700 U
2-NITROANILINE		0.536	25.4		31000 U	38000 U	34000 U
2-NITROPHENOL		0.286	21.6		6300 U	7600 U	6700 U
2,4-DICHLOROPHENOL		0.387	14.3		6300 U	7600 U	6700 U
2,4-DIMETHYLPHENOL		0.466	53.2		6300 U	7600 U	6700 U
2,4-DINITROPHENOL		0.095	37.5		31000 U	38000 U	34000 U
2,4-DINITROTOLUENE		0.411	15.5		6300 U	7600 U	6700 U
2,4,5-TRICHLOROPHENOL		0.398	10.3		31000 U	38000 U	34000 U
2,4,6-TRIBROMOPHENOL		0.436	130.4				
2,4,6-TRICHLOROPHENOL		0.486	7.1		6300 U	7600 U	6700 U
2,6-DINITROTOLUENE		0.386	5.5		6300 U	7600 U	6700 U
3-NITROANILINE		0.436	2		31000 U	38000 U	34000 U
3,3'-DICHLOROBENZIDINE		0.147	24.3		13000 U	15000 U	13000 U
4-BROMOPHENYL-PHENYLETHER		0.503	84.2		6300 U	7600 U	6700 U
4-CHLORO-3-METHYLPHENOL		0.396	3.5		6300 U	7600 U	6700 U
4-CHLOROANILINE		0.497	117.2		6300 U	7600 U	6700 U
4-CHLOROPHENYL-PHENYLETHER		0.565	0.2		6300 U	7600 U	6700 U
4-METHYLPHENOL		1.368	27.4		6300 U	7600 U	6700 U
4-NITROANILINE		0.113	11.5		31000 U	38000 U	34000 U
4-NITROPHENOL		0.07	52.8		31000 U	38000 U	34000 U
4,6-DINITRO-2-METHYLPHENOL		0.158	6		31000 U	38000 U	34000 U
SURR 1(NBZ) %RECOVERY					0 *	0 *	0 *
SURR 2(FBP) %RECOVERY					0 *	0 *	0 *
SURR 3(TPH) %RECOVERY					0 *	0 *	0 *
SURR 4(PHL) %RECOVERY					0 *	0 *	0 *
SURR 5(2FP) %RECOVERY					0 *	0 *	0 *
SURR 6(TBP) %RECOVERY					0 *	0 *	0 *

TABLE D.7.8 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD26

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION							
TYPE OF LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD RET TIM SHIFT	DRYING BED SLUDGE	DRYING BED SLUDGE	DRYING BED SLUDGE
SAMPLE NUMBER	AR1226875	AR1226877	AR1226877	AR1226878	AR501025B	AR501036B	AR501047B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					11	11	11
M/E 51	57						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	76						
M/E 70-1	0.7						
M/E 70-2	0.97						
M/E 127	46						
M/E 197	0						
M/E 198	100						
M/E 199	7.1						
M/E 275	21						
M/E 365	3.2						
M/E 441	12						
M/E 442	72						
M/E 443-1	15						
M/E 443-2	21						
INTERNAL STD AREA(ANT)				1310000	1770000	1700000	1770000
INTERNAL STD AREA(CRY)				280000	736000 *	330000	1230000
INTERNAL STD AREA(DCB)				624000	940000	816000	856000
INTERNAL STD AREA(NPT)				2280000	3300000	3020000	3000000
INTERNAL STD AREA(PHN)				1430000	2040000	1460000	2040000
INTERNAL STD AREA(PRY)				160000	674000 *	258000	1090000 *
DILUTION FACTOR					18.8	22.7	20.2
PERCENT MOISTURE					46.4	55.5	50
ACTUAL(ALLOWED) EXTRACT TIME					7(14 D)	7(14 D)	7(14 D)

AREA							
LOCATION							
TYPE OF LOCATION	DRYING BED SLUDGE	DRYING BED SLUDGE					
SAMPLE NUMBER	AR501058B	AR501069B					
MATRIX	SOIL	SOIL					
UNITS	UG/KG	UG/KG					
ENV PROBLEM NO	11	11					
ACENAPHTHENE	7300 U	7800 U					

AREA

LOCATION	DRYING BED	DRYING BED
TYPE OF LOCATION	SLUDGE	SLUDGE
SAMPLE NUMBER	AR501058B	AR501069B
MATRIX	SOIL	SOIL
UNITS	UG/KG	UG/KG
ENV PROBLEM NO	11	11
ACENAPHTHYLENE	7300 U	7800 U
ANTHRACENE	7300 U	7800 U
BENZO(A)ANTHRACENE	7300 U	7800 U
BENZO(A)PYRENE	7300 U	7800 U
BENZO(B)FLUORANTHENE	7300 U	7800 U
BENZO(G,H,I)PERYLENE	7300 U	7800 U
BENZO(K)FLUORANTHENE	7300 U	7800 U
BENZOIC ACID	37000 U	39000 U
BENZYL ALCOHOL	7300 U	7800 U
BIS(2-CHLOROETHOXY)METHANE	7300 U	7800 U
BIS(2-CHLOROETHYL)ETHER	7300 U	7800 U
BIS(2-CHLOROISOPROPYL)ETHER	7300 U	7800 U
BIS(2-ETHYLHEXYL)PHTHALATE	7300 U	7800 U
BUTYLBENZYLPHTHALATE	7300 U	7800 U
CHRYSENE	7300 U	7800 U
DI-N-BUTYLPHTHALATE	7300 U	7800 U
DI-N-OCTYL PHTHALATE	7300 U	7800 U
DIBENZ(A,H)ANTHRACENE	7300 U	7800 U
DIBENZOFURAN	7300 U	7800 U
DIETHYLPHTHALATE	7300 U	7800 U
DIMETHYLPHTHALATE	7300 U	7800 U
FLUORANTHENE	7300 U	7800 U
FLUORENE	7300 U	7800 U
HEXACHLOROBENZENE	7300 U	7800 U
HEXACHLOROBUTADIENE	7300 U	7800 U
HEXACHLOROCYCLOPENTADIENE	7300 U	7800 U
HEXACHLOROETHANE	7300 U	7800 U
INDENO(1,2,3-CD)PYRENE	7300 U	7800 U
ISOPHORONE	7300 U	7800 U
N-NITROSO-DI-N-PROPYLAMINE	7300 U	7800 U
N-NITROSODIPHENYLAMINE	7300 U	7800 U
NAPHTHALENE	7300 U	7800 U
NITROBENZENE	7300 U	7800 U
NITROBENZENE-D5		
PENTACHLOROPHENOL	37000 U	39000 U
PHENANTHRENE	7300 U	7800 U
PHENOL	7300 U	7800 U
PHENOL-D5		
PYRENE	7300 U	7800 U

TABLE D.7.8 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD26 DRAFT DO NOT CITE

AREA

LOCATION	DRYING BED	DRYING BED
TYPE OF LOCATION	SLUDGE	SLUDGE
SAMPLE NUMBER	AR501058B	AR501069B
MATRIX	SOIL	SOIL
UNITS	UG/KG	UG/KG
ENV PROBLEM NO	11	11
TERPHENYL-D14		
1,2-DICHLOROBENZENE	7300 U	7800 U
1,2,4-TRICHLOROBENZENE	7300 U	7800 U
1,3-DICHLOROBENZENE	7300 U	7800 U
1,4-DICHLOROBENZENE	7300 U	7800 U
2-CHLORONAPHTHALENE	7300 U	7800 U
2-CHLOROPHENOL	7300 U	7800 U
2-FLUOROBIPHENYL		
2-FLUOROPHENOL		
2-METHYLNAPHTHALENE	7300 U	7800 U
2-METHYLPHENOL	7300 U	7800 U
2-NITROANILINE	37000 U	39000 U
2-NITROPHENOL	7300 U	7800 U
2,4-DICHLOROPHENOL	7300 U	7800 U
2,4-DIMETHYLPHENOL	7300 U	7800 U
2,4-DINITROPHENOL	37000 U	39000 U
2,4-DINITROTOLUENE	7300 U	7800 U
2,4,5-TRICHLOROPHENOL	37000 U	39000 U
2,4,6-TRIBROMOPHENOL		
2,4,6-TRICHLOROPHENOL	7300 U	7800 U
2,6-DINITROTOLUENE	7300 U	7800 U
3-NITROANILINE	37000 U	39000 U
3,3'-DICHLOROBENZIDINE	15000 U	16000 U
4-BROMOPHENYL-PHENYLETHER	7300 U	7800 U
4-CHLORO-3-METHYLPHENOL	7300 U	7800 U
4-CHLOROANILINE	7300 U	7800 U
4-CHLOROPHENYL-PHENYLETHER	7300 U	7800 U
4-METHYLPHENOL	7300 U	7800 U
4-NITROANILINE	37000 U	39000 U
4-NITROPHENOL	37000 U	39000 U
4,6-DINITRO-2-METHYLPHENOL	37000 U	39000 U
SURR 1(NBZ) %RECOVERY	0 *	0 *
SURR 2(FBP) %RECOVERY	0 *	0 *
SURR 3(TPH) %RECOVERY	0 *	0 *
SURR 4(PHL) %RECOVERY	0 *	0 *
SURR 5(2FP) %RECOVERY	0 *	0 *
SURR 6(TBP) %RECOVERY	0 *	0 *

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TABLE D.7.8 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD26 DRAFT DO NOT CITE

AREA

LOCATION	DRYING BED	DRYING BED					
TYPE OF LOCATION	SLUDGE	SLUDGE					
SAMPLE NUMBER	AR501058B	AR501069B					
MATRIX	SOIL	SOIL					
UNITS	UG/KG	UG/KG					
ENV PROBLEM NO	11	11					
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)	1400000	1390000					
INTERNAL STD AREA(CRY)	173000	178000					
INTERNAL STD AREA(DCB)	625000	733000					
INTERNAL STD AREA(NPT)	2490000	2640000					
INTERNAL STD AREA(PHN)	1040000	1050000					
INTERNAL STD AREA(PRY)	123000	139000					
DILUTION FACTOR	22	23.2					
PERCENT MOISTURE	54.2	56.6					
ACTUAL(ALLOWED) EXTRACT TIME	7(14 D)	7(14 D)					

TABLE D.7.9 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD28 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	SAWMILL CR	SAWMILL CR	SAWMILL CR
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR1228875	AR1228877	AR1228877	AR1228878	AR302013B	AR302024B	AR302035B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					2	2	2
ACENAPHTHENE		1.091	3.2		4300 U	320 U	320 U
ACENAPHTHYLENE		1.797	36.6		4300 U	320 U	320 U
ANTHRACENE		1.207	49		4300 U	320 U	320 U
BENZO(A)ANTHRACENE		1.3	22.9		4300 U	320 U	320 U
BENZO(A)PYRENE		1.233	12.8		4300 U	320 U	320 U
BENZO(B)FLUORANTHENE		1.266	12.1		4300 U	320 U	320 U
BENZO(G,H,I)PERYLENE		0.571	26.7		4300 U	320 U	320 U
BENZO(K)FLUORANTHENE		1.455	48.2		4300 U	320 U	320 U
BENZOIC ACID		0.056	77.4		21500 U	1600 U	1600 U
BENZYL ALCOHOL		0.391	49.7		4300 U	320 U	320 U
BIS(2-CHLOROETHOXY)METHANE		0.593	18.9		4300 U	320 U	320 U
BIS(2-CHLOROETHYL)ETHER		1.547	4.2		4300 U	320 U	320 U
BIS(2-CHLOROISOPROPYL)ETHER		2.452	1.7		4300 U	46 J	69 J
BIS(2-ETHYLHEXYL)PHTHALATE		1.158	36.8		4300 U	320 U	320 U
BUTYLBENZYLPHTHALATE		0.883	23.7		4300 U	320 U	320 U
CHRYSENE		1.077	11.1		4300 U	320 U	320 U
DI-N-BUTYLPHTHALATE		1.219	25.1		4300 U	320 U	320 U
DI-N-OCTYL PHTHALATE		2.716	91.4		4300 U	320 U	320 U
DIBENZ(A,H)ANTHRACENE		0.724	1.5		4300 U	320 U	320 U
DIBENZOFURAN		1.714	26.8		4300 U	320 U	320 U
DIETHYLPHTHALATE		2.893	169.1		22000	380	380
DIMETHYLPHTHALATE		1.819	27.2		1400 J	320 U	320 U
FLUORANTHENE		0.623	30.2		4300 U	260 J	92 J
FLUORENE		1.162	3		4300 U	320 U	320 U
HEXACHLOROBENZENE		0.517	57		4300 U	320 U	320 U
HEXACHLOROBUTADIENE		0.373	57.1		4300 U	320 U	320 U
HEXACHLOROCYCLOPENTADIENE		0.438	44.6		4300 U	320 U	320 U
HEXACHLOROETHANE		0.788	26.1		4300 U	320 U	320 U
INDENO(1,2,3-CD)PYRENE		1.06	28.3		4300 U	320 U	320 U
ISOPHORONE		1.063	16		4300 U	320 U	320 U
N-NITROSO-DI-N-PROPYLAMINE		1.338	23.8		4300 U	320 U	320 U
N-NITROSODIPHENYLAMINE		0.729	91.4		4300 U	320 U	320 U
NAPHTHALENE		1.169	37.4		4300 U	320 U	320 U
NITROBENZENE		0.589	29		4300 U	320 U	320 U
NITROBENZENE-D5		0.536	26.6				
PENTACHLOROPHENOL		0.097	50.6		21500 U	1600 U	1600 U
PHENANTHRENE		1.151	34.7		4300 U	83 J	49 J
PHENOL		1.735	4.7		4300 U	320 U	320 U
PHENOL-D5		1.559	12.8				

TABLE D.7.9 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD28 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	SAWMILL CR	SAWMILL CR	SAWMILL CR
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR1228875	AR1228877	AR1228877	AR1228878	AR302013B	AR302024B	AR302035B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					2	2	2
PYRENE		2.945	123.6		4300 U	310 J	92 J
TERPHENYL-D14		1.722	116.8				
1,2-DICHLOROBENZENE		1.593	9.7		4300 U	320 U	320 U
1,2,4-TRICHLOROBENZENE		0.533	32.7		4300 U	320 U	320 U
1,3-DICHLOROBENZENE		1.623	17.1		4300 U	320 U	320 U
1,4-DICHLOROBENZENE		1.59	14.4		4300 U	320 U	320 U
2-CHLORONAPHTHALENE		1.315	18.4		4300 U	320 U	320 U
2-CHLOROPHENOL		1.271	18.1		4300 U	320 U	320 U
2-FLUOROBIPHENYL		1.429	28.5				
2-FLUOROPHENOL		1.009	1.9				
2-METHYLNAPHTHALENE		0.036	94.1		4300 U	320 U	320 U
2-METHYLPHENOL		1.176	14.5		4300 U	320 U	320 U
2-NITROANILINE		0.437	2.3		21500 U	1600 U	1600 U
2-NITROPHENOL		0.275	17		4300 U	320 U	320 U
2,4-DICHLOROPHENOL		0.421	24.3		4300 U	320 U	320 U
2,4-DIMETHYLPHENOL		0.473	29.6		4300 U	320 U	320 U
2,4-DINITROPHENOL		0.105	45.8		21500 U	1600 U	1600 U
2,4-DINITROTOLUENE		0.399	18.1		4300 U	320 U	320 U
2,4,5-TRICHLOROPHENOL		0.485	9.2		21500 U	1600 U	1600 U
2,4,6-TRIBROMOPHENOL		0.199	5.4				
2,4,6-TRICHLOROPHENOL		0.506	11.4		4300 U	320 U	320 U
2,6-DINITROTOLUENE		0.383	4.6		4300 U	320 U	320 U
3-NITROANILINE		0.168	60.7		21500 U	1600 U	1600 U
3,3'-DICHLOROBENZIDINE		0.135	14.1		8600 U	630 U	630 U
4-BROMOPHENYL-PHENYLETHER		0.407	49.1		4300 U	320 U	320 U
4-CHLORO-3-METHYLPHENOL		0.391	2.4		4300 U	320 U	320 U
4-CHLOROANILINE		0.463	102.6		4300 U	320 U	320 U
4-CHLOROPHENYL-PHENYLETHER		0.517	8.7		4300 U	320 U	320 U
4-METHYLPHENOL		1.248	16.3		4300 U	320 U	320 U
4-NITROANILINE		0.071	44.6		21500 U	1600 U	1600 U
4-NITROPHENOL		0.058	61.3		21500 U	1600 U	1600 U
4,6-DINITRO-2-METHYLPHENOL		0.154	8.4		21500 U	1600 U	1600 U
SURR 1(NBZ) %RECOVERY					2 *	40	41
SURR 2(FBP) %RECOVERY					4 *	45	41
SURR 3(TPH) %RECOVERY					5 *	85	80
SURR 4(PHL) %RECOVERY					2 *	47	41
SURR 5(2FP) %RECOVERY					3 *	49	43
SURR 6(TBP) %RECOVERY					8 *	111	165 *

TABLE D.7.9 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD28 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	SAWMILL CR	SAWMILL CR	SAWMILL CR
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR1228875	AR1228877	AR1228877	AR1228878	AR302013B	AR302024B	AR302035B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					2	2	2
M/E 51	73						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	100						
M/E 70-1	1.3						
M/E 70-2	1.3						
M/E 127	55						
M/E 197	0						
M/E 198	85						
M/E 199	6.3						
M/E 275	18						
M/E 365	3.4						
M/E 441	11						
M/E 442	59						
M/E 443-1	12						
M/E 443-2	20						
INTERNAL STD AREA(ANT)				2680000	2660000	3090000	3610000
INTERNAL STD AREA(CRY)				489000	872000	395000	664000
INTERNAL STD AREA(DCB)				1240000	1320000	1480000	1830000
INTERNAL STD AREA(NPT)				4150000	4620000	5370000	6350000
INTERNAL STD AREA(PHN)				2720000	2740000	2800000	3130000
INTERNAL STD AREA(PRY)				263000	602000 *F	220000	403000
DILUTION FACTOR					13	1.3	1.2
PERCENT MOISTURE					28.6	25.4	18.5
ACTUAL(ALLOWED) EXTRACT TIME					14(14 D)	14(14 D)	14(14 D)

AREA							
LOCATION	COAL PILE	COAL PILE	COAL PILE	B815 SEWER	B815 SEWER	B815 SEWER	
TYPE OF LOCATION	RUNOFF	RUNOFF	RUNOFF	DRAINAGE	DRAINAGE	DRAINAGE	
SAMPLE NUMBER	AR308019B	AR308020B	AR308031B	AR310013B	AR310024B	AR310035B	
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	5	5	5	
ACENAPHTHENE	320 U	320 U	320 U	410 U	32 U	320 U	

TABLE D.7.9 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD28 DRAFT DO NOT CITE

AREA

LOCATION	COAL PILE	COAL PILE	COAL PILE	B815 SEWER	B815 SEWER	B815 SEWER
TYPE OF LOCATION	RUNOFF	RUNOFF	RUNOFF	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR308019B	AR308020B	AR308031B	AR310013B	AR310024B	AR310035B
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	5	5	5
ACENAPHTHYLENE	320 U	320 U	320 U	410 U	32 U	320 U
ANTHRACENE	320 U	320 U	320 U	410 U	32 U	320 U
BENZO(A)ANTHRACENE	320 U	320 U	320 U	410 U	32 U	320 U
BENZO(A)PYRENE	320 U	320 U	320 U	410 U	32 U	320 U
BENZO(B)FLUORANTHENE	320 U	320 U	320 U	410 U	32 U	320 U
BENZO(G,H,I)PERYLENE	320 U	320 U	320 U	410 U	32 U	320 U
BENZO(K)FLUORANTHENE	320 U	320 U	320 U	410 U	32 U	320 U
BENZOIC ACID	1600 U	1600 U	1600 U	2050 U	160 U	1600 U
BENZYL ALCOHOL	320 U	320 U	320 U	410 U	32 U	320 U
BIS(2-CHLOROETHOXY)METHANE	320 U	320 U	320 U	410 U	32 U	320 U
BIS(2-CHLOROETHYL)ETHER	320 U	320 U	320 U	410 U	32 U	320 U
BIS(2-CHLOROISOPROPYL)ETHER	62 J	320 U	320 U	410 U	32 U	320 U
BIS(2-ETHYLHEXYL)PHTHALATE	320 U	320 U	320 U	410 U	32 U	320 U
BUTYLBENZYLPHTHALATE	320 U	320 U	320 U	410 U	32 U	320 U
CHRYSENE	320 U	320 U	320 U	410 U	32 U	320 U
DI-N-BUTYLPHTHALATE	320 U	320 U	320 U	410 U	32 U	320 U
DI-N-OCTYL PHTHALATE	320 U	320 U	320 U	410 U	32 U	320 U
DIBENZ(A,H)ANTHRACENE	320 U	320 U	320 U	410 U	32 U	320 U
DIBENZOFURAN	320 U	320 U	320 U	410 U	32 U	320 U
DIETHYLPHTHALATE	180 J	240 J	150 J	115 J	14 J	82 J
DIMETHYLPHTHALATE	320 U	320 U	320 U	410 U	32 U	320 U
FLUORANTHENE	320 U	320 U	74 J	410 U	14 J	320 U
FLUORENE	320 U	320 U	320 U	410 U	32 U	320 U
HEXACHLOROBENZENE	320 U	320 U	320 U	410 U	32 U	320 U
HEXACHLOROBUTADIENE	320 U	320 U	320 U	410 U	32 U	320 U
HEXACHLOROCYCLOPENTADIENE	320 U	320 U	320 U	410 U	32 U	320 U
HEXACHLOROETHANE	320 U	320 U	320 U	410 U	32 U	320 U
INDENO(1,2,3-CD)PYRENE	320 U	320 U	320 U	410 U	32 U	320 U
ISOPHORONE	320 U	320 U	320 U	410 U	32 U	320 U
N-NITROSO-DI-N-PROPYLAMINE	320 U	320 U	320 U	410 U	32 U	320 U
N-NITROSODIPHENYLAMINE	320 U	320 U	320 U	410 U	32 U	320 U
NAPHTHALENE	320 U	320 U	320 U	410 U	32 U	320 U
NITROBENZENE	320 U	320 U	320 U	410 U	32 U	320 U
NITROBENZENE-D5						
PENTACHLOROPHENOL	1600 U	1600 U	1600 U	2050 U	160 U	1600 U
PHENANTHRENE	320 U	67 J	63 J	410 U	12 J	320 U
PHENOL	320 U	320 U	320 U	410 U	32 U	320 U
PHENOL-D5						
PYRENE	320 U	320 U	320 U	410 U	32 U	320 U

TABLE D.7.9 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD28 DRAFT DO NOT CITE

AREA

LOCATION	COAL PILE	COAL PILE	COAL PILE	B815 SEWER	B815 SEWER	B815 SEWER
TYPE OF LOCATION	RUNOFF	RUNOFF	RUNOFF	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR308019B	AR308020B	AR308031B	AR310013B	AR310024B	AR310035B
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	5	5	5
TERPHENYL-D14						
1,2-DICHLOROBENZENE	320 U	320 U	320 U	410 U	32 U	320 U
1,2,4-TRICHLOROBENZENE	320 U	320 U	320 U	410 U	32 U	320 U
1,3-DICHLOROBENZENE	320 U	320 U	320 U	410 U	32 U	320 U
1,4-DICHLOROBENZENE	320 U	320 U	320 U	410 U	32 U	320 U
2-CHLORONAPHTHALENE	320 U	320 U	320 U	410 U	32 U	320 U
2-CHLOROPHENOL	320 U	320 U	320 U	410 U	32 U	320 U
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	320 U	590	320 U	410 U	32 U	320 U
2-METHYLPHENOL	320 U	320 U	320 U	410 U	32 U	320 U
2-NITROANILINE	1600 U	1600 U	1600 U	2050 U	160 U	1600 U
2-NITROPHENOL	320 U	320 U	320 U	410 U	32 U	320 U
2,4-DICHLOROPHENOL	320 U	320 U	320 U	410 U	32 U	320 U
2,4-DIMETHYLPHENOL	320 U	320 U	320 U	410 U	32 U	320 U
2,4-DINITROPHENOL	1600 U	1600 U	1600 U	2050 U	160 U	1600 U
2,4-DINITROTOLUENE	320 U	320 U	320 U	410 U	32 U	320 U
2,4,5-TRICHLOROPHENOL	1600 U	1600 U	1600 U	2050 U	160 U	1600 U
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	320 U	320 U	320 U	410 U	32 U	320 U
2,6-DINITROTOLUENE	320 U	320 U	320 U	410 U	32 U	320 U
3-NITROANILINE	1600 U	1600 U	1600 U	2050 U	160 U	1600 U
3,3'-DICHLOROBENZIDINE	630 U	630 U	630 U	820 U	63 U	630 U
4-BROMOPHENYL-PHENYLETHER	320 U	320 U	320 U	410 U	32 U	320 U
4-CHLORO-3-METHYLPHENOL	320 U	320 U	320 U	410 U	32 U	320 U
4-CHLOROANILINE	320 U	320 U	320 U	410 U	32 U	320 U
4-CHLOROPHENYL-PHENYLETHER	320 U	320 U	320 U	410 U	32 U	320 U
4-METHYLPHENOL	320 U	320 U	320 U	410 U	32 U	320 U
4-NITROANILINE	1600 U	1600 U	1600 U	2050 U	160 U	1600 U
4-NITROPHENOL	1600 U	1600 U	1600 U	2050 U	160 U	1600 U
4,6-DINITRO-2-METHYLPHENOL	1600 U	1600 U	1600 U	2050 U	160 U	1600 U
SURR 1(NBZ) %RECOVERY	45	50	40	52	0 *	0 *
SURR 2(FBP) %RECOVERY	50	56	48	50	0 *	0 *
SURR 3(TPH) %RECOVERY	55	84	70	50	0 *	0 *
SURR 4(PHL) %RECOVERY	55	67	77	146 *	0 *	0 *
SURR 5(2FP) %RECOVERY	56	67	92	57	0 *	0 *
SURR 6(TBP) %RECOVERY	135 *	163 *	143 *	106	2 *	0 *

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TABLE D.7.9 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD28 DRAFT DO NOT CITE

AREA

LOCATION	COAL PILE	COAL PILE	COAL PILE	B815 SEWER	B815 SEWER	B815 SEWER
TYPE OF LOCATION	RUNOFF	RUNOFF	RUNOFF	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR308019B	AR308020B	AR308031B	AR310013B	AR310024B	AR310035B
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	5	5	5
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)	3470000	3540000	2950000	2640000	2230000	2390000
INTERNAL STD AREA(CRY)	653000	439000	570000	503000	333000	478000
INTERNAL STD AREA(DCB)	1780000	1770000	1320000	618000	1150000	1180000
INTERNAL STD AREA(NPT)	6230000	6920000	3520000	4420000	3780000	4120000
INTERNAL STD AREA(PHN)	2630000	2870000	2790000	2090000	1490000	1660000
INTERNAL STD AREA(PRY)	426000	257000	351000	335000	244000	290000
DILUTION FACTOR	1.5	1.4	1.3	1.25	14	1.5
PERCENT MOISTURE	36.6	31.9	28	23.1	31.3	35.4
ACTUAL(ALLOWED) EXTRACT TIME	14(14 D)	15(14 D)	15(14 D)	15(14 D)	15(14 D)	15(14 D)

TABLE D.7.10 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD29 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			QA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	319 LANDFI	319 LANDFI	MATRIX
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	LANDFILL	LANDFILL	SPIKE
SAMPLE NUMBER	AR1229875	AR1229877	AR1229877	AR1229878	AR805011B	AR805022B	AR805022B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					19	19	19
ACENAPHTHENE		1.156	9.3		320 U	320 U	1900 MS
ACENAPHTHYLENE		1.808	37.5		320 U	320 U	320 U
ANTHRACENE		1.145	41.3		320 U	320 U	320 U
BENZO(A)ANTHRACENE		1.004	5.1		320 U	320 U	320 U
BENZO(A)PYRENE		1.042	4.7		320 U	320 U	320 U
BENZO(B)FLUORANTHENE		1.048	27.3		320 U	320 U	320 U
BENZO(G,H,I)PERYLENE		0.813	4.4		320 U	320 U	320 U
BENZO(K)FLUORANTHENE		1.163	18.4		320 U	320 U	110 J
BENZOIC ACID		0.042	83.1		1600 U	1600 U	1600 U
BENZYL ALCOHOL		0.624	19.7		320 U	320 U	320 U
BIS(2-CHLOROETHOXY)METHANE		0.565	13.3		320 U	320 U	320 U
BIS(2-CHLOROETHYL)ETHER		1.609	0.4		320 U	320 U	320 U
BIS(2-CHLOROISOPROPYL)ETHER		2.678	11.1		320 U	88 J	38 J
BIS(2-ETHYLHEXYL)PHTHALATE		1.081	27.7		320	130 J	170 J
BUTYLBENZYLPHTHALATE		0.828	15.9		320 U	320 U	320 U
CHRYSENE		1.208	24.6		320 U	320 U	320 U
DI-N-BUTYLPHTHALATE		1.12	14.9		320 U	31 J	32 J
DI-N-OCTYL PHTHALATE		2.022	42.5		320 U	320 U	320 U
DIBENZ(A,H)ANTHRACENE		0.358	51.3		320 U	320 U	320 U
DIBENZOFURAN		1.56	15.4		320 U	320 U	320 U
DIETHYLPHTHALATE		1.129	5		320 U	320 U	31 J
DIMETHYLPHTHALATE		1.47	2.8		320 U	320 U	320 U
FLUORANTHENE		0.549	38.5		320 U	110 J	110 J
FLUORENE		1.063	5.7		320 U	320 U	28 J
HEXACHLOROBENZENE		0.571	73.3		320 U	320 U	320 U
HEXACHLOROBUTADIENE		0.293	23.7		320 U	320 U	320 U
HEXACHLOROCYCLOPENTADIENE		0.3[illegible]8	8.2		320 U	320 U	320 U
HEXACHLOROETHANE		0.7[illegible]3	24.5		320 U	320 U	320 U
INDENO(1,2,3-CD)PYRENE		0.52	37.1		320 U	320 U	320 U
ISOPHORONE		0.981	7		320 U	320 U	320 U
N-NITROSO-DI-N-PROPYLAMINE		1.341	24.1		320 U	320 U	2000 MS
N-NITROSODIPHENYLAMINE		0.788	106.9		320 U	320 U	320 U
NAPHTHALENE		1.094	28.5		320 U	320 U	320 U
NITROBENZENE		0.531	16.3		320 U	320 U	320 U
NITROBENZENE-D5		0.496	17				
PENTACHLOROPHENOL		0.121	38.4		1600 U	1600 U	5300 MSE
PHENANTHRENE		1.137	33		320 U	320 U	38 J
PHENOL		1.517	8.5		320 U	320 U	2300 MS
PHENOL-D5		1.543	11.6				

TABLE D.7.10 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD29 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			QA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	319 LANDFI	319 LANDFI	MATRIX
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	LANDFILL	LANDFILL	SPIKE
SAMPLE NUMBER	AR1229875	AR1229877	AR1229877	AR1229878	AR805011B	AR805022B	AR805022B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					19	19	19
PYRENE		2.508	90.4		320 U	44 J	1700 MS
TERPHENYL-D14		1.336	68.2				
1,2-DICHLOROBENZENE		1.529	5.3		320 U	320 U	320 U
1,2,4-TRICHLOROBENZENE		0.436	8.4		320 U	320 U	1800 MS
1,3-DICHLOROBENZENE		1.552	12		320 U	320 U	320 U
1,4-DICHLOROBENZENE		1.538	10.6		320 U	320 U	1400 MS
2-CHLORONAPHTHALENE		1.28	15.3		320 U	320 U	320 U
2-CHLOROPHENOL		1.257	16.7		320 U	320 U	3300 MS
2-FLUOROBIPHENYL		1.412	27				
2-FLUOROPHENOL		1.076	8.7				
2-METHYLNAPHTHALENE		0.034	94.5		320 U	320 U	320 U
2-METHYLPHENOL		1.23	19.7		320 U	320 U	320 U
2-NITROANILINE		0.454	6.3		1600 U	1600 U	1600 U
2-NITROPHENOL		0.249	5.9		320 U	320 U	320 U
2,4-DICHLOROPHENOL		0.36	6.1		320 U	320 U	320 U
2,4-DIMETHYLPHENOL		0.402	10.2		320 U	320 U	320 U
2,4-DINITROPHENOL		0.061	68.6		1600 U	1600 U	1600 U
2,4-DINITROTOLUENE		0.323	33.7		320 U	320 U	1700 MS
2,4,5-TRICHLOROPHENOL		0.318	28.3		1600 U	1600 U	1600 U
2,4,6-TRIBROMOPHENOL		0.267	41				
2,4,6-TRICHLOROPHENOL		0.454	0.1		320 U	320 U	320 U
2,6-DINITROTOLUENE		0.338	7.6		320 U	320 U	320 U
3-NITROANILINE		0.152	64.5		1600 U	1600 U	1600 U
3,3'-DICHLOROBENZIDINE		0.116	1.9		630 U	630 U	630 U
4-BROMOPHENYL-PHENYLETHER		0.42	53.8		320 U	320 U	320 U
4-CHLORO-3-METHYLPHENOL		0.335	12.3		320 U	320 U	3800 MS
4-CHLOROANILINE		0.446	95.3		320 U	320 U	320 U
4-CHLOROPHENYL-PHENYLETHER		0.532	6		320 U	320 U	320 U
4-METHYLPHENOL		1.228	14.4		320 U	320 U	320 U
4-NITROANILINE		0.054	57.5		1600 U	1600 U	1600 U
4-NITROPHENOL		0.032	78.6		1600 U	1600 U	5700 MSE
4,6-DINITRO-2-METHYLPHENOL		0.147	12.8		1600 U	1600 U	1600 U
SURR 1(NBZ) %RECOVERY					42	52	59
SURR 2(FBP) %RECOVERY					54	53	58
SURR 3(TPH) %RECOVERY					40	54	60
SURR 4(PHL) %RECOVERY					38	54	60
SURR 5(2FP) %RECOVERY					38	49	60
SURR 6(TBP) %RECOVERY					59	80	98

TABLE D.7.10 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD29

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			QA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	319 LANDFI	319 LANDFI	MATRIX
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	LANDFILL	LANDFILL	SPIKE
SAMPLE NUMBER	AR1229875	AR1229877	AR1229877	AR1229878	AR805011B	AR805022B	AR805022B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					19	19	19
M/E 51	42						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	63						
M/E 70-1	0.8						
M/E 70-2	1.3						
M/E 127	35						
M/E 197	0						
M/E 198	83						
M/E 199	5.4						
M/E 275	22						
M/E 365	4.3						
M/E 441	16						
M/E 442	100						
M/E 443-1	19						
M/E 443-2	19						
INTERNAL STD AREA(ANT)				5390000	3560000	5000000	4830000
INTERNAL STD AREA(CRY)				821000	654000	1800000 *	1210000
INTERNAL STD AREA(DCB)				2860000	2620000	2490000	2440000
INTERNAL STD AREA(NPT)				1E+07	8760000	9210000	8810000
INTERNAL STD AREA(PHN)				4120000	2100000	4170000	3700000
INTERNAL STD AREA(PRY)				562000	589000	1690000 *	1150000 *
DILUTION FACTOR					1.3	1.4	1
PERCENT MOISTURE					27.6	32.1	32.1
ACTUAL(ALLOWED) EXTRACT TIME					14(14 D)	14(14 D)	14(14 D)

AREA	QA	QA	QA	QA			
LOCATION	MS %	RPD	MATRIX SPIKE	MSD %	SE 317 ARE	SE 317 ARE	SE 317 ARE
TYPE OF LOCATION	RECOVERY		DUPLICATE	RECOVERY	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR805022B	AR805022B	AR805022B	AR805022B	AR804010B	AR804021B	AR804032B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	%	%	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	19	19	19	19	18	18	18
ACENAPHTHENE	58	19	1600 MS	48	32 U	32 U	32 U

TABLE D.7.10 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD29 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	MS %	RPD	MATRIX SPIKE	MSD %	SE 317 ARE	SE 317 ARE	SE 317 ARE
TYPE OF LOCATION	RECOVERY		DUPLICATE	RECOVERY	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR805022B	AR805022B	AR805022B	AR805022B	AR804010B	AR804021B	AR804032B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	%	%	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	19	19	19	19	18	18	18
ACENAPHTHYLENE			320 U		32 U	32 U	32 U
ANTHRACENE			320 U		32 U	32 U	32 U
BENZO(A)ANTHRACENE			320 U		32 U	32 U	32 U
BENZO(A)PYRENE			320 U		32 U	32 U	32 U
BENZO(B)FLUORANTHENE			320 U		32 U	32 U	32 U
BENZO(G,H,I)PERYLENE			320 U		32 U	32 U	32 U
BENZO(K)FLUORANTHENE			320 U		32 U	32 U	32 U
BENZOIC ACID			1600 U		160 U	160 U	160 U
BENZYL ALCOHOL			320 U		32 U	32 U	32 U
BIS(2-CHLOROETHOXY)METHANE			320 U		32 U	32 U	32 U
BIS(2-CHLOROETHYL)ETHER			320 U		32 U	32 U	32 U
BIS(2-CHLOROISOPROPYL)ETHER			320 U		32 U	32 U	32 U
BIS(2-ETHYLHEXYL)PHTHALATE			320 U		32 U	32 U	32 U
BUTYLBENZYLPHTHALATE			320 U		32 U	32 U	32 U
CHRYSENE			320 U		32 U	32 U	32 U
DI-N-BUTYLPHTHALATE			320 U		32 U	32 U	32 U
DI-N-OCTYL PHTHALATE			320 U		32 U	32 U	32 U
DIBENZ(A,H)ANTHRACENE			320 U		32 U	32 U	32 U
DIBENZOFURAN			320 U		32 U	32 U	32 U
DIETHYLPHTHALATE			28 J		32 U	32 U	32 U
DIMETHYLPHTHALATE			320 U		32 U	32 U	32 U
FLUORANTHENE			150 J		32 U	32 U	32 U
FLUORENE			320 U		32 U	32 U	32 U
HEXACHLOROBENZENE			320 U		32 U	32 U	32 U
HEXACHLOROBUTADIENE			320 U		32 U	32 U	32 U
HEXACHLOROCYCLOPENTADIENE			320 U		32 U	32 U	32 U
HEXACHLOROETHANE			320 U		32 U	32 U	32 U
INDENO(1,2,3-CD)PYRENE			320 U		32 U	32 U	32 U
ISOPHORONE			320 U		32 U	32 U	32 U
N-NITROSO-DI-N-PROPYLAMINE	61	30	1500 MS	45	32 U	32 U	32 U
N-NITROSODIPHENYLAMINE			320 U		32 U	32 U	32 U
NAPHTHALENE			320 U		32 U	32 U	32 U
NITROBENZENE			320 U		32 U	32 U	32 U
NITROBENZENE-D5							
PENTACHLOROPHENOL	80	16	4500 MS	68	160 U	160 U	160 U
PHENANTHRENE			60 J		32 U	32 U	32 U
PHENOL	37	21	1900 MS	30	32 U	32 U	32 U
PHENOL-D5							
PYRENE	50	6	1800 MS	53	32 U	32 U	32 U

TABLE D.7.10 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CDZ9 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	MS %	RPD	MATRIX SPIKE	MSD %	SE 317 ARE	SE 317 ARE	SE 317 ARE
TYPE OF LOCATION	RECOVERY		DUPLICATE	RECOVERY	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR805022B	AR805022B	AR805022B	AR805022B	AR804010B	AR804021B	AR804032B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	%	%	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	19	19	19	19	18	18	18
TERPHENYL-D14							
1,2-DICHLOROBENZENE			320 U		32 U	32 U	32 U
1,2,4-TRICHLOROBENZENE	55	27 *	1400 MS	42	32 U	32 U	32 U
1,3-DICHLOROBENZENE			320 U		32 U	32 U	32 U
1,4-DICHLOROBENZENE	42	23	1100 MS	33	32 U	32 U	32 U
2-CHLORONAPHTHALENE			320 U		32 U	32 U	32 U
2-CHLOROPHENOL	45	20	2700 MS	37	32 U	32 U	32 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE			320 U		32 U	32 U	32 U
2-METHYLPHENOL			320 U		32 U	32 U	32 U
2-NITROANILINE			1600 U		160 U	160 U	160 U
2-NITROPHENOL			320 U		32 U	32 U	32 U
2,4-DICHLOROPHENOL			320 U		32 U	32 U	32 U
2,4-DIMETHYLPHENOL			320 U		32 U	32 U	32 U
2,4-DINITROPHENOL			1600 U		160 U	160 U	160 U
2,4-DINITROTOLUENE	52	8	1600 MS	48	32 U	32 U	32 U
2,4,5-TRICHLOROPHENOL			1600 U		160 U	160 U	160 U
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL			320 U		32 U	32 U	32 U
2,6-DINITROTOLUENE			320 U		32 U	32 U	32 U
3-NITROANILINE			1600 U		160 U	160 U	160 U
3,3'-DICHLOROBENZIDINE			630 U		63 U	63 U	63 U
4-BROMOPHENYL-PHENYLETHER			320 U		32 U	32 U	32 U
4-CHLORO-3-METHYLPHENOL	58	15	3300 MS	50	32 U	32 U	32 U
4-CHLOROANILINE			320 U		32 U	32 U	32 U
4-CHLOROPHENYL-PHENYLETHER			320 U		32 U	32 U	32 U
4-METHYLPHENOL			320 U		32 U	32 U	32 U
4-NITROANILINE			1600 U		160 U	160 U	160 U
4-NITROPHENOL	86	0	5700 MSE	86	160 U	160 U	160 U
4,6-DINITRO-2-METHYLPHENOL			1600 U		160 U	160 U	160 U
SURR 1(NBZ) %RECOVERY			45		6 *	6 *	3 *
SURR 2(FBP) %RECOVERY			47		9 *	4 *	4 *
SURR 3(TPH) %RECOVERY			59		9 *	10 *	6 *
SURR 4(PHL) %RECOVERY			43		5 *	5 *	4 *
SURR 5(2FP) %RECOVERY			40		10 *	8 *	5 *
SURR 6(TBP) %RECOVERY			77		7 *	4 *	3 *

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TABLE D.7.10 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD29 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	MS %	RPD	MATRIX SPIKE	MSD %	SE 317 ARE	SE 317 ARE	SE 317 ARE
TYPE OF LOCATION	RECOVERY		DUPLICATE	RECOVERY	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR805022B	AR805022B	AR805022B	AR805022B	AR804010B	AR804021B	AR804032B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	%	%	UG/KG	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	19	19	19	19	18	18	18
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)			4920000		4230000	4650000	4020000
INTERNAL STD AREA(CRY)			892000		437000	390000	580000
INTERNAL STD AREA(DCB)			2510000		2190000	2450000	2490000
INTERNAL STD AREA(NPT)			9180000		7560000	8700000	8240000
INTERNAL STD AREA(PHN)			3840000		2560000	2620000	2610000
INTERNAL STD AREA(PRY)			687000		290000	187000	360000
DILUTION FACTOR			1		14.7	12.7	12.5
PERCENT MOISTURE			32.1		34.7	24.2	23.1
ACTUAL(ALLOWED) EXTRACT TIME			14(14 D)		20(14 D)	20(14 D)	20(14 D)

AREA							
LOCATION	319 LANDFI						
TYPE OF LOCATION	LANDFILL						
SAMPLE NUMBER	AR805033B						
MATRIX	SOIL						
UNITS	UG/KG						
ENV PROBLEM NO	19						
ACENAPHTHENE	32 U						

TABLE D.7.10 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD29

DRAFT DO NOT CITE

AREA

LOCATION	319 LANDFI
TYPE OF LOCATION	LANDFILL
SAMPLE NUMBER	AR805033B
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	19
ACENAPHTHYLENE	32 U
ANTHRACENE	32 U
BENZO(A)ANTHRACENE	32 U
BENZO(A)PYRENE	32 U
BENZO(B)FLUORANTHENE	32 U
BENZO(G,H,I)PERYLENE	32 U
BENZO(K)FLUORANTHENE	32 U
BENZOIC ACID	160 U
BENZYL ALCOHOL	32 U
BIS(2-CHLOROETHOXY)METHANE	32 U
BIS(2-CHLOROETHYL)ETHER	32 U
BIS(2-CHLOROISOPROPYL)ETHER	32 U
BIS(2-ETHYLHEXYL)PHTHALATE	32 U
BUTYLBENZYLPHTHALATE	32 U
CHRYSENE	32 U
DI-N-BUTYLPHTHALATE	32 U
DI-N-OCTYL PHTHALATE	32 U
DIBENZ(A,H)ANTHRACENE	32 U
DIBENZOFURAN	32 U
DIETHYLPHTHALATE	32 U
DIMETHYLPHTHALATE	32 U
FLUORANTHENE	32 U
FLUORENE	32 U
HEXACHLOROBENZENE	32 U
HEXACHLOROBUTADIENE	32 U
HEXACHLOROCYCLOPENTADIENE	32 U
HEXACHLOROETHANE	32 U
INDENO(1,2,3-CD)PYRENE	32 U
ISOPHORONE	32 U
N-NITROSO-DI-N-PROPYLAMINE	32 U
N-NITROSODIPHENYLAMINE	32 U
NAPHTHALENE	32 U
NITROBENZENE	32 U
NITROBENZENE-D5	
PENTACHLOROPHENOL	160 U
PHENANTHRENE	32 U
PHENOL	32 U
PHENOL-D5	
PYRENE	32 U

TABLE D.7.10 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD29

DRAFT DO NOT CITE

AREA

LOCATION	319 LANDFI
TYPE OF LOCATION	LANDFILL
SAMPLE NUMBER	AR805033B
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	19
TERPHENYL-D14	
1,2-DICHLOROBENZENE	32 U
1,2,4-TRICHLOROBENZENE	32 U
1,3-DICHLOROBENZENE	32 U
1,4-DICHLOROBENZENE	32 U
2-CHLORONAPHTHALENE	32 U
2-CHLOROPHENOL	32 U
2-FLUOROBIPHENYL	
2-FLUOROPHENOL	
2-METHYLNAPHTHALENE	32 U
2-METHYLPHENOL	32 U
2-NITROANILINE	160 U
2-NITROPHENOL	32 U
2,4-DICHLOROPHENOL	32 U
2,4-DIMETHYLPHENOL	32 U
2,4-DINITROPHENOL	160 U
2,4-DINITROTOLUENE	32 U
2,4,5-TRICHLOROPHENOL	160 U
2,4,6-TRIBROMOPHENOL	
2,4,6-TRICHLOROPHENOL	32 U
2,6-DINITROTOLUENE	32 U
3-NITROANILINE	160 U
3,3'-DICHLOROBENZIDINE	63 U
4-BROMOPHENYL-PHENYLETHER	32 U
4-CHLORO-3-METHYLPHENOL	32 U
4-CHLOROANILINE	32 U
4-CHLOROPHENYL-PHENYLETHER	32 U
4-METHYLPHENOL	32 U
4-NITROANILINE	160 U
4-NITROPHENOL	160 U
4,6-DINITRO-2-METHYLPHENOL	160 U
SURR 1(NBZ) %RECOVERY	32
SURR 2(FBP) %RECOVERY	33
SURR 3(TPH) %RECOVERY	0 *
SURR 4(PHL) %RECOVERY	70
SURR 5(2FP) %RECOVERY	80
SURR 6(TBP) %RECOVERY	65
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TABLE D.7.10 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD29 DRAFT DO NOT CITE

AREA

LOCATION	319 LANDFI
TYPE OF LOCATION	LANDFILL
SAMPLE NUMBER	AR805033B
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	19
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)	3900000
INTERNAL STD AREA(CRY)	0
INTERNAL STD AREA(DCB)	1160000
INTERNAL STD AREA(NPT)	5970000
INTERNAL STD AREA(PHN)	2970000
INTERNAL STD AREA(PRY)	0
DILUTION FACTOR	12.9
PERCENT MOISTURE	25.7
ACTUAL(ALLOWED) EXTRACT TIME	20(14 D)

TABLE D.7.11 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD30 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	PLOT M	PLOT M	PLOT M
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	SEEP	SEEP	SEEP
SAMPLE NUMBER	AR1230875	AR1230877	AR1230877	AR1230878	AR819017B	AR819028B	AR819039B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					28	28	28
ACENAPHTHENE		1.072	1.4		300 U	150 U	300 U
ACENAPHTHYLENE		1.725	31.2		300 U	150 U	300 U
ANTHRACENE		1.088	34.3		300 U	150 U	300 U
BENZO(A)ANTHRACENE		0.954	9.8		300 U	150 U	300 U
BENZO(A)PYRENE		0.945	13.5		300 U	150 U	300 U
BENZO(B)FLUORANTHENE		0.884	38.6		300 U	150 U	300 U
BENZO(G,H,I)PERYLENE		0.763	2		300 U	150 U	300 U
BENZO(K)FLUORANTHENE		1.22	24.3		300 U	150 U	300 U
BENZOIC ACID		0.041	83.6		1500 U	750 U	1500 U
BENZYL ALCOHOL		0.686	11.7		300 U	150 U	300 U
BIS(2-CHLOROETHOXY)METHANE		0.597	19.6		300 U	150 U	300 U
BIS(2-CHLOROETHYL)ETHER		1.83	13.3		300 U	150 U	300 U
BIS(2-CHLOROISOPROPYL)ETHER		3.205	32.9		300 U	150 U	300 U
BIS(2-ETHYLHEXYL)PHTHALATE		1.02	20.5		120 J	150 U	330
BUTYLBENZYLPHTHALATE		0.749	4.9		260 J	150 U	220 J
CHRYSENE		1.215	25.3		300 U	150 U	300 U
DI-N-BUTYLPHTHALATE		1.059	8.6		29 J	150 U	300 U
DI-N-OCTYL PHTHALATE		1.708	20.4		300 U	150 U	300 U
DIBENZ(A,H)ANTHRACENE		0.632	14		300 U	150 U	300 U
DIBENZOFURAN		1.525	12.8		300 U	150 U	300 U
DIETHYLPHTHALATE		1.04	3.2		770	400	480
DIMETHYLPHTHALATE		1.535	7.3		300 U	150 U	300 U
FLUORANTHENE		0.569	36.2		300 U	150 U	300 U
FLUORENE		0.998	11.4		300 U	150 U	300 U
HEXACHLOROBENZENE		0.743	125.4		300 U	150 U	300 U
HEXACHLOROBUTADIENE		0.348	46.6		300 U	150 U	300 U
HEXACHLOROCYCLOPENTADIENE		0.382	26		300 U	150 U	300 U
HEXACHLOROETHANE		0.782	25.1		300 U	150 U	300 U
INDENO(1,2,3-CD)PYRENE		0.499	39.6		300 U	150 U	300 U
ISOPHORONE		1.053	14.8		300 U	150 U	300 U
N-NITROSO-DI-N-PROPYLAMINE		1.465	35.6		300 U	150 U	300 U
N-NITROSODIPHENYLAMINE		0.767	101.2		300 U	150 U	300 U
NAPHTHALENE		1.083	27.2		300 U	150 U	300 U
NITROBENZENE		0.576	26.2		300 U	150 U	300 U
NITROBENZENE-D5		0.53	25.2				
PENTACHLOROPHENOL		0.142	27.4		1500 U	750 U	1500 U
PHENANTHRENE		1.051	22.9		300 U	150 U	300 U
PHENOL		1.694	2.2		300 U	150 U	300 U
PHENOL-D5		1.527	10.5				

TABLE D.7.11 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD30 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	PLOT M	PLOT M	PLOT M
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	SEEP	SEEP	SEEP
SAMPLE NUMBER	AR1230875	AR1230877	AR1230877	AR1230878	AR819017B	AR819028B	AR819039B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					28	28	28
PYRENE		2.422	83.8		300 U	150 U	300 U
TERPHENYL-D14		1.484	86.9				
1,2-DICHLOROBENZENE		1.541	6.1		300 U	150 U	300 U
1,2,4-TRICHLOROBENZENE		0.487	21.2		300 U	150 U	300 U
1,3-DICHLOROBENZENE		1.537	10.9		300 U	150 U	300 U
1,4-DICHLOROBENZENE		1.514	8.9		300 U	150 U	300 U
2-CHLORONAPHTHALENE		1.33	19.8		300 U	150 U	300 U
2-CHLOROPHENOL		1.222	13.5		300 U	150 U	300 U
2-FLUOROBIPHENYL		1.428	28.4				
2-FLUOROPHENOL		1.011	2.1				
2-METHYLNAPHTHALENE		0.032	94.7		300 U	150 U	300 U
2-METHYLPHENOL		1.26	22.6		300 U	150 U	300 U
2-NITROANILINE		0.411	3.9		1500 U	750 U	1500 U
2-NITROPHENOL		0.266	13.3		300 U	150 U	300 U
2,4-DICHLOROPHENOL		0.357	5.3		300 U	150 U	300 U
2,4-DIMETHYLPHENOL		0.475	30.1		300 U	150 U	300 U
2,4-DINITROPHENOL		0.067	65.4		1500 U	750 U	1500 U
2,4-DINITROTOLUENE		0.303	37.7		300 U	150 U	300 U
2,4,5-TRICHLOROPHENOL		0.371	16.4		1500 U	750 U	1500 U
2,4,6-TRIBROMOPHENOL		0.378	100				
2,4,6-TRICHLOROPHENOL		0.48	5.6		300 U	150 U	300 U
2,6-DINITROTOLUENE		0.34	7.2		300 U	150 U	300 U
3-NITROANILINE		0.111	74.2		1500 U	750 U	1500 U
3,3'-DICHLOROBENZIDINE		0.164	39.5		600 U	300 U	600 U
4-BROMOPHENYL-PHENYLETHER		0.508	86		300 U	150 U	300 U
4-CHLORO-3-METHYLPHENOL		0.348	8.8		300 U	150 U	300 U
4-CHLOROANILINE		0.456	99.5		300 U	150 U	300 U
4-CHLOROPHENYL-PHENYLETHER		0.53	6.4		300 U	150 U	300 U
4-METHYLPHENOL		1.316	22.6		300 U	150 U	300 U
4-NITROANILINE		0.047	63.5		1500 U	750 U	1500 U
4-NITROPHENOL		0.007	95.2		1500 U	750 U	1500 U
4,6-DINITRO-2-METHYLPHENOL		0.146	12.9		1500 U	750 U	1500 U
SURR 1(NBZ) %RECOVERY					39	31	37
SURR 2(FBP) %RECOVERY					37	34	37
SURR 3(TPH) %RECOVERY					34	27	35
SURR 4(PHL) %RECOVERY					32	39	32
SURR 5(2FP) %RECOVERY					45	42	47
SURR 6(TBP) %RECOVERY					30	28	30

TABLE D.7.11 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD30 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	PLOT M	PLOT M	PLOT M
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	SEEP	SEEP	SEEP
SAMPLE NUMBER	AR1230875	AR1230877	AR1230877	AR1230878	AR819017B	AR819028B	AR819039B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					28	28	28
M/E 51	40						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	52						
M/E 70-1	0.6						
M/E 70-2	1.1						
M/E 127	32						
M/E 197	0						
M/E 198	100						
M/E 199	6.6						
M/E 275	23						
M/E 365	2.2						
M/E 441	12						
M/E 442	72						
M/E 443-1	16						
M/E 443-2	22						
INTERNAL STD AREA(ANT)				5250000	5010000	4670000	4730000
INTERNAL STD AREA(CRY)				839000	1400000	675000	774000
INTERNAL STD AREA(DCB)				2660000	2610000	2490000	2330000
INTERNAL STD AREA(NPT)				9200000	1E+07	9680000	9230000
INTERNAL STD AREA(PHN)				3960000	4730000	3120000	3460000
INTERNAL STD AREA(PRY)				633000	989000	510000	519000
DILUTION FACTOR					1.5	1.4	1.5
PERCENT MOISTURE					31.5	29.3	30.9
ACTUAL(ALLOWED) EXTRACT TIME					19(14 D)	19(14 D)	19(14 D)

AREA		QA	QA	QA	QA	QA
LOCATION	570 WTP	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %
TYPE OF LOCATION	LAGOON	SPIKE	RECOVERY		DUPLICATE	RECOVERY
SAMPLE NUMBER	AR806012B	AR806012B	AR806012B	AR806012B	AR806012B	AR806012B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	%	%	UG/KG	%
ENV PROBLEM NO	20	20	20	20	20	20
ACENAPHTHENE	320 U	1500 MS	45	7	1400 MS	42

TABLE D.7.11 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD30 DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA
LOCATION	570 WTP	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %
TYPE OF LOCATION	LAGOON	SPIKE	RECOVERY		DUPLICATE	RECOVERY
SAMPLE NUMBER	AR806012B	AR806012B	AR806012B	AR806012B	AR806012B	AR806012B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	%	%	UG/KG	%
ENV PROBLEM NO	20	20	20	20	20	20
ACENAPHTHYLENE	320 U	320 U			160 U	
ANTHRACENE	320 U	320 U			160 U	
BENZO(A)ANTHRACENE	320 U	320 U			160 U	
BENZO(A)PYRENE	320 U	320 U			160 U	
BENZO(B)FLUORANTHENE	320 U	320 U			160 U	
BENZO(G,H,I)PERYLENE	320 U	320 U			160 U	
BENZO(K)FLUORANTHENE	320 U	320 U			160 U	
BENZOIC ACID	1600 U	1600 U			790 U	
BENZYL ALCOHOL	320 U	320 U			160 U	
BIS(2-CHLOROETHOXY)METHANE	320 U	320 U			160 U	
BIS(2-CHLOROETHYL)ETHER	320 U	320 U			160 U	
BIS(2-CHLOROISOPROPYL)ETHER	320 U	320 U			160 U	
BIS(2-ETHYLHEXYL)PHTHALATE	320 U	320 U			160 U	
BUTYLBENZYLPHTHALATE	320 U	320 U			160 U	
CHRYSENE	320 U	320 U			160 U	
DI-N-BUTYLPHTHALATE	320 U	320 U			160 U	
DI-N-OCTYL PHTHALATE	320 U	320 U			160 U	
DIBENZ(A,H)ANTHRACENE	320 U	320 U			160 U	
DIBENZOFURAN	320 U	320 U			160 U	
DIETHYLPHTHALATE	320 U	25 J			160 U	
DIMETHYLPHTHALATE	320 U	320 U			160 U	
FLUORANTHENE	320 U	320 U			160 U	
FLUORENE	320 U	320 U			160 U	
HEXACHLOROBENZENE	320 U	320 U			160 U	
HEXACHLOROBUTADIENE	320 U	320 U			160 U	
HEXACHLOROCYCLOPENTADIENE	320 U	320 U			160 U	
HEXACHLOROETHANE	320 U	320 U			160 U	
INDENO(1,2,3-CD)PYRENE	320 U	320 U			160 U	
ISOPHORONE	320 U	320 U			160 U	
N-NITROSO-DI-N-PROPYLAMINE	320 U	1200 MS	36 *	22	970 MS	29 *
N-NITROSODIPHENYLAMINE	320 U	320 U			160 U	
NAPHTHALENE	320 U	320 U			160 U	
NITROBENZENE	320 U	320 U			160 U	
NITROBENZENE-D5						
PENTACHLOROPHENOL	1600 U	4200 MS	64	29	3200 MS	48
PHENANTHRENE	320 U	320 U			160 U	
PHENOL	320 U	1900 MS	30	11	1700 MS	27
PHENOL-D5						
PYRENE	320 U	1400 MS	42	0	1400 MS	42

TABLE D.7.11 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD30 DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA
LOCATION	570 WTP	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %
TYPE OF LOCATION	LAGOON	SPIKE	RECOVERY		DUPLICATE	RECOVERY
SAMPLE NUMBER	AR806012B	AR806012B	AR806012B	AR806012B	AR806012B	AR806012B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	%	%	UG/KG	%
ENV PROBLEM NO	20	20	20	20	20	20
TERPHENYL-D14						
1,2-DICHLOROBENZENE	320 U	320 U			160 U	
1,2,4-TRICHLOROBENZENE	320 U	1000 MS	30 *	10	1100 MS	33 *
1,3-DICHLOROBENZENE	320 U	320 U			160 U	
1,4-DICHLOROBENZENE	320 U	920 MS	28	11	840 MS	25 *
2-CHLORONAPHTHALENE	320 U	320 U			160 U	
2-CHLOROPHENOL	320 U	2300 MS	32	6	2200 MS	30
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	320 U	320 U			160 U	
2-METHYLPHENOL	320 U	320 U			160 U	
2-NITROANILINE	1600 U	1600 U			790 U	
2-NITROPHENOL	320 U	320 U			160 U	
2,4-DICHLOROPHENOL	320 U	320 U			160 U	
2,4-DIMETHYLPHENOL	320 U	320 U			160 U	
2,4-DINITROPHENOL	1600 U	1600 U			790 U	
2,4-DINITROTOLUENE	320 U	1100 MS	33	10	990 MS	30
2,4,5-TRICHLOROPHENOL	1600 U	1600 U			790 U	
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	320 U	320 U			160 U	
2,6-DINITROTOLUENE	320 U	320 U			160 U	
3-NITROANILINE	1600 U	1600 U			790 U	
3,3'-DICHLOROBENZIDINE	630 U	630 U			320 U	
4-BROMOPHENYL-PHENYLETHER	320 U	320 U			160 U	
4-CHLORO-3-METHYLPHENOL	320 U	2700 MS	41	16	2300 MS	35
4-CHLOROANILINE	320 U	320 U			160 U	
4-CHLOROPHENYL-PHENYLETHER	320 U	320 U			160 U	
4-METHYLPHENOL	320 U	320 U			160 U	
4-NITROANILINE	1600 U	1600 U			790 U	
4-NITROPHENOL	1600 U	3600 MS	55	122 *	15000 MSE	227 *
4,6-DINITRO-2-METHYLPHENOL	1600 U	1600 U			790 U	
SURR 1(NBZ) %RECOVERY	28	35			37	
SURR 2(FBP) %RECOVERY	40	43			45	
SURR 3(TPH) %RECOVERY	57	47			42	
SURR 4(PHL) %RECOVERY	34	41			37	
SURR 5(2FP) %RECOVERY	34	40			12 *	
SURR 6(TBP) %RECOVERY	55	58			43	

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TABLE D.7.11 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD30 DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA
LOCATION	570 WTP	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %
TYPE OF LOCATION	LAGOON	SPIKE	RECOVERY		DUPLICATE	RECOVERY
SAMPLE NUMBER	AR806012B	AR806012B	AR806012B	AR806012B	AR806012B	AR806012B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	%	%	UG/KG	%
ENV PROBLEM NO	20	20	20	20	20	20
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)	5830000	5090000			7220000	
INTERNAL STD AREA(CRY)	575000	1130000			1240000	
INTERNAL STD AREA(DCB)	3040000	2570000			4120000	
INTERNAL STD AREA(NPT)	1E+07	9280000			1E+07	
INTERNAL STD AREA(PHN)	3820000	4100000			5020000	
INTERNAL STD AREA(PRY)	367000	864000			1090000	
DILUTION FACTOR	1.2	1			1	
PERCENT MOISTURE	17.4	17.4			17.4	
ACTUAL(ALLOWED) EXTRACT TIME	10(14 D)	10(14 D)			10(14 D)	

TABLE D.7.12 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD31 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	ISTD RET TIM	TUNED	CONTINUING	CONTINUING	570 WTP	570 WTP	570 WTP
TYPE OF LOCATION	SHIFT	CALIBRATION	CALIBRATION	CAL %D	LAGOON	LAGOON	LAGOON
SAMPLE NUMBER	AR1231878	AR1231875	AR1231877	AR1231877	AR806023B	AR806034B	AR806045B
MATRIX					SOIL	SOIL	SOIL
UNITS	AREA	%	RRF	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					20	20	20
ACENAPHTHENE			1.155	9.1	330 U	3300 U	3300 U
ACENAPHTHYLENE			1.838	39.8	330 U	3300 U	3300 U
ANTHRACENE			1.149	41.8	330 U	3300 U	3300 U
BENZO(A)ANTHRACENE			1.041	1.5	330 U	3300 U	3300 U
BENZO(A)PYRENE			0.999	8.6	330 U	3300 U	3300 U
BENZO(B)FLUORANTHENE			0.924	35.8	330 U	3300 U	3300 U
BENZO(G,H,I)PERYLENE			0.484	37.9	330 U	3300 U	3300 U
BENZO(K)FLUORANTHENE			1.448	47.5	330 U	3300 U	3300 U
BENZOIC ACID			0.152	38.9	1700 U	17000 U	17000 U
BENZYL ALCOHOL			0.704	9.4	330 U	3300 U	3300 U
BIS(2-CHLOROETHOXY)METHANE			0.607	21.5	330 U	3300 U	3300 U
BIS(2-CHLOROETHYL)ETHER			2.152	33.2	330 U	3300 U	3300 U
BIS(2-CHLOROISOPROPYL)ETHER			2.72	12.8	330 U	3300 U	3300 U
BIS(2-ETHYLHEXYL)PHTHALATE			1.016	20	330 U	3300 U	3300 U
BUTYLBENZYLPHTHALATE			0.763	6.9	330 U	3300 U	3300 U
CHRYSENE			1.342	38.4	330 U	3300 U	3300 U
DI-N-BUTYLPHTHALATE			1.17	20	330 U	3300 U	3300 U
DI-N-OCTYL PHTHALATE			1.993	40.5	330 U	3300 U	3300 U
DIBENZ(A,H)ANTHRACENE			0.837	13.8	330 U	3300 U	3300 U
DIBENZOFURAN			1.676	24	330 U	3300 U	3300 U
DIETHYLPHTHALATE			1.194	11.1	330 U	3300 U	3300 U
DIMETHYLPHTHALATE			1.56	9.1	330 U	3300 U	3300 U
FLUORANTHENE			0.645	27.7	330 U	3300 U	3300 U
FLUORENE			1.077	4.5	330 U	3300 U	3300 U
HEXACHLOROBENZENE			0.666	102.2	330 U	3300 U	3300 U
HEXACHLOROBUTADIENE			0.334	40.9	330 U	3300 U	3300 U
HEXACHLOROCYCLOPENTADIENE			0.364	20	330 U	3300 U	3300 U
HEXACHLOROETHANE			0.826	32.1	330 U	3300 U	3300 U
INDENO(1,2,3-CD)PYRENE			0.367	55.6	330 U	3300 U	3300 U
ISOPHORONE			1.032	12.5	330 U	3300 U	3300 U
N-NITROSO-DI-N-PROPYLAMINE			1.366	26.4	330 U	3300 U	3300 U
N-NITROSODIPHENYLAMINE			0.779	104.5	330 U	3300 U	3300 U
NAPHTHALENE			1.164	36.7	330 U	3300 U	3300 U
NITROBENZENE			0.535	17.2	330 U	3300 U	3300 U
NITROBENZENE-D5			0.527	24.5			
PENTACHLOROPHENOL			0.157	20.1	1700 U	17000 U	17000 U
PHENANTHRENE			1.116	30.5	330 U	3300 U	3300 U
PHENOL			1.793	8.2	330 U	3300 U	3300 U
PHENOL-D5			1.595	15.3			

TABLE D.7.12 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD31

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	ISTD RET TIM	TUNED	CONTINUING	CONTINUING	570 WTP	570 WTP	570 WTP
TYPE OF LOCATION	SHIFT	CALIBRATION	CALIBRATION	CAL %D	LAGOON	LAGOON	LAGOON
SAMPLE NUMBER	AR1231878	AR1231875	AR1231877	AR1231877	AR806023B	AR806034B	AR806045B
MATRIX					SOIL	SOIL	SOIL
UNITS	AREA	%	RRF	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					20	20	20
PYRENE			2.037	54.6	330 U	3300 U	3300 U
TERPHENYL-D14			1.246	56.8			
1,2-DICHLOROBENZENE			1.66	14.3	330 U	3300 U	3300 U
1,2,4-TRICHLOROBENZENE			0.488	21.4	330 U	3300 U	3300 U
1,3-DICHLOROBENZENE			1.606	15.9	330 U	3300 U	3300 U
1,4-DICHLOROBENZENE			1.619	16.5	330 U	3300 U	3300 U
2-CHLORONAPHTHALENE			1.446	30.2	330 U	3300 U	3300 U
2-CHLOROPHENOL			1.29	19.9	330 U	3300 U	3300 U
2-FLUOROBIPHENYL			1.6	43.8			
2-FLUOROPHENOL			1.015	2.5			
2-METHYLNAPHTHALENE			0.032	94.8	330 U	3300 U	3300 U
2-METHYLPHENOL			0.854	16.9	330 U	3300 U	3300 U
2-NITROANILINE			0.445	4.1	1700 U	17000 U	17000 U
2-NITROPHENOL			0.278	18.1	330 U	3300 U	3300 U
2,4-DICHLOROPHENOL			0.396	16.9	330 U	3300 U	3300 U
2,4-DIMETHYLPHENOL			0.457	25.3	330 U	3300 U	3300 U
2,4-DINITROPHENOL			0.083	57	1700 U	17000 U	17000 U
2,4-DINITROTOLUENE			0.343	29.6	330 U	3300 U	3300 U
2,4,5-TRICHLOROPHENOL			0.418	5.9	1700 U	17000 U	17000 U
2,4,6-TRIBROMOPHENOL			0.32	69.4			
2,4,6-TRICHLOROPHENOL			0.499	9.9	330 U	3300 U	3300 U
2,6-DINITROTOLUENE			0.359	2	330 U	3300 U	3300 U
3-NITROANILINE			0.149	65.2	1700 U	17000 U	17000 U
3,3'-DICHLOROBENZIDINE			0.125	5.7	670 U	6700 U	6700 U
4-BROMOPHENYL-PHENYLETHER			0.438	60.4	330 U	3300 U	3300 U
4-CHLORO-3-METHYLPHENOL			0.337	11.8	330 U	3300 U	3300 U
4-CHLOROANILINE			0.471	106.1	330 U	3300 U	3300 U
4-CHLOROPHENYL-PHENYLETHER			0.553	2.2	330 U	3300 U	3300 U
4-METHYLPHENOL			1.327	23.6	330 U	3300 U	3300 U
4-NITROANILINE			0.03	76.3	1700 U	17000 U	17000 U
4-NITROPHENOL			0.008	94.7	1700 U	17000 U	17000 U
4,6-DINITRO-2-METHYLPHENOL			0.144	14.3	1700 U	17000 U	17000 U
SURR 1(NBZ) %RECOVERY					27	4 *	5 *
SURR 2(FBP) %RECOVERY					29 *	6 *	7 *
SURR 3(TPH) %RECOVERY					41	5 *	6 *
SURR 4(PHL) %RECOVERY					25	4 *	4 *
SURR 5(2FP) %RECOVERY					37	8 *	8 *
SURR 6(TBP) %RECOVERY					45	6 *	7 *

TABLE D.7.12 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD31 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	ISTD RET TIM	TUNED	CONTINUING	CONTINUING	570 WTP	570 WTP	570 WTP
TYPE OF LOCATION	SHIFT	CALIBRATION	CALIBRATION	CAL %D	LAGOON	LAGOON	LAGOON
SAMPLE NUMBER	AR1231878	AR1231875	AR1231877	AR1231877	AR806023B	AR806034B	AR806045B
MATRIX					SOIL	SOIL	SOIL
UNITS	AREA	%	RRF	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					20	20	20
M/E 51		45					
M/E 68-1		0					
M/E 68-2		0					
M/E 69		65					
M/E 70-1		0.5					
M/E 70-2		0.8					
M/E 127		37					
M/E 197		0					
M/E 198		100					
M/E 199		7.2					
M/E 275		23					
M/E 365		3.5					
M/E 441		13					
M/E 442		88					
M/E 443-1		19					
M/E 443-2		22					
INTERNAL STD AREA(ANT)	3880000				5210000	3500000	3160000
INTERNAL STD AREA(CRY)	888000				1560000	850000	618000
INTERNAL STD AREA(DCB)	2170000				2730000	2050000	1910000
INTERNAL STD AREA(NPT)	7380000				9770000	6190000	6150000
INTERNAL STD AREA(PHN)	3040000				4460000	2530000	1790000
INTERNAL STD AREA(PRY)	647000				1520000	660000	468000
DILUTION FACTOR					1.3	12.1	12.2
PERCENT MOISTURE					26.4	20.8	21.1
ACTUAL(ALLOWED) EXTRACT TIME					10(14 D)	10(14 D)	10(14 D)

AREA				QA			
LOCATION	570 WTP	570 WTP	570 WTP	METHOD	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	LAGOON	LAGOON	LAGOON	BLANK	D&D	D&D	D&D
SAMPLE NUMBER	AR806056B	AR806078B	AR806089B	SBKCD31	AR810018B	AR810029B	AR810030B
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	20	20	20		23	23	23
ACENAPHTHENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U

TABLE D.7.12 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD31

DRAFT DO NOT CITE

AREA				QA			
LOCATION	570 WTP	570 WTP	570 WTP	METHOD	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	LAGOON	LAGOON	LAGOON	BLANK	D&D	D&D	D&D
SAMPLE NUMBER	AR806056B	AR806078B	AR806089B	SBKCD31	AR810018B	AR810029B	AR810030B
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	20	20	20		23	23	23
ACENAPHTHYLENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
ANTHRACENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
BENZO(A)ANTHRACENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
BENZO(A)PYRENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
BENZO(B)FLUORANTHENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
BENZO(G,H,I)PERYLENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
BENZO(K)FLUORANTHENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
BENZOIC ACID	17000 U	17000 U	1700 U	1700 U	1700 U	1700 U	17000 U
BENZYL ALCOHOL	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
BIS(2-CHLOROETHOXY)METHANE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
BIS(2-CHLOROETHYL)ETHER	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
BIS(2-CHLOROISOPROPYL)ETHER	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
BIS(2-ETHYLHEXYL)PHTHALATE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
BUTYLBENZYLPHTHALATE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
CHRYSENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
DI-N-BUTYLPHTHALATE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
DI-N-OCTYL PHTHALATE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
DIBENZ(A,H)ANTHRACENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
DIBENZOFURAN	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
DIETHYLPHTHALATE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
DIMETHYLPHTHALATE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
FLUORANTHENE	3300 U	3300 U	330 U	330 U	330 U	66 J	3300 U
FLUORENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
HEXACHLOROBENZENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
HEXACHLOROBUTADIENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
HEXACHLOROCYCLOPENTADIENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
HEXACHLOROETHANE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
INDENO(1,2,3-CD)PYRENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
ISOPHORONE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
N-NITROSO-DI-N-PROPYLAMINE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
N-NITROSODIPHENYLAMINE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
NAPHTHALENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
NITROBENZENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
NITROBENZENE-D5							
PENTACHLOROPHENOL	17000 U	17000 U	1700 U	1700 U	1700 U	1700 U	17000 U
PHENANTHRENE	3300 U	3300 U	330 U	330 U	330 U	37 J	3300 U
PHENOL	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
PHENOL-D5							
PYRENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U

TABLE D.7.12 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD31 DRAFT DO NOT CITE

AREA				QA			
LOCATION	570 WTP	570 WTP	570 WTP	METHOD	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	LAGOON	LAGOON	LAGOON	BLANK	D&D	D&D	D&D
SAMPLE NUMBER	AR806056B	AR806078B	AR806089B	SBKCD31	AR810018B	AR810029B	AR810030B
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	20	20	20		23	23	23
TERPHENYL-D14							
1,2-DICHLOROBENZENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
1,2,4-TRICHLOROBENZENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
1,3-DICHLOROBENZENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
1,4-DICHLOROBENZENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
2-CHLORONAPHTHALENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
2-CHLOROPHENOL	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
2-METHYLPHENOL	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
2-NITROANILINE	17000 U	17000 U	1700 U	1700 U	1700 U	1700 U	17000 U
2-NITROPHENOL	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
2,4-DICHLOROPHENOL	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
2,4-DIMETHYLPHENOL	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
2,4-DINITROPHENOL	17000 U	17000 U	1700 U	1700 U	1700 U	1700 U	17000 U
2,4-DINITROTOLUENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
2,4,5-TRICHLOROPHENOL	17000 U	17000 U	1700 U	1700 U	1700 U	1700 U	17000 U
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
2,6-DINITROTOLUENE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
3-NITROANILINE	17000 U	17000 U	1700 U	1700 U	1700 U	1700 U	17000 U
3,3'-DICHLOROBENZIDINE	6700 U	6700 U	670 U	670 U	670 U	670 U	6700 U
4-BROMOPHENYL-PHENYLETHER	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
4-CHLORO-3-METHYLPHENOL	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
4-CHLOROANILINE	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
4-CHLOROPHENYL-PHENYLETHER	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
4-METHYLPHENOL	3300 U	3300 U	330 U	330 U	330 U	330 U	3300 U
4-NITROANILINE	17000 U	17000 U	1700 U	1700 U	1700 U	1700 U	17000 U
4-NITROPHENOL	17000 U	17000 U	1700 U	1700 U	1700 U	1700 U	17000 U
4,6-DINITRO-2-METHYLPHENOL	17000 U	17000 U	1700 U	1700 U	1700 U	1700 U	17000 U
SURR 1(NBZ) %RECOVERY	2 *	4 *	4 *	42	17 *	12 *	4 *
SURR 2(FBP) %RECOVERY	3 *	6 *	4 *	41	17 *	14 *	6 *
SURR 3(TPH) %RECOVERY	2 *	7 *	9 *	50	16 *	12 *	10 *
SURR 4(PHL) %RECOVERY	3 *	3 *	3 *	78	33	28	4 *
SURR 5(2FP) %RECOVERY	4 *	7 *	7 *	23 *	43	33	7 *
SURR 6(TBP) %RECOVERY	2 *	3 *	4 *	45	17 *	29	5 *

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TABLE D.7.12 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: CD31

DRAFT DO NOT CITE

AREA				QA			
LOCATION	570 WTP	570 WTP	570 WTP	METHOD	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	LAGOON	LAGOON	LAGOON	BLANK	D&D	D&D	D&D
SAMPLE NUMBER	AR806056B	AR806078B	AR806089B	SBKCD31	AR810018B	AR810029B	AR810030B
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	20	20	20		23	23	23
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)	7180000	3600000	3330000	3860000	5110000	4410000	3780000
INTERNAL STD AREA(CRY)	2230000	775000	503000	572000	809000	1720000	417000
INTERNAL STD AREA(DCB)	3730000	2450000	2200000	1290000	2720000	2400000	2160000
INTERNAL STD AREA(NPT)	1E+07	8240000	7760000	6780000	1E+07	8060000	7180000
INTERNAL STD AREA(PHN)	6110000	2140000	1850000	2150000	3830000	3720000	2480000
INTERNAL STD AREA(PRY)	1900000	547000	120000	306000	516000	1610000	236000
DILUTION FACTOR	11.4	12.9	1.5	1	1.2	1.2	11.9
PERCENT MOISTURE	15.6	25.8	34.8		16	17.1	15
ACTUAL(ALLOWED) EXTRACT TIME	10(14 D)	10(14 D)	10(14 D)		10(14 D)	10(14 D)	10(14 D)

TABLE D.7.13 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C101 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	D&D	D&D	D&D
SAMPLE NUMBER	AR0101885	AR0101887	AR0101887	AR0101888	AR810041B	AR810052B	AR810063B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					23	23	23
ACENAPHTHENE		1.105	4.4		3300 U	3300 U	3300 U
ACENAPHTHYLENE		1.829	39.1		3300 U	3300 U	3300 U
ANTHRACENE		1.083	33.6		3300 U	3300 U	3300 U
BENZO(A)ANTHRACENE		1.067	0.9		3300 U	3300 U	3300 U
BENZO(A)PYRENE		1.047	4.2		3300 U	3300 U	3300 U
BENZO(B)FLUORANTHENE		1.045	27.4		3300 U	3300 U	3300 U
BENZO(G,H,I)PERYLENE		0.828	6.3		3300 U	3300 U	3300 U
BENZO(K)FLUORANTHENE		1.086	10.6		3300 U	3300 U	3300 U
BENZOIC ACID		0.061	75.6		17000 U	17000 U	17000 U
BENZYL ALCOHOL		0.543	30.1		3300 U	3300 U	3300 U
BIS(2-CHLOROETHOXY)METHANE		0.561	12.5		3300 U	3300 U	3300 U
BIS(2-CHLOROETHYL)ETHER		1.685	4.3		3300 U	3300 U	3300 U
BIS(2-CHLOROISOPROPYL)ETHER		2.352	2.4		3300 U	3300 U	3300 U
BIS(2-ETHYLHEXYL)PHTHALATE		1.009	19.2		3300 U	3300 U	3300 U
BUTYLBENZYLPHTHALATE		0.711	0.5		3300 U	3300 U	3300 U
CHRYSENE		1.212	25		3300 U	3300 U	3300 U
DI-N-BUTYLPHTHALATE		1.273	30.6		3300 U	3300 U	3300 U
DI-N-OCTYL PHTHALATE		1.921	35.4		3300 U	3300 U	3300 U
DIBENZ(A,H)ANTHRACENE		0.64	12.9		3300 U	3300 U	3300 U
DIBENZOFURAN		1.555	15		3300 U	3300 U	3300 U
DIETHYLPHTHALATE		1.155	7.4		3300 U	3300 U	3300 U
DIMETHYLPHTHALATE		1.451	1.5		3300 U	3300 U	3300 U
FLUORANTHENE		0.876	1.8		3300 U	3300 U	3300 U
FLUORENE		1.061	5.9		3300 U	3300 U	3300 U
HEXACHLOROBENZENE		0.597	81		3300 U	3300 U	3300 U
HEXACHLOROBUTADIENE		0.336	41.8		3300 U	3300 U	3300 U
HEXACHLOROCYCLOPENTADIENE		0.354	16.8		3300 U	3300 U	3300 U
HEXACHLOROETHANE		0.703	12.5		3300 U	3300 U	3300 U
INDENO(1,2,3-CD)PYRENE		0.882	6.7		3300 U	3300 U	3300 U
ISOPHORONE		0.937	2.3		3300 U	3300 U	3300 U
N-NITROSO-DI-N-PROPYLAMINE		1.186	9.7		3300 U	3300 U	3300 U
N-NITROSODIPHENYLAMINE		0.658	72.7		3300 U	3300 U	3300 U
NAPHTHALENE		1.135	33.3		3300 U	3300 U	3300 U
NITROBENZENE		0.517	13.2		3300 U	3300 U	3300 U
NITROBENZENE-D5		0.469	10.6				
PENTACHLOROPHENOL		0.205	4.7		17000 U	17000 U	17000 U
PHENANTHRENE		1.079	26.3		3300 U	3300 U	3300 U
PHENOL		1.641	1		3300 U	3300 U	3300 U
PHENOL-D5		1.354	2				

TABLE D.7.13 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C101

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	D&D	D&D	D&D
SAMPLE NUMBER	AR0101885	AR0101887	AR0101887	AR0101888	AR810041B	AR810052B	AR810063B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					23	23	23
PYRENE		1.766	34.1		3300 U	3300 U	3300 U
TERPHENYL-D14		1.011	27.3				
1,2-DICHLOROBENZENE		1.497	3.1		3300 U	3300 U	3300 U
1,2,4-TRICHLOROBENZENE		0.463	15.3		3300 U	3300 U	3300 U
1,3-DICHLOROBENZENE		1.519	9.6		3300 U	3300 U	3300 U
1,4-DICHLOROBENZENE		1.481	6.5		3300 U	3300 U	3300 U
2-CHLORONAPHTHALENE		1.333	20.1		3300 U	3300 U	3300 U
2-CHLOROPHENOL		1.224	13.7		3300 U	3300 U	3300 U
2-FLUOROBIPHENYL		1.495	34.4				
2-FLUOROPHENOL		0.846	14.6				
2-METHYLNAPHTHALENE		0.027	95.6		3300 U	3300 U	3300 U
2-METHYLPHENOL		1.051	2.3		3300 U	3300 U	3300 U
2-NITROANILINE		0.359	15.9		17000 U	17000 U	17000 U
2-NITROPHENOL		0.227	3.7		3300 U	3300 U	3300 U
2,4-DICHLOROPHENOL		0.364	7.4		3300 U	3300 U	3300 U
2,4-DIMETHYLPHENOL		0.434	18.8		3300 U	3300 U	3300 U
2,4-DINITROPHENOL		0.08	58.8		17000 U	17000 U	17000 U
2,4-DINITROTOLUENE		0.305	37.4		3300 U	3300 U	3300 U
2,4,5-TRICHLOROPHENOL		0.361	18.6		17000 U	17000 U	17000 U
2,4,6-TRIBROMOPHENOL		0.295	56				
2,4,6-TRICHLOROPHENOL		0.442	2.6		3300 U	3300 U	3300 U
2,6-DINITROTOLUENE		0.311	15		3300 U	3300 U	3300 U
3-NITROANILINE		0.108	74.6		17000 U	17000 U	17000 U
3,3'-DICHLOROBENZIDINE		0.189	60.1		6700 U	6700 U	6700 U
4-BROMOPHENYL-PHENYLETHER		0.394	44.5		3300 U	3300 U	3300 U
4-CHLORO-3-METHYLPHENOL		0.306	20		3300 U	3300 U	3300 U
4-CHLOROANILINE		0.341	49.4		3300 U	3300 U	3300 U
4-CHLOROPHENYL-PHENYLETHER		0.551	2.6		3300 U	3300 U	3300 U
4-METHYLPHENOL		1.064	0.9		3300 U	3300 U	3300 U
4-NITROANILINE		0.088	31.6		17000 U	17000 U	17000 U
4-NITROPHENOL		0.009	93.7		17000 U	17000 U	17000 U
4,6-DINITRO-2-METHYLPHENOL		0.141	16.1		17000 U	17000 U	17000 U
SURR 1(NBZ) %RECOVERY					6 *	5 *	5 *
SURR 2(FBP) %RECOVERY					7 *	4 *	7 *
SURR 3(TPH) %RECOVERY					11 *	12 *	13 *
SURR 4(PHL) %RECOVERY					6 *	4 *	5 *
SURR 5(2FP) %RECOVERY					9 *	9 *	9 *
SURR 6(TBP) %RECOVERY					4 *	6 *	6 *

TABLE D.7.13 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C101 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	D&D	D&D	D&D
SAMPLE NUMBER	AR0101885	AR0101887	AR0101887	AR0101888	AR810041B	AR810052B	AR810063B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					23	23	23
M/E 51	40						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	60						
M/E 70-1	0.3						
M/E 70-2	0.5						
M/E 127	32						
M/E 197	0						
M/E 198	97						
M/E 199	6.3						
M/E 275	25						
M/E 365	3.8						
M/E 441	16						
M/E 442	100						
M/E 443-1	22						
M/E 443-2	22						
INTERNAL STD AREA(ANT)				2190000	3570000	3270000	3830000
INTERNAL STD AREA(CRY)				975000	418000	272000	334000
INTERNAL STD AREA(DCB)				1260000	2150000	2140000	2270000
INTERNAL STD AREA(NPT)				4110000	6830000	7000000	7590000
INTERNAL STD AREA(PHN)				2030000	1940000	1570000	1830000
INTERNAL STD AREA(PRY)				757000	245000	130000	109000
DILUTION FACTOR					12	12	12.1
PERCENT MOISTURE					16	16	16.4
ACTUAL(ALLOWED) EXTRACT TIME					10(14 D)	10(14 D)	10(14 D)

AREA							
LOCATION	BLDG 19/34	BLDG 19/34	BLDG 19/34				
TYPE OF LOCATION	D&D	D&D	D&D				
SAMPLE NUMBER	AR810074B	AR810085B	AR810096B				
MATRIX	SOIL	SOIL	SOIL				
UNITS	UG/KG	UG/KG	UG/KG				
ENV PROBLEM NO	23	23	23				
ACENAPHTHENE	3300 U	3300 U	3300 U				

TABLE D.7.13 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C101

DRAFT DO NOT CITE

AREA

LOCATION	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	D&D	D&D	D&D
SAMPLE NUMBER	AR810074B	AR810085B	AR810096B
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	23	23	23
ACENAPHTHYLENE	3300 U	3300 U	3300 U
ANTHRACENE	3300 U	3300 U	3300 U
BENZO(A)ANTHRACENE	3300 U	3300 U	3300 U
BENZO(A)PYRENE	3300 U	3300 U	3300 U
BENZO(B)FLUORANTHENE	3300 U	3300 U	3300 U
BENZO(G,H,I)PERYLENE	3300 U	3300 U	3300 U
BENZO(K)FLUORANTHENE	3300 U	3300 U	3300 U
BENZOIC ACID	17000 U	17000 U	17000 U
BENZYL ALCOHOL	3300 U	3300 U	3300 U
BIS(2-CHLOROETHOXY)METHANE	3300 U	3300 U	3300 U
BIS(2-CHLOROETHYL)ETHER	3300 U	3300 U	3300 U
BIS(2-CHLOROISOPROPYL)ETHER	3300 U	3300 U	3300 U
BIS(2-ETHYLHEXYL)PHTHALATE	3300 U	3300 U	3300 U
BUTYLBENZYLPHTHALATE	3300 U	3300 U	3300 U
CHRYSENE	3300 U	3300 U	3300 U
DI-N-BUTYLPHTHALATE	3300 U	3300 U	3300 U
DI-N-OCTYL PHTHALATE	3300 U	3300 U	3300 U
DIBENZ(A,H)ANTHRACENE	3300 U	3300 U	3300 U
DIBENZOFURAN	3300 U	3300 U	3300 U
DIETHYLPHTHALATE	3300 U	3300 U	3300 U
DIMETHYLPHTHALATE	3300 U	3300 U	3300 U
FLUORANTHENE	3300 U	3300 U	3300 U
FLUORENE	3300 U	3300 U	3300 U
HEXACHLOROBENZENE	3300 U	3300 U	3300 U
HEXACHLOROBUTADIENE	3300 U	3300 U	3300 U
HEXACHLOROCYCLOPENTADIENE	3300 U	3300 U	3300 U
HEXACHLOROETHANE	3300 U	3300 U	3300 U
INDENO(1,2,3-CD)PYRENE	3300 U	3300 U	3300 U
ISOPHORONE	3300 U	3300 U	3300 U
N-NITROSO-DI-N-PROPYLAMINE	3300 U	3300 U	3300 U
N-NITROSODIPHENYLAMINE	3300 U	3300 U	3300 U
NAPHTHALENE	3300 U	3300 U	3300 U
NITROBENZENE	3300 U	3300 U	3300 U
NITROBENZENE-D5			
PENTACHLOROPHENOL	17000 U	17000 U	17000 U
PHENANTHRENE	3300 U	3300 U	3300 U
PHENOL	3300 U	3300 U	3300 U
PHENOL-D5			
PYRENE	3300 U	3300 U	3300 U

TABLE D.7.13 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C101 DRAFT DO NOT CITE

AREA

LOCATION	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	D&D	D&D	D&D
SAMPLE NUMBER	AR810074B	AR810085B	AR810096B
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	23	23	23
TERPHENYL-D14			
1,2-DICHLOROBENZENE	3300 U	3300 U	3300 U
1,2,4-TRICHLOROBENZENE	3300 U	3300 U	3300 U
1,3-DICHLOROBENZENE	3300 U	3300 U	3300 U
1,4-DICHLOROBENZENE	3300 U	3300 U	3300 U
2-CHLORONAPHTHALENE	3300 U	3300 U	3300 U
2-CHLOROPHENOL	3300 U	3300 U	3300 U
2-FLUOROBIPHENYL			
2-FLUOROPHENOL			
2-METHYLNAPHTHALENE	3300 U	3300 U	3300 U
2-METHYLPHENOL	3300 U	3300 U	3300 U
2-NITROANILINE	17000 U	17000 U	17000 U
2-NITROPHENOL	3300 U	3300 U	3300 U
2,4-DICHLOROPHENOL	3300 U	3300 U	3300 U
2,4-DIMETHYLPHENOL	3300 U	3300 U	3300 U
2,4-DINITROPHENOL	17000 U	17000 U	17000 U
2,4-DINITROTOLUENE	3300 U	3300 U	3300 U
2,4,5-TRICHLOROPHENOL	17000 U	17000 U	17000 U
2,4,6-TRIBROMOPHENOL			
2,4,6-TRICHLOROPHENOL	3300 U	3300 U	3300 U
2,6-DINITROTOLUENE	3300 U	3300 U	3300 U
3-NITROANILINE	17000 U	17000 U	17000 U
3,3'-DICHLOROBENZIDINE	6700 U	6700 U	6700 U
4-BROMOPHENYL-PHENYLETHER	3300 U	3300 U	3300 U
4-CHLORO-3-METHYLPHENOL	3300 U	3300 U	3300 U
4-CHLOROANILINE	3300 U	3300 U	3300 U
4-CHLOROPHENYL-PHENYLETHER	3300 U	3300 U	3300 U
4-METHYLPHENOL	3300 U	3300 U	3300 U
4-NITROANILINE	17000 U	17000 U	17000 U
4-NITROPHENOL	17000 U	17000 U	17000 U
4,6-DINITRO-2-METHYLPHENOL	17000 U	17000 U	17000 U
SURR 1(NBZ) %RECOVERY	5 *	6 *	4 *
SURR 2(FBP) %RECOVERY	5 *	7 *	8 *
SURR 3(TPH) %RECOVERY	11 *	27	15 *
SURR 4(PHL) %RECOVERY	3 *	6 *	5 *
SURR 5(2FP) %RECOVERY	7 *	7 *	7 *
SURR 6(TBP) %RECOVERY	9 *	9 *	7 *

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TABLE D.7.13 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C101

DRAFT DO NOT CITE

AREA

LOCATION	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	D&D	D&D	D&D
SAMPLE NUMBER	AR810074B	AR810085B	AR810096B
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	23	23	23
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)	2680000	2500000	2840000
INTERNAL STD AREA(CRY)	175000 *	135000 *	173000 *
INTERNAL STD AREA(DCB)	1890000	2040000	2160000
INTERNAL STD AREA(NPT)	6320000	6600000	7390000
INTERNAL STD AREA(PHN)	932000	1180000	1420000
INTERNAL STD AREA(PRY)	104000	147000	176000
DILUTION FACTOR	11.9	11.8	12.1
PERCENT MOISTURE	15.1	14.2	16.2
ACTUAL(ALLOWED) EXTRACT TIME	10(14 D)	10(14 D)	10(14 D)

TABLE D.7.14 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C104 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	NIKE SITE	NIKE SITE	NIKE SITE
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DRAINS	DRAINS	DRAINS
SAMPLE NUMBER	AR0104885	AR0104887	AR0104887	AR0104888	AR807013B	AR807024B	AR807035B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					21	21	21
ACENAPHTHENE		1.125	6.4		3300 U	3300 U	330 U
ACENAPHTHYLENE		1.785	35.7		3300 U	3300 U	330 U
ANTHRACENE		0.144	0.144		3300 U	3300 U	330 U
BENZO(A)ANTHRACENE		1.21	1.21		3300 U	3300 U	330 U
BENZO(A)PYRENE		0.79	0.79		3300 U	3300 U	330 U
BENZO(B)FLUORANTHENE		2.365	2.365		3300 U	3300 U	330 U
BENZO(G,H,I)PERYLENE		0.124	4.9		3300 U	3300 U	330 U
BENZO(K)FLUORANTHENE		2.365	79.5		3300 U	3300 U	330 U
BENZOIC ACID		0.158	36.7		17000 U	17000 U	1700 U
BENZYL ALCOHOL		0.709	8.7		3300 U	3300 U	330 U
BIS(2-CHLOROETHOXY)METHANE		0.578	15.8		3300 U	3300 U	330 U
BIS(2-CHLOROETHYL)ETHER		2.023	25.2		3300 U	3300 U	330 U
BIS(2-CHLOROISOPROPYL)ETHER		2.149	10.9		3300 U	3300 U	330 U
BIS(2-ETHYLHEXYL)PHTHALATE		0.561	0.561		3300 U	3300 U	330 U
BUTYLBENZYLPHTHALATE		1.082	1.082		3300 U	3300 U	330 U
CHRYSENE		1.21	24.2		3300 U	3300 U	330 U
DI-N-BUTYLPHTHALATE		0.144	26.5		3300 U	3300 U	330 U
DI-N-OCTYL PHTHALATE		0.561	37.2		3300 U	3300 U	330 U
DIBENZ(A,H)ANTHRACENE		0.124	0.124		3300 U	3300 U	330 U
DIBENZOFURAN		1.46	8		3300 U	3300 U	330 U
DIETHYLPHTHALATE		1.104	2.7		3300 U	3300 U	330 U
DIMETHYLPHTHALATE		1.479	3.4		3300 U	3300 U	330 U
FLUORANTHENE		1.103	1.103		3300 U	2300 J	330 U
FLUORENE		0.924	18.1		3300 U	3300 U	330 U
HEXACHLOROBENZENE		0.397	45.6		3300 U	3300 U	330 U
HEXACHLOROBUTADIENE		0.284	19.9		3300 U	3300 U	330 U
HEXACHLOROCYCLOPENTADIENE		0.37	22		3300 U	3300 U	330 U
HEXACHLOROETHANE		0.793	26.9		3300 U	3300 U	330 U
INDENO(1,2,3-CD)PYRENE		0.79	10.7		3300 U	3300 U	330 U
ISOPHORONE		0.973	6.1		3300 U	3300 U	330 U
N-NITROSO-DI-N-PROPYLAMINE		1.213	12.2		3300 U	3300 U	330 U
N-NITROSODIPHENYLAMINE		0.792	107.8		3300 U	3300 U	330 U
NAPHTHALENE		1.115	30.9		3300 U	3300 U	330 U
NITROBENZENE		0.527	15.3		3300 U	3300 U	330 U
NITROBENZENE-D5		0.967	8.5				
PENTACHLOROPHENOL		0.555	0.555		17000 U	17000 U	1700 U
PHENANTHRENE		0.555	68.4		3300 U	3300 U	330 U
PHENOL		1.777	7.2		3300 U	3300 U	330 U
PHENOL-D5		1.137	1.137				

TABLE D.7.14 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C104 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	NIKE SITE	NIKE SITE	NIKE SITE
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DRAINS	DRAINS	DRAINS
SAMPLE NUMBER	AR0104885	AR0104887	AR0104887	AR0104888	AR807013B	AR807024B	AR807035B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					21	21	21
PYRENE		1.103	29		3300 U	1700 J	330 U
TERPHENYL-D14		1.251	29.1				
1,2-DICHLOROBENZENE		1.492	2.8		3300 U	3300 U	330 U
1,2,4-TRICHLOROBENZENE		0.441	9.7		3300 U	3300 U	330 U
1,3-DICHLOROBENZENE		1.606	15.9		3300 U	3300 U	330 U
1,4-DICHLOROBENZENE		1.53	10.1		3300 U	3300 U	330 U
2-CHLORONAPHTHALENE		1.386	24.8		3300 U	3300 U	330 U
2-CHLOROPHENOL		1.317	22.3		3300 U	3300 U	330 U
2-FLUOROBIPHENYL		1.251	1.251				
2-FLUOROPHENOL		1.137	34.3				
2-METHYLNAPHTHALENE		0.026	95.8		3300 U	3300 U	330 U
2-METHYLPHENOL		1.171	14		3300 U	3300 U	330 U
2-NITROANILINE		0.351	17.9		17000 U	17000 U	1700 U
2-NITROPHENOL		0.261	10.9		3300 U	3300 U	330 U
2,4-DICHLOROPHENOL		0.313	7.5		3300 U	3300 U	330 U
2,4-DIMETHYLPHENOL		0.446	22.2		3300 U	3300 U	330 U
2,4-DINITROPHENOL		0.073	62.2		17000 U	17000 U	1700 U
2,4-DINITROTOLUENE		0.258	47		3300 U	3300 U	330 U
2,4,5-TRICHLOROPHENOL		0.329	26		17000 U	17000 U	1700 U
2,4,6-TRIBROMOPHENOL		2.195	2.195				
2,4,6-TRICHLOROPHENOL		0.428	5.7		3300 U	3300 U	330 U
2,6-DINITROTOLUENE		0.323	11.8		3300 U	3300 U	330 U
3-NITROANILINE		0.112	73.9		17000 U	17000 U	1700 U
3,3'-DICHLOROBENZIDINE		1.082	33.5		6700 U	6700 U	670 U
4-BROMOPHENYL-PHENYLETHER		0.397	0.397		3300 U	3300 U	330 U
4-CHLORO-3-METHYLPHENOL		0.288	24.5		3300 U	3300 U	330 U
4-CHLOROANILINE		0.389	70.3		3300 U	3300 U	330 U
4-CHLOROPHENYL-PHENYLETHER		0.471	16.8		3300 U	3300 U	330 U
4-METHYLPHENOL		1.186	10.5		3300 U	3300 U	330 U
4-NITROANILINE		0.049	61.5		17000 U	17000 U	1700 U
4-NITROPHENOL		0.008	94.4		17000 U	17000 U	1700 U
4,6-DINITRO-2-METHYLPHENOL		0.133	20.7		17000 U	17000 U	1700 U
SURR 1(NBZ) %RECOVERY					6 *	4 *	33
SURR 2(FBP) %RECOVERY					10 *	6 *	46
SURR 3(TPH) %RECOVERY					9 *	10 *	170 *
SURR 4(PHL) %RECOVERY					5 *	5 *	38
SURR 5(2FP) %RECOVERY					9 *	9 *	45
SURR 6(TBP) %RECOVERY					10 *	10 *	87

TABLE D.7.14 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C104 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	NIKE SITE	NIKE SITE	NIKE SITE
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DRAINS	DRAINS	DRAINS
SAMPLE NUMBER	AR0104885	AR0104887	AR0104887	AR0104888	AR807013B	AR807024B	AR807035B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					21	21	21
M/E 51	59						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	85						
M/E 70-1	0.6						
M/E 70-2	0.7						
M/E 127	49						
M/E 197	0						
M/E 198	100						
M/E 199	7.8						
M/E 275	24						
M/E 365	3.7						
M/E 441	15						
M/E 442	91						
M/E 443-1	20						
M/E 443-2	22						
INTERNAL STD AREA(ANT)				2790000	2270000	2320000	2520000
INTERNAL STD AREA(CRY)				403000	530000	381000	178000
INTERNAL STD AREA(DCB)				1840000	1820000	1570000	1470000
INTERNAL STD AREA(NPT)				6050000	6150000	5210000	5510000
INTERNAL STD AREA(PHN)				1730000	1590000	1490000	1450000
INTERNAL STD AREA(PRY)				295000	618000	307000	283000
DILUTION FACTOR					13.4	13.6	1.3
PERCENT MOISTURE					24.6	25.8	22.9
ACTUAL(ALLOWED) EXTRACT TIME					10(14 D)	10(14 D)	10(14 D)

AREA							
LOCATION	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE	CP-3 AREA	
TYPE OF LOCATION	DRAINS	DRAINS	DRAINS	DRAINS	DRAINS	SITE A	
SAMPLE NUMBER	AR807046B	AR807057B	AR807068B	AR807079B	AR807080B	AR812010B	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ENV PROBLEM NO	21	21	21	21	21	25	
ACENAPHTHENE	330 U	330 U	330 U	330 U	330 U	330 U	

TABLE D.7.14 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C104 DRAFT DO NOT CITE

AREA

LOCATION	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE	CP-3 AREA
TYPE OF LOCATION	DRAINS	DRAINS	DRAINS	DRAINS	DRAINS	SITE A
SAMPLE NUMBER	AR807046B	AR807057B	AR807068B	AR807079B	AR807080B	AR812010B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	21	21	21	21	21	25
ACENAPHTHYLENE	330 U	330 U	330 U	330 U	330 U	330 U
ANTHRACENE	330 U	330 U	330 U	330 U	330 U	330 U
BENZO(A)ANTHRACENE	330 U	330 U	330 U	330 U	330 U	330 U
BENZO(A)PYRENE	330 U	330 U	330 U	330 U	330 U	330 U
BENZO(B)FLUORANTHENE	330 U	330 U	330 U	330 U	330 U	330 U
BENZO(G,H,I)PERYLENE	330 U	330 U	330 U	330 U	330 U	330 U
BENZO(K)FLUORANTHENE	330 U	330 U	330 U	330 U	330 U	330 U
BENZOIC ACID	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
BENZYL ALCOHOL	330 U	330 U	330 U	330 U	330 U	330 U
BIS(2-CHLOROETHOXY)METHANE	330 U	330 U	330 U	330 U	330 U	330 U
BIS(2-CHLOROETHYL)ETHER	330 U	330 U	330 U	330 U	330 U	330 U
BIS(2-CHLOROISOPROPYL)ETHER	330 U	330 U	330 U	330 U	330 U	330 U
BIS(2-ETHYLHEXYL)PHTHALATE	330 U	330 U	330 U	330 U	330 U	330 U
BUTYLBENZYLPHTHALATE	330 U	330 U	330 U	330 U	330 U	330 U
CHRYSENE	330 U	330 U	330 U	330 U	330 U	330 U
DI-N-BUTYLPHTHALATE	330 U	330 U	330 U	330 U	330 U	330 U
DI-N-OCTYL PHTHALATE	330 U	330 U	330 U	330 U	330 U	330 U
DIBENZ(A,H)ANTHRACENE	330 U	330 U	330 U	330 U	330 U	330 U
DIBENZOFURAN	330 U	330 U	330 U	330 U	330 U	330 U
DIETHYLPHTHALATE	330 U	330 U	330 U	330 U	330 U	330 U
DIMETHYLPHTHALATE	330 U	330 U	330 U	330 U	330 U	330 U
FLUORANTHENE	330 U	330 U	330 U	330 U	330 U	330 U
FLUORENE	330 U	330 U	330 U	330 U	330 U	330 U
HEXACHLOROBENZENE	330 U	330 U	330 U	330 U	330 U	330 U
HEXACHLOROBUTADIENE	330 U	330 U	330 U	330 U	330 U	330 U
HEXACHLOROCYCLOPENTADIENE	330 U	330 U	330 U	330 U	330 U	330 U
HEXACHLOROETHANE	330 U	330 U	330 U	330 U	330 U	330 U
INDENO(1,2,3-CD)PYRENE	330 U	330 U	330 U	330 U	330 U	330 U
ISOPHORONE	330 U	330 U	330 U	330 U	330 U	330 U
N-NITROSO-DI-N-PROPYLAMINE	330 U	330 U	330 U	330 U	330 U	330 U
N-NITROSODIPHENYLAMINE	330 U	330 U	330 U	330 U	330 U	330 U
NAPHTHALENE	330 U	330 U	330 U	330 U	330 U	330 U
NITROBENZENE	330 U	330 U	330 U	330 U	330 U	330 U
NITROBENZENE-D5						
PENTACHLOROPHENOL	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
PHENANTHRENE	330 U	330 U	330 U	330 U	330 U	330 U
PHENOL	330 U	330 U	330 U	330 U	330 U	330 U
PHENOL-D5						
PYRENE	330 U	330 U	330 U	330 U	330 U	330 U

TABLE D.7.14 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C104 DRAFT DO NOT CITE

AREA

LOCATION	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE	CP-3 AREA
TYPE OF LOCATION	DRAINS	DRAINS	DRAINS	DRAINS	DRAINS	SITE A
SAMPLE NUMBER	AR807046B	AR807057B	AR807068B	AR807079B	AR807080B	AR812010B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	21	21	21	21	21	25
TERPHENYL-D14						
1,2-DICHLOROBENZENE	330 U	330 U	330 U	330 U	330 U	330 U
1,2,4-TRICHLOROBENZENE	330 U	330 U	330 U	330 U	330 U	330 U
1,3-DICHLOROBENZENE	330 U	330 U	330 U	330 U	330 U	330 U
1,4-DICHLOROBENZENE	330 U	330 U	330 U	330 U	330 U	330 U
2-CHLORONAPHTHALENE	330 U	330 U	330 U	330 U	330 U	330 U
2-CHLOROPHENOL	330 U	330 U	330 U	330 U	330 U	330 U
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	330 U	330 U	330 U	330 U	330 U	330 U
2-METHYLPHENOL	330 U	330 U	330 U	330 U	330 U	330 U
2-NITROANILINE	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2-NITROPHENOL	330 U	330 U	330 U	330 U	330 U	330 U
2,4-DICHLOROPHENOL	330 U	330 U	330 U	330 U	330 U	330 U
2,4-DIMETHYLPHENOL	330 U	330 U	330 U	330 U	330 U	330 U
2,4-DINITROPHENOL	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2,4-DINITROTOLUENE	330 U	330 U	330 U	330 U	330 U	330 U
2,4,5-TRICHLOROPHENOL	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	330 U	330 U	330 U	330 U	330 U	330 U
2,6-DINITROTOLUENE	330 U	330 U	330 U	330 U	330 U	330 U
3-NITROANILINE	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
3,3'-DICHLOROBENZIDINE	670 U	670 U	670 U	670 U	670 U	670 U
4-BROMOPHENYL-PHENYLETHER	330 U	330 U	330 U	330 U	330 U	330 U
4-CHLORO-3-METHYLPHENOL	330 U	330 U	330 U	330 U	330 U	330 U
4-CHLOROANILINE	330 U	330 U	330 U	330 U	330 U	330 U
4-CHLOROPHENYL-PHENYLETHER	330 U	330 U	330 U	330 U	330 U	330 U
4-METHYLPHENOL	330 U	330 U	330 U	330 U	330 U	330 U
4-NITROANILINE	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-NITROPHENOL	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4,6-DINITRO-2-METHYLPHENOL	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
SURR 1(NBZ) %RECOVERY	30	56	50	39	48	45
SURR 2(FBP) %RECOVERY	44	46	48	43	56	50
SURR 3(TPH) %RECOVERY	62	69	158 *	52	249 *	52
SURR 4(PHL) %RECOVERY	42	44	42	42	76	38
SURR 5(2FP) %RECOVERY	54	57	56	49	82	23 *
SURR 6(TBP) %RECOVERY	66	72	77	62	90	77

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TABLE D.7.14 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C104 DRAFT DO NOT CITE

AREA

LOCATION	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE	NIKE SITE	CP-3 AREA
TYPE OF LOCATION	DRAINS	DRAINS	DRAINS	DRAINS	DRAINS	SITE A
SAMPLE NUMBER	AR807046B	AR807057B	AR807068B	AR807079B	AR807080B	AR812010B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	21	21	21	21	21	25
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)	2880000	2570000	2700000	2260000	2960000	1980000
INTERNAL STD AREA(CRY)	459000	466000	156000	476000	117000	141000
INTERNAL STD AREA(DCB)	1980000	1740000	1940000	1630000	1310000	1670000
INTERNAL STD AREA(NPT)	7600000	4920000	5160000	4580000	5980000	4600000
INTERNAL STD AREA(PHN)	1680000	1590000	1570000	1300000	1520000	897000
INTERNAL STD AREA(PRY)	360000	471000	140000	439000	216000	111000
DILUTION FACTOR	1.2	1.3	1.3	1.3	1.2	1.2
PERCENT MOISTURE	18.2	19.5	21.3	19.2	18.9	18.9
ACTUAL(ALLOWED) EXTRACT TIME	10(14 D)	9(14 D)	10(14 D)	10(14 D)	9(14 D)	14(14 D)

TABLE D.7.15 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C105 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	
LOCATION	MATRIX SPIKE	MSD %	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	CP-3 AREA
TYPE OF LOCATION	DUPLICATE	RECOVERY	CALIBRATION	CALIBRATION	CAL %D	SHIFT	SITE A
SAMPLE NUMBER	AR812065B	AR812065B	AR0105885	AR0105887	AR0105887	AR0105888	AR812021B
MATRIX	SOIL	SOIL					SOIL
UNITS	UG/KG	%	%	RRF	%	AREA	UG/KG
ENV PROBLEM NO	25	25					25
ACENAPHTHENE	1200 MS	36		1.129	6.7		330 U
ACENAPHTHYLENE	330 U			1.437	9.3		330 U
ANTHRACENE	330 U			1.033	27.5		330 U
BENZO(A)ANTHRACENE	330 U			1.181	11.7		330 U
BENZO(A)PYRENE	330 U			1.092	0.1		330 U
BENZO(B)FLUORANTHENE	330 U			1.262	12.4		330 U
BENZO(G,H,I)PERYLENE	330 U			1.123	44.2		330 U
BENZO(K)FLUORANTHENE	330 U			1.024	4.2		330 U
BENZOIC ACID	1700 U			0.2	19.7		1700 U
BENZYL ALCOHOL	330 U			0.815	4.9		330 U
BIS(2-CHLOROETHOXY)METHANE	330 U			0.646	29.4		330 U
BIS(2-CHLOROETHYL)ETHER	330 U			2.241	38.8		330 U
BIS(2-CHLOROISOPROPYL)ETHER	330 U			2.728	13.1		330 U
BIS(2-ETHYLHEXYL)PHTHALATE	58 J			1.11	31.1		110 J
BUTYLBENZYLPHTHALATE	330 U			0.693	3		330 U
CHRYSENE	330 U			1.138	17.3		330 U
DI-N-BUTYLPHTHALATE	330 U			1.168	19.8		18 J
DI-N-OCTYL PHTHALATE	330 U			1.661	17		330 U
DIBENZ(A,H)ANTHRACENE	330 U			1.021	39		330 U
DIBENZOFURAN	330 U			1.34	0.9		330 U
DIETHYLPHTHALATE	140 J			1.725	60.4		650
DIMETHYLPHTHALATE	330 U			1.556	8.8		16 J
FLUORANTHENE	330 U			0.682	23.6		330 U
FLUORENE	330 U			1.096	2.8		330 U
HEXACHLOROBENZENE	330 U			0.45	36.5		330 U
HEXACHLOROBUTADIENE	330 U			0.342	44.4		330 U
HEXACHLOROCYCLOPENTADIENE	330 U			0.498	64.3		330 U
HEXACHLOROETHANE	330 U			0.767	22.7		330 U
INDENO(1,2,3-CD)PYRENE	330 U			1.123	35.9		330 U
ISOPHORONE	330 U			1.115	21.6		330 U
N-NITROSO-DI-N-PROPYLAMINE	770 MS	23 *		1.262	16.8		330 U
N-NITROSODIPHENYLAMINE	330 U			0.634	66.3		330 U
NAPHTHALENE	330 U			0.855	0.4		330 U
NITROBENZENE	330 U			0.611	33.8		330 U
NITROBENZENE-D5				0.614	45		
PENTACHLOROPHENOL	4900 MS	74		0.155	20.7		1700 U
PHENANTHRENE	330 U			1.073	25.5		330 U
PHENOL	1800 MS	29		1.682	1.5		330 U
PHENOL-D5				1.643	18.8		

TABLE D.7.15 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C105 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	
LOCATION	MATRIX SPIKE	MSD %	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	CP-3 AREA
TYPE OF LOCATION	DUPLICATE	RECOVERY	CALIBRATION	CALIBRATION	CAL %D	SHIFT	SITE A
SAMPLE NUMBER	AR812065B	AR812065B	AR0105885	AR0105887	AR0105887	AR0105888	AR812021B
MATRIX	SOIL	SOIL					SOIL
UNITS	UG/KG	%	%	RRF	%	AREA	UG/KG
ENV PROBLEM NO	25	25					25
PYRENE	1800 MS	55		1.602	21.6		330 U
TERPHENYL-D14				0.996	25.4		
1,2-DICHLOROBENZENE	330 U			1.451	0.1		330 U
1,2,4-TRICHLOROBENZENE	430 MS	13 *		0.5	24.3		330 U
1,3-DICHLOROBENZENE	330 U			1.517	9.5		330 U
1,4-DICHLOROBENZENE	400 MS	12 *		1.501	8		330 U
2-CHLORONAPHTHALENE	330 U			1.283	15.5		330 U
2-CHLOROPHENOL	1800 MS	25		1.238	15		330 U
2-FLUOROBIPHENYL				1.28	15.1		
2-FLUOROPHENOL				1.21	22.2		
2-METHYLNAPHTHALENE	330 U			0.033	94.7		330 U
2-METHYLPHENOL	330 U			1.229	19.7		330 U
2-NITROANILINE	1700 U			0.436	2.1		1700 U
2-NITROPHENOL	330 U			0.295	25.6		330 U
2,4-DICHLOROPHENOL	330 U			0.416	22.7		330 U
2,4-DIMETHYLPHENOL	330 U			0.491	34.4		330 U
2,4-DINITROPHENOL	1700 U			0.108	44		1700 U
2,4-DINITROTOLUENE	1500 MS	45		0.344	29.3		330 U
2,4,5-TRICHLOROPHENOL	1700 U			0.413	7		1700 U
2,4,6-TRIBROMOPHENOL				0.227	19.8		
2,4,6-TRICHLOROPHENOL	330 U			0.467	2.8		330 U
2,6-DINITROTOLUENE	330 U			0.356	2.8		330 U
3-NITROANILINE	1700 U			0.119	72.1		1700 U
3,3'-DICHLOROBENZIDINE	670 U			0.134	13.5		670 U
4-BROMOPHENYL-PHENYLETHER	330 U			0.336	22.9		330 U
4-CHLORO-3-METHYLPHENOL	2000 MS	30		0.371	2.9		330 U
4-CHLOROANILINE	330 U			0.527	130.6		330 U
4-CHLOROPHENYL-PHENYLETHER	330 U			0.537	5.1		330 U
4-METHYLPHENOL	330 U			1.287	19.9		330 U
4-NITROANILINE	1700 U			0.051	60.5		1700 U
4-NITROPHENOL	73000 MSE	1110 *		0.007	95.6		1700 U
4,6-DINITRO-2-METHYLPHENOL	1700 U			0.147	12.5		1700 U
SURR 1(NBZ) %RECOVERY	9 *						47
SURR 2(FBP) %RECOVERY	19 *						54
SURR 3(TPH) %RECOVERY	33						71
SURR 4(PHL) %RECOVERY	26						46
SURR 5(2FP) %RECOVERY	2 *						46
SURR 6(TBP) %RECOVERY	54						75

TABLE D.7.15 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C105 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	
LOCATION	MATRIX SPIKE	MSD %	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	CP-3 AREA
TYPE OF LOCATION	DUPLICATE	RECOVERY	CALIBRATION	CALIBRATION	CAL %D	SHIFT	SITE A
SAMPLE NUMBER	AR812065B	AR812065B	AR0105885	AR0105887	AR0105887	AR0105888	AR812021B
MATRIX	SOIL	SOIL					SOIL
UNITS	UG/KG	%	%	RRF	%	AREA	UG/KG
ENV PROBLEM NO	25	25					25
M/E 51			74				
M/E 68-1			0				
M/E 68-2			0				
M/E 69			100				
M/E 70-1			1.4				
M/E 70-2			1.4				
M/E 127			58				
M/E 197			0				
M/E 198			99				
M/E 199			7.4				
M/E 275			25				
M/E 365			3.5				
M/E 441			16				
M/E 442			97				
M/E 443-1			19				
M/E 443-2			19				
INTERNAL STD AREA(ANT)	6340000					1E+07	9740000
INTERNAL STD AREA(CRY)	5140000					4790000	5650000
INTERNAL STD AREA(DCB)	3480000					7590000	6380000
INTERNAL STD AREA(NPT)	1E+07					2E+07	2E+07
INTERNAL STD AREA(PHN)	6800000					1E+07	1E+07
INTERNAL STD AREA(PRY)	5480000					4630000	5110000
DILUTION FACTOR	1						1.2
PERCENT MOISTURE	17.1						18.5
ACTUAL(ALLOWED) EXTRACT TIME	14(14 D)						14(14 D)

AREA					QA	QA	QA
LOCATION	CP-3 AREA	CP-3 AREA	CP-3 AREA	CP-3 AREA	MATRIX	MS %	RPD
TYPE OF LOCATION	SITE A	SITE A	SITE A	SITE A	SPIKE	RECOVERY	
SAMPLE NUMBER	AR812032B	AR812043B	AR812054B	AR812065B	AR812065B	AR812065B	AR812065B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	25	25	25	25	25	25	25
ACENAPHTHENE	330 U	330 U	330 U	330 U	1400 MS	42	15

TABLE D.7.15 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C105 DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	CP-3 AREA	CP-3 AREA	CP-3 AREA	CP-3 AREA	MATRIX	MS %	RPD
TYPE OF LOCATION	SITE A	SITE A	SITE A	SITE A	SPIKE	RECOVERY	
SAMPLE NUMBER	AR812032B	AR812043B	AR812054B	AR812065B	AR812065B	AR812065B	AR812065B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	25	25	25	25	25	25	25
ACENAPHTHYLENE	330 U	330 U	330 U	330 U	330 U		
ANTHRACENE	330 U	330 U	330 U	330 U	330 U		
BENZO(A)ANTHRACENE	330 U	330 U	330 U	330 U	330 U		
BENZO(A)PYRENE	330 U	330 U	330 U	330 U	330 U		
BENZO(B)FLUORANTHENE	330 U	330 U	330 U	330 U	330 U		
BENZO(G,H,I)PERYLENE	330 U	330 U	330 U	330 U	330 U		
BENZO(K)FLUORANTHENE	330 U	330 U	330 U	330 U	330 U		
BENZOIC ACID	1700 U	1700 U	1700 U	1700 U	1700 U		
BENZYL ALCOHOL	330 U	330 U	330 U	330 U	330 U		
BIS(2-CHLOROETHOXY)METHANE	330 U	330 U	330 U	330 U	330 U		
BIS(2-CHLOROETHYL)ETHER	330 U	330 U	330 U	330 U	330 U		
BIS(2-CHLOROISOPROPYL)ETHER	330 U	330 U	330 U	330 U	330 U		
BIS(2-ETHYLHEXYL)PHTHALATE	130 J	75 J	80 J	86 J	140 J		
BUTYLBENZYLPHTHALATE	330 U	330 U	330 U	330 U	330 U		
CHRYSENE	330 U	330 U	330 U	330 U	330 U		
DI-N-BUTYLPHTHALATE	56 J	38 J	36 J	24 J	28 J		
DI-N-OCTYL PHTHALATE	330 U	8 J	10 J	330 U	330 U		
DIBENZ(A,H)ANTHRACENE	330 U	330 U	330 U	330 U	330 U		
DIBENZOFURAN	330 U	330 U	330 U	330 U	330 U		
DIETHYLPHTHALATE	1800	960	710	370	260 J		
DIMETHYLPHTHALATE	150 J	150 J	150 J	330 U	330 U		
FLUORANTHENE	330 U	330 U	330 U	330 U	330 U		
FLUORENE	330 U	330 U	330 U	330 U	330 U		
HEXACHLOROBENZENE	330 U	330 U	330 U	330 U	330 U		
HEXACHLOROBUTADIENE	330 U	330 U	330 U	330 U	330 U		
HEXACHLOROCYCLOPENTADIENE	330 U	330 U	330 U	330 U	330 U		
HEXACHLOROETHANE	330 U	330 U	330 U	330 U	330 U		
INDENO(1,2,3-CD)PYRENE	330 U	330 U	330 U	330 U	330 U		
ISOPHORONE	330 U	330 U	330 U	330 U	330 U		
N-NITROSO-DI-N-PROPYLAMINE	330 U	330 U	330 U	330 U	1100 MS	33 *	36
N-NITROSODIPHENYLAMINE	330 U	330 U	330 U	330 U	330 U		
NAPHTHALENE	330 U	330 U	330 U	330 U	330 U		
NITROBENZENE	330 U	330 U	330 U	330 U	330 U		
NITROBENZENE-D5							
PENTACHLOROPHENOL	1700 U	1700 U	1700 U	1700 U	5700 MSE	86	15
PHENANTHRENE	330 U	330 U	330 U	330 U	330 U		
PHENOL	330 U	330 U	330 U	330 U	1900 MS	30	3
PHENOL-D5							
PYRENE	330 U	330 U	330 U	330 U	2200 MS	67	20

TABLE D.7.15 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C105 DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	CP-3 AREA	CP-3 AREA	CP-3 AREA	CP-3 AREA	MATRIX	MS %	RPD
TYPE OF LOCATION	SITE A	SITE A	SITE A	SITE A	SPIKE	RECOVERY	
SAMPLE NUMBER	AR812032B	AR812043B	AR812054B	AR812065B	AR812065B	AR812065B	AR812065B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	25	25	25	25	25	25	25
TERPHENYL-D14							
1,2-DICHLOROBENZENE	330 U	330 U	330 U	330 U	330 U		
1,2,4-TRICHLOROBENZENE	330 U	330 U	330 U	330 U	940 MS	28 *	73 *
1,3-DICHLOROBENZENE	330 U	330 U	330 U	330 U	330 U		
1,4-DICHLOROBENZENE	330 U	330 U	330 U	330 U	720 MS	22 *	59 *
2-CHLORONAPHTHALENE	330 U	330 U	330 U	330 U	330 U		
2-CHLOROPHENOL	330 U	330 U	330 U	330 U	2400 MS	33	26
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	330 U	330 U	330 U	330 U	330 U		
2-METHYLPHENOL	330 U	330 U	330 U	330 U	330 U		
2-NITROANILINE	1700 U	1700 U	1700 U	1700 U	1700 U		
2-NITROPHENOL	330 U	330 U	330 U	330 U	330 U		
2,4-DICHLOROPHENOL	330 U	330 U	330 U	330 U	330 U		
2,4-DIMETHYLPHENOL	330 U	330 U	330 U	330 U	330 U		
2,4-DINITROPHENOL	1700 U	1700 U	1700 U	1700 U	1700 U		
2,4-DINITROTOLUENE	330 U	330 U	330 U	330 U	1500 MS	45	0
2,4,5-TRICHLOROPHENOL	1700 U	1700 U	1700 U	1700 U	1700 U		
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	330 U	330 U	330 U	330 U	330 U		
2,6-DINITROTOLUENE	330 U	330 U	330 U	330 U	330 U		
3-NITROANILINE	1700 U	1700 U	1700 U	1700 U	1700 U		
3,3'-DICHLOROBENZIDINE	670 U	670 U	670 U	670 U	670 U		
4-BROMOPHENYL-PHENYLETHER	330 U	330 U	330 U	330 U	330 U		
4-CHLORO-3-METHYLPHENOL	330 U	330 U	330 U	330 U	2700 MS	41	31
4-CHLOROANILINE	330 U	330 U	330 U	330 U	330 U		
4-CHLOROPHENYL-PHENYLETHER	330 U	330 U	330 U	330 U	330 U		
4-METHYLPHENOL	330 U	330 U	330 U	330 U	330 U		
4-NITROANILINE	1700 U	1700 U	1700 U	1700 U	1700 U		
4-NITROPHENOL	1700 U	1700 U	1700 U	1700 U	39000 MSE	590 *	61 *
4,6-DINITRO-2-METHYLPHENOL	1700 U	1700 U	1700 U	1700 U	1700 U		
SURR 1(NBZ) %RECOVERY	26	1 *	19 *	38	18 *		
SURR 2(FBP) %RECOVERY	50	33	39	44	28 *		
SURR 3(TPH) %RECOVERY	79	53	58	61	43		
SURR 4(PHL) %RECOVERY	42	27	43	42	34		
SURR 5(2FP) %RECOVERY	33	6 *	35	30	7 *		
SURR 6(TBP) %RECOVERY	103	95	104	103	82		

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TABLE D.7.15 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C105 DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	CP-3 AREA	CP-3 AREA	CP-3 AREA	CP-3 AREA	MATRIX	MS %	RPD
TYPE OF LOCATION	SITE A	SITE A	SITE A	SITE A	SPIKE	RECOVERY	
SAMPLE NUMBER	AR812032B	AR812043B	AR812054B	AR812065B	AR812065B	AR812065B	AR812065B
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	25	25	25	25	25	25	25
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)	8980000	1E+07	9560000	1E+07	1E+07		
INTERNAL STD AREA(CRY)	4070000	1E+07	8190000	8220000	4600000		
INTERNAL STD AREA(DCB)	5310000	6020000	4920000	6430000	6620000		
INTERNAL STD AREA(NPT)	2E+07	2E+07	2E+07	2E+07	2E+07		
INTERNAL STD AREA(PHN)	8580000	1E+07	1E+07	1E+07	9280000		
INTERNAL STD AREA(PRY)	3890000	1E+07	9290000	9210000	4280000		
DILUTION FACTOR	1.2	1.2	1.2	1.2	1		
PERCENT MOISTURE	18.8	15.7	17	17.1	17.1		
ACTUAL(ALLOWED) EXTRACT TIME	14(14 D)	14(14 D)	14(14 D)	14(14 D)	14(14 D)		

TABLE D.7.16 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C106 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	319 LNDF-S	319 LNDF-S
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LANDFILL	LANDFILL
SAMPLE NUMBER	AR0106885	AR0106887	AR0106887	AR0106888	SBKC106	AR801017B	AR801028B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO						17	17
ACENAPHTHENE		1.023	3.3		330 U	330 U	330 U
ACENAPHTHYLENE		1.274	3.1		330 U	330 U	330 U
ANTHRACENE		1.066	31.5		330 U	24 J	330 U
BENZO(A)ANTHRACENE		1.155	9.3		330 U	130 J	330 U
BENZO(A)PYRENE		1.065	2.6		330 U	97 J	330 U
BENZO(B)FLUORANTHENE		1.172	18.6		330 U	200 J	28 J
BENZO(G,H,I)PERYLENE		1.028	32		330 U	57 J	15 J
BENZO(K)FLUORANTHENE		1.059	7.8		330 U	220 J	330 U
BENZOIC ACID		0.096	61.4		1600 U	1700 U	1700 U
BENZYL ALCOHOL		0.825	6.2		330 U	330 U	330 U
BIS(2-CHLOROETHOXY)METHANE		0.671	34.5		330 U	330 U	330 U
BIS(2-CHLOROETHYL)ETHER		2.203	36.4		330 U	330 U	330 U
BIS(2-CHLOROISOPROPYL)ETHER		2.977	23.5		330 U	330 U	330 U
BIS(2-ETHYLHEXYL)PHTHALATE		0.987	16.5		100 J	77 J	74 J
BUTYLBENZYLPHTHALATE		0.6	16.1		330 U	61 J	330 U
CHRYSENE		1.129	16.5		330 U	140 J	330 U
DI-N-BUTYLPHTHALATE		1.146	17.6		10 J	210 J	13 J
DI-N-OCTYL PHTHALATE		1.484	4.6		20 J	330 U	330 U
DIBENZ(A,H)ANTHRACENE		0.923	25.6		330 U	330 U	330 U
DIBENZOFURAN		1.196	11.5		330 U	330 U	330 U
DIETHYLPHTHALATE		1.153	7.2		330 U	2100	100 J
DIMETHYLPHTHALATE		1.414	1.2		330 U	330 U	330 U
FLUORANTHENE		0.762	14.6		330 U	360	21 J
FLUORENE		1.01	10.4		330 U	330 U	330 U
HEXACHLOROBENZENE		0.54	64		330 U	330 U	330 U
HEXACHLOROBUTADIENE		0.359	51.5		330 U	330 U	330 U
HEXACHLOROCYCLOPENTADIENE		0.503	66		330 U	330 U	330 U
HEXACHLOROETHANE		0.834	33.4		330 U	330 U	330 U
INDENO(1,2,3-CD)PYRENE		1.028	24.4		330 U	57 J	15 J
ISOPHORONE		1.112	21.3		330 U	330 U	330 U
N-NITROSO-DI-N-PROPYLAMINE		1.409	30.4		330 U	330 U	330 U
N-NITROSODIPHENYLAMINE		0.696	82.8		330 U	330 U	330 U
NAPHTHALENE		0.014	98.3		330 U	330 U	330 U
NITROBENZENE		0.662	44.9		330 U	330 U	330 U
NITROBENZENE-D5		0.64	51.1				
PENTACHLOROPHENOL		0.167	14.8		1600 U	1700 U	1700 U
PHENANTHRENE		1.096	28.3		330 U	110 J	330 U
PHENOL		1.885	13.7		330 U	330 U	330 U
PHENOL-D5		1.741	25.9				

TABLE D.7.16 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C106 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	319 LNDF-S	319 LNDF-S
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LANDFILL	LANDFILL
SAMPLE NUMBER	AR0106885	AR0106887	AR0106887	AR0106888	SBKC106	AR801017B	AR801028B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO						17	17
PYRENE		1.621	23.1		330 U	240 J	17 J
TERPHENYL-D14		0.953	20				
1,2-DICHLOROBENZENE		1.557	7.3		330 U	330 U	330 U
1,2,4-TRICHLOROBENZENE		0.525	30.5		330 U	330 U	330 U
1,3-DICHLOROBENZENE		1.586	14.4		330 U	330 U	330 U
1,4-DICHLOROBENZENE		1.438	3.4		330 U	330 U	330 U
2-CHLORONAPHTHALENE		1.179	6.2		330 U	330 U	330 U
2-CHLOROPHENOL		1.352	25.6		330 U	330 U	330 U
2-FLUOROBIPHENYL		1.177	5.8				
2-FLUOROPHENOL		1.214	22.6				
2-METHYLNAPHTHALENE		0.032	94.8		330 U	330 U	330 U
2-METHYLPHENOL		1.316	28.1		330 U	330 U	330 U
2-NITROANILINE		0.419	2		1600 U	1700 U	1700 U
2-NITROPHENOL		0.322	36.8		330 U	330 U	330 U
2,4-DICHLOROPHENOL		0.43	27		330 U	330 U	330 U
2,4-DIMETHYLPHENOL		0.549	50.4		330 U	330 U	330 U
2,4-DINITROPHENOL		0.092	52.5		1600 U	1700 U	1700 U
2,4-DINITROTOLUENE		0.346	28.9		330 U	330 U	330 U
2,4,5-TRICHLOROPHENOL		0.393	11.4		1600 U	1700 U	1700 U
2,4,6-TRIBROMOPHENOL		0.28	47.9				
2,4,6-TRICHLOROPHENOL		0.472	3.9		330 U	330 U	330 U
2,6-DINITROTOLUENE		0.346	5.3		330 U	330 U	330 U
3-NITROANILINE		0.05	88.3		1600 U	1700 U	1700 U
3,3'-DICHLOROBENZIDINE		0.141	19.9		660 U	670 U	670 U
4-BROMOPHENYL-PHENYLETHER		0.4	46.4		330 U	330 U	330 U
4-CHLORO-3-METHYLPHENOL		0.42	9.8		330 U	330 U	330 U
4-CHLOROANILINE		0.526	130.2		330 U	330 U	330 U
4-CHLOROPHENYL-PHENYLETHER		0.544	3.8		330 U	330 U	330 U
4-METHYLPHENOL		1.413	31.6		330 U	330 U	330 U
4-NITROANILINE		0.027	79		1600 U	1700 U	1700 U
4-NITROPHENOL		0.064	57.3		1600 U	1700 U	1700 U
4,6-DINITRO-2-METHYLPHENOL		0.157	6.4		1600 U	1700 U	1700 U
SURR 1(NBZ) %RECOVERY					22 *	19 *	31
SURR 2(FBP) %RECOVERY					36	36	40
SURR 3(TPH) %RECOVERY					66	38	42
SURR 4(PHL) %RECOVERY					0 *	28	48
SURR 5(2FP) %RECOVERY					28	29	69
SURR 6(TBP) %RECOVERY					59	45	47

TABLE D.7.16 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C106 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	319 LNDF-S	319 LNDF-S
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LANDFILL	LANDFILL
SAMPLE NUMBER	AR0106885	AR0106887	AR0106887	AR0106888	SBKC106	AR801017B	AR801028B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO						17	17
M/E 51	58						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	93						
M/E 70-1	0.1						
M/E 70-2	0.1						
M/E 127	48						
M/E 197	0						
M/E 198	100						
M/E 199	7.4						
M/E 275	22						
M/E 365	2						
M/E 441	9.2						
M/E 442	37						
M/E 443-1	13						
M/E 443-2	34						
INTERNAL STD AREA(ANT)				1E+07	2E+07	1E+07	1E+07
INTERNAL STD AREA(CRY)				5530000	7700000	7910000	9420000
INTERNAL STD AREA(DCB)				7870000	1E+07	7060000	4700000
INTERNAL STD AREA(NPT)				2E+07	3E+07	2E+07	2E+07
INTERNAL STD AREA(PHN)				1E+07	2E+07	1E+07	2E+07
INTERNAL STD AREA(PRY)				5040000	7780000	6850000	9080000
DILUTION FACTOR					1	1.2	1.2
PERCENT MOISTURE					0	18.2	17.9
ACTUAL(ALLOWED) EXTRACT TIME						12(14 D)	12(14 D)

AREA							
LOCATION	319 LNDF-S	317 AREA					
TYPE OF LOCATION	LANDFILL	DRAINAGE					
SAMPLE NUMBER	AR801039B	AR803019B					
MATRIX	SOIL	SOIL					
UNITS	UG/KG	UG/KG					
ENV PROBLEM NO	17	18					
ACENAPHTHENE	330 U	330 U					

TABLE D.7.16 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C106 DRAFT DO NOT CITE

AREA

LOCATION	319 LNDF-S	317 AREA
TYPE OF LOCATION	LANDFILL	DRAINAGE
SAMPLE NUMBER	AR801039B	AR803019B
MATRIX	SOIL	SOIL
UNITS	UG/KG	UG/KG
ENV PROBLEM NO	17	18
ACENAPHTHYLENE	330 U	330 U
ANTHRACENE	330 U	330 U
BENZO(A)ANTHRACENE	330 U	120 J
BENZO(A)PYRENE	330 U	330 U
BENZO(B)FLUORANTHENE	330 U	190 J
BENZO(G,H,I)PERYLENE	330 U	87 J
BENZO(K)FLUORANTHENE	330 U	330 U
BENZOIC ACID	1700 U	1700 U
BENZYL ALCOHOL	330 U	330 U
BIS(2-CHLOROETHOXY)METHANE	330 U	330 U
BIS(2-CHLOROETHYL)ETHER	330 U	330 U
BIS(2-CHLOROISOPROPYL)ETHER	330 U	330 U
BIS(2-ETHYLHEXYL)PHTHALATE	93 J	120 J
BUTYLBENZYLPHTHALATE	330 U	330 U
CHRYSENE	330 U	330 U
DI-N-BUTYLPHTHALATE	330 U	330 U
DI-N-OCTYL PHTHALATE	17 J	330 U
DIBENZ(A,H)ANTHRACENE	330 U	21 J
DIBENZOFURAN	330 U	330 U
DIETHYLPHTHALATE	330 U	51 J
DIMETHYLPHTHALATE	330 U	330 U
FLUORANTHENE	330 U	310 J
FLUORENE	330 U	330 U
HEXACHLOROBENZENE	330 U	330 U
HEXACHLOROBUTADIENE	330 U	330 U
HEXACHLOROCYCLOPENTADIENE	330 U	330 U
HEXACHLOROETHANE	330 U	330 U
INDENO(1,2,3-CD)PYRENE	330 U	330 U
ISOPHORONE	330 U	330 U
N-NITROSO-DI-N-PROPYLAMINE	330 U	330 U
N-NITROSODIPHENYLAMINE	330 U	330 U
NAPHTHALENE	330 U	330 U
NITROBENZENE	330 U	330 U
NITROBENZENE-D5		
PENTACHLOROPHENOL	1700 U	1700 U
PHENANTHRENE	330 U	140 J
PHENOL	330 U	330 U
PHENOL-D5		
PYRENE	330 U	330 U

TABLE D.7.16 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C106 DRAFT DO NOT CITE

AREA

LOCATION	319 LNDF-S	317 AREA
TYPE OF LOCATION	LANDFILL	DRAINAGE
SAMPLE NUMBER	AR801039B	AR803019B
MATRIX	SOIL	SOIL
UNITS	UG/KG	UG/KG
ENV PROBLEM NO	17	18
TERPHENYL-D14		
1,2-DICHLOROBENZENE	330 U	330 U
1,2,4-TRICHLOROBENZENE	330 U	330 U
1,3-DICHLOROBENZENE	330 U	330 U
1,4-DICHLOROBENZENE	330 U	330 U
2-CHLORONAPHTHALENE	330 U	330 U
2-CHLOROPHENOL	330 U	330 U
2-FLUOROBIPHENYL		
2-FLUOROPHENOL		
2-METHYLNAPHTHALENE	330 U	330 U
2-METHYLPHENOL	330 U	330 U
2-NITROANILINE	1700 U	1700 U
2-NITROPHENOL	330 U	330 U
2,4-DICHLOROPHENOL	330 U	330 U
2,4-DIMETHYLPHENOL	330 U	330 U
2,4-DINITROPHENOL	1700 U	1700 U
2,4-DINITROTOLUENE	330 U	330 U
2,4,5-TRICHLOROPHENOL	1700 U	1700 U
2,4,6-TRIBROMOPHENOL		
2,4,6-TRICHLOROPHENOL	330 U	330 U
2,6-DINITROTOLUENE	330 U	330 U
3-NITROANILINE	1700 U	1700 U
3,3'-DICHLOROBENZIDINE	670 U	670 U
4-BROMOPHENYL-PHENYLETHER	330 U	330 U
4-CHLORO-3-METHYLPHENOL	330 U	330 U
4-CHLOROANILINE	330 U	330 U
4-CHLOROPHENYL-PHENYLETHER	330 U	330 U
4-METHYLPHENOL	330 U	330 U
4-NITROANILINE	1700 U	1700 U
4-NITROPHENOL	1700 U	1700 U
4,6-DINITRO-2-METHYLPHENOL	1700 U	1700 U
SURR 1(NBZ) %RECOVERY	31	34
SURR 2(FBP) %RECOVERY	44	46
SURR 3(TPH) %RECOVERY	56	42
SURR 4(PHL) %RECOVERY	34	35
SURR 5(2FP) %RECOVERY	39	24 *
SURR 6(TBP) %RECOVERY	69	52

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TABLE D.7.16 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C106 DRAFT DO NOT CITE

AREA

LOCATION	319 LNDF-S	317 AREA
TYPE OF LOCATION	LANDFILL	DRAINAGE
SAMPLE NUMBER	AR801039B	AR803019B
MATRIX	SOIL	SOIL
UNITS	UG/KG	UG/KG
ENV PROBLEM NO	17	18
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)	1E+07	2E+07
INTERNAL STD AREA(CRY)	8100000	1E+07
INTERNAL STD AREA(DCB)	7710000	8530000
INTERNAL STD AREA(NPT)	2E+07	3E+07
INTERNAL STD AREA(PHN)	1E+07	2E+07
INTERNAL STD AREA(PRY)	7950000	9540000
DILUTION FACTOR	1.2	1.1
PERCENT MOISTURE	18.8	11.7
ACTUAL(ALLOWED) EXTRACT TIME	12(14 D)	18(14 D)

TABLE D.7.17 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C107 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	317 AREA	317 AREA	317 AREA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR0107885	AR0107887	AR0107887	AR0107888	AR803020B	AR803031B	AR803053B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					18	18	18
ACENAPHTHENE		1.143	8		330 U	330 U	330 U
ACENAPHTHYLENE		1.499	14		330 U	330 U	330 U
ANTHRACENE		1.137	40.3		330 U	330 U	330 U
BENZO(A)ANTHRACENE		1.154	9.2		330 U	330 U	330 U
BENZO(A)PYRENE		1.092	0.1		330 U	330 U	330 U
BENZO(B)FLUORANTHENE		1.28	11.2		91 J	330 U	130 J
BENZO(G,H,I)PERYLENE		1.082	38.8		44 J	42 J	66 J
BENZO(K)FLUORANTHENE		1.089	18.9		330 U	58 J	69 J
BENZOIC ACID		0.107	57.1		1700 U	1700 U	1700 U
BENZYL ALCOHOL		0.513	33.9		330 U	330 U	330 U
BIS(2-CHLOROETHOXY)METHANE		0.625	25.2		330 U	330 U	330 U
BIS(2-CHLOROETHYL)ETHER		1.999	23.8		330 U	330 U	330 U
BIS(2-CHLOROISOPROPYL)ETHER		3.104	28.8		330 U	330 U	330 U
BIS(2-ETHYLHEXYL)PHTHALATE		0.88	3.9		74 J	97 J	750
BUTYLBENZYLPHTHALATE		0.584	18.2		330 U	330 U	65 J
CHRYSENE		1.143	17.9		69 J	63 J	330 U
DI-N-BUTYLPHTHALATE		1.234	26.6		10 J	330 U	35 J
DI-N-OCTYL PHTHALATE		1.519	7.1		330 U	330 U	130 J
DIBENZ(A,H)ANTHRACENE		1.027	39.8		330 U	330 U	53 J
DIBENZOFURAN		1.347	0.4		13 J	330 U	330 U
DIETHYLPHTHALATE		1.156	7.5		330 U	330 U	330 U
DIMETHYLPHTHALATE		1.458	2		330 U	330 U	330 U
FLUORANTHENE		0.88	1.4		120 J	150 J	47 J
FLUORENE		1.1	2.5		330 U	330 U	330 U
HEXACHLOROBENZENE		0.663	101.3		330 U	330 U	330 U
HEXACHLOROBUTADIENE		0.39	64.5		330 U	330 U	330 U
HEXACHLOROCYCLOPENTADIENE		0.543	79.1		330 U	330 U	330 U
HEXACHLOROETHANE		0.853	36.5		330 U	330 U	330 U
INDENO(1,2,3-CD)PYRENE		1.082	30.8		330 U	330 U	330 U
ISOPHORONE		1.039	13.3		330 U	140 J	330 U
N-NITROSO-DI-N-PROPYLAMINE		1.615	49.4		330 U	330 U	330 U
N-NITROSODIPHENYLAMINE		0.654	71.6		330 U	330 U	330 U
NAPHTHALENE		0.015	98.2		330 U	6300 E	330 U
NITROBENZENE		0.585	28.1		330 U	330 U	330 U
NITROBENZENE-D5		0.576	35.9				
PENTACHLOROPHENOL		0.192	2.3		1700 U	1700 U	1700 U
PHENANTHRENE		1.12	31		89 J	120 J	330 U
PHENOL		2.009	21.2		330 U	330 U	330 U
PHENOL-D5		1.7	22.9				

TABLE D.7.17 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C107 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	317 AREA	317 AREA	317 AREA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR0107885	AR0107887	AR0107887	AR0107888	AR803020B	AR803031B	AR803053B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					18	18	18
PYRENE		1.445	9.7		130 J	330 U	330 U
TERPHENYL-D14		0.926	16.6				
1,2-DICHLOROBENZENE		1.711	17.9		330 U	330 U	330 U
1,2,4-TRICHLOROBENZENE		0.522	29.9		330 U	19 J	330 U
1,3-DICHLOROBENZENE		1.703	22.9		330 U	330 U	330 U
1,4-DICHLOROBENZENE		1.766	27		330 U	330 U	330 U
2-CHLORONAPHTHALENE		1.273	14.6		330 U	330 U	330 U
2-CHLOROPHENOL		1.444	34.1		330 U	330 U	330 U
2-FLUOROBIPHENYL		1.311	17.8				
2-FLUOROPHENOL		1.073	8.4				
2-METHYLNAPHTHALENE		0.033	94.6		330 U	810	330 U
2-METHYLPHENOL		1.398	36.2		330 U	330 U	330 U
2-NITROANILINE		0.409	4.2		1700 U	1700 U	1700 U
2-NITROPHENOL		0.291	23.8		330 U	330 U	330 U
2,4-DICHLOROPHENOL		0.393	15.9		330 U	330 U	330 U
2,4-DIMETHYLPHENOL		0.507	38.9		330 U	330 U	330 U
2,4-DINITROPHENOL		0.058	69.9		1700 U	1700 U	1700 U
2,4-DINITROTOLUENE		0.333	31.5		330 U	330 U	330 U
2,4,5-TRICHLOROPHENOL		0.351	20.9		1700 U	1700 U	1700 U
2,4,6-TRIBROMOPHENOL		0.344	81.8				
2,4,6-TRICHLOROPHENOL		0.465	2.5		330 U	330 U	330 U
2,6-DINITROTOLUENE		0.35	4.4		330 U	330 U	330 U
3-NITROANILINE		0.028	93.4		1700 U	1700 U	1700 U
3,3'-DICHLOROBENZIDINE		0.186	57.4		670 U	670 U	670 U
4-BROMOPHENYL-PHENYLETHER		0.431	57.9		330 U	330 U	330 U
4-CHLORO-3-METHYLPHENOL		0.38	0.6		330 U	330 U	330 U
4-CHLOROANILINE		0.429	87.9		330 U	330 U	330 U
4-CHLOROPHENYL-PHENYLETHER		0.562	0.7		330 U	330 U	330 U
4-METHYLPHENOL		1.399	30.3		330 U	330 U	330 U
4-NITROANILINE		0.014	89.3		1700 U	1700 U	1700 U
4-NITROPHENOL		0.053	64.1		1700 U	1700 U	1700 U
4,6-DINITRO-2-METHYLPHENOL		0.135	19.7		1700 U	1700 U	1700 U
SURR 1(NBZ) %RECOVERY					31	37	25
SURR 2(FBP) %RECOVERY					42	39	37
SURR 3(TPH) %RECOVERY					62	51	61
SURR 4(PHL) %RECOVERY					38	40	33
SURR 5(2FP) %RECOVERY					39	49	38
SURR 6(TBP) %RECOVERY					65	67	67

TABLE D.7.17 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C107 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	317 AREA	317 AREA	317 AREA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR0107885	AR0107887	AR0107887	AR0107888	AR803020B	AR803031B	AR803053B
MATRIX					SOIL	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO					18	18	18
M/E 51	54						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	70						
M/E 70-1	0.4						
M/E 70-2	0.6						
M/E 127	40						
M/E 197	0						
M/E 198	100						
M/E 199	7.5						
M/E 275	23						
M/E 365	2.6						
M/E 441	12						
M/E 442	73						
M/E 443-1	17						
M/E 443-2	23						
INTERNAL STD AREA(ANT)				1E+07	1E+07	2E+07	1E+07
INTERNAL STD AREA(CRY)				5530000	7230000	9870000	6500000
INTERNAL STD AREA(DCB)				5250000	7070000	7970000	7440000
INTERNAL STD AREA(NPT)				2E+07	2E+07	2E+07	2E+07
INTERNAL STD AREA(PHN)				9520000	1E+07	2E+07	1E+07
INTERNAL STD AREA(PRY)				5020000	6930000	1E+07 *	4650000
DILUTION FACTOR					1.2	1.3	1.2
PERCENT MOISTURE					15	19.2	13.9
ACTUAL(ALLOWED) EXTRACT TIME					16(14 D)	16(14 D)	16(14 D)

AREA							
LOCATION	317 AREA						
TYPE OF LOCATION	DRAINAGE						
SAMPLE NUMBER	AR803064B						
MATRIX	SOIL						
UNITS	UG/KG						
ENV PROBLEM NO	18						
ACENAPHTHENE	330 U						

AREA

LOCATION	317 AREA							
TYPE OF LOCATION	DRAINAGE							
SAMPLE NUMBER	AR803064B							
MATRIX	SOIL							
UNITS	UG/KG							
ENV PROBLEM NO	18							
ACENAPHTHYLENE	330	U						
ANTHRACENE	330	U						
BENZO(A)ANTHRACENE	330	U						
BENZO(A)PYRENE	330	U						
BENZO(B)FLUORANTHENE	330	U						
BENZO(G,H,I)PERYLENE	330	U						
BENZO(K)FLUORANTHENE	330	U						
BENZOIC ACID	1700	U						
BENZYL ALCOHOL	330	U						
BIS(2-CHLOROETHOXY)METHANE	330	U						
BIS(2-CHLOROETHYL)ETHER	330	U						
BIS(2-CHLOROISOPROPYL)ETHER	330	U						
BIS(2-ETHYLHEXYL)PHTHALATE	100	J						
BUTYLBENZYLPHTHALATE	330	U						
CHRYSENE	330	U						
DI-N-BUTYLPHTHALATE	330	U						
DI-N-OCTYL PHTHALATE	330	U						
DIBENZ(A,H)ANTHRACENE	330	U						
DIBENZOFURAN	330	U						
DIETHYLPHTHALATE	9	J						
DIMETHYLPHTHALATE	330	U						
FLUORANTHENE	22	J						
FLUORENE	330	U						
HEXACHLOROBENZENE	330	U						
HEXACHLOROBUTADIENE	330	U						
HEXACHLOROCYCLOPENTADIENE	330	U						
HEXACHLOROETHANE	330	U						
INDENO(1,2,3-CD)PYRENE	330	U						
ISOPHORONE	730							
N-NITROSO-DI-N-PROPYLAMINE	330	U						
N-NITROSODIPHENYLAMINE	330	U						
NAPHTHALENE	3700							
NITROBENZENE	330	U						
NITROBENZENE-D5								
PENTACHLOROPHENOL	1700	U						
PHENANTHRENE	21	J						
PHENOL	330	U						
PHENOL-D5								
PYRENE	22	J						

AREA

LOCATION	317 AREA
TYPE OF LOCATION	DRAINAGE
SAMPLE NUMBER	AR803064B
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	18
TERPHENYL-D14	
1,2-DICHLOROBENZENE	330 U
1,2,4-TRICHLOROBENZENE	24 J
1,3-DICHLOROBENZENE	330 U
1,4-DICHLOROBENZENE	330 U
2-CHLORONAPHTHALENE	330 U
2-CHLOROPHENOL	330 U
2-FLUOROBIPHENYL	
2-FLUOROPHENOL	
2-METHYLNAPHTHALENE	440
2-METHYLPHENOL	330 U
2-NITROANILINE	1700 U
2-NITROPHENOL	330 U
2,4-DICHLOROPHENOL	330 U
2,4-DIMETHYLPHENOL	330 U
2,4-DINITROPHENOL	1700 U
2,4-DINITROTOLUENE	330 U
2,4,5-TRICHLOROPHENOL	1700 U
2,4,6-TRIBROMOPHENOL	
2,4,6-TRICHLOROPHENOL	330 U
2,6-DINITROTOLUENE	330 U
3-NITROANILINE	1700 U
3,3'-DICHLOROBENZIDINE	670 U
4-BROMOPHENYL-PHENYLETHER	330 U
4-CHLORO-3-METHYLPHENOL	330 U
4-CHLOROANILINE	330 U
4-CHLOROPHENYL-PHENYLETHER	330 U
4-METHYLPHENOL	330 U
4-NITROANILINE	1700 U
4-NITROPHENOL	1700 U
4,6-DINITRO-2-METHYLPHENOL	1700 U
SURR 1(NBZ) %RECOVERY	40
SURR 2(FBP) %RECOVERY	43
SURR 3(TPH) %RECOVERY	60
SURR 4(PHL) %RECOVERY	40
SURR 5(2FP) %RECOVERY	43
SURR 6(TBP) %RECOVERY	68

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TABLE D.7.17 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: C107 DRAFT DO NOT CITE

AREA

LOCATION	317 AREA
TYPE OF LOCATION	DRAINAGE
SAMPLE NUMBER	AR803064B
MATRIX	SOIL
UNITS	UG/KG
ENV PROBLEM NO	18
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)	1E+07
INTERNAL STD AREA(CRY)	7870000
INTERNAL STD AREA(DCB)	7360000
INTERNAL STD AREA(NPT)	2E+07
INTERNAL STD AREA(PHN)	1E+07
INTERNAL STD AREA(PRY)	6810000
DILUTION FACTOR	1.3
PERCENT MOISTURE	20
ACTUAL(ALLOWED) EXTRACT TIME	16(14 D)

TABLE D.7.18 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21 DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA	
LOCATION	NPDESOUTF2	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %	NPDESOUTF2
TYPE OF LOCATION	SEEP	SPIKE	RECOVERY		DUPLICATE	RECOVERY	SEEP
SAMPLE NUMBER	AR307018E	AR307018E	AR307018E	AR307018E	AR307018E	AR307018E	AR307029E
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	4 JMS	2 JMS	0 *	138 *	11 UMS	10 *	11 U
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	56 U			56 U		56 U
BENZYL ALCOHOL	11 U	11 U			11 U		11 U
BIS(2-CHLOROETHOXY)METHANE	11 U	11 U			11 U		11 U
BIS(2-CHLOROETHYL)ETHER	11 U	11 U			11 U		11 U
BIS(2-CHLOROISOPROPYL)ETHER	11 U	11 U			11 U		11 U
BIS(2-ETHYLHEXYL)PHTHALATE	3 JB	3 JB			240 BE		7 JB
BUTYLBENZYLPHTHALATE	11 U	11 U			3 J		11 U
CHRYSENE	11 U	11 U			11 U		11 U
DI-N-BUTYLPHTHALATE	0.7 JB	0.5 JB			1 JB		0.8 JB
DI-N-OCTYL PHTHALATE	11 U	11 U			36		11 U
DIBENZ(A,H)ANTHRACENE	11 U	11 U			11 U		11 U
DIBENZOFURAN	11 U	11 U			11 U		11 U
DIETHYLPHTHALATE	1 JB	11 U			0.9 JB		1 JB
DIMETHYLPHTHALATE	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
HEXACHLOROBUTADIENE	11 U	11 U			11 U		11 U
HEXACHLOROCYCLOPENTADIENE	11 U	11 U			11 U		11 U
HEXACHLOROETHANE	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	4 JMS	3 JMS	0 *	200 *	11 UMS	9 *	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	4 JMS	2 *	148 *	56 UMS	27	56 U
PHENANTHRENE	11 U	11 U			11 U		11 U
PHENOL	11 U	5 JMS	2 *	138 *	11 UMS	5 *	11 U
PHENOL-D5							

TABLE D.7.18 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21 DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA	
LOCATION	NPDESOUTF2	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %	NPDESOUTF2
TYPE OF LOCATION	SEEP	SPIKE	RECOVERY		DUPLICATE	RECOVERY	SEEP
SAMPLE NUMBER	AR307018E	AR307018E	AR307018E	AR307018E	AR307018E	AR307018E	AR307029E
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
PYRENE	5 JMS	3 JMS	0 *	50 *	1 JMS	1 *	11 U
TERPHENYL-D14							
1,2-DICHLOROBENZENE	11 U	11 U			11 U		11 U
1,2,4-TRICHLOROBENZENE	4 JMS	3 JMS	0 *	200 *	11 UMS	8 *	11 U
1,3-DICHLOROBENZENE	11 U	11 U			11 U		11 U
1,4-DICHLOROBENZENE	3 JMS	2 JMS	0 *	200 *	11 U	11 *	11 U
2-CHLORONAPHTHALENE	11 U	11 U			11 U		11 U
2-CHLOROPHENOL	11 U	110 MS	42	35	60 MS	23 *	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	3 JMS	3 JMS	0 *	80 *	11 UMS	7 *	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
3,3'-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	7 JMS	3 *	33	5 JMS	2 *	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			11 U		11 U
4-NITROANILINE	56 U	56 U			56 U		56 U
4-NITROPHENOL	56 U	56 U	23	0	56 U	23	56 U
4,6-DINITRO-2-METHYLPHENOL	56 U	56 U			56 U		56 U
SURR 1(NBZ) %RECOVERY	47	24 *			66		30 *
SURR 2(FBP) %RECOVERY	49	23 *			60		34 *
SURR 3(TPH) %RECOVERY	13 *	15 *			32 *		28 *
SURR 4(PHL) %RECOVERY	26	31			16		12
SURR 5(2FP) %RECOVERY	29	33			17 *		12 *
SURR 6(TBP) %RECOVERY	42	50			37		45

TABLE D.7.18 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21

DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA	
LOCATION	NPDESOUTF2	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %	NPDESOUTF2
TYPE OF LOCATION	SEEP	SPIKE	RECOVERY		DUPLICATE	RECOVERY	SEEP
SAMPLE NUMBER	AR307018E	AR307018E	AR307018E	AR307018E	AR307018E	AR307018E	AR307029E
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
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)	8080000 *	9050000 *			1E+07 *		8220000 *
INTERNAL STD AREA(CRY)	8400000 *	8900000 *			1E+07 *		8910000 *
INTERNAL STD AREA(DCB)	3920000 *	4330000 *			4840000 *		4270000 *
INTERNAL STD AREA(NPT)	1E+07 *	1E+07 *			2E+07 *		1E+07 *
INTERNAL STD AREA(PHN)	1E+07 *	1E+07 *			1E+07 *		1E+07 *
INTERNAL STD AREA(PRY)	6040000 *	6660000 *			7860000 *		6250000 *
DILUTION FACTOR	1.1	1.1			1.1		1.1
ACTUAL(ALLOWED) EXTRACT TIME	7(7 D)	7(7 D)			7(7 D)		6(7 D)

AREA				QA	QA	QA	QA
LOCATION	NPDESOUTF2	B815 SEWER	B815 SEWER	TUNED	CONTINUING	CONTINUING	ISTD RET TIM
TYPE OF LOCATION	SEEP	DRAINAGE	DRAINAGE	CALIBRATION	CALIBRATION	CAL %D	SHIFT
SAMPLE NUMBER	AR307041E	AR309021E	AR309032E	AR1221875	AR1221877	AR1221877	AR1221878
MATRIX	WATER	WATER	WATER				
UNITS	UG/L	UG/L	UG/L	%	RRF	%	AREA
ENV PROBLEM NO	3	5	5				
ACENAPHTHENE	11 U	11 U	11 U		1.136	7.3	

TABLE D.7.18 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21 DRAFT DO NOT CITE

AREA				QA	QA	QA	QA
LOCATION	NPDESOUTF2	B815 SEWER	B815 SEWER	TUNED	CONTINUING	CONTINUING	ISTD RET TIM
TYPE OF LOCATION	SEEP	DRAINAGE	DRAINAGE	CALIBRATION	CALIBRATION	CAL %D	SHIFT
SAMPLE NUMBER	AR307041E	AR309021E	AR309032E	AR1221875	AR1221877	AR1221877	AR1221878
MATRIX	WATER	WATER	WATER				
UNITS	UG/L	UG/L	UG/L	%	RRF	%	AREA
ENV PROBLEM NO	3	5	5				
ACENAPHTHYLENE	11 U	11 U	11 U		1.9	10.1	
ANTHRACENE	11 U	11 U	11 U		1.081	5.5	
BENZO(A)ANTHRACENE	11 U	11 U	11 U		1.039	16.8	
BENZO(A)PYRENE	11 U	11 U	11 U		1.134	17.4	
BENZO(B)FLUORANTHENE	11 U	11 U	11 U		1.312	4.4	
BENZO(G,H,I)PERYLENE	11 U	11 U	11 U		0.97	22.5	
BENZO(K)FLUORANTHENE	11 U	11 U	11 U		1.193	13.1	
BENZOIC ACID	56 U	56 U	56 U		0.179	29.7	
BENZYL ALCOHOL	11 U	11 U	11 U		0.762	16.2	
BIS(2-CHLOROETHOXY)METHANE	11 U	11 U	11 U		0.48	4.5	
BIS(2-CHLOROETHYL)ETHER	11 U	11 U	11 U		1.403	0.2	
BIS(2-CHLOROISOPROPYL)ETHER	11 U	11 U	11 U		2.371	2	
BIS(2-ETHYLHEXYL)PHTHALATE	7 JB	2 JB	27 B		0.992	21.3	
BUTYLBENZYLPHTHALATE	11 U	11 U	1 J		0.761	23.5	
CHRYSENE	11 U	11 U	11 U		1.021	18.1	
DI-N-BUTYLPHTHALATE	0.6 JB	11 U	0.8 JB		1.475	55	
DI-N-OCTYL PHTHALATE	11 U	11 U	2 J		1.998	21.3	
DIBENZ(A,H)ANTHRACENE	11 U	11 U	11 U		0.845	29.5	
DIBENZOFURAN	11 U	11 U	11 U		1.557	4.5	
DIETHYLPHTHALATE	11 U	11 U	1 JB		1.441	15.8	
DIMETHYLPHTHALATE	11 U	11 U	11 U		1.372	14.8	
FLUORANTHENE	11 U	11 U	11 U		1.147	46.3	
FLUORENE	11 U	11 U	11 U		1.223	4	
HEXACHLOROBENZENE	11 U	11 U	11 U		0.335	27.7	
HEXACHLOROBUTADIENE	11 U	11 U	11 U		0.227	17.6	
HEXACHLOROCYCLOPENTADIENE	11 U	11 U	11 U		0.221	56.4	
HEXACHLOROETHANE	11 U	11 U	11 U		0.631	12.3	
INDENO(1,2,3-CD)PYRENE	11 U	11 U	11 U		0.954	28.1	
ISOPHORONE	11 U	11 U	11 U		0.827	7.8	
N-NITROSO-DI-N-PROPYLAMINE	11 U	11 U	11 U		1.062	6.8	
N-NITROSODIPHENYLAMINE	11 U	11 U	11 U		0.523	9.5	
NAPHTHALENE	11 U	11 U	11 U		1.138	17.5	
NITROBENZENE	11 U	11 U	11 U		0.413	14.6	
NITROBENZENE-D5					0.388	12.9	
PENTACHLOROPHENOL	56 U	56 U	56 U		0.182	11.3	
PHENANTHRENE	11 U	11 U	11 U		1.119	6	
PHENOL	11 U	11 U	11 U		1.687	3.5	
PHENOL-D5					1.322	17.6	
PYRENE	11 U	11 U	11 U		1.391	32.5	

TABLE D.7.18 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21 DRAFT DO NOT CITE

AREA				QA	QA	QA	QA
LOCATION	NPDESOUTF2	B815 SEWER	B815 SEWER	TUNED	CONTINUING	CONTINUING	ISTD RET TIM
TYPE OF LOCATION	SEEP	DRAINAGE	DRAINAGE	CALIBRATION	CALIBRATION	CAL %D	SHIFT
SAMPLE NUMBER	AR307041E	AR309021E	AR309032E	AR1221875	AR1221877	AR1221877	AR1221878
MATRIX	WATER	WATER	WATER				
UNITS	UG/L	UG/L	UG/L	%	RRF	%	AREA
ENV PROBLEM NO	3	5	5				
TERPHENYL-D14					0.78	34.6	
1,2-DICHLOROBENZENE	11 U	11 U	11 U		1.561	0.6	
1,2,4-TRICHLOROBENZENE	11 U	11 U	11 U		0.38	11.9	
1,3-DICHLOROBENZENE	11 U	11 U	11 U		1.595	0.6	
1,4-DICHLOROBENZENE	11 U	11 U	11 U		1.575	0.3	
2-CHLORONAPHTHALENE	11 U	11 U	11 U		1.185	9	
2-CHLOROPHENOL	11 U	11 U	11 U		1.237	0.1	
2-FLUOROBIPHENYL					1.228	11	
2-FLUOROPHENOL					1.018	18.3	
2-METHYLNAPHTHALENE	11 U	11 U	11 U		0.632	13.1	
2-METHYLPHENOL	11 U	11 U	11 U		1.107	12	
2-NITROANILINE	56 U	56 U	56 U		0.405	9.4	
2-NITROPHENOL	11 U	11 U	11 U		0.198	23.2	
2,4-DICHLOROPHENOL	11 U	11 U	11 U		0.325	12.8	
2,4-DIMETHYLPHENOL	11 U	11 U	11 U		0.351	15.6	
2,4-DINITROPHENOL	56 U	56 U	56 U		0.126	25.2	
2,4-DINITROTOLUENE	11 U	11 U	11 U		0.432	4.4	
2,4,5-TRICHLOROPHENOL	56 U	56 U	56 U		0.408	12	
2,4,6-TRIBROMOPHENOL					0.187	35	
2,4,6-TRICHLOROPHENOL	11 U	11 U	11 U		0.429	10.9	
2,6-DINITROTOLUENE	11 U	11 U	11 U		0.354	11.3	
3-NITROANILINE	56 U	56 U	56 U		0.388	16.5	
3,3'-DICHLOROBENZIDINE	22 U	22 U	22 U		0.116	32.2	
4-BROMOPHENYL-PHENYLETHER	11 U	11 U	11 U		0.288	22.2	
4-CHLORO-3-METHYLPHENOL	11 U	11 U	11 U		0.355	5.2	
4-CHLOROANILINE	11 U	11 U	11 U		0.168	65.7	
4-CHLOROPHENYL-PHENYLETHER	11 U	11 U	11 U		0.619	5.3	
4-METHYLPHENOL	11 U	11 U	11 U		1.17	14.5	
4-NITROANILINE	56 U	56 U	56 U		0.16	2.7	
4-NITROPHENOL	56 U	56 U	56 U		0.106	19.1	
4,6-DINITRO-2-METHYLPHENOL	56 U	56 U	56 U		0.133	19.2	
SURR 1(NBZ) %RECOVERY	42	0 *	64				
SURR 2(FBP) %RECOVERY	43	0 *	53				
SURR 3(TPH) %RECOVERY	89	0 *	28 *				
SURR 4(PHL) %RECOVERY	14	0 *	18				
SURR 5(2FP) %RECOVERY	17 *	0 *	17 *				
SURR 6(TBP) %RECOVERY	27	0 *	31				
M/E 51					63		

TABLE D.7.18 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21

DRAFT DO NOT CITE

AREA				QA	QA	QA	QA
LOCATION	NPDESOUTF2	B815 SEWER	B815 SEWER	TUNED	CONTINUING	CONTINUING	ISTD RET TIM
TYPE OF LOCATION	SEEP	DRAINAGE	DRAINAGE	CALIBRATION	CALIBRATION	CAL %D	SHIFT
SAMPLE NUMBER	AR307041E	AR309021E	AR309032E	AR1221875	AR1221877	AR1221877	AR1221878
MATRIX	WATER	WATER	WATER				
UNITS	UG/L	UG/L	UG/L	%	RRF	%	AREA
ENV PROBLEM NO	3	5	5				
M/E 68-1				0			
M/E 68-2				0			
M/E 69				70			
M/E 70-1				0.4			
M/E 70-2				0.5			
M/E 127				49			
M/E 197				0			
M/E 198				100			
M/E 199				7.4			
M/E 275				20			
M/E 365				1.8			
M/E 441				8.5			
M/E 442				54			
M/E 443-1				11			
M/E 443-2				20			
INTERNAL STD AREA(ANT)	8560000 *	8300000 *	8560000 *				2380000
INTERNAL STD AREA(CRY)	9810000 *	9610000 *	9280000 *				2840000
INTERNAL STD AREA(DCB)	4280000 *	4110000 *	4160000 *				1160000
INTERNAL STD AREA(NPT)	1E+07 *	1E+07 *	1E+07 *				4130000
INTERNAL STD AREA(PHN)	1E+07 *	1E+07 *	1E+07 *				3540000
INTERNAL STD AREA(PRY)	7360000 *	7700000 *	6560000 *				2170000
DILUTION FACTOR	1.1	1.1	1.1				
ACTUAL(ALLOWED) EXTRACT TIME	6(7 D)	7(7 D)	6(7 D)				

AREA	QA
LOCATION	METHOD
TYPE OF LOCATION	BLANK
SAMPLE NUMBER	SBKDD21
MATRIX	WATER
UNITS	UG/L
ENV PROBLEM NO	
ACENAPHTHENE	11 U
ACENAPHTHYLENE	11 U

TABLE D.7.18 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21 DRAFT DO NOT CITE

AREA	QA
LOCATION	METHOD
TYPE OF LOCATION	BLANK
SAMPLE NUMBER	SBKDD21
MATRIX	WATER
UNITS	UG/L
ENV PROBLEM NO	
ANTHRACENE	11 U
BENZO(A)ANTHRACENE	11 U
BENZO(A)PYRENE	11 U
BENZO(B)FLUORANTHENE	11 U
BENZO(G,H,I)PERYLENE	11 U
BENZO(K)FLUORANTHENE	11 U
BENZOIC ACID	56 U
BENZYL ALCOHOL	11 U
BIS(2-CHLOROETHOXY)METHANE	11 U
BIS(2-CHLOROETHYL)ETHER	11 U
BIS(2-CHLOROISOPROPYL)ETHER	11 U
BIS(2-ETHYLHEXYL)PHTHALATE	2 J
BUTYLBENZYLPHTHALATE	11 U
CHRYSENE	11 U
DI-N-BUTYLPHTHALATE	0.7 J
DI-N-OCTYL PHTHALATE	11 U
DIBENZ(A,H)ANTHRACENE	11 U
DIBENZOFURAN	11 U
DIETHYLPHTHALATE	1 J
DIMETHYLPHTHALATE	11 U
FLUORANTHENE	11 U
FLUORENE	11 U
HEXACHLOROBENZENE	11 U
HEXACHLOROBUTADIENE	11 U
HEXACHLOROCYCLOPENTADIENE	11 U
HEXACHLOROETHANE	11 U
INDENO(1,2,3-CD)PYRENE	11 U
ISOPHORONE	11 U
N-NITROSO-DI-N-PROPYLAMINE	11 U
N-NITROSODIPHENYLAMINE	11 U
NAPHTHALENE	11 U
NITROBENZENE	11 U
NITROBENZENE-D5	
PENTACHLOROPHENOL	56 U
PHENANTHRENE	11 U
PHENOL	11 U
PHENOL-D5	
PYRENE	11 U
TERPHENYL-D14	

TABLE D.7.18 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21

DRAFT DO NOT CITE

AREA	QA
LOCATION	METHOD
TYPE OF LOCATION	BLANK
SAMPLE NUMBER	SBKDD21
MATRIX	WATER
UNITS	UG/L
ENV PROBLEM NO	
1,2-DICHLOROBENZENE	11 U
1,2,4-TRICHLOROBENZENE	11 U
1,3-DICHLOROBENZENE	11 U
1,4-DICHLOROBENZENE	11 U
2-CHLORONAPHTHALENE	11 U
2-CHLOROPHENOL	11 U
2-FLUOROBIPHENYL	
2-FLUOROPHENOL	
2-METHYLNAPHTHALENE	11 U
2-METHYLPHENOL	11 U
2-NITROANILINE	56 U
2-NITROPHENOL	11 U
2,4-DICHLOROPHENOL	11 U
2,4-DIMETHYLPHENOL	11 U
2,4-DINITROPHENOL	56 U
2,4-DINITROTOLUENE	11 U
2,4,5-TRICHLOROPHENOL	56 U
2,4,6-TRIBROMOPHENOL	
2,4,6-TRICHLOROPHENOL	11 U
2,6-DINITROTOLUENE	11 U
3-NITROANILINE	56 U
3,3'-DICHLOROBENZIDINE	22 U
4-BROMOPHENYL-PHENYLETHER	11 U
4-CHLORO-3-METHYLPHENOL	11 U
4-CHLOROANILINE	11 U
4-CHLOROPHENYL-PHENYLETHER	11 U
4-METHYLPHENOL	11 U
4-NITROANILINE	56 U
4-NITROPHENOL	56 U
4,6-DINITRO-2-METHYLPHENOL	56 U
SURR 1(NBZ) %RECOVERY	82
SURR 2(FBP) %RECOVERY	72
SURR 3(TPH) %RECOVERY	75
SURR 4(PHL) %RECOVERY	21
SURR 5(2FP) %RECOVERY	30
SURR 6(TBP) %RECOVERY	45
M/E 51	

TABLE D.7.18 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21 DRAFT DO NOT CITE

AREA	QA
LOCATION	METHOD
TYPE OF LOCATION	BLANK
SAMPLE NUMBER	SBKDD21
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)	8960000
INTERNAL STD AREA(CRY)	8860000
INTERNAL STD AREA(DCB)	4450000
INTERNAL STD AREA(NPT)	2E+07
INTERNAL STD AREA(PHN)	1E+07
INTERNAL STD AREA(PRY)	6390000
DILUTION FACTOR	1.1
ACTUAL(ALLOWED) EXTRACT TIME	

TABLE D.7.19 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21B

DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING	ISTD RET TIM
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	CALIBRATION	CAL %D	SHIFT
SAMPLE NUMBER	AR500091E	AR500126E	AR500295E	AR500319E	AR1221877	AR1221877	AR1221878
MATRIX	WATER	WATER	WATER	WATER			
UNITS	UG/L	UG/L	UG/L	UG/L	RRF	%	AREA
ENV PROBLEM NO	10	10	10	10			
ACENAPHTHENE	11 U	11 U	11 U	11 U	1.214	0.9	
ACENAPHTHYLENE	11 U	11 U	11 U	11 U	1.727	0	
ANTHRACENE	11 U	11 U	11 U	11 U	0.95	7.3	
BENZO(A)ANTHRACENE	11 U	11 U	11 U	11 U	1.085	13.2	
BENZO(A)PYRENE	11 U	11 U	11 U	11 U	1.148	16.4	
BENZO(B)FLUORANTHENE	11 U	11 U	11 U	11 U	1.348	1.8	
BENZO(G,H,I)PERYLENE	11 U	11 U	11 U	11 U	0.786	37.2	
BENZO(K)FLUORANTHENE	11 U	11 U	11 U	11 U	1.13	17.7	
BENZOIC ACID	56 U	56 U	56 U	56 U	0.13	49.1	
BENZYL ALCOHOL	11 U	11 U	11 U	11 U	0.808	11.2	
BIS(2-CHLOROETHOXY)METHANE	11 U	11 U	11 U	11 U	0.595	18.2	
BIS(2-CHLOROETHYL)ETHER	11 U	11 U	11 U	11 U	1.471	4.7	
BIS(2-CHLOROISOPROPYL)ETHER	11 U	11 U	11 U	11 U	2.736	13.1	
BIS(2-ETHYLHEXYL)PHTHALATE	48 B	8 JB	2 JB	2 JB	0.981	19.9	
BUTYLBENZYLPHTHALATE	2 J	11 U	11 U	11 U	0.779	26.4	
CHRYSENE	11 U	11 U	11 U	11 U	0.993	20.3	
DI-N-BUTYLPHTHALATE	1 JB	2 JB	2 JB	0.7 JB	1.159	21.8	
DI-N-OCTYL PHTHALATE	1 J	11 U	11 U	11 U	1.849	12.3	
DIBENZ(A,H)ANTHRACENE	11 U	11 U	11 U	11 U	0.772	35.6	
DIBENZOFURAN	11 U	11 U	11 U	11 U	1.589	2.5	
DIETHYLPHTHALATE	1 JB	1 JB	1 JB	0.9 JB	1.395	12.1	
DIMETHYLPHTHALATE	11 U	11 U	11 U	11 U	1.531	4.9	
FLUORANTHENE	11 U	11 U	11 U	11 U	1.09	39	
FLUORENE	11 U	11 U	11 U	11 U	1.272	0.1	
HEXACHLOROBENZENE	11 U	11 U	11 U	11 U	0.318	31.5	
HEXACHLOROBUTADIENE	11 U	11 U	11 U	11 U	0.23	16.8	
HEXACHLOROCYCLOPENTADIENE	11 U	11 U	11 U	11 U	0.29	42.8	
HEXACHLOROETHANE	11 U	11 U	11 U	11 U	0.66	8.2	
INDENO(1,2,3-CD)PYRENE	11 U	11 U	11 U	11 U	0.858	35.4	
ISOPHORONE	11 U	11 U	11 U	11 U	1.042	16.1	
N-NITROSO-DI-N-PROPYLAMINE	11 U	11 U	11 U	11 U	1.102	3.4	
N-NITROSODIPHENYLAMINE	11 U	11 U	11 U	11 U	0.395	31.8	
NAPHTHALENE	11 U	11 U	11 U	11 U	0.979	1.1	
NITROBENZENE	11 U	11 U	11 U	11 U	0.482	0.4	
NITROBENZENE-D5					0.474	6.5	
PENTACHLOROPHENOL	56 U	56 U	56 U	56 U	0.2	2.5	
PHENANTHRENE	11 U	11 U	11 U	11 U	0.971	8	
PHENOL	11 U	11 U	10 J	11 U	1.928	10.3	
PHENOL-D5					1.471	8.3	

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING	ISTD RET TIM
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	CALIBRATION	CAL %D	SHIFT
SAMPLE NUMBER	AR500091E	AR500126E	AR500295E	AR500319E	AR1221877	AR1221877	AR1221878
MATRIX	WATER	WATER	WATER	WATER			
UNITS	UG/L	UG/L	UG/L	UG/L	RRF	%	AREA
ENV PROBLEM NO	10	10	10	10			
PYRENE	11 U	11 U	11 U	11 U	1.489	27.8	
TERPHENYL-D14					0.819	31.3	
1,2-DICHLOROBENZENE	11 U	11 U	11 U	11 U	1.431	8.9	
1,2,4-TRICHLOROBENZENE	11 U	11 U	11 U	11 U	0.401	7	
1,3-DICHLOROBENZENE	11 U	11 U	11 U	11 U	1.56	1.6	
1,4-DICHLOROBENZENE	11 U	11 U	11 U	11 U	1.565	0.3	
2-CHLORONAPHTHALENE	11 U	11 U	11 U	11 U	1.214	6.8	
2-CHLOROPHENOL	11 U	11 U	11 U	11 U	1.279	3.5	
2-FLUOROBIPHENYL					1.329	3.8	
2-FLUOROPHENOL					1.06	14.9	
2-METHYLNAPHTHALENE	11 U	11 U	11 U	11 U	0.713	2	
2-METHYLPHENOL	11 U	11 U	11 U	11 U	1.092	13.2	
2-NITROANILINE	56 U	56 U	56 U	56 U	0.51	14.2	
2-NITROPHENOL	11 U	11 U	11 U	11 U	0.241	6.6	
2,4-DICHLOROPHENOL	11 U	11 U	11 U	11 U	0.374	0.2	
2,4-DIMETHYLPHENOL	11 U	11 U	11 U	11 U	0.426	2.3	
2,4-DINITROPHENOL	56 U	56 U	56 U	56 U	0.201	19.1	
2,4-DINITROTOLUENE	11 U	11 U	11 U	11 U	0.5	20.7	
2,4,5-TRICHLOROPHENOL	56 U	56 U	56 U	56 U	0.442	4.6	
2,4,6-TRIBROMOPHENOL					0.156	45.5	
2,4,6-TRICHLOROPHENOL	11 U	11 U	11 U	11 U	0.461	4.2	
2,6-DINITROTOLUENE	11 U	11 U	11 U	11 U	0.378	5.2	
3-NITROANILINE	56 U	56 U	56 U	56 U	0.432	7.1	
3,3'-DICHLOROBENZIDINE	22 U	22 U	22 U	22 U	0.115	32.8	
4-BROMOPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U	0.258	30.2	
4-CHLORO-3-METHYLPHENOL	11 U	11 U	11 U	11 U	0.42	12.4	
4-CHLOROANILINE	11 U	11 U	11 U	11 U	0.12	75.6	
4-CHLOROPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U	0.572	2.5	
4-METHYLPHENOL	11 U	11 U	11 U	11 U	1.194	12.8	
4-NITROANILINE	56 U	56 U	56 U	56 U	0.148	10.1	
4-NITROPHENOL	56 U	56 U	56 U	56 U	0.183	105.1	
4,6-DINITRO-2-METHYLPHENOL	56 U	56 U	56 U	56 U	0.158	4	
SURR 1(NBZ) %RECOVERY	34 *	25 *	48	32 *			
SURR 2(FBP) %RECOVERY	45	31 *	54	35 *			
SURR 3(TPH) %RECOVERY	17 *	18 *	24 *	26 *			
SURR 4(PHL) %RECOVERY	22	11	21	18			
SURR 5(2FP) %RECOVERY	23	11 *	17 *	18 *			
SURR 6(TBP) %RECOVERY	43	35	84	61			

TABLE D.7.19 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21B DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	CONTINUING	CONTINUING	ISTD RET TIM
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	CALIBRATION	CAL %D	SHIFT
SAMPLE NUMBER	AR500091E	AR500126E	AR500295E	AR500319E	AR1221877	AR1221877	AR1221878
MATRIX	WATER	WATER	WATER	WATER			
UNITS	UG/L	UG/L	UG/L	UG/L	RRF	%	AREA
ENV PROBLEM NO	10	10	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							
INTERNAL STD AREA(ANT)	7640000	7030000	8460000	8860000			9050000
INTERNAL STD AREA(CRY)	7500000	6940000	9250000	9730000			9780000
INTERNAL STD AREA(DCB)	4000000	3320000	4070000	4690000			4530000
INTERNAL STD AREA(NPT)	1E+07	1E+07	1E+07	1E+07			2E+07
INTERNAL STD AREA(PHN)	1E+07	1E+07	1E+07	1E+07			1E+07
INTERNAL STD AREA(PRY)	5450000	5320000	7290000	7270000			7180000
DILUTION FACTOR	1.1	1.1	1.1	1.1			
ACTUAL(ALLOWED) EXTRACT TIME	3(7 D)	3(7 D)	3(7 D)	3(7 D)			

AREA						QA
LOCATION	BLDG 108	BLDG 108	NPDESOUTF2	RET. TANKS	RET. TANKS	TUNED
TYPE OF LOCATION	SILT	SILT	SEEP	WASTEWATER	WASTEWATER	CALIBRATION
SAMPLE NUMBER	AR508011E	AR508022E	AR307030E	AR500013E	AR500024E	AR1231875
MATRIX	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%
ENV PROBLEM NO	16	16	3	10	10	
ACENAPHTHENE	11 U	2 J	11 U	11 U	11 U	

TABLE D.7.19 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21B

DRAFT DO NOT CITE

AREA					QA
LOCATION	BLDG 108	BLDG 108	NPDESOUTF2	RET. TANKS	RET. TANKS	TUNED
TYPE OF LOCATION	SILT	SILT	SEEP	WASTEWATER	WASTEWATER	CALIBRATION
SAMPLE NUMBER	AR508011E	AR508022E	AR307030E	AR500013E	AR500024E	AR1231875
MATRIX	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%
ENV PROBLEM NO	16	16	3	10	10	
ACENAPHTHYLENE	11 U	11 U	11 U	11 U	11 U	
ANTHRACENE	11 U	11 U	11 U	11 U	11 U	
BENZO(A)ANTHRACENE	11 U	11 U	11 U	11 U	11 U	
BENZO(A)PYRENE	11 U	11 U	11 U	11 U	11 U	
BENZO(B)FLUORANTHENE	11 U	11 U	11 U	11 U	11 U	
BENZO(G,H,I)PERYLENE	11 U	11 U	11 U	11 U	11 U	
BENZO(K)FLUORANTHENE	11 U	11 U	11 U	11 U	11 U	
BENZOIC ACID	56 U	56 U	56 U	56 U	56 U	
BENZYL ALCOHOL	11 U	11 U	11 U	11 U	11 U	
BIS(2-CHLOROETHOXY)METHANE	11 U	11 U	11 U	11 U	11 U	
BIS(2-CHLOROETHYL)ETHER	11 U	11 U	11 U	11 U	11 U	
BIS(2-CHLOROISOPROPYL)ETHER	11 U	11 U	11 U	11 U	11 U	
BIS(2-ETHYLHEXYL)PHTHALATE	2 JB	35 B	13 B	15 B	4 JB	
BUTYLBENZYLPHTHALATE	11 U	11 U	11 U	10 J	11 U	
CHRYSENE	11 U	11 U	11 U	11 U	11 U	
DI-N-BUTYLPHTHALATE	0.7 JB	0.9 JB	11 U	24 B	2 JB	
DI-N-OCTYL PHTHALATE	11 U	2 J	11 U	11 U	11 U	
DIBENZ(A,H)ANTHRACENE	11 U	11 U	11 U	11 U	11 U	
DIBENZOFURAN	11 U	1 J	11 U	11 U	11 U	
DIETHYLPHTHALATE	11 U	11 U	11 U	11 U	2 JB	
DIMETHYLPHTHALATE	11 U	11 U	11 U	11 U	11 U	
FLUORANTHENE	11 U	11 U	11 U	11 U	11 U	
FLUORENE	11 U	11 U	11 U	11 U	11 U	
HEXACHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	
HEXACHLOROBUTADIENE	11 U	11 U	11 U	11 U	11 U	
HEXACHLOROCYCLOPENTADIENE	11 U	11 U	11 U	11 U	11 U	
HEXACHLOROETHANE	11 U	11 U	11 U	11 U	11 U	
INDENO(1,2,3-CD)PYRENE	11 U	11 U	11 U	11 U	11 U	
ISOPHORONE	11 U	11 U	11 U	11 U	11 U	
N-NITROSO-DI-N-PROPYLAMINE	11 U	11 U	11 U	11 U	11 U	
N-NITROSODIPHENYLAMINE	11 U	11 U	11 U	11 U	11 U	
NAPHTHALENE	11 U	2 J	11 U	11 U	11 U	
NITROBENZENE	11 U	11 U	11 U	11 U	11 U	
NITROBENZENE-D5						
PENTACHLOROPHENOL	56 U	56 U	56 U	56 U	56 U	
PHENANTHRENE	11 U	11 U	11 U	11 U	11 U	
PHENOL	11 U	11 U	11 U	11 U	4 J	
PHENOL-D5						
PYRENE	11 U	11 U	11 U	11 U	11 U	

TABLE D.7.19 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21B

DRAFT DO NOT CITE

AREA						QA
LOCATION	BLDG 108	BLDG 108	NPDESOUTF2	RET. TANKS	RET. TANKS	TUNED
TYPE OF LOCATION	SILT	SILT	SEEP	WASTEWATER	WASTEWATER	CALIBRATION
SAMPLE NUMBER	AR508011E	AR508022E	AR307030E	AR500013E	AR500024E	AR1231875
MATRIX	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%
ENV PROBLEM NO	16	16	3	10	10	
TERPHENYL-D14						
1,2-DICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	
1,2,4-TRICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	
1,3-DICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	
1,4-DICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	
2-CHLORONAPHTHALENE	11 U	11 U	11 U	11 U	11 U	
2-CHLOROPHENOL	11 U	11 U	11 U	11 U	11 U	
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	11 U	11 U	11 U	11 U	11 U	
2-METHYLPHENOL	11 U	11 U	11 U	11 U	11 U	
2-NITROANILINE	56 U	56 U	56 U	56 U	56 U	
2-NITROPHENOL	11 U	11 U	11 U	11 U	11 U	
2,4-DICHLOROPHENOL	11 U	11 U	11 U	11 U	11 U	
2,4-DIMETHYLPHENOL	11 U	2 J	11 U	11 U	11 U	
2,4-DINITROPHENOL	56 U	56 U	56 U	56 U	56 U	
2,4-DINITROTOLUENE	11 U	11 U	11 U	11 U	11 U	
2,4,5-TRICHLOROPHENOL	56 U	56 U	56 U	56 U	56 U	
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	11 U	11 U	11 U	11 U	11 U	
2,6-DINITROTOLUENE	11 U	11 U	11 U	11 U	11 U	
3-NITROANILINE	56 U	56 U	56 U	56 U	56 U	
3,3'-DICHLOROBENZIDINE	22 U	22 U	22 U	22 U	22 U	
4-BROMOPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U	11 U	
4-CHLORO-3-METHYLPHENOL	11 U	11 U	11 U	11 U	11 U	
4-CHLOROANILINE	11 U	11 U	11 U	11 U	11 U	
4-CHLOROPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U	11 U	
4-METHYLPHENOL	11 U	11 U	11 U	11 U	5 J	
4-NITROANILINE	56 U	56 U	56 U	56 U	56 U	
4-NITROPHENOL	56 U	56 U	56 U	56 U	56 U	
4,6-DINITRO-2-METHYLPHENOL	56 U	56 U	56 U	56 U	56 U	
SURR 1(NBZ) %RECOVERY	2 *	41	35	35 *	40	
SURR 2(FBP) %RECOVERY	2 *	48	43	45	42 *	
SURR 3(TPH) %RECOVERY	2 *	45	30 *	57	20 *	
SURR 4(PHL) %RECOVERY	0 *	15	21	26	12	
SURR 5(2FP) %RECOVERY	0 *	18 *	27	25	13 *	
SURR 6(TBP) %RECOVERY	0 *	37	52	65	41	

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TABLE D.7.19 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD21B

DRAFT DO NOT CITE

AREA						QA
LOCATION	BLDG 108	BLDG 108	NPDESOUTF2	RET. TANKS	RET. TANKS	TUNED
TYPE OF LOCATION	SILT	SILT	SEEP	WASTEWATER	WASTEWATER	CALIBRATION
SAMPLE NUMBER	AR508011E	AR508022E	AR307030E	AR500013E	AR500024E	AR1231875
MATRIX	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%
ENV PROBLEM NO	16	16	3	10	10	
M/E 68-1						0
M/E 68-2						0
M/E 69						55
M/E 70-1						1.1
M/E 70-2						2
M/E 127						43
M/E 197						0
M/E 198						100
M/E 199						6.3
M/E 275						20
M/E 365						2.2
M/E 441						10
M/E 442						72
M/E 443-1						14
M/E 443-2						19
INTERNAL STD AREA(ANT)	8280000	7520000	2060000 *	3790000 *	5850000	
INTERNAL STD AREA(CRY)	8460000	7700000	2200000 *	3730000 *	6110000	
INTERNAL STD AREA(DCB)	4370000	3810000	1050000 *	1810000 *	2780000	
INTERNAL STD AREA(NPT)	1E+07	1E+07	3480000 *	6280000 *	9780000	
INTERNAL STD AREA(PHN)	1E+07	1E+07	3020000 *	5310000 *	8620000	
INTERNAL STD AREA(PRY)	6040000	5530000	1890000 *	2670000 *	4210000	
DILUTION FACTOR	1.1	1.1	1.1	1.1	1.1	
ACTUAL(ALLOWED) EXTRACT TIME	6(7 D)	6(7 D)	2(7 D)	3(7 D)	3(7 D)	

TABLE D.7.20 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD22

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	PLOT M	PLOT M
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WELL	WELL
SAMPLE NUMBER	AR1222875	AR1222877	AR1222877	AR1222878	SBKDD22	AR419013E	AR419024E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						9	9
ACENAPHTHENE		1.191	2.8		11 U	11 U	11 U
ACENAPHTHYLENE		1.84	6.6		11 U	11 U	11 U
ANTHRACENE		1.055	2.9		11 U	11 U	11 U
BENZO(A)ANTHRACENE		1.165	6.7		11 U	11 U	11 U
BENZO(A)PYRENE		1.089	20.7		11 U	11 U	11 U
BENZO(B)FLUORANTHENE		1.416	3.2		11 U	11 U	11 U
BENZO(G,H,I)PERYLENE		0.817	34.7		11 U	11 U	11 U
BENZO(K)FLUORANTHENE		1.147	16.5		11 U	11 U	11 U
BENZOIC ACID		0.232	8.8		56 U	56 U	56 U
BENZYL ALCOHOL		0.705	22.5		11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE		0.527	4.8		11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER		1.331	5.3		11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER		2.397	0.9		11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE		1.065	30.2		11 U	50	2 J
BUTYLBENZYLPHTHALATE		0.867	40.6		11 U	11 U	11 U
CHRYSENE		1.077	13.5		11 U	11 U	11 U
DI-N-BUTYLPHTHALATE		1.373	44.3		11 U	11 U	11 U
DI-N-OCTYL PHTHALATE		1.953	18.5		11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE		0.712	40.6		11 U	11 U	11 U
DIBENZOFURAN		1.662	2		11 U	11 U	11 U
DIETHYLPHTHALATE		1.431	15		11 U	11 U	11 U
DIMETHYLPHTHALATE		1.547	3.9		11 U	11 U	11 U
FLUORANTHENE		1.044	33.1		11 U	11 U	11 U
FLUORENE		1.233	3.2		11 U	11 U	11 U
HEXACHLOROBENZENE		0.313	32.6		11 U	11 U	11 U
HEXACHLOROBUTADIENE		0.237	14.3		11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE		0.244	51.8		11 U	11 U	11 U
HEXACHLOROETHANE		0.665	7.6		11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE		0.827	37.7		11 U	11 U	11 U
ISOPHORONE		0.953	6.2		11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE		1.043	8.5		11 U	11 U	11 U
N-NITROSODIPHENYLAMINE		0.452	21.8		11 U	11 U	11 U
NAPHTHALENE		1.135	17.1		11 U	11 U	11 U
NITROBENZENE		0.465	4		11 U	11 U	11 U
NITROBENZENE-D5		0.434	2.4				
PENTACHLOROPHENOL		0.181	11.5		56 U	56 U	56 U
PHENANTHRENE		1.045	1		11 U	11 U	11 U
PHENOL		1.733	0.9		11 U	11 U	11 U
PHENOL-D5		1.286	19.8				

TABLE D.7.20 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD22 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	PLOT M	PLOT M
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	SHIFT	BLANK	WELL	WELL
SAMPLE NUMBER	AR1222875	AR1222877	AR1222877	AR1222878	SBKDD22	AR419013E	AR419024E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						9	9
PYRENE		1.628	21		11 U	11 U	11 U
TERPHENYL-D14		0.871	27				
1,2-DICHLOROBENZENE		1.463	6.8		11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE		0.376	12.9		11 U	11 U	11 U
1,3-DICHLOROBENZENE		1.511	4.7		11 U	11 U	11 U
1,4-DICHLOROBENZENE		1.593	1.5		11 U	11 U	11 U
2-CHLORONAPHTHALENE		1.189	8.7		11 U	11 U	11 U
2-CHLOROPHENOL		1.25	1.2		11 U	11 U	11 U
2-FLUOROBIPHENYL		1.197	13.3				
2-FLUOROPHENOL		0.984	21.1				
2-METHYLNAPHTHALENE		0.704	3.3		11 U	11 U	11 U
2-METHYLPHENOL		1.072	14.8		11 U	11 U	11 U
2-NITROANILINE		0.471	5.5		56 U	56 U	56 U
2-NITROPHENOL		0.22	14.9		11 U	11 U	11 U
2,4-DICHLOROPHENOL		0.337	9.6		11 U	11 U	11 U
2,4-DIMETHYLPHENOL		0.394	5.4		11 U	11 U	11 U
2,4-DINITROPHENOL		0.15	10.9		56 U	56 U	56 U
2,4-DINITROTOLUENE		0.483	16.6		11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL		0.424	8.5		56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL		0.155	46				
2,4,6-TRICHLOROPHENOL		0.423	12.1		11 U	11 U	11 U
2,6-DINITROTOLUENE		0.377	5.6		11 U	11 U	11 U
3-NITROANILINE		0.406	12.8		56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE		0.13	23.8		22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER		0.261	29.6		11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL		0.422	12.7		11 U	11 U	11 U
4-CHLOROANILINE		0.126	74.2		11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER		0.604	2.8		11 U	11 U	11 U
4-METHYLPHENOL		1.162	15.1		11 U	11 U	11 U
4-NITROANILINE		0.12	27		56 U	56 U	56 U
4-NITROPHENOL		0.148	66.2		56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL		0.135	18.1		56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY					20 *	40	0 *
SURR 2(FBP) %RECOVERY					30 *	46	5 *
SURR 3(TPH) %RECOVERY					49	30 *	2 *
SURR 4(PHL) %RECOVERY					33	39	0 *
SURR 5(2FP) %RECOVERY					34	47	0 *
SURR 6(TBP) %RECOVERY					9 *	44	0 *

TABLE D.7.20 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD22

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	PLOT M	PLOT M
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WELL	WELL
SAMPLE NUMBER	AR1222875	AR1222877	AR1222877	AR1222878	SBKDD22	AR419013E	AR419024E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						9	9
M/E 51	48						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	57						
M/E 70-1	0						
M/E 70-2	0						
M/E 127	43						
M/E 197	0						
M/E 198	100						
M/E 199	6.2						
M/E 275	22						
M/E 365	2.4						
M/E 441	12						
M/E 442	80						
M/E 443-1	16						
M/E 443-2	19						
INTERNAL STD AREA(ANT)				4700000	6710000	3080000	4900000
INTERNAL STD AREA(CRY)				4730000	6450000	2850000	5080000
INTERNAL STD AREA(DCB)				2420000	3360000	1450000	2410000
INTERNAL STD AREA(NPT)				8040000	1E+07	5150000	8030000
INTERNAL STD AREA(PHN)				7500000	1E+07	4470000	7500000
INTERNAL STD AREA(PRY)				3710000	4160000	2260000	3520000
DILUTION FACTOR					1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME						10(7 D)	9(7 D)

AREA				QA	QA	QA	QA
LOCATION	BLDG 108	BLDG 108	B31 TAP WA	MATRIX	MS %	RPD	MATRIX SPIKE
TYPE OF LOCATION	SILT	SILT	WELLS	SPIKE	RECOVERY		DUPLICATE
SAMPLE NUMBER	AR508033E	AR508044E	AR400012E	AR401013E	AR401013E	AR401013E	AR401013E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	%	%	UG/L
ENV PROBLEM NO	16	16	7	7	7	7	7
ACENAPHTHENE	3 J	11 U	11 U	7 JMS	7 *	0	7 J

TABLE D.7.20 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD22 DRAFT DO NOT CITE

AREA				QA	QA	QA	QA
LOCATION	BLDG 108	BLDG 108	B31 TAP WA	MATRIX	MS %	RPD	MATRIX SPIKE
TYPE OF LOCATION	SILT	SILT	WELLS	SPIKE	RECOVERY		DUPLICATE
SAMPLE NUMBER	AR508033E	AR508044E	AR400012E	AR401013E	AR401013E	AR401013E	AR401013E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	%	%	UG/L
ENV PROBLEM NO	16	16	7	7	7	7	7
ACENAPHTHYLENE	11 U	11 U	11 U	11 U			11 U
ANTHRACENE	11 U	11 U	11 U	11 U			11 U
BENZO(A)ANTHRACENE	11 U	11 U	11 U	11 U			11 U
BENZO(A)PYRENE	11 U	11 U	11 U	11 U			11 U
BENZO(B)FLUORANTHENE	11 U	11 U	11 U	11 U			11 U
BENZO(G,H,I)PERYLENE	11 U	11 U	11 U	11 U			11 U
BENZO(K)FLUORANTHENE	11 U	11 U	11 U	11 U			11 U
BENZOIC ACID	56 U	56 U	56 U	56 U			56 U
BENZYL ALCOHOL	11 U	11 U	11 U	11 U			11 U
BIS(2-CHLOROETHOXY)METHANE	11 U	11 U	11 U	11 U			11 U
BIS(2-CHLOROETHYL)ETHER	11 U	11 U	11 U	11 U			11 U
BIS(2-CHLOROISOPROPYL)ETHER	11 U	11 U	11 U	11 U			11 U
BIS(2-ETHYLHEXYL)PHTHALATE	2 J	2 J	2 J	2 J			9 J
BUTYLBENZYLPHTHALATE	11 U	11 U	11 U	11 U			11 U
CHRYSENE	11 U	11 U	11 U	11 U			11 U
DI-N-BUTYLPHTHALATE	1 J	0.7 J	0.6 J	0.7 J			0.5 J
DI-N-OCTYL PHTHALATE	11 U	11 U	11 U	11 U			11 U
DIBENZ(A,H)ANTHRACENE	11 U	11 U	11 U	11 U			11 U
DIBENZOFURAN	11 U	11 U	11 U	11 U			11 U
DIETHYLPHTHALATE	1 J	1 J	0.8 J	0.8 J			11 U
DIMETHYLPHTHALATE	11 U	11 U	11 U	11 U			11 U
FLUORANTHENE	11 U	11 U	11 U	11 U			11 U
FLUORENE	11 U	11 U	11 U	11 U			11 U
HEXACHLOROBENZENE	11 U	11 U	11 U	11 U			11 U
HEXACHLOROBUTADIENE	11 U	11 U	11 U	11 U			11 U
HEXACHLOROCYCLOPENTADIENE	11 U	11 U	11 U	11 U			11 U
HEXACHLOROETHANE	11 U	11 U	11 U	11 U			11 U
INDENO(1,2,3-CD)PYRENE	11 U	11 U	11 U	11 U			11 U
ISOPHORONE	11 U	11 U	11 U	32			33
N-NITROSO-DI-N-PROPYLAMINE	11 U	11 U	11 U	7 JMS	6 *	15	8 JMS
N-NITROSODIPHENYLAMINE	11 U	11 U	11 U	11 U			11 U
NAPHTHALENE	11 U	11 U	11 U	11 U			11 U
NITROBENZENE	11 U	11 U	11 U	11 U			11 U
NITROBENZENE-D5							
PENTACHLOROPHENOL	56 U	56 U	56 U	56 UMS	27	0	56 UMS
PHENANTHRENE	11 U	11 U	11 U	11 U			11 U
PHENOL	11 U	11 U	11 U	2 JMS	1 *	150 *	14 MS
PHENOL-D5							
PYRENE	11 U	11 U	11 U	7 JMS	5 *	0	7 JMS

TABLE D.7.20 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD22

DRAFT DO NOT CITE

AREA				QA	QA	QA	QA
LOCATION	BLDG 108	BLDG 108	B31 TAP WA	MATRIX	MS %	RPD	MATRIX SPIKE
TYPE OF LOCATION	SILT	SILT	WELLS	SPIKE	RECOVERY		DUPLICATE
SAMPLE NUMBER	AR508033E	AR508044E	AR400012E	AR401013E	AR401013E	AR401013E	AR401013E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	%	%	UG/L
ENV PROBLEM NO	16	16	7	7	7	7	7
TERPHENYL-D14							
1,2-DICHLOROBENZENE	11 U	11 U	11 U	11 U			11 U
1,2,4-TRICHLOROBENZENE	11 U	11 U	11 U	10 JMS	7 *	0	10 JMS
1,3-DICHLOROBENZENE	11 U	11 U	11 U	11 U			11 U
1,4-DICHLOROBENZENE	11 U	11 U	11 U	6 JMS	6 *	15	7 JMS
2-CHLORONAPHTHALENE	11 U	11 U	11 U	11 U			11 U
2-CHLOROPHENOL	11 U	11 U	11 U	44 MS	18 *	117 *	180 MS
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	11 U	11 U	11 U	11 U			11 U
2-METHYLPHENOL	11 U	11 U	11 U	11 U			11 U
2-NITROANILINE	56 U	56 U	56 U	56 U			56 U
2-NITROPHENOL	11 U	11 U	11 U	11 U			11 U
2,4-DICHLOROPHENOL	11 U	11 U	11 U	11 U			11 U
2,4-DIMETHYLPHENOL	11 U	11 U	11 U	11 U			11 U
2,4-DINITROPHENOL	56 U	56 U	56 U	56 U			56 U
2,4-DINITROTOLUENE	11 U	11 U	11 U	11 UMS	7 *	142 *	4 JMS
2,4,5-TRICHLOROPHENOL	56 U	56 U	56 U	56 U			56 U
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	11 U	11 U	11 U	11 U			11 U
2,6-DINITROTOLUENE	11 U	11 U	11 U	11 U			11 U
3-NITROANILINE	56 U	56 U	56 U	56 U			56 U
3,3'-DICHLOROBENZIDINE	22 U	22 U	22 U	22 U			22 U
4-BROMOPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U			11 U
4-CHLORO-3-METHYLPHENOL	11 U	11 U	11 U	2 JMS	1 *	133 *	10 JMS
4-CHLOROANILINE	11 U	11 U	11 U	11 U			11 U
4-CHLOROPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U			11 U
4-METHYLPHENOL	11 U	11 U	11 U	11 U			11 U
4-NITROANILINE	56 U	56 U	56 U	56 U			56 U
4-NITROPHENOL	56 U	56 U	56 U	56 UMS	23	0	56 UMS
4,6-DINITRO-2-METHYLPHENOL	56 U	56 U	56 U	56 U			56 U
SURR 1(NBZ) %RECOVERY	35	16 *	40	64			65
SURR 2(FBP) %RECOVERY	41 *	25 *	45	62			66
SURR 3(TPH) %RECOVERY	64	61	48	50			47
SURR 4(PHL) %RECOVERY	0 *	0 *	19	15			70
SURR 5(2FP) %RECOVERY	0 *	0 *	25	12 *			69
SURR 6(TBP) %RECOVERY	0 *	0 *	33	15			69
M/E 51							

TABLE D.7.20 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD22 DRAFT DO NOT CITE

AREA				QA	QA	QA	QA
LOCATION	BLDG 108	BLDG 108	B31 TAP WA	MATRIX	MS %	RPD	MATRIX SPIKE
TYPE OF LOCATION	SILT	SILT	WELLS	SPIKE	RECOVERY		DUPLICATE
SAMPLE NUMBER	AR508033E	AR508044E	AR400012E	AR401013E	AR401013E	AR401013E	AR401013E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	%	%	UG/L
ENV PROBLEM NO	16	16	7	7	7	7	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)	8560000	7680000	8830000	8000000			8980000
INTERNAL STD AREA(CRY)	8490000	8080000	9120000	7730000			9460000
INTERNAL STD AREA(DCB)	3840000	3680000	4180000	4000000			4070000
INTERNAL STD AREA(NPT)	1E+07	1E+07	2E+07	1E+07			1E+07
INTERNAL STD AREA(PHN)	1E+07	1E+07	1E+07	1E+07			1E+07
INTERNAL STD AREA(PRY)	5520000	5900000	5820000	5950000			6970000
DILUTION FACTOR	1.1	1.1	1.1	1.1			1.1
ACTUAL(ALLOWED) EXTRACT TIME	9(7 D)	9(7 D)	5(7 D)	5(7 D)			5(7 D)

AREA	QA						
LOCATION	MSD %	B32 TAP WA					
TYPE OF LOCATION	RECOVERY	WELLS					
SAMPLE NUMBER	AR401013E	AR401013E					
MATRIX	WATER	WATER					
UNITS	%	UG/L					
ENV PROBLEM NO	7	7					
ACENAPHTHENE	7 *	11 U					
ACENAPHTHYLENE		11 U					

TABLE D.7.20 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD22

DRAFT DO NOT CITE

AREA	QA		
LOCATION	MSD % RECOVERY	B32 TAP WA WELLS	
TYPE OF LOCATION	AR401013E	AR401013E	
SAMPLE NUMBER	WATER	WATER	
MATRIX	%	UG/L	
UNITS	7	7	
ENV PROBLEM NO			
ANTHRACENE		11 U	
BENZO(A)ANTHRACENE		11 U	
BENZO(A)PYRENE		11 U	
BENZO(B)FLUORANTHENE		11 U	
BENZO(G,H,I)PERYLENE		11 U	
BENZO(K)FLUORANTHENE		11 U	
BENZOIC ACID		56 U	
BENZYL ALCOHOL		11 U	
BIS(2-CHLOROETHOXY)METHANE		11 U	
BIS(2-CHLOROETHYL)ETHER		11 U	
BIS(2-CHLOROISOPROPYL)ETHER		11 U	
BIS(2-ETHYLHEXYL)PHTHALATE		2 J	
BUTYLBENZYLPHTHALATE		11 U	
CHRYSENE		11 U	
DI-N-BUTYLPHTHALATE		0.6 J	
DI-N-OCTYL PHTHALATE		11 U	
DIBENZ(A,H)ANTHRACENE		11 U	
DIBENZOFURAN		11 U	
DIETHYLPHTHALATE		1 J	
DIMETHYLPHTHALATE		11 U	
FLUORANTHENE		11 U	
FLUORENE		11 U	
HEXACHLOROBENZENE		11 U	
HEXACHLOROBUTADIENE		11 U	
HEXACHLOROCYCLOPENTADIENE		11 U	
HEXACHLOROETHANE		11 U	
INDENO(1,2,3-CD)PYRENE		11 U	
ISOPHORONE		11 U	
N-NITROSO-DI-N-PROPYLAMINE	7 *	11 U	
N-NITROSODIPHENYLAMINE		11 U	
NAPHTHALENE		11 U	
NITROBENZENE		11 U	
NITROBENZENE-D5		11 U	
PENTACHLOROPHENOL	27	56 U	
PHENANTHRENE		11 U	
PHENOL	7 *	11 U	
PHENOL-D5			
PYRENE	5 *	11 U	
TERPHENYL-D14			

TABLE D.7.20 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD22 DRAFT DO NOT CITE

AREA	QA						
LOCATION	MSD %	B32 TAP WA					
TYPE OF LOCATION	RECOVERY	WELLS					
SAMPLE NUMBER	AR401013E	AR401013E					
MATRIX	WATER	WATER					
UNITS	%	UG/L					
ENV PROBLEM NO	7	7					
1,2-DICHLOROBENZENE		11 U					
1,2,4-TRICHLOROBENZENE	7 *	11 U					
1,3-DICHLOROBENZENE		11 U					
1,4-DICHLOROBENZENE	7 *	11 U					
2-CHLORONAPHTHALENE		11 U					
2-CHLOROPHENOL	69	11 U					
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE		11 U					
2-METHYLPHENOL		11 U					
2-NITROANILINE		56 U					
2-NITROPHENOL		11 U					
2,4-DICHLOROPHENOL		11 U					
2,4-DIMETHYLPHENOL		11 U					
2,4-DINITROPHENOL		56 U					
2,4-DINITROTOLUENE	2 *	11 U					
2,4,5-TRICHLOROPHENOL		56 U					
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL		11 U					
2,6-DINITROTOLUENE		11 U					
3-NITROANILINE		56 U					
3,3'-DICHLOROBENZIDINE		22 U					
4-BROMOPHENYL-PHENYLETHER		11 U					
4-CHLORO-3-METHYLPHENOL	5 *	11 U					
4-CHLOROANILINE		11 U					
4-CHLOROPHENYL-PHENYLETHER		11 U					
4-METHYLPHENOL		11 U					
4-NITROANILINE		56 U					
4-NITROPHENOL	23	56 U					
4,6-DINITRO-2-METHYLPHENOL		56 U					
SURR 1(NBZ) %RECOVERY		53					
SURR 2(FBP) %RECOVERY		64					
SURR 3(TPH) %RECOVERY		35					
SURR 4(PHL) %RECOVERY		52					
SURR 5(2FP) %RECOVERY		50					
SURR 6(TBP) %RECOVERY		48					

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TABLE D.7.20 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD22

DRAFT DO NOT CITE

AREA	QA						
LOCATION	MSD %	832 TAP WA					
TYPE OF LOCATION	RECOVERY	WELLS					
SAMPLE NUMBER	AR401013E	AR401013E					
MATRIX	WATER	WATER					
UNITS	%	UG/L					
ENV PROBLEM NO	7	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)		8990000					
INTERNAL STD AREA(CRY)		8940000					
INTERNAL STD AREA(DCB)		4210000					
INTERNAL STD AREA(NPT)		2E+07					
INTERNAL STD AREA(PHN)		1E+07					
INTERNAL STD AREA(PRY)		6970000					
DILUTION FACTOR		1.1					
ACTUAL(ALLOWED) EXTRACT TIME		5(7 D)					

TABLE D.7.21 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD23 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	PLOT M	PLOT M	B32 TAP WA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	WELL	WELL	WELLS
SAMPLE NUMBER	AR1223875	AR1223877	AR1223877	AR1223878	AR412016E	AR412027E	AR401013E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					9	9	7
ACENAPHTHENE		1.156	5.6		11 U	11 U	11 U
ACENAPHTHYLENE		1.66	3.8		11 U	11 U	11 U
ANTHRACENE		1.032	0.8		11 U	11 U	11 U
BENZO(A)ANTHRACENE		1.193	4.5		11 U	11 U	11 U
BENZO(A)PYRENE		1.121	18.4		11 U	11 U	11 U
BENZO(B)FLUORANTHENE		1.377	8.3		11 U	11 U	11 U
BENZO(G,H,I)PERYLENE		0.738	41.1		11 U	11 U	11 U
BENZO(K)FLUORANTHENE		1.377	0.3		11 U	11 U	11 U
BENZOIC ACID		0.25	1.7		56 U	56 U	56 U
BENZYL ALCOHOL		0.736	19.1		11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE		0.551	9.5		11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER		1.421	1.1		11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER		2.589	7		11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE		0.992	21.3		8 J	8 J	1 J
BUTYLBENZYLPHTHALATE		0.855	38.7		11 U	11 U	11 U
CHRYSENE		1.099	11.8		11 U	11 U	11 U
DI-N-BUTYLPHTHALATE		1.214	27.7		11 U	11 U	11 U
DI-N-OCTYL PHTHALATE		1.902	15.4		11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE		0.724	39.6		11 U	11 U	11 U
DIBENZOFURAN		1.501	7.9		11 U	11 U	11 U
DIETHYLPHTHALATE		1.405	12.9		11 U	11 U	11 U
DIMETHYLPHTHALATE		1.459	9.4		11 U	11 U	11 U
FLUORANTHENE		1.093	39.4		11 U	11 U	11 U
FLUORENE		1.313	3.1		11 U	11 U	11 U
HEXACHLOROBENZENE		0.326	29.7		11 U	11 U	11 U
HEXACHLOROBUTADIENE		0.233	15.5		11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE		0.288	43.2		11 U	11 U	11 U
HEXACHLOROETHANE		0.698	2.9		11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE		0.937	29.4		11 U	11 U	11 U
ISOPHORONE		1.066	18.8		11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE		1.159	1.7		11 U	11 U	11 U
N-NITROSODIPHENYLAMINE		0.477	17.5		11 U	11 U	11 U
NAPHTHALENE		1.004	3.7		11 U	11 U	11 U
NITROBENZENE		0.536	10.8		11 U	11 U	11 U
NITROBENZENE-D5		0.473	6.1				
PENTACHLOROPHENOL		0.181	11.7		56 U	56 U	56 U
PHENANTHRENE		1	5.2		11 U	11 U	11 U
PHENOL		1.764	0.9		11 U	11 U	11 U
PHENOL-D5		1.441	10.1				

TABLE D.7.21 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD23

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION					PLOT M	PLOT M	B32 TAP HA
TYPE OF LOCATION					WELL	WELL	WELLS
SAMPLE NUMBER	TUNED CALIBRATION AR1223875	CONTINUING CALIBRATION AR1223877	CONTINUING CAL %D AR1223877	ISTD RET TIM SHIFT AR1223878	AR412016E	AR412027E	AR401013E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					9	9	7
PYRENE		1.681	18.4		11 U	11 U	11 U
TERPHENYL-D14		0.906	24.1				
1,2-DICHLOROBENZENE		1.375	12.4		11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE		0.414	4		11 U	11 U	11 U
1,3-DICHLOROBENZENE		1.513	4.6		11 U	11 U	11 U
1,4-DICHLOROBENZENE		1.565	0.3		11 U	11 U	11 U
2-CHLORONAPHTHALENE		1.183	9.1		11 U	11 U	11 U
2-CHLOROPHENOL		1.278	3.5		11 U	11 U	11 U
2-FLUOROBIPHENYL		1.18	14.6		11 U	11 U	11 U
2-FLUOROPHENOL		1.069	14.2				
2-METHYLNAPHTHALENE		0.725	0.3		11 U	11 U	11 U
2-METHYLPHENOL		1.06	15.8		11 U	11 U	11 U
2-NITROANILINE		0.499	11.6		56 U	56 U	56 U
2-NITROPHENOL		0.265	2.5		11 U	11 U	11 U
2,4-DICHLOROPHENOL		0.384	3		11 U	11 U	11 U
2,4-DIMETHYLPHENOL		0.444	6.7		11 U	11 U	11 U
2,4-DINITROPHENOL		0.143	15.4		56 U	56 U	56 U
2,4-DINITROTOLUENE		0.458	10.7		11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL		0.416	10.2		56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL		0.166	42.1				
2,4,6-TRICHLOROPHENOL		0.458	4.8		11 U	11 U	11 U
2,6-DINITROTOLUENE		0.346	13.3		11 U	11 U	11 U
3-NITROANILINE		0.45	3.4		56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE		0.114	33.3		22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER		0.26	29.8		11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL		0.415	11.1		11 U	11 U	11 U
4-CHLOROANILINE		0.273	44.3		11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER		0.57	3		11 U	11 U	11 U
4-METHYLPHENOL		1.134	17.1		11 U	11 U	11 U
4-NITROANILINE		0.166	1.1		11 U	11 U	11 U
4-NITROPHENOL		0.179	101.1		56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL		0.155	6.2		56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY					37	3 *	29 *
SURR 2(FBP) %RECOVERY					43	6 *	38 *
SURR 3(TPH) %RECOVERY					20 *	3 *	55
SURR 4(PHL) %RECOVERY					22	1 *	10
SURR 5(2FP) %RECOVERY					25	1 *	10 *
SURR 6(TBP) %RECOVERY					26	0 *	32

TABLE D.7.21 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD23

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	PLOT M	PLOT M	B32 TAP WA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	WELL	WELL	WELLS
SAMPLE NUMBER	AR1223875	AR1223877	AR1223877	AR1223878	AR412016E	AR412027E	AR401013E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					9	9	7
M/E 51	55						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	67						
M/E 70-1	0.9						
M/E 70-2	1.3						
M/E 127	47						
M/E 197	0						
M/E 198	100						
M/E 199	6.4						
M/E 275	20						
M/E 365	1.8						
M/E 441	8.4						
M/E 442	56						
M/E 443-1	11						
M/E 443-2	20						
INTERNAL STD AREA(ANT)				8790000	9100000	7360000	7760000
INTERNAL STD AREA(CRY)				8120000	9580000	6990000	7360000
INTERNAL STD AREA(DCB)				4510000	4470000	3540000	3620000
INTERNAL STD AREA(NPT)				1E+07	2E+07	1E+07	1E+07
INTERNAL STD AREA(PHN)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PRY)				5600000	6360000	4620000	4540000
DILUTION FACTOR					1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME					11(7 D)	11(7 D)	5(7 D)

AREA							
LOCATION	B163 TAP W	B264 TAP W	NPDESOUTF1				
TYPE OF LOCATION	WELLS	WELLS	EFFLUENT				
SAMPLE NUMBER	AR402014E	AR403015E	AR300044A				
MATRIX	WATER	WATER	WATER				
UNITS	UG/L	UG/L	UG/L				
ENV PROBLEM NO	7	7	1				
ACENAPHTHENE	11 U	11 U	11 U				

TABLE D.7.21 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD23

DRAFT DO NOT CITE

AREA

LOCATION	B163 TAP W	B264 TAP W	NPDESOUTF1
TYPE OF LOCATION	WELLS	WELLS	EFFLUENT
SAMPLE NUMBER	AR402014E	AR403015E	AR300044A
MATRIX	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L
ENV PROBLEM NO	7	7	1
ACENAPHTHYLENE	11 U	11 U	11 U
ANTHRACENE	11 U	11 U	11 U
BENZO(A)ANTHRACENE	11 U	11 U	11 U
BENZO(A)PYRENE	11 U	11 U	11 U
BENZO(B)FLUORANTHENE	11 U	11 U	11 U
BENZO(G,H,I)PERYLENE	11 U	11 U	11 U
BENZO(K)FLUORANTHENE	11 U	11 U	11 U
BENZOIC ACID	56 U	56 U	56 U
BENZYL ALCOHOL	11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE	11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER	11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER	11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE	3 J	1 J	11 J
BUTYLBENZYLPHTHALATE	11 U	11 U	11 U
CHRYSENE	11 U	11 U	11 U
DI-N-BUTYLPHTHALATE	11 U	11 U	0.7 J
DI-N-OCTYL PHTHALATE	11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE	11 U	11 U	11 U
DIBENZOFURAN	11 U	11 U	11 U
DIETHYLPHTHALATE	11 U	11 U	0.8 J
DIMETHYLPHTHALATE	11 U	11 U	11 U
FLUORANTHENE	11 U	11 U	11 U
FLUORENE	11 U	11 U	11 U
HEXACHLOROBENZENE	11 U	11 U	11 U
HEXACHLOROBUTADIENE	11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE	11 U	11 U	11 U
HEXACHLOROETHANE	11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE	11 U	11 U	11 U
ISOPHORONE	11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE	11 U	11 U	11 U
N-NITROSODIPHENYLAMINE	11 U	11 U	11 U
NAPHTHALENE	11 U	11 U	11 U
NITROBENZENE	11 U	11 U	11 U
NITROBENZENE-D5	11 U	11 U	11 U
PENTACHLOROPHENOL	56 U	56 U	56 U
PHENANTHRENE	11 U	11 U	11 U
PHENOL	11 U	11 U	11 U
PHENOL-D5			
PYRENE	11 U	11 U	11 U

TABLE D.7.21 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD23 DRAFT DO NOT CITE

AREA

LOCATION	B163 TAP W	B264 TAP W	NPDESOUTF1
TYPE OF LOCATION	WELLS	WELLS	EFFLUENT
SAMPLE NUMBER	AR402014E	AR403015E	AR300044A
MATRIX	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L
ENV PROBLEM NO	7	7	1
TERPHENYL-D14			
1,2-DICHLOROBENZENE	11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE	11 U	11 U	11 U
1,3-DICHLOROBENZENE	11 U	11 U	11 U
1,4-DICHLOROBENZENE	11 U	11 U	11 U
2-CHLORONAPHTHALENE	11 U	11 U	11 U
2-CHLOROPHENOL	11 U	6 J	11 U
2-FLUOROBIPHENYL			
2-FLUOROPHENOL			
2-METHYLNAPHTHALENE	11 U	11 U	11 U
2-METHYLPHENOL	11 U	11 U	11 U
2-NITROANILINE	56 U	56 U	56 U
2-NITROPHENOL	11 U	11 U	11 U
2,4-DICHLOROPHENOL	11 U	11 U	11 U
2,4-DIMETHYLPHENOL	11 U	11 U	11 U
2,4-DINITROPHENOL	56 U	56 U	56 U
2,4-DINITROTOLUENE	11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL	56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL			
2,4,6-TRICHLOROPHENOL	11 U	11 U	11 U
2,6-DINITROTOLUENE	11 U	11 U	11 U
3-NITROANILINE	56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE	22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER	11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL	11 U	11 U	11 U
4-CHLOROANILINE	11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER	11 U	11 U	11 U
4-METHYLPHENOL	11 U	11 U	11 U
4-NITROANILINE	56 U	56 U	56 U
4-NITROPHENOL	56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL	56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY	37	49	55
SURR 2(FBP) %RECOVERY	48	44	56
SURR 3(TPH) %RECOVERY	36	12 *	18 *
SURR 4(PHL) %RECOVERY	35	21	26
SURR 5(2FP) %RECOVERY	36	42	19 *
SURR 6(TBP) %RECOVERY	48	37	44

M/E 51

TABLE D.7.21 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD23

DRAFT DO NOT CITE

AREA

LOCATION	B163 TAP W	B264 TAP W	NPDESOUTF1
TYPE OF LOCATION	WELLS	WELLS	EFFLUENT
SAMPLE NUMBER	AR402014E	AR403015E	AR300044A
MATRIX	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L
ENV PROBLEM NO	7	7	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)	9050000	9920000	9310000
INTERNAL STD AREA(CRY)	1E+07	1E+07	9750000
INTERNAL STD AREA(DCB)	4350000	4640000	4420000
INTERNAL STD AREA(NPT)	1E+07	1E+07	1E+07
INTERNAL STD AREA(PHN)	1E+07	2E+07	1E+07
INTERNAL STD AREA(PRY)	7210000	7120000	6690000
DILUTION FACTOR	1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME	5(7 D)	5(7 D)	8(7 D)

TABLE D.7.22 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD24 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	NPDES10WTP	NPDES10WTP	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DISCHARGES	DISCHARGES	WASTEWATER
SAMPLE NUMBER	AR1224875	AR1224877	AR1224877	AR1224878	AR311047A	AR311070A	AR500104E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					6	6	10
ACENAPHTHENE		1.187	12.2		11 U	11 U	11 U
ACENAPHTHYLENE		1.831	39.2		11 U	11 U	11 U
ANTHRACENE		1.024	26.4		11 U	11 U	11 U
BENZO(A)ANTHRACENE		1.125	6.4		11 U	11 U	11 U
BENZO(A)PYRENE		1.126	3		11 U	11 U	11 U
BENZO(B)FLUORANTHENE		1.382	4.1		11 U	11 U	11 U
BENZO(G,H,I)PERYLENE		0.76	2.5		11 U	11 U	11 U
BENZO(K)FLUORANTHENE		1.013	3.2		11 U	11 U	11 U
BENZOIC ACID		0.059	76.2		56 U	56 U	56 U
BENZYL ALCOHOL		0.727	6.4		11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE		0.496	0.6		11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER		1.334	17.4		11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER		2.444	1.4		11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE		0.896	5.9		4 J	3 J	6 JB
BUTYLBENZYLPHTHALATE		0.733	2.6		11 U	11 U	11 U
CHRYSENE		1.023	5.5		11 U	11 U	11 U
DI-N-BUTYLPHTHALATE		1.26	29.3		11 U	11 U	3 J
DI-N-OCTYL PHTHALATE		1.721	21.3		11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE		0.757	3		11 U	11 U	11 U
DIBENZOFURAN		1.771	31		11 U	11 U	11 U
DIETHYLPHTHALATE		1.455	35.3		11 U	11 U	3 JB
DIMETHYLPHTHALATE		1.535	7.3		11 U	11 U	11 U
FLUORANTHENE		1.118	25.3		11 U	11 U	11 U
FLUORENE		1.26	11.7		11 U	11 U	11 U
HEXACHLOROBENZENE		0.382	15.9		11 U	11 U	11 U
HEXACHLOROBUTADIENE		0.272	14.9		11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE		0.364	20.1		11 U	11 U	11 U
HEXACHLOROETHANE		0.653	4.4		11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE		0.855	3.4		11 U	11 U	11 U
ISOPHORONE		0.894	2.5		11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE		1.136	5.1		11 U	11 U	11 U
N-NITROSODIPHENYLAMINE		0.414	8.7		11 U	11 U	11 U
NAPHTHALENE		1.018	19.6		11 U	11 U	30
NITROBENZENE		0.483	5.8		11 U	11 U	11 U
NITROBENZENE-D5		0.443	4.6				
PENTACHLOROPHENOL		0.223	13.6		56 U	56 U	56 U
PHENANTHRENE		1.062	24.2		11 U	11 U	11 U
PHENOL		1.441	13.1		11 U	11 U	110
PHENOL-D5		1.295	6.3				

TABLE D.7.22 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD24

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	NPDES10WTP	NPDES10WTP	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DISCHARGES	DISCHARGES	WASTEWATER
SAMPLE NUMBER	AR1224875	AR1224877	AR1224877	AR1224878	AR311047A	AR311070A	AR500104E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					6	6	10
PYRENE		1.559	18.4		11 U	11 U	11 U
TERPHENYL-D14		0.885	11.4				
1,2-DICHLOROBENZENE		1.339	7.8		11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE		0.402	0.1		11 U	11 U	11 U
1,3-DICHLOROBENZENE		1.479	6.7		11 U	11 U	11 U
1,4-DICHLOROBENZENE		1.356	2.4		11 U	11 U	11 U
2-CHLORONAPHTHALENE		1.227	10.5		11 U	11 U	1 J
2-CHLOROPHENOL		1.189	10.4		11 U	11 U	11 U
2-FLUOROBIPHENYL		1.327	19.3				
2-FLUOROPHENOL		0.9	9.1				
2-METHYLNAPHTHALENE		0.672	8.9		11 U	11 U	11 U
2-METHYLPHENOL		0.935	8.9		11 U	11 U	13
2-NITROANILINE		0.45	5.4		56 U	56 U	56 U
2-NITROPHENOL		0.225	4.4		11 U	11 U	11 U
2,4-DICHLOROPHENOL		0.359	6.1		11 U	11 U	11 U
2,4-DIMETHYLPHENOL		0.375	2.6		11 U	11 U	11 U
2,4-DINITROPHENOL		0.177	8.8		56 U	56 U	56 U
2,4-DINITROTOLUENE		0.519	6.7		11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL		0.444	0		56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL		0.198	4.8				
2,4,6-TRICHLOROPHENOL		0.481	6		11 U	11 U	11 U
2,6-DINITROTOLUENE		0.353	3.6		11 U	11 U	11 U
3-NITROANILINE		0.051	88.1		56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE		0.111	5.8		22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER		0.287	5		11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL		0.345	9.6		11 U	11 U	11 U
4-CHLOROANILINE		0.195	14.7		11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER		0.623	10		11 U	11 U	11 U
4-METHYLPHENOL		1.003	6.5		11 U	11 U	12
4-NITROANILINE		0.131	2		56 U	56 U	56 U
4-NITROPHENOL		0.171	14.9		56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL		0.135	19.4		56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY					54	58	41
SURR 2(FBP) %RECOVERY					59	73	50
SURR 3(TPH) %RECOVERY					14 *	68	30 *
SURR 4(PHL) %RECOVERY					49	25	61
SURR 5(2FP) %RECOVERY					53	28	61
SURR 6(TBP) %RECOVERY					69	55	52

TABLE D.7.22 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD24 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	NPDES10WTP	NPDES10WTP	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DISCHARGES	DISCHARGES	WASTEWATER
SAMPLE NUMBER	AR1224875	AR1224877	AR1224877	AR1224878	AR311047A	AR311070A	AR500104E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					6	6	10
M/E 51	59						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	68						
M/E 70-1	0.7						
M/E 70-2	1.1						
M/E 127	46						
M/E 197	0						
M/E 198	100						
M/E 199	6.2						
M/E 275	22						
M/E 365	2.6						
M/E 441	10						
M/E 442	65						
M/E 443-1	12						
M/E 443-2	19						
INTERNAL STD AREA(ANT)				6110000	6780000	6770000	6720000
INTERNAL STD AREA(CRY)				7380000	8900000	9630000	8440000
INTERNAL STD AREA(DCB)				3020000	3230000	3140000	2880000
INTERNAL STD AREA(NPT)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PHN)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PRY)				5450000	6400000	6950000	5240000
DILUTION FACTOR					1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME					8(7 D)	8(7 D)	7(7 D)

AREA			QA				
LOCATION	RET. TANKS	319 LDF-NW	METHOD	NPDESOUTF1	NPDES10WTP	RET. TANKS	
TYPE OF LOCATION	WASTEWATER	BACKGROUND	BLANK	EFFLUENT	DISCHARGES	WASTEWATER	
SAMPLE NUMBER	AR500115E	AR802109G	SBKDD24	AR300055A	AR311058A	AR500240E	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	10	17		1	6	10	
ACENAPHTHENE	55 U	11 U	11 U	11 U	11 U	11 U	

TABLE D.7.22 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD24 DRAFT DO NOT CITE

AREA			QA			
LOCATION	RET. TANKS	319 LDF-NW	METHOD	NPDESOUTF1	NPDES10WTP	RET. TANKS
TYPE OF LOCATION	WASTEWATER	BACKGROUND	BLANK	EFFLUENT	DISCHARGES	WASTEWATER
SAMPLE NUMBER	AR500115E	AR802109G	SBKDD24	AR300055A	AR311058A	AR500240E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	10	17		1	6	10
ACENAPHTHYLENE	55 U	11 U	11 U	11 U	11 U	11 U
ANTHRACENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(A)ANTHRACENE	5 J	11 U	11 U	11 U	11 U	11 U
BENZO(A)PYRENE	55 U	11 U	11 U	11 U	11 U	11 U
BENZO(B)FLUORANTHENE	55 U	11 U	11 U	11 U	11 U	11 U
BENZO(G,H,I)PERYLENE	55 U	11 U	11 U	11 U	11 U	11 U
BENZO(K)FLUORANTHENE	55 U	11 U	11 U	11 U	11 U	11 U
BENZOIC ACID	250 J	56 U	56 U	56 U	56 U	56 U
BENZYL ALCOHOL	55 U	11 U	11 U	11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE	55 U	11 U	11 U	11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER	55 U	11 U	11 U	11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER	55 U	11 U	11 U	11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE	310 B	2 JB	1 J	6 JB	6 JB	1 JB
BUTYLBENZYLPHTHALATE	25 J	11 U	11 U	11 U	11 U	11 U
CHRYSENE	55 U	11 U	11 U	11 U	11 U	11 U
DI-N-BUTYLPHTHALATE	180	0.7 J	11 U	0.7 J	1 J	11 U
DI-N-OCTYL PHTHALATE	10 J	11 U	11 U	11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE	55 U	11 U	11 U	11 U	11 U	11 U
DIBENZOFURAN	55 U	11 U	11 U	11 U	11 U	11 U
DIETHYLPHTHALATE	55 U	0.9 JB	0.9 J	11 U	11 U	11 U
DIMETHYLPHTHALATE	55 U	11 U	11 U	11 U	11 U	11 U
FLUORANTHENE	15 J	11 U	11 U	11 U	11 U	11 U
FLUORENE	55 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROBENZENE	55 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROBUTADIENE	55 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE	55 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROETHANE	55 U	11 U	11 U	11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE	55 U	11 U	11 U	11 U	11 U	11 U
ISOPHORONE	55 U	11 U	11 U	11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE	55 U	11 U	11 U	11 U	11 U	11 U
N-NITROSODIPHENYLAMINE	55 U	11 U	11 U	11 U	11 U	11 U
NAPHTHALENE	50 J	11 U	11 U	11 U	11 U	11 U
NITROBENZENE	55 U	11 U	11 U	11 U	11 U	11 U
NITROBENZENE-D5						
PENTACHLOROPHENOL	280 U	56 U	56 U	56 U	56 U	56 U
PHENANTHRENE	15 J	11 U	11 U	11 U	11 U	11 U
PHENOL	130	11 U	11 U	11 U	6 J	11 U
PHENOL-D5						
PYRENE	15 J	11 U	11 U	11 U	11 U	11 U

TABLE D.7.22 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD24 DRAFT DO NOT CITE

AREA			QA			
LOCATION	RET. TANKS	319 LDF-NW	METHOD	NPDESOUTF1	NPDES10WTP	RET. TANKS
TYPE OF LOCATION	WASTEWATER	BACKGROUND	BLANK	EFFLUENT	DISCHARGES	WASTEWATER
SAMPLE NUMBER	AR500115E	AR802109G	SBKDD24	AR300055A	AR311058A	AR500240E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	10	17		1	6	10
TERPHENYL-D14						
1,2-DICHLOROBENZENE	55 U	11 U	11 U	11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE	55 U	11 U	11 U	11 U	11 U	11 U
1,3-DICHLOROBENZENE	55 U	11 U	11 U	11 U	11 U	11 U
1,4-DICHLOROBENZENE	55 U	11 U	11 U	11 U	11 U	11 U
2-CHLORONAPHTHALENE	10 J	11 U	11 U	11 U	11 U	11 U
2-CHLOROPHENOL	55 U	11 U	11 U	11 U	32	11 U
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	10 J	11 U	11 U	11 U	11 U	11 U
2-METHYLPHENOL	55 U	11 U	11 U	11 U	11 U	11 U
2-NITROANILINE	280 U	56 U	56 U	56 U	56 U	56 U
2-NITROPHENOL	55 U	11 U	11 U	11 U	11 U	11 U
2,4-DICHLOROPHENOL	55 U	11 U	11 U	11 U	11 U	11 U
2,4-DIMETHYLPHENOL	55 U	11 U	11 U	11 U	11 U	11 U
2,4-DINITROPHENOL	280 U	56 U	56 U	56 U	56 U	56 U
2,4-DINITROTOLUENE	55 U	11 U	11 U	11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL	280 U	56 U	56 U	56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	55 U	11 U	11 U	11 U	11 U	11 U
2,6-DINITROTOLUENE	55 U	11 U	11 U	11 U	11 U	11 U
3-NITROANILINE	280 U	56 U	56 U	56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE	110 U	22 U	22 U	22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER	55 U	11 U	11 U	11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL	55 U	11 U	11 U	11 U	3 J	11 U
4-CHLOROANILINE	55 U	11 U	11 U	11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER	55 U	11 U	11 U	11 U	11 U	11 U
4-METHYLPHENOL	55 U	11 U	11 U	11 U	11 U	11 U
4-NITROANILINE	280 U	56 U	56 U	56 U	56 U	56 U
4-NITROPHENOL	280 U	56 U	56 U	56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL	280 U	56 U	56 U	56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY	4 *	61	23 *	34 *	58	34 *
SURR 2(FBP) %RECOVERY	0 *	57	29 *	35 *	56	39 *
SURR 3(TPH) %RECOVERY	0 *	68	71	19 *	16 *	23 *
SURR 4(PHL) %RECOVERY	3 *	16	28	24	69	39
SURR 5(2FP) %RECOVERY	0 *	23	17 *	21	68	35
SURR 6(TBP) %RECOVERY	0 *	29	18	22	54	34

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TABLE D.7.22 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD24

DRAFT DO NOT CITE

AREA			QA			
LOCATION	RET. TANKS	319 LDF-NW	METHOD	NPDESOUTF1	NPDES10WTP	RET. TANKS
TYPE OF LOCATION	WASTEWATER	BACKGROUND	BLANK	EFFLUENT	DISCHARGES	WASTEWATER
SAMPLE NUMBER	AR500115E	AR802109G	SBKDD24	AR300055A	AR311058A	AR500240E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	10	17		1	6	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)	7610000	7460000	7760000	7310000	7160000	7140000
INTERNAL STD AREA(CRY)	8170000	9470000	8550000	9120000	9250000	9570000
INTERNAL STD AREA(DCB)	3230000	3150000	3190000	3130000	2980000	3150000
INTERNAL STD AREA(NPT)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PHN)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PRY)	4540000	6000000	5630000	5820000	5860000	6220000
DILUTION FACTOR	5.5	1.1	1.1	1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME	7(7 D)	8(7 D)		7(7 D)	7(7 D)	6(7 D)

TABLE D.7.23 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD25 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1225875	AR1225877	AR1225877	AR1225878	AR500251E	AR500320E	AR500353E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					10	10	10
ACENAPHTHENE		1.262	19.3		11 U	11 U	11 U
ACENAPHTHYLENE		1.718	30.7		11 U	11 U	11 U
ANTHRACENE		1.108	36.7		11 U	11 U	11 U
BENZO(A)ANTHRACENE		1.196	13.2		11 U	11 U	11 U
BENZO(A)PYRENE		1.107	1.2		11 U	11 U	11 U
BENZO(B)FLUORANTHENE		1.519	5.4		11 U	11 U	11 U
BENZO(G,H,I)PERYLENE		0.677	13		11 U	11 U	11 U
BENZO(K)FLUORANTHENE		1.063	8.2		11 U	11 U	11 U
BENZOIC ACID		0.173	30.3		56 U	56 U	56 U
BENZYL ALCOHOL		0.752	3.2		11 U	8 J	11 U
BIS(2-CHLOROETHOXY)METHANE		0.551	10.5		11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER		1.247	22.8		11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER		2.19	9.2		11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE		0.943	11.3		1 JB	47 B	1 JB
BUTYLBENZYLPHTHALATE		0.834	16.8		11 U	32	11 U
CHRYSENE		1.075	10.9		11 U	11 U	11 U
DI-N-BUTYLPHTHALATE		1.255	28.7		11 U	380 E	2 J
DI-N-OCTYL PHTHALATE		2.065	45.6		11 U	2 J	11 U
DIBENZ(A,H)ANTHRACENE		0.677	7.9		11 U	11 U	11 U
DIBENZOFURAN		1.85	36.9		11 U	11 U	11 U
DIETHYLPHTHALATE		1.524	41.8		11 U	11 U	11 U
DIMETHYLPHTHALATE		1.524	6.5		11 U	11 U	11 U
FLUORANTHENE		1.038	16.3		11 U	11 U	11 U
FLUORENE		1.294	14.8		11 U	11 U	11 U
HEXACHLOROBENZENE		0.322	2.3		11 U	11 U	11 U
HEXACHLOROBUTADIENE		0.235	0.8		11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE		0.287	5.2		11 U	11 U	11 U
HEXACHLOROETHANE		0.713	14.1		11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE		0.738	10.7		11 U	11 U	11 U
ISOPHORONE		0.937	2.2		11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE		1.131	4.6		11 U	11 U	11 U
N-NITROSODIPHENYLAMINE		0.425	11.5		11 U	11 U	11 U
NAPHTHALENE		1.001	17.5		11 U	11 U	11 U
NITROBENZENE		0.499	9.2		11 U	11 U	11 U
NITROBENZENE-D5		0.472	11.5				
PENTACHLOROPHENOL		0.183	6.7		56 U	56 U	56 U
PHENANTHRENE		1.055	23.3		11 U	11 U	11 U
PHENOL		1.744	5.2		7 J	11 U	11 U
PHENOL-D5		1.388	0.4				

TABLE D.7.23 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD25

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION					RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	CALIBRATION	CALIBRATION	CAL %D	SHIFT	AR500251E	AR500320E	AR500353E
MATRIX	AR1225875	AR1225877	AR1225877	AR1225878	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					10	10	10
PYRENE		1.825	38.5		11 U	11 U	11 U
TERPHENYL-D14		0.982	23.6				
1,2-DICHLOROBENZENE		1.522	4.8		11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE		0.405	0.8		11 U	11 U	11 U
1,3-DICHLOROBENZENE		1.44	3.8		11 U	11 U	11 U
1,4-DICHLOROBENZENE		1.439	3.6		11 U	11 U	11 U
2-CHLORONAPHTHALENE		1.2	8.1		11 U	11 U	11 U
2-CHLOROPHENOL		1.246	15.8		11 U	11 U	11 U
2-FLUOROBIPHENYL		1.271	14.3				
2-FLUOROPHENOL		1.024	3.5				
2-METHYLNAPHTHALENE		0.7	13.4		11 U	11 U	11 U
2-METHYLPHENOL		1.098	6.9		11 U	11 U	11 U
2-NITROANILINE		0.539	26.1		56 U	56 U	56 U
2-NITROPHENOL		0.243	3.2		11 U	11 U	11 U
2,4-DICHLOROPHENOL		0.367	8.5		11 U	11 U	11 U
2,4-DIMETHYLPHENOL		0.41	12.3		2 J	11 U	11 U
2,4-DINITROPHENOL		0.095	50.9		56 U	56 U	56 U
2,4-DINITROTOLUENE		0.528	8.5		11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL		0.458	3.2		56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL		0.185	2.4				
2,4,6-TRICHLOROPHENOL		0.443	2.5		11 U	11 U	11 U
2,6-DINITROTOLUENE		0.342	6.6		11 U	11 U	11 U
3-NITROANILINE		0.105	75.4		56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE		0.108	8.7		22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER		0.264	3.4		11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL		0.38	0.5		11 U	11 U	11 U
4-CHLOROANILINE		0.112	51		11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER		0.564	0.4		11 U	11 U	11 U
4-METHYLPHENOL		1.196	11.4		8 J	14	11 U
4-NITROANILINE		0.089	30.1		56 U	56 U	56 U
4-NITROPHENOL		0.186	25.1		56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL		0.088	47.6		56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY					40	56	58
SURR 2(FBP) %RECOVERY					46	57	66
SURR 3(TPH) %RECOVERY					17 *	58	34
SURR 4(PHL) %RECOVERY					22	38	38
SURR 5(2FP) %RECOVERY					24	37	42
SURR 6(TBP) %RECOVERY					51	57	52

TABLE D.7.23 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD25 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1225875	AR1225877	AR1225877	AR1225878	AR500251E	AR500320E	AR500353E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					10	10	10
M/E 51	59						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	72						
M/E 70-1	0						
M/E 70-2	0						
M/E 127	48						
M/E 197	0						
M/E 198	100						
M/E 199	6						
M/E 275	22						
M/E 365	3						
M/E 441	12						
M/E 442	78						
M/E 443-1	14						
M/E 443-2	18						
INTERNAL STD AREA(ANT)				6820000	7920000	6550000	6180000
INTERNAL STD AREA(CRY)				7060000	7510000	6710000	6450000
INTERNAL STD AREA(DCB)				3440000	3580000	3230000	2930000
INTERNAL STD AREA(NPT)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PHN)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PRY)				4510000	4190000	3910000	3650000
DILUTION FACTOR					1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME					6(7 D)	6(7 D)	6(7 D)

TABLE D.7.24 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD26 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	RET. TANKS	RET. TANKS	DRYING BED
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	WASTEWATER	WASTEWATER	SLUDGE
SAMPLE NUMBER	AR1226875	AR1226877	AR1226877	AR1226878	AR500524E	AR500546E	AR501070E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					10	10	11
ACENAPHTHENE		1.191	12.6		11 U	11 U	11 U
ACENAPHTHYLENE		2.039	55		11 U	11 U	11 U
ANTHRACENE		1.089	34.5		11 U	11 U	11 U
BENZO(A)ANTHRACENE		1.24	17.3		11 U	11 U	11 U
BENZO(A)PYRENE		1.139	4.2		11 U	11 U	11 U
BENZO(B)FLUORANTHENE		1.595	10.7		11 U	11 U	11 U
BENZO(G,H,I)PERYLENE		0.726	6.8		11 U	11 U	11 U
BENZO(K)FLUORANTHENE		1.011	2.9		11 U	11 U	11 U
BENZOIC ACID		0.241	3		56 U	56 U	56 U
BENZYL ALCOHOL		0.734	5.5		11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE		0.569	14		11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER		1.48	8.4		11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER		2.599	7.8		11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE		0.933	10.1		6 JB	1 JB	1 JB
BUTYLBENZYLPHTHALATE		0.886	24.1		11 U	11 U	11 U
CHRYSENE		1.11	14.5		11 U	11 U	11 U
DI-N-BUTYLPHTHALATE		1.251	28.4		0.9 J	0.6 J	0.6 J
DI-N-OCTYL PHTHALATE		2.073	46.1		11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE		0.696	5.3		11 U	11 U	11 U
DIBENZOFURAN		1.723	27.5		11 U	11 U	11 U
DIETHYLPHTHALATE		1.68	56.3		57 B	21 B	14 B
DIMETHYLPHTHALATE		1.597	11.6		2 J	11 U	11 U
FLUORANTHENE		1.072	20.1		11 U	11 U	11 U
FLUORENE		1.344	19.2		11 U	11 U	11 U
HEXACHLOROBENZENE		0.4	21.3		11 U	11 U	11 U
HEXACHLOROBUTADIENE		0.263	10.9		11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE		0.321	6		11 U	11 U	11 U
HEXACHLOROETHANE		0.742	18.8		11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE		0.791	4.3		11 U	11 U	11 U
ISOPHORONE		0.97	5.8		11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE		1.106	2.3		11 U	11 U	11 U
N-NITROSODIPHENYLAMINE		0.48	25.9		11 U	11 U	11 U
NAPHTHALENE		1.066	25.2		11 U	11 U	11 U
NITROBENZENE		0.46	0.8		11 U	11 U	11 U
NITROBENZENE-D5		0.471	11.3				
PENTACHLOROPHENOL		0.18	8.3		56 U	56 U	56 U
PHENANTHRENE		1.065	24.6		11 U	11 U	11 U
PHENOL		1.584	4.5		170	11 U	11 U
PHENOL-D5		1.431	3.5				

TABLE D.7.24 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD26 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	RET. TANKS	RET. TANKS	DRYING BED
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	WASTEWATER	WASTEWATER	SLUDGE
SAMPLE NUMBER	AR1226875	AR1226877	AR1226877	AR1226878	AR500524E	AR500546E	AR501070E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					10	10	11
PYRENE		1.843	39.9		11 U	11 U	11 U
TERPHENYL-D14		1.005	26.5				
1,2-DICHLOROBENZENE		1.558	7.3		11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE		0.445	10.6		11 U	11 U	11 U
1,3-DICHLOROBENZENE		1.611	16.2		11 U	11 U	11 U
1,4-DICHLOROBENZENE		1.609	15.8		11 U	11 U	11 U
2-CHLORONAPHTHALENE		1.244	12.1		11 U	11 U	11 U
2-CHLOROPHENOL		1.339	24.4		11 U	11 U	11 U
2-FLUOROBIPHENYL		1.325	19.1				
2-FLUOROPHENOL		1.124	13.5				
2-METHYLNAPHTHALENE		0.695	12.7		11 U	11 U	11 U
2-METHYLPHENOL		1.117	8.8		11 U	11 U	11 U
2-NITROANILINE		0.504	17.9		56 U	56 U	56 U
2-NITROPHENOL		0.26	10.5		11 U	11 U	11 U
2,4-DICHLOROPHENOL		0.367	8.4		11 U	11 U	11 U
2,4-DIMETHYLPHENOL		0.407	11.4		2 J	11 U	11 U
2,4-DINITROPHENOL		0.099	48.7		56 U	56 U	56 U
2,4-DINITROTOLUENE		0.509	4.5		11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL		0.513	15.6		56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL		0.226	19.3				
2,4,6-TRICHLOROPHENOL		0.473	4.3		11 U	11 U	11 U
2,6-DINITROTOLUENE		0.415	13.4		11 U	11 U	11 U
3-NITROANILINE		0.088	79.3		56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE		0.099	15.8		22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER		0.279	2.2		11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL		0.401	4.9		11 U	11 U	11 U
4-CHLOROANILINE		0.257	12.3		11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER		0.622	9.9		11 U	11 U	11 U
4-METHYLPHENOL		1.26	17.4		11 U	11 U	11 U
4-NITROANILINE		0.106	17.6		56 U	56 U	56 U
4-NITROPHENOL		0.157	5.3		56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL		0.11	34.5		56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY					39	55	39
SURR 2(FBP) %RECOVERY					47	63	46
SURR 3(TPH) %RECOVERY					12 *	21 *	41
SURR 4(PHL) %RECOVERY					44	31	2 *
SURR 5(2FP) %RECOVERY					48	31	6 *
SURR 6(TBP) %RECOVERY					59	41	14

TABLE D.7.24 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD26

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD RET TIM SHIFT	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	DRYING BED SLUDGE
TYPE OF LOCATION					WATER	WATER	WATER
SAMPLE NUMBER	AR1226875	AR1226877	AR1226877	AR1226878	AR500524E	AR500546E	AR501070E
MATRIX							
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					10	10	11
M/E 51	54						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	66						
M/E 70-1	0.8						
M/E 70-2	1.3						
M/E 127	48						
M/E 197	0						
M/E 198	100						
M/E 199	6.7						
M/E 275	.24						
M/E 365	3.4						
M/E 441	13						
M/E 442	94						
M/E 443-1	18						
M/E 443-2	20						
INTERNAL STD AREA(ANT)				6560000	7130000	6830000	7140000
INTERNAL STD AREA(CRY)				6880000	6490000	7140000	7740000
INTERNAL STD AREA(DCB)				3210000	3400000	3410000	3550000
INTERNAL STD AREA(NPT)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PHN)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PRY)				4220000	3870000	3970000	3550000
DILUTION FACTOR					1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME					6(7 D)	6(7 D)	6(7 D)

AREA			QA		QA	QA	QA
LOCATION	PLOT M WELL	PLOT M WELL	METHOD BLANK	B815 SEWER DRAINAGE	MATRIX SPIKE	MS % RECOVERY	RPD
TYPE OF LOCATION							
SAMPLE NUMBER	AR415019E	AR415020E	SBKDD26	AR309010E	AR309010E	AR309010E	AR309010E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	9	9		5	5	5	5
ACENAPHTHENE	100 U	100 U	100 U	11 U	6 J	6 *	0

TABLE D.7.24 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD26

DRAFT DO NOT CITE

AREA			QA		QA	QA	QA
LOCATION	PLOT M	PLOT M	METHOD	B815 SEWER	MATRIX	MS %	RPD
TYPE OF LOCATION	WELL	WELL	BLANK	DRAINAGE	SPIKE	RECOVERY	
SAMPLE NUMBER	AR415019E	AR415020E	SBKDD26	AR309010E	AR309010E	AR309010E	AR309010E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	9	9		5	5	5	5
ACENAPHTHYLENE	100 U	100 U	100 U	11 U	11 U		
ANTHRACENE	100 U	100 U	100 U	11 U	11 U		
BENZO(A)ANTHRACENE	100 U	100 U	100 U	11 U	11 U		
BENZO(A)PYRENE	100 U	100 U	100 U	11 U	11 U		
BENZO(B)FLUORANTHENE	100 U	100 U	100 U	11 U	11 U		
BENZO(G,H,I)PERYLENE	100 U	100 U	100 U	11 U	11 U		
BENZO(K)FLUORANTHENE	100 U	100 U	100 U	11 U	11 U		
BENZOIC ACID	500 U	500 U	500 U	56 U	56 U		
BENZYL ALCOHOL	100 U	100 U	100 U	11 U	11 U		
BIS(2-CHLOROETHOXY)METHANE	100 U	100 U	100 U	11 U	11 U		
BIS(2-CHLOROETHYL)ETHER	100 U	100 U	100 U	11 U	11 U		
BIS(2-CHLOROISOPROPYL)ETHER	100 U	100 U	100 U	11 U	11 U		
BIS(2-ETHYLHEXYL)PHTHALATE	16 JB	36 JB	12 J	2 JB	2 JB		
BUTYLBENZYLPHTHALATE	100 U	100 U	100 U	11 U	11 U		
CHRYSENE	100 U	100 U	100 U	11 U	11 U		
DI-N-BUTYLPHTHALATE	100 U	7 JB	5 J	11 U	0.6 J		
DI-N-OCTYL PHTHALATE	100 U	100 U	100 U	11 U	11 U		
DIBENZ(A,H)ANTHRACENE	100 U	100 U	100 U	11 U	11 U		
DIBENZOFURAN	100 U	100 U	100 U	11 U	11 U		
DIETHYLPHTHALATE	89 JB	65 JB	44 J	5 JB	3 JB		
DIMETHYLPHTHALATE	100 U	100 U	72 J	11 U	11 U		
FLUORANTHENE	100 U	100 U	100 U	11 U	11 U		
FLUORENE	100 U	100 U	100 U	11 U	11 U		
HEXACHLOROBENZENE	100 U	100 U	100 U	11 U	11 U		
HEXACHLOROBUTADIENE	100 U	100 U	100 U	11 U	11 U		
HEXACHLOROCYCLOPENTADIENE	100 U	100 U	100 U	11 U	11 U		
HEXACHLOROETHANE	100 U	100 U	100 U	11 U	11 U		
INDENO(1,2,3-CD)PYRENE	100 U	100 U	100 U	11 U	11 U		
ISOPHORONE	100 U	100 U	100 U	11 U	11 U		
N-NITROSO-DI-N-PROPYLAMINE	100 U	100 U	100 U	11 U	5 J	4 *	40 *
N-NITROSODIPHENYLAMINE	100 U	100 U	100 U	11 U	11 U		
NAPHTHALENE	100 U	100 U	100 U	11 U	11 U		
NITROBENZENE	100 U	100 U	100 U	11 U	11 U		
NITROBENZENE-D5							
PENTACHLOROPHENOL	500 U	500 U	500 U	56 U	14 J	7 *	44
PHENANTHRENE	100 U	100 U	100 U	11 U	11 U		
PHENOL	100 U	100 U	100 U	11 U	13 MS	6 *	50 *
PHENOL-D5							
PYRENE	100 U	100 U	100 U	11 U	4 J	3 *	29

TABLE D.7.24 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD26

DRAFT DO NOT CITE

AREA			QA		QA	QA	QA
LOCATION	PLOT M	PLOT M	METHOD	B815 SEWER	MATRIX	MS %	RPD
TYPE OF LOCATION	WELL	WELL	BLANK	DRAINAGE	SPIKE	RECOVERY	
SAMPLE NUMBER	AR415019E	AR415020E	SBKDD26	AR309010E	AR309010E	AR309010E	AR309010E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	9	9		5	5	5	5
TERPHENYL-D14							
1,2-DICHLOROBENZENE	100 U	100 U	100 U	11 U	11 U		
1,2,4-TRICHLOROBENZENE	100 U	100 U	100 U	11 U	8 J	6 *	18
1,3-DICHLOROBENZENE	100 U	100 U	100 U	11 U	11 U		
1,4-DICHLOROBENZENE	100 U	100 U	100 U	11 U	5 J	5 *	0
2-CHLORONAPHTHALENE	100 U	100 U	100 U	11 U	11 U		
2-CHLOROPHENOL	100 U	100 U	100 U	11 U	170 MS	65	41 *
2-FLUOROBIPHENYL							
2-FLUOROPHENOL							
2-METHYLNAPHTHALENE	100 U	100 U	100 U	11 U	11 U		
2-METHYLPHENOL	100 U	100 U	100 U	11 U	11 U		
2-NITROANILINE	500 U	500 U	500 U	56 U	56 U		
2-NITROPHENOL	100 U	100 U	100 U	11 U	11 U		
2,4-DICHLOROPHENOL	100 U	100 U	100 U	11 U	11 U		
2,4-DIMETHYLPHENOL	100 U	100 U	100 U	11 U	11 U		
2,4-DINITROPHENOL	500 U	500 U	500 U	56 U	56 U		
2,4-DINITROTOLUENE	100 U	100 U	100 U	11 U	6 J	4 *	66 *
2,4,5-TRICHLOROPHENOL	500 U	500 U	500 U	56 U	56 U		
2,4,6-TRIBROMOPHENOL							
2,4,6-TRICHLOROPHENOL	100 U	100 U	100 U	11 U	11 U		
2,6-DINITROTOLUENE	100 U	100 U	100 U	11 U	11 U		
3-NITROANILINE	500 U	500 U	500 U	56 U	56 U		
3,3'-DICHLOROBENZIDINE	200 U	200 U	200 U	22 U	22 U		
4-BROMOPHENYL-PHENYLETHER	100 U	100 U	100 U	11 U	11 U		
4-CHLORO-3-METHYLPHENOL	100 U	100 U	100 U	11 U	15 MS	7 *	44 *
4-CHLOROANILINE	100 U	100 U	100 U	11 U	11 U		
4-CHLOROPHENYL-PHENYLETHER	100 U	100 U	100 U	11 U	11 U		
4-METHYLPHENOL	100 U	100 U	100 U	11 U	11 U		
4-NITROANILINE	500 U	500 U	500 U	56 U	56 U		
4-NITROPHENOL	500 U	500 U	500 U	56 U	14 J	6 *	33
4,6-DINITRO-2-METHYLPHENOL	500 U	500 U	500 U	56 U	56 U		
SURR 1(NBZ) %RECOVERY	46	45	35	29 *	49		
SURR 2(FBP) %RECOVERY	52	53	40 *	44	51		
SURR 3(TPH) %RECOVERY	74	73	70	26 *	25 *		
SURR 4(PHL) %RECOVERY	36	30	29	24	2 *		
SURR 5(2FP) %RECOVERY	37	29	30	23	28		
SURR 6(TBP) %RECOVERY	55	42	45	59	51		

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TABLE D.7.24 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD26 DRAFT DO NOT CITE

AREA			QA		QA	QA	QA
LOCATION	PLOT M	PLOT M	METHOD	B815 SEWER	MATRIX	MS %	RPD
TYPE OF LOCATION	WELL	WELL	BLANK	DRAINAGE	SPIKE	RECOVERY	
SAMPLE NUMBER	AR415019E	AR415020E	SBKDD26	AR309010E	AR309010E	AR309010E	AR309010E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	9	9		5	5	5	5
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)	7490000	7750000	7640000	6340000	6690000		
INTERNAL STD AREA(CRY)	7480000	8680000	8090000	6940000	7250000		
INTERNAL STD AREA(DCB)	3310000	3540000	3440000	2830000	2930000		
INTERNAL STD AREA(NPT)	1E+07	1E+07	1E+07	1E+07	1E+07		
INTERNAL STD AREA(PHN)	1E+07	1E+07	1E+07	1E+07	1E+07		
INTERNAL STD AREA(PRY)	3980000	4690000	4150000	3820000	4170000		
DILUTION FACTOR	10	10	10	1.1	1.1		
ACTUAL(ALLOWED) EXTRACT TIME	32(7 D)	32(7 D)		13(7 D)	13(7 D)		

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR309010E	AR309010E
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	5	5
ACENAPHTHENE	6 J	6 *
ACENAPHTHYLENE	11 U	

TABLE D.7.24 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD26

DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR309010E	AR309010E
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	5	5
ANTHRACENE	11 U	
BENZO(A)ANTHRACENE	11 U	
BENZO(A)PYRENE	11 U	
BENZO(B)FLUORANTHENE	11 U	
BENZO(G,H,I)PERYLENE	11 U	
BENZO(K)FLUORANTHENE	11 U	
BENZOIC ACID	4 J	
BENZYL ALCOHOL	11 U	
BIS(2-CHLOROETHOXY)METHANE	11 U	
BIS(2-CHLOROETHYL)ETHER	11 U	
BIS(2-CHLOROISOPROPYL)ETHER	11 U	
BIS(2-ETHYLHEXYL)PHTHALATE	4 JB	
BUTYLBENZYLPHTHALATE	1 J	
CHRYSENE	11 U	
DI-N-BUTYLPHTHALATE	11 U	
DI-N-OCTYL PHTHALATE	11 U	
DIBENZ(A,H)ANTHRACENE	11 U	
DIBENZOFURAN	11 U	
DIETHYLPHTHALATE	1 JB	
DIMETHYLPHTHALATE	11 U	
FLUORANTHENE	11 U	
FLUORENE	11 U	
HEXACHLOROBENZENE	11 U	
HEXACHLOROBUTADIENE	11 U	
HEXACHLOROCYCLOPENTADIENE	11 U	
HEXACHLOROETHANE	11 U	
INDENO(1,2,3-CD)PYRENE	11 U	
ISOPHORONE	11 U	
N-NITROSO-DI-N-PROPYLAMINE	7 J	6 *
N-NITROSODIPHENYLAMINE	11 U	
NAPHTHALENE	11 U	
NITROBENZENE	11 U	
NITROBENZENE-D5		
PENTACHLOROPHENOL	23 J	11
PHENANTHRENE	11 U	
PHENOL	21 B	10 *
PHENOL-D5		
PYRENE	5 J	4 *
TERPHENYL-D14		

TABLE D.7.24 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD26 DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR309010E	AR309010E
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	5	5
1,2-DICHLOROBENZENE	11 U	
1,2,4-TRICHLOROBENZENE	7 J	5 *
1,3-DICHLOROBENZENE	11 U	
1,4-DICHLOROBENZENE	5 J	5 *
2-CHLORONAPHTHALENE	11 U	
2-CHLOROPHENOL	260 MS	99
2-FLUOROBIPHENYL		
2-FLUOROPHENOL		
2-METHYLNAPHTHALENE	11 U	
2-METHYLPHENOL	11 U	
2-NITROANILINE	56 U	
2-NITROPHENOL	11 U	
2,4-DICHLOROPHENOL	11 U	
2,4-DIMETHYLPHENOL	11 U	
2,4-DINITROPHENOL	56 U	
2,4-DINITROTOLUENE	4 J	2 *
2,4,5-TRICHLOROPHENOL	56 U	
2,4,6-TRIBROMOPHENOL		
2,4,6-TRICHLOROPHENOL	11 U	
2,6-DINITROTOLUENE	11 U	
3-NITROANILINE	56 U	
3,3'-DICHLOROBENZIDINE	22 U	
4-BROMOPHENYL-PHENYLETHER	11 U	
4-CHLORO-3-METHYLPHENOL	22 MS	11 *
4-CHLOROANILINE	11 U	
4-CHLOROPHENYL-PHENYLETHER	11 U	
4-METHYLPHENOL	11 U	
4-NITROANILINE	56 U	
4-NITROPHENOL	25 J	10 *
4,6-DINITRO-2-METHYLPHENOL	56 U	
SURR 1(NBZ) %RECOVERY	44	
SURR 2(FBP) %RECOVERY	47	
SURR 3(TPH) %RECOVERY	32 *	
SURR 4(PHL) %RECOVERY	34	
SURR 5(2FP) %RECOVERY	57	
SURR 6(TBP) %RECOVERY	80	

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TABLE D.7.24 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD26

DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR309010E	AR309010E
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	5	5
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)	7040000	
INTERNAL STD AREA(CRY)	7540000	
INTERNAL STD AREA(DCB)	3050000	
INTERNAL STD AREA(NPT)	1E+07	
INTERNAL STD AREA(PHN)	1E+07	
INTERNAL STD AREA(PRY)	3610000	
DILUTION FACTOR	1.1	
ACTUAL(ALLOWED) EXTRACT TIME	13(7 D)	

TABLE D.7.25 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD28 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	RET. TANKS	RET. TANKS	SE 317 ARE
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	WASTEWATER	WASTEWATER	DRAINAGE
SAMPLE NUMBER	AR1228875	AR1228877	AR1228877	AR1228878	AR500068E	AR500717E	AR804043E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					10	10	18
ACENAPHTHENE		1.175	11		11 U	11 U	11 U
ACENAPHTHYLENE		1.761	33.9		11 U	11 U	11 U
ANTHRACENE		1.036	27.8		11 U	11 U	11 U
BENZO(A)ANTHRACENE		1.092	3.3		11 U	11 U	11 U
BENZO(A)PYRENE		1.103	0.9		11 U	11 U	11 U
BENZO(B)FLUORANTHENE		1.515	5.2		11 U	11 U	11 U
BENZO(G,H,I)PERYLENE		0.606	22.2		11 U	11 U	11 U
BENZO(K)FLUORANTHENE		1.066	8.6		11 U	11 U	11 U
BENZOIC ACID		0.239	4		56 U	56 U	56 U
BENZYL ALCOHOL		0.785	1		11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE		0.552	10.6		11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER		1.372	15.1		11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER		2.089	13.3		11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE		0.947	11.9		2 JB	2 JB	2 JB
BUTYLBENZYLPHTHALATE		0.879	23.1		11 U	11 U	11 U
CHRYSENE		1.007	3.9		11 U	11 U	11 U
DI-N-BUTYLPHTHALATE		1.313	34.8		11 U	11 U	11 U
DI-N-OCTYL PHTHALATE		2.085	47		11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE		0.559	23.9		11 U	11 U	11 U
DIBENZOFURAN		1.744	29.1		11 U	11 U	11 U
DIETHYLPHTHALATE		1.475	37.2		11 U	11 U	11 U
DIMETHYLPHTHALATE		1.486	3.9		11 U	11 U	11 U
FLUORANTHENE		1.014	13.6		11 U	11 U	11 U
FLUORENE		1.339	18.8		11 U	11 U	11 U
HEXACHLOROBENZENE		0.349	5.8		11 U	11 U	11 U
HEXACHLOROBUTADIENE		0.249	4.9		11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE		0.314	3.7		11 U	11 U	11 U
HEXACHLOROETHANE		0.727	16.3		11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE		0.674	18.4		11 U	11 U	11 U
ISOPHORONE		0.888	3.2		11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE		1.243	15		11 U	11 U	11 U
N-NITROSODIPHENYLAMINE		0.47	23.2		11 U	11 U	11 U
NAPHTHALENE		1.024	20.2		11 U	11 U	11 U
NITROBENZENE		0.47	2.8		11 U	11 U	11 U
NITROBENZENE-D5		0.448	5.7				
PENTACHLOROPHENOL		0.185	5.9		56 U	56 U	56 U
PHENANTHRENE		1.089	27.4		11 U	11 U	11 U
PHENOL		1.737	4.8		43	11 U	11 U
PHENOL-D5		1.451	5				

TABLE D.7.25 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD28

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	RET. TANKS	RET. TANKS	SE 317 ARE
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	WASTEWATER	WASTEWATER	DRAINAGE
SAMPLE NUMBER	AR1228875	AR1228877	AR1228877	AR1228878	AR500068E	AR500717E	AR804043E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					10	10	18
PYRENE		1.788	35.7		11 U	11 U	11 U
TERPHENYL-D14		0.963	21.2				
1,2-DICHLOROBENZENE		1.566	7.9		11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE		0.416	3.6		11 U	11 U	11 U
1,3-DICHLOROBENZENE		1.538	11		11 U	11 U	11 U
1,4-DICHLOROBENZENE		1.523	9.5		11 U	11 U	11 U
2-CHLORONAPHTHALENE		1.327	19.5		11 U	11 U	11 U
2-CHLOROPHENOL		1.336	24.1		11 U	11 U	11 U
2-FLUOROBIPHENYL		1.341	20.6				
2-FLUOROPHENOL		1.029	3.9				
2-METHYLNAPHTHALENE		0.649	5.2		11 U	11 U	11 U
2-METHYLPHENOL		1.104	7.5		11 U	11 U	11 U
2-NITROANILINE		0.48	12.4		56 U	56 U	56 U
2-NITROPHENOL		0.234	0.6		11 U	11 U	11 U
2,4-DICHLOROPHENOL		0.346	2.1		11 U	11 U	11 U
2,4-DIMETHYLPHENOL		0.383	4.9		11 U	11 U	11 U
2,4-DINITROPHENOL		0.119	38.3		56 U	56 U	56 U
2,4-DINITROTOLUENE		0.521	7		11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL		0.454	2.2		56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL		0.194	2.4				
2,4,6-TRICHLOROPHENOL		0.441	2.8		11 U	11 U	11 U
2,6-DINITROTOLUENE		0.336	8.1		11 U	11 U	11 U
3-NITROANILINE		0.053	87.6		56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE		0.075	36.3		22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER		0.269	1.5		11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL		0.367	3.9		11 U	11 U	11 U
4-CHLOROANILINE		0.241	5.3		11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER		0.603	6.6		11 U	11 U	11 U
4-METHYLPHENOL		1.099	2.4		11 U	11 U	11 U
4-NITROANILINE		0.094	26.4		56 U	56 U	56 U
4-NITROPHENOL		0.162	8.9		56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL		0.112	33.3		56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY					25 *	14 *	19 *
SURR 2(FBP) %RECOVERY					25 *	15 *	21 *
SURR 3(TPH) %RECOVERY					5 *	35	39
SURR 4(PHL) %RECOVERY					27	4 *	9 *
SURR 5(2FP) %RECOVERY					28	5 *	8 *
SURR 6(TBP) %RECOVERY					38	15	8 *

TABLE D.7.25 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD28 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	RET. TANKS	RET. TANKS	SE 317 ARE
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	WASTEWATER	WASTEWATER	DRAINAGE
SAMPLE NUMBER	AR1228875	AR1228877	AR1228877	AR1228878	AR500068E	AR500717E	AR804043E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					10	10	18
M/E 51	56						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	67						
M/E 70-1	1						
M/E 70-2	1.4						
M/E 127	46						
M/E 197	0						
M/E 198	100						
M/E 199	6.6						
M/E 275	24						
M/E 365	3.2						
M/E 441	15						
M/E 442	100						
M/E 443-1	19						
M/E 443-2	19						
INTERNAL STD AREA(ANT)				6470000	6640000	6800000	6610000
INTERNAL STD AREA(CRY)				6200000	6000000	5780000	5820000
INTERNAL STD AREA(DCB)				3090000	3090000	2960000	3080000
INTERNAL STD AREA(NPT)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PHN)				1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PRY)				3440000	3130000	3070000	2900000
DILUTION FACTOR					1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME					12(7 D)	12(7 D)	12(7 D)

AREA	QA						
LOCATION	METHOD	317-319 LF	317-319 LF	NPDESOUTF1	NPDES10WTP	RET. TANKS	
TYPE OF LOCATION	BLANK	WELL	WELL	EFFLUENT	DISCHARGES	WASTEWATER	
SAMPLE NUMBER	SBKDD28	AR420016E	AR420027E	AR300066A	AR311069A	AR500080E	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO		9	9	1	6	10	
ACENAPHTHENE	11 U	11 U	11 U	11 U	11 U	11 U	

TABLE D.7.25 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD28 DRAFT DO NOT CITE

AREA	QA					
LOCATION	METHOD BLANK	317-319 LF WELL	317-319 LF WELL	NPDESOUTF1 EFFLUENT	NPDES10WTP DISCHARGES	RET. TANKS WASTEWATER
TYPE OF LOCATION						
SAMPLE NUMBER	SBKDD28	AR420016E	AR420027E	AR300066A	AR311069A	AR500080E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		9	9	1	6	10
ACENAPHTHYLENE	11 U	11 U	11 U	11 U	11 U	11 U
ANTHRACENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(A)ANTHRACENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(A)PYRENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(B)FLUORANTHENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(G,H,I)PERYLENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(K)FLUORANTHENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZOIC ACID	56 U	56 U	56 U	56 U	56 U	56 U
BENZYL ALCOHOL	11 U	11 U	11 U	11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE	11 U	11 U	11 U	11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER	11 U	11 U	11 U	11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER	11 U	11 U	11 U	11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE	2 J	9 JB	7 JB	16 B	3 JB	2 JB
BUTYLBENZYLPHTHALATE	11 U	11 U	11 U	11 U	11 U	11 U
CHRYSENE	11 U	11 U	11 U	11 U	11 U	11 U
DI-N-BUTYLPHTHALATE	0.9 J	11 U	11 U	2 JB	2 JB	0.7 J
DI-N-OCTYL PHTHALATE	11 U	11 U	11 U	11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE	11 U	11 U	11 U	11 U	11 U	11 U
DIBENZOFURAN	11 U	11 U	11 U	11 U	11 U	11 U
DIETHYLPHTHALATE	11 U	11 U	11 U	1 J	1 J	11 U
DIMETHYLPHTHALATE	11 U	11 U	11 U	11 U	11 U	11 U
FLUORANTHENE	11 U	11 U	11 U	11 U	11 U	11 U
FLUORENE	11 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROBUTADIENE	11 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE	11 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROETHANE	11 U	11 U	11 U	11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE	11 U	11 U	11 U	11 U	11 U	11 U
ISOPHORONE	11 U	11 U	11 U	11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE	11 U	11 U	11 U	11 U	11 U	11 U
N-NITROSODIPHENYLAMINE	11 U	11 U	11 U	11 U	11 U	11 U
NAPHTHALENE	11 U	11 U	11 U	11 U	11 U	11 U
NITROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
NITROBENZENE-D5						
PENTACHLOROPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
PHENANTHRENE	11 U	11 U	11 U	11 U	11 U	11 U
PHENOL	11 U	11 U	11 U	11 U	11 U	11 U
PHENOL-D5						
PYRENE	11 U	11 U	11 U	11 U	11 U	11 U

TABLE D.7.25 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD28 DRAFT DO NOT CITE

AREA	QA					
LOCATION	METHOD BLANK	317-319 LF WELL	317-319 LF WELL	NPDESOUTF1 EFFLUENT	NPDES10WTP DISCHARGES	RET. TANKS WASTEWATER
TYPE OF LOCATION	SBKDD28	AR420016E	AR420027E	AR300066A	AR311069A	AR500080E
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER	WATER
MATRIX	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS		9	9	1	6	10
ENV PROBLEM NO						
TERPHENYL-D14						
1,2-DICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
1,3-DICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
1,4-DICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
2-CHLORONAPHTHALENE	11 U	11 U	11 U	11 U	11 U	11 U
2-CHLOROPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	11 U	11 U	11 U	11 U	11 U	11 U
2-METHYLPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2-NITROANILINE	56 U	56 U	56 U	56 U	56 U	56 U
2-NITROPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2,4-DICHLOROPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2,4-DIMETHYLPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2,4-DINITROPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
2,4-DINITROTOLUENE	11 U	11 U	11 U	11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2,6-DINITROTOLUENE	11 U	11 U	11 U	11 U	11 U	11 U
3-NITROANILINE	56 U	56 U	56 U	56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE	22 U	22 U	22 U	22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
4-CHLOROANILINE	11 U	11 U	11 U	11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U	11 U	11 U
4-METHYLPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
4-NITROANILINE	56 U	56 U	56 U	56 U	56 U	56 U
4-NITROPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY	19 *	5 *	20 *	26 *	31 *	18 *
SURR 2(FBP) %RECOVERY	22 *	10 *	23 *	27 *	34 *	20 *
SURR 3(TPH) %RECOVERY	13 *	12 *	12 *	13 *	9 *	23 *
SURR 4(PHL) %RECOVERY	5 *	10	16	15	13	9 *
SURR 5(2FP) %RECOVERY	6 *	9 *	19 *	16 *	14 *	12 *
SURR 6(TBP) %RECOVERY	6 *	17	19	23	19	6 *

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TABLE D.7.25 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD28

DRAFT DO NOT CITE

AREA	QA					
LOCATION	METHOD BLANK	317-319 LF WELL	317-319 LF WELL	NPDESOUTF1 EFFLUENT	NPDES10WTP DISCHARGES	RET. TANKS WASTEWATER
TYPE OF LOCATION						
SAMPLE NUMBER	SBKDD28	AR420016E	AR420027E	AR300066A	AR311069A	AR500080E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO		9	9	1	6	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)	6160000	5760000	6290000	6510000	6520000	6340000
INTERNAL STD AREA(CRY)	6110000	4810000	5530000	6180000	6150000	6250000
INTERNAL STD AREA(DCB)	2870000	2440000	2700000	2950000	2850000	3060000
INTERNAL STD AREA(NPT)	1E+07	8900000	1E+07	1E+07	9980000	1E+07
INTERNAL STD AREA(PHN)	1E+07	9570000	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PRY)	3360000	2950000	2880000	3560000	3320000	3280000
DILUTION FACTOR	1.1	1.1	1.1	1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME		13(7 D)	13(7 D)	7(7 D)	7(7 D)	12(7 D)

TABLE D.7.26 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD29 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	317-319 LF	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	WELL	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1229875	AR1229877	AR1229877	AR1229878	AR420038E	AR500331E	AR500342E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					9	10	10
ACENAPHTHENE		1.244	17.6		11 U	11 U	11 U
ACENAPHTHYLENE		2.03	54.4		11 U	11 U	11 U
ANTHRACENE		1.105	36.3		11 U	11 U	11 U
BENZO(A)ANTHRACENE		1.198	13.3		11 U	11 U	11 U
BENZO(A)PYRENE		1.147	4.9		11 U	11 U	11 U
BENZO(B)FLUORANTHENE		1.4	2.8		11 U	11 U	11 U
BENZO(G,H,I)PERYLENE		0.701	9.9		11 U	11 U	11 U
BENZO(K)FLUORANTHENE		1.194	21.6		11 U	11 U	11 U
BENZOIC ACID		0.229	7.9		56 U	130	30 J
BENZYL ALCOHOL		0.787	1.4		11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE		0.525	5.2		11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER		1.369	15.2		11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER		2.277	5.6		11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE		0.968	14.4		2 JB	7 JB	8 JB
BUTYLBENZYLPHTHALATE		0.868	21.6		11 U	11 U	11 U
CHRYSENE		1.117	15.2		11 U	11 U	11 U
DI-N-BUTYLPHTHALATE		1.351	38.6		11 U	6 JB	7 JB
DI-N-OCTYL PHTHALATE		2.104	48.3		11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE		0.674	8.3		11 U	11 U	11 U
DIBENZOFURAN		1.902	40.7		11 U	11 U	11 U
DIETHYLPHTHALATE		1.52	41.4		11 U	11 U	1 J
DIMETHYLPHTHALATE		1.562	9.2		11 U	11 U	11 U
FLUORANTHENE		1.079	20.9		11 U	11 U	11 U
FLUORENE		1.383	22.7		11 U	11 U	11 U
HEXACHLOROBENZENE		0.363	10.2		11 U	11 U	11 U
HEXACHLOROBUTADIENE		0.268	13.2		11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE		0.352	16.1		11 U	11 U	11 U
HEXACHLOROETHANE		0.739	18.2		11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE		0.75	9.2		11 U	11 U	11 U
ISOPHORONE		0.968	5.6		11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE		1.134	4.9		11 U	11 U	11 U
N-NITROSODIPHENYLAMINE		0.498	30.8		11 U	11 U	11 U
NAPHTHALENE		1.177	38.3		11 U	85	53
NITROBENZENE		0.481	5.4		11 U	11 U	11 U
NITROBENZENE-D5		0.472	11.3				
PENTACHLOROPHENOL		0.194	0.9		56 U	56 U	56 U
PHENANTHRENE		1.158	35.5		11 U	11 U	11 U
PHENOL		1.751	5.6		11 U	150	330
PHENOL-D5		1.367	1.1				

TABLE D.7.26 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD29

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION					317-319 LF	RET. TANKS	RET. TANKS
TYPE OF LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	WELL	WASTEWATER	WASTEWATER
SAMPLE NUMBER	CALIBRATION	CALIBRATION	CAL %D	SHIFT	AR420038E	AR500331E	AR500342E
MATRIX	AR1229875	AR1229877	AR1229877	AR1229878	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					9	10	10
PYRENE		1.948	47.8		11 U	11 U	11 U
TERPHENYL-D14		1.026	29.1				
1,2-DICHLOROBENZENE		1.489	2.5		11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE		0.435	8.4		11 U	11 U	11 U
1,3-DICHLOROBENZENE		1.454	4.9		11 U	11 U	11 U
1,4-DICHLOROBENZENE		1.457	4.8		11 U	11 U	11 U
2-CHLORONAPHTHALENE		1.285	15.7		11 U	2 J	11 U
2-CHLOROPHENOL		1.307	21.4		11 U	11 U	11 U
2-FLUOROBIPHENYL		1.404	26.2				
2-FLUOROPHENOL		1.085	9.6				
2-METHYLNAPHTHALENE		0.739	19.8		11 U	11 U	3 J
2-METHYLPHENOL		1.088	6		11 U	11 U	11 U
2-NITROANILINE		0.514	20.4		56 U	56 U	56 U
2-NITROPHENOL		0.256	8.8		11 U	11 U	11 U
2,4-DICHLOROPHENOL		0.379	12		11 U	11 U	11 U
2,4-DIMETHYLPHENOL		0.388	6.3		11 U	11 U	11 U
2,4-DINITROPHENOL		0.103	46.9		56 U	56 U	56 U
2,4-DINITROTOLUENE		0.551	13.3		11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL		0.481	8.4		56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL		0.186	1.6				
2,4,6-TRICHLOROPHENOL		0.487	7.2		11 U	11 U	11 U
2,6-DINITROTOLUENE		0.365	0.2		11 U	11 U	11 U
3-NITROANILINE		0.075	82.5		56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE		0.1	15.5		22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER		0.301	10.1		11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL		0.405	6.1		11 U	11 U	11 U
4-CHLOROANILINE		0.118	48.6		11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER		0.636	12.5		11 U	11 U	11 U
4-METHYLPHENOL		1.171	9		11 U	11 U	19
4-NITROANILINE		0.093	27.1		56 U	56 U	56 U
4-NITROPHENOL		0.156	4.7		56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL		0.098	41.7		56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY					51	61	48
SURR 2(FBP) %RECOVERY					60	45	35 *
SURR 3(TPH) %RECOVERY					80	31 *	16 *
SURR 4(PHL) %RECOVERY					7 *	4 *	1 *
SURR 5(2FP) %RECOVERY					0 *	4 *	0 *
SURR 6(TBP) %RECOVERY					0 *	40	29

TABLE D.7.26 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD29 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	317-319 LF	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL XD	SHIFT	WELL	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1229875	AR1229877	AR1229877	AR1229878	AR420038E	AR500331E	AR500342E
MATRIX					WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					9	10	10
M/E 51	59						
M/E 68-1	0						
M/E 68-2	0						
M/E 69	67						
M/E 70-1	0.4						
M/E 70-2	0.5						
M/E 127	46						
M/E 197	0						
M/E 198	100						
M/E 199	6.7						
M/E 275	21						
M/E 365	2.6						
M/E 441	11						
M/E 442	73						
M/E 443-1	14						
M/E 443-2	20						
INTERNAL STD AREA(ANT)				6020000	5960000	6100000	5480000
INTERNAL STD AREA(CRY)				5650000	5230000	5560000	5330000
INTERNAL STD AREA(DCB)				3000000	2790000	2850000	2740000
INTERNAL STD AREA(NPT)				1E+07	1E+07	8490000	9420000
INTERNAL STD AREA(PHN)				1E+07	9510000	1E+07	9290000
INTERNAL STD AREA(PRY)				3170000	2570000	2980000	2850000
DILUTION FACTOR					1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME					8(7 D)	7(7 D)	7(7 D)

AREA							
LOCATION	570 WTP	800 LANDFI	800 LANDFI	RET. TANKS	RET. TANKS	RET. TANKS	
TYPE OF LOCATION	LAGOON	WELL	WELL	WASTEWATER	WASTEWATER	WASTEWATER	
SAMPLE NUMBER	AR806090E	AR411015E	AR411026E	AR500046E	AR500273E	AR500477E	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	20	9	9	10	10	10	
ACENAPHTHENE	11 U	11 U	11 U	11 U	11 U	11 U	

TABLE D.7.26 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD29 DRAFT DO NOT CITE

AREA

LOCATION	570 WTP	800 LANDFI	800 LANDFI	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	LAGOON	WELL	WELL	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR806090E	AR411015E	AR411026E	AR500046E	AR500273E	AR500477E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	20	9	9	10	10	10
ACENAPHTHYLENE	11 U	11 U	11 U	11 U	11 U	11 U
ANTHRACENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(A)ANTHRACENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(A)PYRENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(B)FLUORANTHENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(G,H,I)PERYLENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(K)FLUORANTHENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZOIC ACID	56 U	56 U	56 U	56 U	56 U	56 U
BENZYL ALCOHOL	11 U	11 U	11 U	11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE	11 U	11 U	11 U	11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER	11 U	11 U	11 U	11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER	11 U	11 U	11 U	11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE	3 JB	4 JB	2 JB	14 B	2 JB	2 JB
BUTYLBENZYLPHTHALATE	11 U	11 U	11 U	11 U	11 U	11 U
CHRYSENE	11 U	11 U	11 U	11 U	11 U	11 U
DI-N-BUTYLPHTHALATE	1 JB	11 U	11 U	11 U	11 U	11 U
DI-N-OCTYL PHTHALATE	11 U	11 U	11 U	11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE	11 U	11 U	11 U	11 U	11 U	11 U
DIBENZOFURAN	11 U	11 U	11 U	11 U	11 U	11 U
DIETHYLPHTHALATE	11 U	11 U	11 U	11 U	11 U	11 U
DIMETHYLPHTHALATE	11 U	11 U	11 U	11 U	11 U	11 U
FLUORANTHENE	11 U	11 U	11 U	11 U	11 U	11 U
FLUORENE	11 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROBUTADIENE	11 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE	11 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROETHANE	11 U	11 U	11 U	11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE	11 U	11 U	11 U	11 U	11 U	11 U
ISOPHORONE	11 U	11 U	11 U	11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE	11 U	11 U	11 U	11 U	11 U	11 U
N-NITROSODIPHENYLAMINE	11 U	11 U	11 U	11 U	11 U	11 U
NAPHTHALENE	11 U	11 U	11 U	11 U	11 U	11 U
NITROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
NITROBENZENE-D5						
PENTACHLOROPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
PHENANTHRENE	11 U	11 U	11 U	11 U	11 U	11 U
PHENOL	11 U	11 U	3 J	11 U	11 U	11 U
PHENOL-D5						
PYRENE	11 U	11 U	11 U	11 U	11 U	11 U

TABLE D.7.26 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD29

DRAFT DO NOT CITE

AREA

LOCATION	570 WTP	800 LANDFI	800 LANDFI	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	LAGOON	WELL	WELL	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR806090E	AR411015E	AR411026E	AR500046E	AR500273E	AR500477E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	20	9	9	10	10	10
TERPHENYL-D14						
1,2-DICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
1,3-DICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
1,4-DICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
2-CHLORONAPHTHALENE	11 U	11 U	11 U	11 U	11 U	11 U
2-CHLOROPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	11 U	11 U	11 U	11 U	11 U	11 U
2-METHYLPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2-NITROANILINE	56 U	56 U	56 U	56 U	56 U	56 U
2-NITROPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2,4-DICHLOROPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2,4-DIMETHYLPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2,4-DINITROPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
2,4-DINITROTOLUENE	11 U	11 U	11 U	11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2,6-DINITROTOLUENE	11 U	11 U	11 U	11 U	11 U	11 U
3-NITROANILINE	56 U	56 U	56 U	56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE	22 U	22 U	22 U	22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
4-CHLOROANILINE	11 U	11 U	11 U	11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U	11 U	11 U
4-METHYLPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
4-NITROANILINE	56 U	56 U	56 U	56 U	56 U	56 U
4-NITROPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY	38	46	50	34 *	56	54
SURR 2(FBP) %RECOVERY	35 *	44	52	37 *	53	53
SURR 3(TPH) %RECOVERY	55	28 *	23 *	10 *	20 *	42
SURR 4(PHL) %RECOVERY	36	39	32	0 *	45	23
SURR 5(2FP) %RECOVERY	35	34	34	24	42	30
SURR 6(TBP) %RECOVERY	49	39	44	37	70	47

M/E 51

TABLE D.7.26 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD29

DRAFT DO NOT CITE

AREA

LOCATION	570 WTP	800 LANDFI	800 LANDFI	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	LAGOON	WELL	WELL	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR806090E	AR411015E	AR411026E	AR500046E	AR500273E	AR500477E
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	20	9	9	10	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)	6040000	6540000	5880000	5850000	5840000	5840000
INTERNAL STD AREA(CRY)	5530000	6110000	4950000	5390000	5390000	4970000
INTERNAL STD AREA(DCB)	2740000	2800000	2810000	2710000	2660000	2840000
INTERNAL STD AREA(NPT)	9580000	9990000	9820000	9660000	9210000	9670000
INTERNAL STD AREA(PHN)	9870000	1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PRY)	2860000	3200000	2660000	2790000	2970000	2700000
DILUTION FACTOR	1.1	1.1	1.1	1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME	6(7 D)	8(7 D)	8(7 D)	7(7 D)	7(7 D)	12(7 D)

TABLE D.7.27 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD30 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	ISTD RET TIM	TUNED	CONTINUING	CONTINUING	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	SHIFT	CALIBRATION	CALIBRATION	CAL %D	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1230878	AR1230875	AR1230877	AR1230877	AR500488E	AR500502E	AR500557E
MATRIX					WATER	WATER	WATER
UNITS	AREA	%	RRF	%	UG/L	UG/L	UG/L
ENV PROBLEM NO					10	10	10
ACENAPHTHENE			1.256	18.7	11 U	11 U	11 U
ACENAPHTHYLENE			1.82	38.4	11 U	11 U	11 U
ANTHRACENE			1.066	31.5	11 U	11 U	11 U
BENZO(A)ANTHRACENE			1.098	3.8	11 U	11 U	11 U
BENZO(A)PYRENE			1.119	2.4	11 U	11 U	11 U
BENZO(B)FLUORANTHENE			1.371	4.9	11 U	11 U	11 U
BENZO(G,H,I)PERYLENE			0.647	16.9	11 U	11 U	11 U
BENZO(K)FLUORANTHENE			1.106	12.6	11 U	11 U	11 U
BENZOIC ACID			0.227	8.7	11 U	56 U	56 U
BENZYL ALCOHOL			0.741	4.6	11 U	11 U	8 J
BIS(2-CHLOROETHOXY)METHANE			0.547	9.7	11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER			1.338	17.2	11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER			2.684	11.3	11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE			0.903	6.6	2 J	3 J	28
BUTYLBENZYLPHTHALATE			0.895	25.3	11 U	11 U	14
CHRYSENE			1.033	6.5	11 U	11 U	11 U
DI-N-BUTYLPHTHALATE			1.341	37.5	11 U	0.8 J	210
DI-N-OCTYL PHTHALATE			2.193	54.6	11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE			0.613	16.6	11 U	11 U	11 U
DIBENZOFURAN			1.724	27.5	11 U	11 U	11 U
DIETHYLPHTHALATE			1.551	44.2	11 U	11 U	11 U
DIMETHYLPHTHALATE			1.488	4.1	11 U	11 U	11 U
FLUORANTHENE			0.998	11.8	11 U	11 U	11 U
FLUORENE			1.294	14.8	11 U	11 U	11 U
HEXACHLOROBENZENE			0.332	0.6	11 U	11 U	11 U
HEXACHLOROBUTADIENE			0.252	6.2	11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE			0.258	14.8	11 U	11 U	11 U
HEXACHLOROETHANE			0.718	14.9	11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE			0.713	13.8	11 U	11 U	11 U
ISOPHORONE			0.931	1.5	11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE			1.204	11.3	11 U	11 U	11 U
N-NITROSODIPHENYLAMINE			0.469	23	11 U	11 U	11 U
NAPHTHALENE			1.107	30	11 U	11 U	11 U
NITROBENZENE			0.457	0.1	11 U	11 U	11 U
NITROBENZENE-D5			0.456	7.7			
PENTACHLOROPHENOL			0.153	21.7	56 U	56 U	56 U
PHENANTHRENE			1.067	24.8	11 U	11 U	11 U
PHENOL			1.535	7.4	11 U	11 U	11 U
PHENOL-D5			1.372	0.8			

TABLE D.7.27 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD30 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	ISTD RET TIM	TUNED	CONTINUING	CONTINUING	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	SHIFT	CALIBRATION	CALIBRATION	CAL %D	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1230878	AR1230875	AR1230877	AR1230877	AR500488E	AR500502E	AR500557E
MATRIX					WATER	WATER	WATER
UNITS	AREA	%	RRF	%	UG/L	UG/L	UG/L
ENV PROBLEM NO					10	10	10
PYRENE			1.752	33	11 U	11 U	11 U
TERPHENYL-D14			0.934	17.6			
1,2-DICHLOROBENZENE			1.526	5.1	11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE			0.389	3.2	11 U	11 U	11 U
1,3-DICHLOROBENZENE			1.473	6.3	11 U	11 U	11 U
1,4-DICHLOROBENZENE			1.573	13.2	11 U	11 U	11 U
2-CHLORONAPHTHALENE			1.203	8.3	11 U	11 U	11 U
2-CHLOROPHENOL			1.344	24.8	11 U	11 U	11 U
2-FLUOROBIPHENYL			1.322	18.9			
2-FLUOROPHENOL			1.04	5			
2-METHYLNAPHTHALENE			0.708	14.8	11 U	11 U	11 U
2-METHYLPHENOL			1.141	11.1	11 U	11 U	11 U
2-NITROANILINE			0.517	20.9	56 U	56 U	56 U
2-NITROPHENOL			0.232	1.2	11 U	11 U	11 U
2,4-DICHLOROPHENOL			0.34	0.4	11 U	11 U	11 U
2,4-DIMETHYLPHENOL			0.393	7.7	11 U	11 U	11 U
2,4-DINITROPHENOL			0.098	49.4	56 U	56 U	56 U
2,4-DINITROTOLUENE			0.47	3.5	11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL			0.44	0.9	56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL			0.181	4.6			
2,4,6-TRICHLOROPHENOL			0.417	8.2	11 U	11 U	11 U
2,6-DINITROTOLUENE			0.333	8.9	11 U	11 U	11 U
3-NITROANILINE			0.088	79.4	56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE			0.11	6.3	22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER			0.256	6.1	11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL			0.381	0.3	11 U	11 U	11 U
4-CHLOROANILINE			0.058	74.6	11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER			0.552	2.4	11 U	11 U	11 U
4-METHYLPHENOL			1.114	3.8	11 U	11 U	11 U
4-NITROANILINE			0.128	0.3	56 U	56 U	56 U
4-NITROPHENOL			0.164	10.1	56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL			0.12	28.7	56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY					51	48	42
SURR 2(FBP) %RECOVERY					52	54	46
SURR 3(TPH) %RECOVERY					42	21 *	62
SURR 4(PHL) %RECOVERY					23	33	51
SURR 5(2FP) %RECOVERY					47	28	40
SURR 6(TBP) %RECOVERY					59	57	59

TABLE D.7.27 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD30

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			
LOCATION	ISTD RET TIM SHIFT	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER
TYPE OF LOCATION							
SAMPLE NUMBER	AR1230878	AR1230875	AR1230877	AR1230877	AR500488E	AR500502E	AR500557E
MATRIX					WATER	WATER	WATER
UNITS	AREA	%	RRF	%	UG/L	UG/L	UG/L
ENV PROBLEM NO					10	10	10
M/E 51		46					
M/E 68-1		0					
M/E 68-2		0					
M/E 69		56					
M/E 70-1		0.3					
M/E 70-2		0.4					
M/E 127		42					
M/E 197		0					
M/E 198		100					
M/E 199		7.3					
M/E 275		22					
M/E 365		3					
M/E 441		12					
M/E 442		83					
M/E 443-1		15					
M/E 443-2		18					
INTERNAL STD AREA(ANT)	5530000				6160000	6830000	6370000
INTERNAL STD AREA(CRY)	5130000				7760000	6660000	5740000
INTERNAL STD AREA(DCB)	2690000				2610000	2740000	2560000
INTERNAL STD AREA(NPT)	9290000				9790000	1E+07	9610000
INTERNAL STD AREA(PHN)	9280000				1E+07	1E+07	1E+07
INTERNAL STD AREA(PRY)	2740000				3390000	3030000	2880000
DILUTION FACTOR					1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME					12(7 D)	7(7 D)	12(7 D)

AREA						QA	
LOCATION	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	NIKE SITE DRAINS	SITE A SITE A	METHOD BLANK	
TYPE OF LOCATION							
SAMPLE NUMBER	AR500568E	AR500579E	AR500580E	AR808058	AR815137E	SBKDD30	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	10	10	10	21	25		
ACENAPHTHENE	11 U	11 U	11 U	11 U	11 U	11 U	

TABLE D.7.27 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD30 DRAFT DO NOT CITE

AREA						QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	NIKE SITE	SITE A	METHOD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	DRAINS	SITE A	BLANK
SAMPLE NUMBER	AR500568E	AR500579E	AR500580E	AR808058	AR815137E	SBKDD30
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	10	10	10	21	25	
ACENAPHTHYLENE	11 U	11 U	11 U	11 U	11 U	11 U
ANTHRACENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(A)ANTHRACENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(A)PYRENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(B)FLUORANTHENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(G,H,I)PERYLENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZO(K)FLUORANTHENE	11 U	11 U	11 U	11 U	11 U	11 U
BENZOIC ACID	56 U	56 U	56 U	56 U	56 U	56 U
BENZYL ALCOHOL	11 U	11 U	11 U	11 U	11 U	11 U
BIS(2-CHLOROETHOXY)METHANE	11 U	11 U	11 U	11 U	11 U	11 U
BIS(2-CHLOROETHYL)ETHER	11 U	11 U	11 U	11 U	11 U	11 U
BIS(2-CHLOROISOPROPYL)ETHER	11 U	11 U	11 U	11 U	11 U	11 U
BIS(2-ETHYLHEXYL)PHTHALATE	2 J	10 J	3 J	2 J	30	2 J
BUTYLBENZYLPHTHALATE	11 U	2 J	11 U	11 U	11 U	11 U
CHRYSENE	11 U	11 U	11 U	11 U	11 U	11 U
DI-N-BUTYLPHTHALATE	4 J	9 J	0.7 J	11 U	11 U	0.8 J
DI-N-OCTYL PHTHALATE	11 U	11 U	11 U	11 U	11 U	11 U
DIBENZ(A,H)ANTHRACENE	11 U	11 U	11 U	11 U	11 U	11 U
DIBENZOFURAN	11 U	11 U	11 U	11 U	11 U	11 U
DIETHYLPHTHALATE	11 U	11 U	11 U	11 U	11 U	11 U
DIMETHYLPHTHALATE	11 U	11 U	11 U	11 U	11 U	11 U
FLUORANTHENE	11 U	11 U	11 U	11 U	11 U	11 U
FLUORENE	11 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROBUTADIENE	11 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROCYCLOPENTADIENE	11 U	11 U	11 U	11 U	11 U	11 U
HEXACHLOROETHANE	11 U	11 U	11 U	11 U	11 U	11 U
INDENO(1,2,3-CD)PYRENE	11 U	11 U	11 U	11 U	11 U	11 U
ISOPHORONE	11 U	11 U	11 U	11 U	11 U	11 U
N-NITROSO-DI-N-PROPYLAMINE	11 U	11 U	11 U	11 U	11 U	11 U
N-NITROSODIPHENYLAMINE	11 U	11 U	11 U	11 U	11 U	11 U
NAPHTHALENE	6 J	64	11 U	11 U	11 U	11 U
NITROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
NITROBENZENE-D5						
PENTACHLOROPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
PHENANTHRENE	11 U	1 J	11 U	11 U	11 U	11 U
PHENOL	5 J	180	11 U	11 U	11 U	11 U
PHENOL-D5						
PYRENE	11 U	11 U	11 U	11 U	11 U	11 U

TABLE D.7.27 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD30 DRAFT DO NOT CITE

AREA						QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	NIKE SITE	SITE A	METHOD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	DRAINS	SITE A	BLANK
SAMPLE NUMBER	AR500568E	AR500579E	AR500580E	AR808058	AR815137E	SBKDD30
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	10	10	10	21	25	
TERPHENYL-D14						
1,2-DICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
1,2,4-TRICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
1,3-DICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
1,4-DICHLOROBENZENE	11 U	11 U	11 U	11 U	11 U	11 U
2-CHLORONAPHTHALENE	11 U	11 U	11 U	11 U	11 U	11 U
2-CHLOROPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2-FLUOROBIPHENYL						
2-FLUOROPHENOL						
2-METHYLNAPHTHALENE	11 U	5 J	11 U	11 U	11 U	11 U
2-METHYLPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2-NITROANILINE	56 U	56 U	56 U	56 U	56 U	56 U
2-NITROPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2,4-DICHLOROPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2,4-DIMETHYLPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2,4-DINITROPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
2,4-DINITROTOLUENE	11 U	11 U	11 U	11 U	11 U	11 U
2,4,5-TRICHLOROPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
2,4,6-TRIBROMOPHENOL						
2,4,6-TRICHLOROPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
2,6-DINITROTOLUENE	11 U	11 U	11 U	11 U	11 U	11 U
3-NITROANILINE	56 U	56 U	56 U	56 U	56 U	56 U
3,3'-DICHLOROBENZIDINE	22 U	22 U	22 U	22 U	22 U	22 U
4-BROMOPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U	11 U	11 U
4-CHLORO-3-METHYLPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
4-CHLOROANILINE	11 U	11 U	11 U	11 U	11 U	11 U
4-CHLOROPHENYL-PHENYLETHER	11 U	11 U	11 U	11 U	11 U	11 U
4-METHYLPHENOL	11 U	11 U	11 U	11 U	11 U	11 U
4-NITROANILINE	56 U	56 U	56 U	56 U	56 U	56 U
4-NITROPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
4,6-DINITRO-2-METHYLPHENOL	56 U	56 U	56 U	56 U	56 U	56 U
SURR 1(NBZ) %RECOVERY	27 *	22 *	34 *	65	42	58
SURR 2(FBP) %RECOVERY	34 *	27 *	23 *	61	50	62
SURR 3(TPH) %RECOVERY	36	34	33	101	99	99
SURR 4(PHL) %RECOVERY	24	26	17	27	32	27
SURR 5(2FP) %RECOVERY	21 *	22	24	36	45	36
SURR 6(TBP) %RECOVERY	37	64	44	58	60	67

M/E 51

TABLE D.7.27 ARGONNE EXTRACTABLE ORGANICS - SDG NUMBER: DD30 DRAFT DO NOT CITE

AREA						QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	NIKE SITE	SITE A	METHOD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	DRAINS	SITE A	BLANK
SAMPLE NUMBER	AR500568E	AR500579E	AR500580E	AR808058	AR815137E	SBKDD30
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	10	10	10	21	25	
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)	6450000	5750000	6140000	5670000	5640000	5910000
INTERNAL STD AREA(CRY)	7300000	6060000	6350000	6080000	5860000	5630000
INTERNAL STD AREA(DCB)	2560000	2610000	2610000	2450000	2540000	2470000
INTERNAL STD AREA(NPT)	9550000	8590000	8950000	7850000	8780000	8470000
INTERNAL STD AREA(PHN)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
INTERNAL STD AREA(PRY)	4020000	3270000	3490000	3360000	2990000	3060000
DILUTION FACTOR	1.1	1.1	1.1	1.1	1.1	1.1
ACTUAL(ALLOWED) EXTRACT TIME	8(7 D)	8(7 D)	12(7 D)	8(7 D)	12(7 D)	

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
AR406030G					
	AR406030E		UNKNOWN HYDROCARBON(7.63)	20 J	7.63
	AR406030E		UNKNOWN(16.57)	11 J	16.57
	AR406030E		UNKNOWN(22.98)	16 J	22.98
	AR406030E		UNKNOWN(26.92)	19 J	26.92
	AR406041E		UNKNOWN HYDROCARBON(7.63)	17 J	7.63
	AR406041E		UNKNOWN(17.43)	8 J	17.43
	AR406041E		UNKNOWN(23.02)	11 J	23.02
	AR406041E		UNKNOWN(24.63)	10 J	24.63
	AR406041E		UNKNOWN(26.93)	14 J	26.93
	AR407019C		POSS METHYLPHENYLETHANO(10.33)	3000 J	10.33
	AR407019C		POSS SUBST BENZENE C18H(18.43)	4000 J	18.43
	AR407019C		UNKNOWN HYDROCARBON(16.57)	3500 J	16.57
	AR407019C		UNKNOWN HYDROCARBON(22.93)	3900 J	22.93
	AR407019C		UNKNOWN HYDROCARBON(23.72)	5300 J	23.72
	AR407019C		UNKNOWN(6.32)	3500 J	6.32
	AR407019C		UNKNOWN(15.85)	1900 J	15.85
	AR407019C		UNKNOWN(16.68)	2900 J	16.68
	AR407019C		UNKNOWN(18.33)	3100 J	18.33
	AR407019C		UNKNOWN(18.73)	5700 J	18.73
	AR407019C		UNKNOWN(20.90)	8600 J	20.90
	AR407019C		UNKNOWN(22.02)	12000 J	22.02
	AR407019C		UNKNOWN(24.90)	5700 J	24.90
	AR407019C		UNKNOWN(26.93)	4600 J	26.93
	AR407019C		UNKNOWN(27.53)	7400 J	27.53
	AR407019C		UNKNOWN(29.05)	5700 J	29.05
	AR407019C		UNKNOWN(31.67)	7000 J	31.67
	AR407019C		UNKNOWN(33.25)	11000 J	33.25
	AR407019C	57-10-3	POSS HEXADECANOIC ACID	7800 J	19.22
	AR407019C	57-10-3	POSS HEXADECANOIC ACID(19.22)	7800 J	19.22
	AR407019C	83-33-0	POSS 1H-INDEN-1ONE,2,3-(11.95)	4700 J	11.95
	AR407086C		UNKNOWN(6.33)	3600 J	6.33
	AR407086C		UNKNOWN(7.35)	360 J	7.35
	AR407086C		UNKNOWN(24.70)	600 J	24.70
	AR407086C		UNKNOWN(25.23)	580 J	25.23
	AR407086C		UNKNOWN(27.47)	1200 J	27.47
	AR407155E		UNKNOWN(24.63)	17 J	24.63
	AR407155E		UNKNOWN(26.90)	66 J	26.90
	AR407155E	124-18-5	POSS DECANE(7.62)	40 J	7.62
	AR413017E		UNKNOWN HYDROCARBON(7.60)	30 J	7.60
	AR413017E		UNKNOWN(24.60)	11 J	24.60
	AR413028E		UNKNOWN HYDROCARBON(7.62)	22 J	7.62
	AR413028E		UNKNOWN(26.85)	31 J	26.85
	AR413062F		UNKNOWN(24.60)	16 J	24.60
	AR413062F		UNKNOWN(26.88)	17 J	26.88
	AR413062F	124-18-5	POSS DECANE(7.62)	31 J	7.62
	AR417011C		UNKNOWN HYDROCARBON(13.92)	390 J	13.92
	AR417011C		UNKNOWN HYDROCARBON(14.35)	370 J	14.35

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
AR406030G					
	AR417011C		UNKNOWN HYDROCARBON(15.48)	390 J	15.48
	AR417011C		UNKNOWN HYDROCARBON(16.63)	1700 J	16.63
	AR417011C		UNKNOWN HYDROCARBON(17.58)	680 J	17.58
	AR417011C		UNKNOWN HYDROCARBON(17.72)	1100 J	17.72
	AR417011C		UNKNOWN HYDROCARBON(18.58)	750 J	18.58
	AR417011C		UNKNOWN HYDROCARBON(19.52)	710 J	19.52
	AR417011C		UNKNOWN HYDROCARBON(20.42)	730 J	20.42
	AR417011C		UNKNOWN HYDROCARBON(21.28)	770 J	21.28
	AR417011C		UNKNOWN HYDROCARBON(22.12)	800 J	22.12
	AR417011C		UNKNOWN HYDROCARBON(22.93)	880 J	22.93
	AR417011C		UNKNOWN HYDROCARBON(23.68)	740 J	23.68
	AR417011C		UNKNOWN HYDROCARBON(24.50)	520 J	24.50
	AR417011C		UNKNOWN HYDROCARBON(25.37)	700 J	25.37
	AR417011C		UNKNOWN(6.33)	4100 J	6.33
	AR417011C		UNKNOWN(16.05)	1100 J	16.05
	AR417011C		UNKNOWN(16.55)	560 J	16.55
	AR417011C		UNKNOWN(26.85)	1100 J	26.85
	1207SBLK1		UNKNOWN HYDROCARBON(7.63)	44 J	7.63
	1207SBLK3		UNKNOWN(6.30)	2900 J	6.30
	1207SBLK2		UNKNOWN(6.32)	2500 J	6.32
	1207SBLK2		UNKNOWN(6.95)	360 J	6.95
	1207SBLK3		UNKNOWN(6.95)	490 J	6.95
	1207SBLK2		UNKNOWN(7.35)	350 J	7.35
	1207SBLK2		UNKNOWN(26.78)	700 J	26.78
	1207SBLK1		UNKNOWN(26.92)	37 J	26.92
CD22					
	AR505018B		UNKNOWN(7.66)	140 J	7.66
	AR505018B		UNKNOWN(9.32)	520 J	9.32
	AR505018B		UNKNOWN(10.28)	130 J	10.28
	AR505018B		UNKNOWN(11.24)	69 J	11.24
	AR505018B		UNKNOWN(11.31)	120 J	11.31
	AR505018B		UNKNOWN(11.83)	120 J	11.83
	AR505018B		UNKNOWN(12.78)	68 J	12.78
	AR505018B		UNKNOWN(15.18)	560 J	15.18
	AR505018B		UNKNOWN(18.48)	280 J	18.48
	AR505018B		UNKNOWN(19.45)	98 J	19.45
	AR505018B		UNKNOWN(21.42)	140 J	21.42
	AR505018B		UNKNOWN(22.24)	320 J	22.24
	AR505018B		UNKNOWN(24.05)	140 J	24.05
	AR505018B		UNKNOWN(24.82)	420 J	24.82
	AR505018B		UNKNOWN(27.09)	320 J	27.09
	AR505018B		UNKNOWN(27.42)	96 J	27.42
	AR505018B		UNKNOWN(29.12)	180 J	29.12
	AR505018B		UNKNOWN(30.25)	270 J	30.25
	AR505018B		UNKNOWN(33.21)	5700 J	33.21
	AR505018B		UNKNOWN(39.31)	1100 J	39.31

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD22					
	AR505029B		UNKNOWN(9.32)	530 J	9.32
	AR505029B		UNKNOWN(10.27)	170 J	10.27
	AR505029B		UNKNOWN(15.17)	170 J	15.17
	AR505029B		UNKNOWN(18.48)	810 J	18.48
	AR505029B		UNKNOWN(19.43)	230 J	19.43
	AR505029B		UNKNOWN(21.42)	800 J	21.42
	AR505029B		UNKNOWN(22.24)	600 J	22.24
	AR505029B		UNKNOWN(22.60)	150 J	22.60
	AR505029B		UNKNOWN(24.05)	830 J	24.05
	AR505029B		UNKNOWN(24.82)	980 J	24.82
	AR505029B		UNKNOWN(26.33)	510 J	26.33
	AR505029B		UNKNOWN(27.09)	840 J	27.09
	AR505029B		UNKNOWN(27.42)	440 J	27.42
	AR505029B		UNKNOWN(28.37)	370 J	28.37
	AR505029B		UNKNOWN(29.13)	620 J	29.13
	AR505029B		UNKNOWN(29.26)	210 J	29.26
	AR505029B		UNKNOWN(30.25)	810 J	30.25
	AR505029B		UNKNOWN(31.94)	580 J	31.94
	AR505029B		UNKNOWN(32.86)	1100 J	32.86
	AR505029B		UNKNOWN(33.22)	7600 J	33.22
	AR507010B		DIMETHYLNAPHTHALENE(19.86)	410 J	19.86
	AR507010B		DIMETHYLNAPHTHALENE(20.18)	470 J	20.18
	AR507010B		SULFUR(29.30)	1900 J	29.30
	AR507010B		UNKNOWN HYDROCARBON(20.77)	470 J	20.77
	AR507010B		UNKNOWN HYDROCARBON(24.58)	2100 J	24.58
	AR507010B		UNKNOWN(7.70)	300 J	7.70
	AR507010B		UNKNOWN(9.35)	840 J	9.35
	AR507010B		UNKNOWN(15.17)	690 J	15.17
	AR507010B		UNKNOWN(16.01)	290 J	16.01
	AR507010B		UNKNOWN(18.17)	700 J	18.17
	AR507010B		UNKNOWN(19.32)	320 J	19.32
	AR507010B		UNKNOWN(19.67)	360 J	19.67
	AR507010B		UNKNOWN(19.73)	550 J	19.73
	AR507010B		UNKNOWN(21.40)	920 J	21.40
	AR507010B		UNKNOWN(22.51)	370 J	22.51
	AR507010B		UNKNOWN(24.48)	700 J	24.48
	AR507010B		UNKNOWN(25.11)	610 J	25.11
	AR507010B		UNKNOWN(25.39)	490 J	25.39
	AR507010B		UNKNOWN(27.68)	590 J	27.68
	AR507010B		UNKNOWN(33.20)	9800 J	33.20
	AR507021B		DIMETHYLNAPHTHALENE(19.86)	290 J	19.86
	AR507021B		DIMETHYLNAPHTHALENE(20.12)	440 J	20.12
	AR507021B		TRIMETHYLNAPHTHALENE(22.24)	240 J	22.24
	AR507021B		UNKNOWN(9.35)	1300 J	9.35
	AR507021B		UNKNOWN(10.27)	660 J	10.27
	AR507021B		UNKNOWN(12.79)	230 J	12.79
	AR507021B		UNKNOWN(16.01)	210 J	16.01
	AR507021B		UNKNOWN(18.17)	290 J	18.17

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD22					
	AR507021B		UNKNOWN(18.47)	230 J	18.47
	AR507021B		UNKNOWN(19.31)	230 J	19.31
	AR507021B		UNKNOWN(19.71)	540 J	19.71
	AR507021B		UNKNOWN(20.77)	350 J	20.77
	AR507021B		UNKNOWN(21.40)	820 J	21.40
	AR507021B		UNKNOWN(23.77)	780 J	23.77
	AR507021B		UNKNOWN(24.47)	530 J	24.47
	AR507021B		UNKNOWN(24.57)	1800 J	24.57
	AR507021B		UNKNOWN(25.10)	430 J	25.10
	AR507021B		UNKNOWN(27.25)	350 J	27.25
	AR507021B		UNKNOWN(29.26)	970 J	29.26
	AR507021B		UNKNOWN(33.20)	29000 J	33.20
	AR507032B		DIMETHYLNAPHTHALENE(19.86)	130 J	19.86
	AR507032B		DIMETHYLNAPHTHALENE(20.10)	120 J	20.10
	AR507032B		SULFUR(29.24)	490 J	29.24
	AR507032B		UNKNOWN(9.34)	970 J	9.34
	AR507032B		UNKNOWN(10.29)	580 J	10.29
	AR507032B		UNKNOWN(11.25)	140 J	11.25
	AR507032B		UNKNOWN(11.33)	200 J	11.33
	AR507032B		UNKNOWN(15.16)	630 J	15.16
	AR507032B		UNKNOWN(16.01)	150 J	16.01
	AR507032B		UNKNOWN(18.17)	120 J	18.17
	AR507032B		UNKNOWN(18.47)	340 J	18.47
	AR507032B		UNKNOWN(19.70)	310 J	19.70
	AR507032B		UNKNOWN(20.77)	170 J	20.77
	AR507032B		UNKNOWN(21.21)	120 J	21.21
	AR507032B		UNKNOWN(21.39)	430 J	21.39
	AR507032B		UNKNOWN(22.24)	130 J	22.24
	AR507032B		UNKNOWN(22.96)	220 J	22.96
	AR507032B		UNKNOWN(24.45)	200 J	24.45
	AR507032B		UNKNOWN(24.55)	590 J	24.55
	AR507032B		UNKNOWN(33.20)	37000 J	33.20
	AR800016B		UNKNOWN(8.06)	230 J	8.06
	AR800016B		UNKNOWN(9.36)	440 J	9.36
	AR800016B		UNKNOWN(15.16)	1300 J	15.16
	AR800016B		UNKNOWN(15.35)	680 J	15.35
	AR800016B		UNKNOWN(18.46)	750 J	18.46
	AR800016B		UNKNOWN(20.94)	440 J	20.94
	AR800016B		UNKNOWN(21.40)	460 J	21.40
	AR800016B		UNKNOWN(23.95)	400 J	23.95
	AR800016B		UNKNOWN(24.04)	450 J	24.04
	AR800016B		UNKNOWN(26.29)	610 J	26.29
	AR800016B		UNKNOWN(28.32)	470 J	28.32
	AR800016B		UNKNOWN(29.22)	370 J	29.22
	AR800016B		UNKNOWN(30.19)	840 J	30.19
	AR800016B		UNKNOWN(31.90)	630 J	31.90
	AR800016B		UNKNOWN(33.17)	8500 J	33.17
	AR800016B		UNKNOWN(33.20)	8000 J	33.20

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD22					
	AR800027B		SULFUR(29.23)	580 J	29.23
	AR800027B		UNKNOWN(8.04)	310 J	8.04
	AR800027B		UNKNOWN(9.34)	470 J	9.34
	AR800027B		UNKNOWN(10.29)	150 J	10.29
	AR800027B		UNKNOWN(12.55)	84 J	12.55
	AR800027B		UNKNOWN(15.16)	690 J	15.16
	AR800027B		UNKNOWN(18.46)	240 J	18.46
	AR800027B		UNKNOWN(21.41)	150 J	21.41
	AR800027B		UNKNOWN(24.04)	130 J	24.04
	AR800027B		UNKNOWN(33.19)	12000 J	33.19
	AR800038B		UNKNOWN(7.26)	22000 J	7.26
	AR800038B		UNKNOWN(7.62)	630 J	7.62
	AR800038B		UNKNOWN(8.03)	3500 J	8.03
	AR800038B		UNKNOWN(8.40)	270 J	8.40
	AR800038B		UNKNOWN(29.22)	3500 J	29.22
	AR800038B		UNKNOWN(33.17)	27000 J	33.17
	AR800049B		UNKNOWN(8.03)	320 J	8.03
	AR800049B		UNKNOWN(12.55)	40 J	12.55
	AR800049B		UNKNOWN(13.56)	59 J	13.56
	AR800049B		UNKNOWN(15.16)	510 J	15.16
	AR800049B		UNKNOWN(18.45)	160 J	18.45
	AR800049B		UNKNOWN(21.39)	110 J	21.39
	AR800049B		UNKNOWN(24.03)	75 J	24.03
	AR800049B		UNKNOWN(25.86)	79 J	25.86
	AR800049B		UNKNOWN(29.21)	100 J	29.21
	AR800049B		UNKNOWN(33.20)	19000 J	33.20
CD23					
	AR800050B		SULFUR(29.31)	3000 J	29.31
	AR800050B		UNKNOWN(10.25)	170 J	10.25
	AR800050B		UNKNOWN(11.24)	90 J	11.24
	AR800050B		UNKNOWN(11.31)	130 J	11.31
	AR800050B		UNKNOWN(15.16)	1300 J	15.16
	AR800050B		UNKNOWN(18.47)	1100 J	18.47
	AR800050B		UNKNOWN(21.41)	920 J	21.41
	AR800050B		UNKNOWN(24.04)	720 J	24.04
	AR800050B		UNKNOWN(26.32)	470 J	26.32
	AR800050B		UNKNOWN(28.36)	340 J	28.36
	AR800050B		UNKNOWN(31.92)	800 J	31.92
	AR800050B		UNKNOWN(33.19)	8300 J	33.19
	AR800050B		UNKNOWN(33.49)	2400 J	33.49
	AR800050B		UNKNOWN(34.90)	1400 J	34.90
	AR800050B		UNKNOWN(35.70)	770 J	35.70
	AR800050B		UNKNOWN(43.59)	3000 J	43.59
	AR800050B		UNKNOWN(44.36)	1300 J	44.36
	AR800050B		UNKNOWN(44.96)	1000 J	44.96
	AR800050B		UNKNOWN(47.48)	2500 J	47.48

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD23					
	AR800061B		UNKNOWN(8.42)	47 J	8.42
	AR800061B		UNKNOWN(10.34)	68 J	10.34
	AR800061B		UNKNOWN(11.26)	59 J	11.26
	AR800061B		UNKNOWN(11.33)	100 J	11.33
	AR800061B		UNKNOWN(12.55)	55 J	12.55
	AR800061B		UNKNOWN(12.76)	170 J	12.76
	AR800061B		UNKNOWN(15.16)	1200 J	15.16
	AR800061B		UNKNOWN(15.50)	64 J	15.50
	AR800061B		UNKNOWN(16.27)	57 J	16.27
	AR800061B		UNKNOWN(18.46)	450 J	18.46
	AR800061B		UNKNOWN(21.41)	280 J	21.41
	AR800061B		UNKNOWN(24.04)	210 J	24.04
	AR800061B		UNKNOWN(25.86)	65 J	25.86
	AR800061B		UNKNOWN(26.31)	160 J	26.31
	AR800061B		UNKNOWN(28.01)	100 J	28.01
	AR800061B		UNKNOWN(28.36)	91 J	28.36
	AR800061B		UNKNOWN(29.23)	310 J	29.23
	AR802018C		UNKNOWN(9.51)	430 J	9.51
	AR802018C		UNKNOWN(10.66)	82 J	10.66
	AR802018C		UNKNOWN(11.45)	75 J	11.45
	AR802018C		UNKNOWN(13.56)	39 J	13.56
	AR802018C		UNKNOWN(14.13)	36 J	14.13
	AR802018C		UNKNOWN(14.86)	86 J	14.86
	AR802018C		UNKNOWN(15.78)	32 J	15.78
	AR802018C		UNKNOWN(19.22)	43 J	19.22
	AR802018C		UNKNOWN(21.19)	34 J	21.19
	AR802018C		UNKNOWN(21.58)	30 J	21.58
	AR802018C		UNKNOWN(23.84)	45 J	23.84
	AR802018C		UNKNOWN(25.86)	53 J	25.86
	AR802018C		UNKNOWN(27.77)	51 J	27.77
	AR802018C		UNKNOWN(27.90)	94 J	27.90
	AR802018C		UNKNOWN(28.02)	140 J	28.02
	AR802018C		UNKNOWN(30.20)	270 J	30.20
	AR802018C		UNKNOWN(35.24)	330 J	35.24
	AR802018C		UNKNOWN(37.47)	630 J	37.47
CD24					
	AR802029C		UNKNOWN(7.90)	56 J	7.90
	AR802029C		UNKNOWN(7.95)	58 J	7.95
	AR802029C		UNKNOWN(8.40)	75 J	8.40
	AR802029C		UNKNOWN(9.36)	860 J	9.36
	AR802029C		UNKNOWN(9.52)	480 J	9.52
	AR802029C		UNKNOWN(10.66)	84 J	10.66
	AR802029C		UNKNOWN(11.25)	110 J	11.25
	AR802029C		UNKNOWN(11.32)	160 J	11.32
	AR802029C		UNKNOWN(11.44)	130 J	11.44
	AR802029C		UNKNOWN(11.80)	330 J	11.80

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD24					
	AR802029C		UNKNOWN(14.14)	79 J	14.14
	AR802029C		UNKNOWN(14.87)	130 J	14.87
	AR802029C		UNKNOWN(15.46)	45 J	15.46
	AR802029C		UNKNOWN(15.81)	63 J	15.81
	AR802029C		UNKNOWN(19.22)	47 J	19.22
	AR802029C		UNKNOWN(22.98)	95 J	22.98
	AR802029C		UNKNOWN(26.19)	64 J	26.19
	AR802029C		UNKNOWN(27.89)	76 J	27.89
	AR802029C		UNKNOWN(28.02)	200 J	28.02
	AR802029C		UNKNOWN(30.22)	420 J	30.22
	AR802030C		MYREX(35.25)	330 J	35.25
	AR802030C		UNKNOWN(7.95)	62 J	7.95
	AR802030C		UNKNOWN(9.18)	51 J	9.18
	AR802030C		UNKNOWN(9.35)	800 J	9.35
	AR802030C		UNKNOWN(9.52)	530 J	9.52
	AR802030C		UNKNOWN(10.66)	71 J	10.66
	AR802030C		UNKNOWN(11.25)	110 J	11.25
	AR802030C		UNKNOWN(11.32)	170 J	11.32
	AR802030C		UNKNOWN(14.14)	80 J	14.14
	AR802030C		UNKNOWN(14.87)	68 J	14.87
	AR802030C		UNKNOWN(15.80)	140 J	15.80
	AR802030C		UNKNOWN(22.99)	120 J	22.99
	AR802030C		UNKNOWN(26.51)	63 J	26.51
	AR802030C		UNKNOWN(28.02)	140 J	28.02
	AR802030C		UNKNOWN(39.99)	440 J	39.99
	AR802041C		UNKNOWN(7.58)	25000 J	7.58
	AR802041C		UNKNOWN(9.38)	540 J	9.38
	AR802041C		UNKNOWN(9.52)	360 J	9.52
	AR802041C		UNKNOWN(11.80)	310 J	11.80
	AR802052C		UNKNOWN(7.70)	26000 J	7.70
	AR802052C		UNKNOWN(9.42)	550 J	9.42
	AR802052C		UNKNOWN(9.49)	370 J	9.49
	AR802052C		UNKNOWN(11.78)	440 J	11.78
	AR802063C		UNKNOWN(7.62)	20000 J	7.62
	AR802063C		UNKNOWN(9.40)	530 J	9.40
	AR802063C		UNKNOWN(9.54)	260 J	9.54
	AR802063C		UNKNOWN(11.83)	440 J	11.83
	AR802063C		UNKNOWN(33.21)	1600 J	33.21
	AR802074C		UNKNOWN(7.75)	410 J	7.75
	AR802074C		UNKNOWN(7.85)	360 J	7.85
	AR802074C		UNKNOWN(8.09)	560 J	8.09
	AR802074C		UNKNOWN(9.40)	1100 J	9.40
	AR802074C		UNKNOWN(9.54)	490 J	9.54
	AR802074C		UNKNOWN(10.28)	200 J	10.28
	AR802074C		UNKNOWN(11.34)	180 J	11.34
	AR802074C		UNKNOWN(11.87)	130 J	11.87
	AR802074C		UNKNOWN(14.87)	120 J	14.87
	AR802074C		UNKNOWN(19.23)	100 J	19.23

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD24					
	AR802074C		UNKNOWN(26.81)	280 J	26.81
	AR802074C		UNKNOWN(33.23)	1500 J	33.23
	AR802085C		UNKNOWN(7.59)	8900 J	7.59
	AR802085C		UNKNOWN(9.45)	590 J	9.45
	AR802085C		UNKNOWN(9.54)	1600 J	9.54
	AR802085C		UNKNOWN(10.36)	490 J	10.36
	AR802085C		UNKNOWN(11.14)	820 J	11.14
	AR802085C		UNKNOWN(11.51)	890 J	11.51
	AR802085C		UNKNOWN(11.84)	600 J	11.84
	AR802085C		UNKNOWN(26.85)	750 J	26.85
	AR802085C		UNKNOWN(28.03)	210 J	28.03
	AR802085C		UNKNOWN(28.59)	190 J	28.59
	AR802085C		UNKNOWN(32.70)	11 J	32.70
	AR802085C		UNKNOWN(33.07)	31 J	33.07
	AR802085C		UNKNOWN(33.28)	1500 J	33.28
	AR802085C		UNKNOWN(33.68)	16 J	33.68
	AR802096C		UNKNOWN(7.83)	330 J	7.83
	AR802096C		UNKNOWN(8.06)	610 J	8.06
	AR802096C		UNKNOWN(9.42)	1000 J	9.42
	AR802096C		UNKNOWN(9.51)	450 J	9.51
	AR802096C		UNKNOWN(9.77)	280 J	9.77
	AR802096C		UNKNOWN(10.28)	180 J	10.28
	AR802096C		UNKNOWN(11.50)	1400 J	11.50
	AR802096C		UNKNOWN(11.79)	410 J	11.79
	AR802096C		UNKNOWN(26.83)	340 J	26.83
	AR802096C		UNKNOWN(28.03)	210 J	28.03
	AR802096C		UNKNOWN(33.13)	30 J	33.13
	AR802096C		UNKNOWN(33.24)	1500 J	33.24
CD25					
	AR501014B		UNKNOWN(13.84)	160 J	13.84
	AR501014B		UNKNOWN(15.82)	210 J	15.82
	AR501014B		UNKNOWN(18.35)	260 J	18.35
	AR501014B		UNKNOWN(23.84)	360 J	23.84
	AR501014B		UNKNOWN(24.55)	640 J	24.55
	AR501014B		UNKNOWN(25.07)	400 J	25.07
	AR501014B		UNKNOWN(26.03)	690 J	26.03
	AR501014B		UNKNOWN(27.23)	1300 J	27.23
	AR501014B		UNKNOWN(27.98)	370 J	27.98
	AR501014B		UNKNOWN(29.20)	710 J	29.20
	AR501014B		UNKNOWN(31.61)	1500 J	31.61
	AR501014B		UNKNOWN(31.72)	1700 J	31.72
	AR501014B		UNKNOWN(33.62)	1500 J	33.62
	AR501014B		UNKNOWN(34.20)	2600 J	34.20
	AR501014B		UNKNOWN(37.90)	14000 J	37.90
	AR501014B		UNKNOWN(48.30)	2200 J	48.30
	AR501014B		UNKNOWN(49.52)	2200 J	49.52

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD25					
	AR817015C		UNKNOWN HYDROCARBON(7.98)	1200 J	7.98
	AR817015C		UNKNOWN HYDROCARBON(24.59)	5500 J	24.59
	AR817015C		UNKNOWN HYDROCARBON(25.93)	2100 J	25.93
	AR817015C		UNKNOWN HYDROCARBON(26.07)	7000 J	26.07
	AR817015C		UNKNOWN HYDROCARBON(26.52)	910 J	26.52
	AR817015C		UNKNOWN HYDROCARBON(27.19)	3400 J	27.19
	AR817015C		UNKNOWN HYDROCARBON(27.28)	2300 J	27.28
	AR817015C		UNKNOWN HYDROCARBON(28.58)	4000 J	28.58
	AR817015C		UNKNOWN HYDROCARBON(29.56)	6800 J	29.56
	AR817015C		UNKNOWN HYDROCARBON(31.46)	1500 J	31.46
	AR817015C		UNKNOWN HYDROCARBON(34.34)	1300 J	34.34
	AR817015C		UNKNOWN(7.45)	310 J	7.45
	AR817015C		UNKNOWN(7.59)	670 J	7.59
	AR817015C		UNKNOWN(7.72)	920 J	7.72
	AR817015C		UNKNOWN(9.31)	160 J	9.31
	AR817015C		UNKNOWN(9.47)	360 J	9.47
	AR817015C		UNKNOWN(11.49)	140 J	11.49
	AR817015C		UNKNOWN(15.19)	200 J	15.19
	AR817015C		UNKNOWN(18.24)	250 J	18.24
	AR817015C		UNKNOWN(23.95)	1100 J	23.95
	AR817026C		UNKNOWN(18.35)	27 J	18.35
	AR817026C		UNKNOWN(21.20)	81 J	21.20
	AR817026C		UNKNOWN(24.55)	29 J	24.55
	AR817026C		UNKNOWN(25.05)	29 J	25.05
	AR817026C		UNKNOWN(27.24)	100 J	27.24
	AR817026C		UNKNOWN(27.62)	27 J	27.62
	AR817026C		UNKNOWN(28.57)	35 J	28.57
	AR817026C		UNKNOWN(29.21)	62 J	29.21
	AR817026C		UNKNOWN(31.01)	210 J	31.01
	AR817026C		UNKNOWN(31.53)	170 J	31.53
	AR817026C		UNKNOWN(35.80)	140 J	35.80
	AR817026C		UNKNOWN(37.90)	1400 J	37.90
	AR817026C		UNKNOWN(38.76)	230 J	38.76
	AR817026C		UNKNOWN(39.48)	270 J	39.48
	AR817026C		UNKNOWN(42.00)	250 J	42.00
	AR817026C		UNKNOWN(45.14)	230 J	45.14
	AR817026C		UNKNOWN(48.18)	240 J	48.18
CD26					
	AR501025B		PHTHALIC ANHYDRIDE(18.17)	3100 J	18.17
	AR501025B		UNKNOWN HYDROCARBON(26.02)	1300 J	26.02
	AR501025B		UNKNOWN PHTHALATE(34.78)	2000 J	34.78
	AR501025B		UNKNOWN(7.58)	510 J	7.58
	AR501025B		UNKNOWN(21.20)	800 J	21.20
	AR501025B		UNKNOWN(25.08)	1300 J	25.08
	AR501025B		UNKNOWN(27.24)	4000 J	27.24
	AR501025B		UNKNOWN(29.21)	4600 J	29.21

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD26					
	AR501025B		UNKNOWN(30.21)	2200 J	30.21
	AR501025B		UNKNOWN(31.02)	5800 J	31.02
	AR501025B		UNKNOWN(32.70)	2100 J	32.70
	AR501025B		UNKNOWN(37.91)	12000 J	37.91
	AR501036B		BIPHENYL, PENTACHLORO-(29.62)	1000 J	29.62
	AR501036B		UNKNOWN(7.79)	520 J	7.79
	AR501036B		UNKNOWN(8.02)	570 J	8.02
	AR501036B		UNKNOWN(16.70)	360 J	16.70
	AR501036B		UNKNOWN(18.35)	440 J	18.35
	AR501036B		UNKNOWN(21.38)	340 J	21.38
	AR501036B		UNKNOWN(22.69)	700 J	22.69
	AR501036B		UNKNOWN(24.55)	650 J	24.55
	AR501036B		UNKNOWN(25.07)	3300 J	25.07
	AR501036B		UNKNOWN(26.02)	630 J	26.02
	AR501036B		UNKNOWN(27.23)	7100 J	27.23
	AR501036B		UNKNOWN(27.97)	640 J	27.97
	AR501036B		UNKNOWN(29.21)	6300 J	29.21
	AR501036B		UNKNOWN(30.20)	4800 J	30.20
	AR501036B		UNKNOWN(31.01)	21000 J	31.01
	AR501036B		UNKNOWN(31.12)	3800 J	31.12
	AR501036B		UNKNOWN(32.68)	9800 J	32.68
	AR501036B		UNKNOWN(37.90)	30000 J	37.90
	AR501047B		UNKNOWN(27.23)	2500 J	27.23
	AR501047B		UNKNOWN(29.20)	2600 J	29.20
	AR501047B		UNKNOWN(31.02)	3400 J	31.02
	AR501047B		UNKNOWN(37.91)	18000 J	37.91
	AR501047B		UNKNOWN(43.14)	2800 J	43.14
	AR501058B		UNKNOWN(18.35)	570 J	18.35
	AR501058B		UNKNOWN(21.20)	1700 J	21.20
	AR501058B		UNKNOWN(24.55)	610 J	24.55
	AR501058B		UNKNOWN(25.05)	610 J	25.05
	AR501058B		UNKNOWN(26.02)	770 J	26.02
	AR501058B		UNKNOWN(26.99)	560 J	26.99
	AR501058B		UNKNOWN(27.24)	2100 J	27.24
	AR501058B		UNKNOWN(27.62)	570 J	27.62
	AR501058B		UNKNOWN(28.57)	730 J	28.57
	AR501058B		UNKNOWN(29.21)	1300 J	29.21
	AR501058B		UNKNOWN(31.01)	4500 J	31.01
	AR501058B		UNKNOWN(31.53)	3500 J	31.53
	AR501058B		UNKNOWN(35.80)	2800 J	35.80
	AR501058B		UNKNOWN(37.90)	29000 J	37.90
	AR501058B		UNKNOWN(38.76)	4900 J	38.76
	AR501058B		UNKNOWN(39.48)	5600 J	39.48
	AR501058B		UNKNOWN(42.00)	5300 J	42.00
	AR501058B		UNKNOWN(45.14)	4800 J	45.14
	AR501058B		UNKNOWN(48.18)	5100 J	48.18
	AR501069B		UNKNOWN(13.84)	260 J	13.84
	AR501069B		UNKNOWN(15.82)	340 J	15.82

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD26					
	AR501069B		UNKNOWN(18.35)	410 J	18.35
	AR501069B		UNKNOWN(19.20)	260 J	19.20
	AR501069B		UNKNOWN(23.84)	580 J	23.84
	AR501069B		UNKNOWN(24.55)	1000 J	24.55
	AR501069B		UNKNOWN(25.07)	650 J	25.07
	AR501069B		UNKNOWN(26.03)	1100 J	26.03
	AR501069B		UNKNOWN(27.23)	2100 J	27.23
	AR501069B		UNKNOWN(27.98)	600 J	27.98
	AR501069B		UNKNOWN(29.20)	1100 J	29.20
	AR501069B		UNKNOWN(31.61)	2400 J	31.61
	AR501069B		UNKNOWN(31.72)	2800 J	31.72
	AR501069B		UNKNOWN(33.62)	2300 J	33.62
	AR501069B		UNKNOWN(34.20)	4200 J	34.20
	AR501069B		UNKNOWN(37.90)	23000 J	37.90
	AR501069B		UNKNOWN(48.30)	3600 J	48.30
	AR501069B		UNKNOWN(49.52)	3500 J	49.52
CD28					
	AR302013B		UNKNOWN(18.21)	860 J	18.21
	AR302013B		UNKNOWN(20.71)	710 J	20.71
	AR302013B		UNKNOWN(21.47)	990 J	21.47
	AR302013B		UNKNOWN(22.49)	1050 J	22.49
	AR302013B		UNKNOWN(23.56)	1490 J	23.56
	AR302013B		UNKNOWN(24.45)	3450 J	24.45
	AR302013B		UNKNOWN(24.55)	1070 J	24.55
	AR302013B		UNKNOWN(25.90)	2700 J	25.90
	AR302013B		UNKNOWN(26.02)	1650 J	26.02
	AR302013B		UNKNOWN(27.24)	2700 J	27.24
	AR302013B		UNKNOWN(28.56)	1310 J	28.56
	AR302013B		UNKNOWN(29.27)	12000 J	29.27
	AR302013B		UNKNOWN(33.61)	6900 J	33.61
	AR302024B		UNKNOWN(7.71)	29600 J	7.71
	AR302024B		UNKNOWN(7.75)	2540 J	7.75
	AR302024B		UNKNOWN(7.81)	620 J	7.81
	AR302024B		UNKNOWN(7.89)	479 J	7.89
	AR302024B		UNKNOWN(8.13)	747 J	8.13
	AR302024B		UNKNOWN(9.42)	663 J	9.42
	AR302024B		UNKNOWN(10.31)	169 J	10.31
	AR302024B		UNKNOWN(22.89)	296 J	22.89
	AR302024B		UNKNOWN(24.58)	197 J	24.58
	AR302024B		UNKNOWN(25.01)	169 J	25.01
	AR302024B		UNKNOWN(29.29)	959 J	29.29
	AR302035B		UNKNOWN(7.59)	18200 J	7.59
	AR302035B		UNKNOWN(7.88)	780 J	7.88
	AR302035B		UNKNOWN(8.11)	1300 J	8.11
	AR302035B		UNKNOWN(9.42)	1120 J	9.42
	AR302035B		UNKNOWN(9.78)	338 J	9.78

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD28					
	AR302035B		UNKNOWN(10.31)	611 J	10.31
	AR302035B		UNKNOWN(12.74)	377 J	12.74
	AR302035B		UNKNOWN(17.94)	100 J	17.94
	AR302035B		UNKNOWN(19.73)	85 J	19.73
	AR302035B		UNKNOWN(21.40)	125 J	21.40
	AR302035B		UNKNOWN(21.46)	117 J	21.46
	AR302035B		UNKNOWN(24.48)	286 J	24.48
	AR302035B		UNKNOWN(24.58)	403 J	24.58
	AR302035B		UNKNOWN(26.04)	208 J	26.04
	AR302035B		UNKNOWN(29.29)	2080 J	29.29
	AR308019B		UNKNOWN(7.78)	162 J	7.78
	AR308019B		UNKNOWN(8.10)	1670 J	8.10
	AR308019B		UNKNOWN(9.41)	1500 J	9.41
	AR308019B		UNKNOWN(10.29)	418 J	10.29
	AR308019B		UNKNOWN(11.56)	1140 J	11.56
	AR308019B		UNKNOWN(11.87)	267 J	11.87
	AR308019B		UNKNOWN(11.97)	167 J	11.97
	AR308019B		UNKNOWN(15.18)	147 J	15.18
	AR308019B		UNKNOWN(18.48)	167 J	18.48
	AR308019B		UNKNOWN(21.44)	267 J	21.44
	AR308019B		UNKNOWN(23.90)	685 J	23.90
	AR308019B		UNKNOWN(24.25)	501 J	24.25
	AR308019B		UNKNOWN(24.52)	451 J	24.52
	AR308019B		UNKNOWN(24.61)	1840 J	24.61
	AR308019B		UNKNOWN(26.07)	1000 J	26.07
	AR308019B		UNKNOWN(27.28)	518 J	27.28
	AR308019B		UNKNOWN(29.27)	551 J	29.27
	AR308019B		UNKNOWN(29.81)	1220 J	29.81
	AR308019B		UNKNOWN(40.02)	1590 J	40.02
	AR308020B		UNKNOWN HYDROCARBON(9.53)	465 J	9.53
	AR308020B		UNKNOWN(7.71)	3880 J	7.71
	AR308020B		UNKNOWN(7.77)	744 J	7.77
	AR308020B		UNKNOWN(7.84)	295 J	7.84
	AR308020B		UNKNOWN(8.07)	434 J	8.07
	AR308020B		UNKNOWN(9.40)	1440 J	9.40
	AR308020B		UNKNOWN(10.33)	154 J	10.33
	AR308020B		UNKNOWN(11.53)	1860 J	11.53
	AR308020B		UNKNOWN(14.89)	146 J	14.89
	AR308020B		UNKNOWN(15.18)	186 J	15.18
	AR308020B		UNKNOWN(18.48)	217 J	18.48
	AR308020B		UNKNOWN(20.79)	135 J	20.79
	AR308020B		UNKNOWN(21.42)	295 J	21.42
	AR308020B		UNKNOWN(24.07)	388 J	24.07
	AR308020B		UNKNOWN(24.48)	357 J	24.48
	AR308020B		UNKNOWN(24.57)	999 J	24.57
	AR308020B		UNKNOWN(26.04)	341 J	26.04
	AR308020B		UNKNOWN(27.26)	248 J	27.26
	AR308020B		UNKNOWN(29.26)	605 J	29.26

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD28					
	AR308031B		UNKNOWN(7.36)	660 J	7.36
	AR308031B		UNKNOWN(7.52)	1650 J	7.52
	AR308031B		UNKNOWN(7.94)	6300 J	7.94
	AR308031B		UNKNOWN(9.41)	630 J	9.41
	AR308031B		UNKNOWN(9.73)	1500 J	9.73
	AR308031B		UNKNOWN(11.19)	480 J	11.19
	AR308031B		UNKNOWN(11.92)	795 J	11.92
	AR308031B		UNKNOWN(12.86)	645 J	12.86
	AR308031B		UNKNOWN(13.76)	330 J	13.76
	AR308031B		UNKNOWN(14.80)	255 J	14.80
	AR308031B		UNKNOWN(28.04)	420 J	28.04
	AR308031B		UNKNOWN(38.06)	1500 J	38.06
	AR310013B		UNKNOWN(7.60)	297 J	7.60
	AR310013B		UNKNOWN(7.99)	256 J	7.99
	AR310013B		UNKNOWN(9.52)	52 J	9.52
	AR310013B		UNKNOWN(15.13)	36 J	15.13
	AR310013B		UNKNOWN(15.19)	59 J	15.19
	AR310013B		UNKNOWN(16.29)	8 J	16.29
	AR310013B		UNKNOWN(18.42)	24 J	18.42
	AR310013B		UNKNOWN(18.49)	56 J	18.49
	AR310013B		UNKNOWN(20.70)	13 J	20.70
	AR310013B		UNKNOWN(21.39)	7 J	21.39
	AR310013B		UNKNOWN(21.43)	43 J	21.43
	AR310013B		UNKNOWN(24.07)	72 J	24.07
	AR310013B		UNKNOWN(26.34)	55 J	26.34
	AR310013B		UNKNOWN(28.38)	31 J	28.38
	AR310013B		UNKNOWN(30.24)	44 J	30.24
	AR310013B		UNKNOWN(31.94)	28 J	31.94
	AR310024B		UNKNOWN(12.18)	1230 J	12.18
	AR310024B		UNKNOWN(12.40)	924 J	12.40
	AR310024B		UNKNOWN(12.86)	1540 J	12.86
	AR310024B		UNKNOWN(13.11)	924 J	13.11
	AR310024B		UNKNOWN(19.33)	770 J	19.33
	AR310024B		UNKNOWN(20.78)	1080 J	20.78
	AR310024B		UNKNOWN(23.72)	2930 J	23.72
	AR310024B		UNKNOWN(24.47)	1540 J	24.47
	AR310024B		UNKNOWN(24.56)	3700 J	24.56
	AR310024B		UNKNOWN(26.04)	2160 J	26.04
	AR310024B		UNKNOWN(29.26)	13700 J	29.26
	AR310035B		UNKNOWN(23.72)	101 J	23.72
	AR310035B		UNKNOWN(24.48)	83 J	24.48
	AR310035B		UNKNOWN(24.56)	108 J	24.56
	AR310035B		UNKNOWN(26.03)	99 J	26.03
	AR310035B		UNKNOWN(27.25)	90 J	27.25
	AR310035B		UNKNOWN(29.27)	505 J	29.27
CD29					

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
	AR804010B		UNKNOWN(7.22)	41900 J	7.22
	AR804010B		UNKNOWN(7.28)	19300 J	7.28
	AR804010B		UNKNOWN(7.54)	3380 J	7.54
	AR804010B		UNKNOWN(7.60)	6600 J	7.60
	AR804010B		UNKNOWN(7.79)	6600 J	7.79
	AR804010B		UNKNOWN(8.02)	10800 J	8.02
	AR804010B		UNKNOWN(9.30)	1770 J	9.30
	AR804010B		UNKNOWN(11.25)	1290 J	11.25
	AR804010B		UNKNOWN(11.38)	1610 J	11.38
	AR804021B		UNKNOWN(7.32)	9730 J	7.32
	AR804021B		UNKNOWN(7.52)	2080 J	7.52
	AR804021B		UNKNOWN(7.59)	5560 J	7.59
	AR804021B		UNKNOWN(7.78)	5420 J	7.78
	AR804021B		UNKNOWN(8.01)	7640 J	8.01
	AR804021B		UNKNOWN(11.39)	973 J	11.39
	AR804032B		UNKNOWN(7.56)	3010 J	7.56
	AR804032B		UNKNOWN(7.77)	1920 J	7.77
	AR804032B		UNKNOWN(8.01)	1920 J	8.01
	AR804032B		UNKNOWN(21.02)	1510 J	21.02
	AR805011B		UNKNOWN(7.70)	1460 J	7.70
	AR805011B		UNKNOWN(7.81)	1310 J	7.81
	AR805011B		UNKNOWN(8.04)	1900 J	8.04
	AR805011B		UNKNOWN(9.32)	1010 J	9.32
	AR805011B		UNKNOWN(9.70)	190 J	9.70
	AR805011B		UNKNOWN(10.24)	161 J	10.24
	AR805011B		UNKNOWN(11.02)	146 J	11.02
	AR805011B		UNKNOWN(11.45)	1750 J	11.45
	AR805011B		UNKNOWN(12.74)	876 J	12.74
	AR805011B		UNKNOWN(18.18)	248 J	18.18
	AR805011B		UNKNOWN(22.41)	292 J	22.41
	AR805011B		UNKNOWN(25.00)	3210 J	25.00
	AR805011B		UNKNOWN(26.86)	2340 J	26.86
	AR805011B		UNKNOWN(27.37)	8760 J	27.37
	AR805011B		UNKNOWN(27.48)	1610 J	27.48
	AR805011B		UNKNOWN(29.78)	4380 J	29.78
	AR805011B		UNKNOWN(29.98)	2190 J	29.98
	AR805011B		UNKNOWN(32.00)	3500 J	32.00
	AR805011B		UNKNOWN(33.16)	1900 J	33.16
	AR805011B		UNKNOWN(37.89)	1900 J	37.89
	AR805022B		UNKNOWN(7.76)	1410 J	7.76
	AR805022B		UNKNOWN(7.84)	1860 J	7.84
	AR805022B		UNKNOWN(8.09)	2790 J	8.09
	AR805022B		UNKNOWN(9.37)	1550 J	9.37
	AR805022B		UNKNOWN(10.27)	388 J	10.27
	AR805022B		UNKNOWN(11.03)	186 J	11.03
	AR805022B		UNKNOWN(11.50)	3100 J	11.50
	AR805022B		UNKNOWN(11.92)	186 J	11.92
	AR805022B		UNKNOWN(22.95)	186 J	22.95
	AR805022B		UNKNOWN(24.53)	357 J	24.53
	AR805022B		UNKNOWN(25.86)	295 J	25.86

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD29					
	AR805022B		UNKNOWN(26.84)	295 J	26.84
	AR805022B		UNKNOWN(27.36)	7280 J	27.36
	AR805022B		UNKNOWN(29.77)	605 J	29.77
	AR805022B		UNKNOWN(29.98)	2630 J	29.98
	AR805022B		UNKNOWN(33.16)	992 J	33.16
	AR805022B		UNKNOWN(37.88)	853 J	37.88
	AR805022B		UNKNOWN(39.95)	791 J	39.95
	AR805033B		UNKNOWN(7.43)	111000 J	7.43
	AR805033B		UNKNOWN(7.55)	31200 J	7.55
	AR805033B		UNKNOWN(7.74)	6390 J	7.74
	AR805033B		UNKNOWN(7.97)	4830 J	7.97
	AR805033B		UNKNOWN(10.26)	5680 J	10.26
	AR805033B		UNKNOWN(13.41)	4260 J	13.41
	AR805033B		UNKNOWN(15.13)	1280 J	15.13
	AR805033B		UNKNOWN(18.43)	1850 J	18.43
	AR805033B		UNKNOWN(19.98)	3830 J	19.98
	AR805033B		UNKNOWN(21.00)	1420 J	21.00
	AR805033B		UNKNOWN(21.39)	1560 J	21.39
	AR805033B		UNKNOWN(22.57)	852 J	22.57
	AR805033B		UNKNOWN(22.65)	4830 J	22.65
CD30					
	AR806012B		UNKNOWN(7.52)	52 J	7.52
	AR806012B		UNKNOWN(7.65)	598 J	7.65
	AR806012B		UNKNOWN(7.80)	182 J	7.80
	AR806012B		UNKNOWN(8.01)	299 J	8.01
	AR806012B		UNKNOWN(9.28)	351 J	9.28
	AR806012B		UNKNOWN(10.22)	299 J	10.22
	AR806012B		UNKNOWN(15.13)	546 J	15.13
	AR806012B		UNKNOWN(18.44)	429 J	18.44
	AR806012B		UNKNOWN(21.37)	325 J	21.37
	AR806012B		UNKNOWN(24.01)	572 J	24.01
	AR806012B		UNKNOWN(26.29)	299 J	26.29
	AR806012B		UNKNOWN(33.15)	1690 J	33.15
	AR819017B		UNKNOWN(7.78)	616 J	7.78
	AR819017B		UNKNOWN(8.01)	923 J	8.01
	AR819017B		UNKNOWN(8.43)	107 J	8.43
	AR819017B		UNKNOWN(9.36)	1180 J	9.36
	AR819017B		UNKNOWN(10.25)	308 J	10.25
	AR819017B		UNKNOWN(11.01)	956 J	11.01
	AR819017B		UNKNOWN(15.13)	648 J	15.13
	AR819017B		UNKNOWN(18.43)	194 J	18.43
	AR819017B		UNKNOWN(33.15)	14900 J	33.15
	AR819017B		UNKNOWN(34.53)	664 J	34.53
	AR819017B		UNKNOWN(35.56)	826 J	35.56
	AR819017B		UNKNOWN(38.85)	4860 J	38.85
	AR819017B		UNKNOWN(44.57)	2920 J	44.57

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD30					
	AR819028B		UNKNOWN(7.66)	973 J	7.66
	AR819028B		UNKNOWN(7.77)	283 J	7.77
	AR819028B		UNKNOWN(8.00)	471 J	8.00
	AR819028B		UNKNOWN(9.33)	612 J	9.33
	AR819028B		UNKNOWN(10.23)	157 J	10.23
	AR819028B		UNKNOWN(11.01)	550 J	11.01
	AR819028B		UNKNOWN(11.07)	119 J	11.07
	AR819028B		UNKNOWN(12.51)	83 J	12.51
	AR819028B		UNKNOWN(12.87)	345 J	12.87
	AR819028B		UNKNOWN(15.14)	926 J	15.14
	AR819028B		UNKNOWN(16.25)	102 J	16.25
	AR819028B		UNKNOWN(18.43)	612 J	18.43
	AR819028B		UNKNOWN(18.78)	116 J	18.78
	AR819028B		UNKNOWN(19.70)	155 J	19.70
	AR819028B		UNKNOWN(20.66)	100 J	20.66
	AR819028B		UNKNOWN(21.38)	298 J	21.38
	AR819028B		UNKNOWN(22.41)	100 J	22.41
	AR819028B		UNKNOWN(24.00)	550 J	24.00
	AR819028B		UNKNOWN(33.15)	1880 J	33.15
	AR819039B		UNKNOWN(7.62)	832 J	7.62
	AR819039B		UNKNOWN(7.77)	304 J	7.77
	AR819039B		UNKNOWN(8.00)	448 J	8.00
	AR819039B		UNKNOWN(9.33)	576 J	9.33
	AR819039B		UNKNOWN(10.24)	155 J	10.24
	AR819039B		UNKNOWN(11.00)	640 J	11.00
	AR819039B		UNKNOWN(11.23)	672 J	11.23
	AR819039B		UNKNOWN(11.43)	736 J	11.43
	AR819039B		UNKNOWN(15.13)	1310 J	15.13
	AR819039B		UNKNOWN(16.24)	142 J	16.24
	AR819039B		UNKNOWN(16.69)	134 J	16.69
	AR819039B		UNKNOWN(18.43)	1070 J	18.43
	AR819039B		UNKNOWN(19.71)	192 J	19.71
	AR819039B		UNKNOWN(20.63)	160 J	20.63
	AR819039B		UNKNOWN(21.37)	624 J	21.37
	AR819039B		UNKNOWN(24.00)	800 J	24.00
	AR819039B		UNKNOWN(24.44)	368 J	24.44
	AR819039B		UNKNOWN(26.28)	384 J	26.28
	AR819039B		UNKNOWN(33.15)	1920 J	33.15
CD31					
	AR806023B		UNKNOWN(8.02)	151 J	8.02
	AR806023B		UNKNOWN(9.29)	453 J	9.29
	AR806023B		UNKNOWN(10.24)	302 J	10.24
	AR806023B		UNKNOWN(11.21)	151 J	11.21
	AR806023B		UNKNOWN(11.42)	106 J	11.42
	AR806023B		UNKNOWN(12.53)	60 J	12.53
	AR806023B		UNKNOWN(15.14)	453 J	15.14

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD31					
	AR806023B		UNKNOWN(15.99)	76 J	15.99
	AR806023B		UNKNOWN(16.26)	45 J	16.26
	AR806023B		UNKNOWN(18.44)	302 J	18.44
	AR806023B		UNKNOWN(19.29)	45 J	19.29
	AR806023B		UNKNOWN(21.38)	151 J	21.38
	AR806023B		UNKNOWN(24.01)	151 J	24.01
	AR806023B		UNKNOWN(26.30)	121 J	26.30
	AR806023B		UNKNOWN(33.18)	22600 J	33.18
	AR806023B		UNKNOWN(35.21)	302 J	35.21
	AR806023B		UNKNOWN(38.15)	906 J	38.15
	AR806023B		UNKNOWN(43.97)	755 J	43.97
	AR806034B		UNKNOWN(7.51)	526 J	7.51
	AR806034B		UNKNOWN(7.57)	2630 J	7.57
	AR806034B		UNKNOWN(7.77)	1320 J	7.77
	AR806034B		UNKNOWN(8.01)	2630 J	8.01
	AR806034B		UNKNOWN(15.78)	658 J	15.78
	AR806034B		UNKNOWN(19.28)	395 J	19.28
	AR806034B		UNKNOWN(33.16)	42100 J	33.16
	AR806045B		UNKNOWN(7.51)	396 J	7.51
	AR806045B		UNKNOWN(7.57)	2640 J	7.57
	AR806045B		UNKNOWN(7.78)	1320 J	7.78
	AR806045B		UNKNOWN(7.96)	264 J	7.96
	AR806045B		UNKNOWN(8.01)	2640 J	8.01
	AR806045B		UNKNOWN(29.81)	528 J	29.81
	AR806045B		UNKNOWN(33.16)	112000 J	33.16
	AR806056B		UNKNOWN(8.02)	1230 J	8.02
	AR806056B		UNKNOWN(11.76)	617 J	11.76
	AR806056B		UNKNOWN(15.99)	494 J	15.99
	AR806056B		UNKNOWN(24.52)	494 J	24.52
	AR806056B		UNKNOWN(33.15)	18500 J	33.15
	AR806078B		UNKNOWN(8.01)	1400 J	8.01
	AR806078B		UNKNOWN(11.23)	1120 J	11.23
	AR806078B		UNKNOWN(33.16)	18200 J	33.16
	AR806089B		UNKNOWN(7.25)	85 J	7.25
	AR806089B		UNKNOWN(7.51)	34 J	7.51
	AR806089B		UNKNOWN(7.57)	340 J	7.57
	AR806089B		UNKNOWN(7.78)	170 J	7.78
	AR806089B		UNKNOWN(8.01)	340 J	8.01
	AR806089B		UNKNOWN(33.17)	6800 J	33.17
	AR810018B		UNKNOWN(7.63)	400 J	7.63
	AR810018B		UNKNOWN(9.28)	267 J	9.28
	AR810018B		UNKNOWN(10.29)	40 J	10.29
	AR810018B		UNKNOWN(11.64)	27 J	11.64
	AR810018B		UNKNOWN(11.77)	53 J	11.77
	AR810018B		UNKNOWN(12.54)	40 J	12.54
	AR810018B		UNKNOWN(12.77)	27 J	12.77
	AR810018B		UNKNOWN(15.14)	533 J	15.14
	AR810018B		UNKNOWN(16.27)	40 J	16.27

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD31					
	AR810018B		UNKNOWN(18.44)	133 J	18.44
	AR810018B		UNKNOWN(19.72)	27 J	19.72
	AR810018B		UNKNOWN(24.52)	67 J	24.52
	AR810018B		UNKNOWN(33.17)	16000 J	33.17
	AR810029B		UNKNOWN(7.63)	536 J	7.63
	AR810029B		UNKNOWN(8.02)	67 J	8.02
	AR810029B		UNKNOWN(9.28)	268 J	9.28
	AR810029B		UNKNOWN(10.26)	121 J	10.26
	AR810029B		UNKNOWN(11.77)	54 J	11.77
	AR810029B		UNKNOWN(12.54)	54 J	12.54
	AR810029B		UNKNOWN(15.15)	536 J	15.15
	AR810029B		UNKNOWN(16.00)	54 J	16.00
	AR810029B		UNKNOWN(16.27)	67 J	16.27
	AR810029B		UNKNOWN(17.91)	67 J	17.91
	AR810029B		UNKNOWN(18.45)	268 J	18.45
	AR810029B		UNKNOWN(19.69)	121 J	19.69
	AR810029B		UNKNOWN(21.38)	134 J	21.38
	AR810029B		UNKNOWN(22.95)	67 J	22.95
	AR810029B		UNKNOWN(24.44)	107 J	24.44
	AR810029B		UNKNOWN(24.53)	134 J	24.53
	AR810029B		UNKNOWN(26.01)	134 J	26.01
	AR810029B		UNKNOWN(33.18)	17400 J	33.18
	AR810029B		UNKNOWN(33.23)	268 J	33.23
	AR810030B		UNKNOWN(7.19)	19000 J	7.19
	AR810030B		UNKNOWN(7.54)	356 J	7.54
	AR810030B		UNKNOWN(7.60)	2380 J	7.60
	AR810030B		UNKNOWN(7.81)	1190 J	7.81
	AR810030B		UNKNOWN(8.03)	2380 J	8.03
	AR810030B		UNKNOWN(15.99)	713 J	15.99
	AR810030B		UNKNOWN(16.26)	356 J	16.26
	AR810030B		UNKNOWN(17.41)	356 J	17.41
	AR810030B		UNKNOWN(17.92)	713 J	17.92
	AR810030B		UNKNOWN(19.69)	594 J	19.69
	AR810030B		UNKNOWN(20.75)	475 J	20.75
	AR810030B		UNKNOWN(21.38)	832 J	21.38
	AR810030B		UNKNOWN(22.95)	475 J	22.95
	AR810030B		UNKNOWN(24.54)	1190 J	24.54
	AR810030B		UNKNOWN(33.16)	76000 J	33.16
	SBKCD31		UNKNOWN(8.01)	4440 J	8.01
	SBKCD31		UNKNOWN(9.45)	2220 J	9.45
	SBKCD31		UNKNOWN(15.10)	666 J	15.10
	SBKCD31		UNKNOWN(15.16)	1110 J	15.16
	SBKCD31		UNKNOWN(15.53)	333 J	15.53
	SBKCD31		UNKNOWN(18.41)	444 J	18.41
	SBKCD31		UNKNOWN(18.45)	1110 J	18.45
	SBKCD31		UNKNOWN(18.75)	111 J	18.75
	SBKCD31		UNKNOWN(21.39)	888 J	21.39
	SBKCD31		UNKNOWN(23.97)	444 J	23.97

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
CD31					
	SBKCD31		UNKNOWN(24.02)	2220 J	24.02
	SBKCD31		UNKNOWN(26.30)	999 J	26.30
	SBKCD31		UNKNOWN(26.84)	555 J	26.84
	SBKCD31		UNKNOWN(28.34)	444 J	28.34
C101					
	AR810041B		UNKNOWN(7.53)	430 J	7.53
	AR810041B		UNKNOWN(7.58)	1800 J	7.58
	AR810041B		UNKNOWN(7.79)	1600 J	7.79
	AR810041B		UNKNOWN(8.02)	2500 J	8.02
	AR810041B		UNKNOWN(15.99)	850 J	15.99
	AR810041B		UNKNOWN(16.27)	410 J	16.27
	AR810041B		UNKNOWN(17.91)	320 J	17.91
	AR810041B		UNKNOWN(19.69)	540 J	19.69
	AR810041B		UNKNOWN(20.74)	270 J	20.74
	AR810041B		UNKNOWN(21.37)	630 J	21.37
	AR810041B		UNKNOWN(22.95)	280 J	22.95
	AR810041B		UNKNOWN(24.53)	1100 J	24.53
	AR810041B		UNKNOWN(33.15)	13000 J	33.15
	AR810041B		UNKNOWN(38.65)	13000 J	38.65
	AR810041B		UNKNOWN(44.50)	15000 J	44.50
	AR810052B		UNKNOWN(7.26)	590 J	7.26
	AR810052B		UNKNOWN(7.58)	1600 J	7.58
	AR810052B		UNKNOWN(7.78)	1100 J	7.78
	AR810052B		UNKNOWN(8.01)	2000 J	8.01
	AR810052B		UNKNOWN(11.28)	430 J	11.28
	AR810052B		UNKNOWN(15.98)	460 J	15.98
	AR810052B		UNKNOWN(19.69)	320 J	19.69
	AR810052B		UNKNOWN(24.53)	1100 J	24.53
	AR810052B		UNKNOWN(33.16)	13000 J	33.16
	AR810063B		UNKNOWN(7.25)	17000 J	7.25
	AR810063B		UNKNOWN(7.53)	550 J	7.53
	AR810063B		UNKNOWN(7.58)	2200 J	7.58
	AR810063B		UNKNOWN(7.79)	1800 J	7.79
	AR810063B		UNKNOWN(8.02)	2800 J	8.02
	AR810063B		UNKNOWN(11.30)	350 J	11.30
	AR810063B		UNKNOWN(15.98)	520 J	15.98
	AR810063B		UNKNOWN(17.91)	250 J	17.91
	AR810063B		UNKNOWN(19.68)	300 J	19.68
	AR810063B		UNKNOWN(33.16)	13000 J	33.16
	AR810074B		UNKNOWN(7.28)	210 J	7.28
	AR810074B		UNKNOWN(7.53)	1500 J	7.53
	AR810074B		UNKNOWN(7.59)	3000 J	7.59
	AR810074B		UNKNOWN(7.79)	3300 J	7.79
	AR810074B		UNKNOWN(8.03)	5000 J	8.03
	AR810074B		UNKNOWN(25.93)	2400 J	25.93
	AR810074B		UNKNOWN(33.17)	13000 J	33.17

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
C101					
	AR810085B		UNKNOWN(7.34)	83000 J	7.34
	AR810085B		UNKNOWN(7.52)	1400 J	7.52
	AR810085B		UNKNOWN(7.59)	2900 J	7.59
	AR810085B		UNKNOWN(7.79)	3100 J	7.79
	AR810085B		UNKNOWN(8.02)	6600 J	8.02
	AR810085B		UNKNOWN(33.16)	3100 J	33.16
	AR810096B		UNKNOWN(7.24)	16000 J	7.24
	AR810096B		UNKNOWN(7.28)	390 J	7.28
	AR810096B		UNKNOWN(7.55)	1300 J	7.55
	AR810096B		UNKNOWN(7.60)	2400 J	7.60
	AR810096B		UNKNOWN(7.80)	3200 J	7.80
	AR810096B		UNKNOWN(8.04)	4700 J	8.04
	AR810096B		UNKNOWN(9.33)	300 J	9.33
	AR810096B		UNKNOWN(13.60)	270 J	13.60
	AR810096B		UNKNOWN(15.99)	250 J	15.99
	AR810096B		UNKNOWN(19.68)	330 J	19.68
	AR810096B		UNKNOWN(21.39)	390 J	21.39
	AR810096B		UNKNOWN(24.53)	680 J	24.53
	AR810096B		UNKNOWN(33.16)	13000 J	33.16
C104					
	AR807013B		UNKNOWN(7.19)	390 J	7.19
	AR807013B		UNKNOWN(7.52)	920 J	7.52
	AR807013B		UNKNOWN(7.58)	3400 J	7.58
	AR807013B		UNKNOWN(7.79)	2000 J	7.79
	AR807013B		UNKNOWN(8.01)	2000 J	8.01
	AR807013B		UNKNOWN(11.28)	510 J	11.28
	AR807013B		UNKNOWN(11.42)	300 J	11.42
	AR807013B		UNKNOWN(15.99)	1600 J	15.99
	AR807013B		UNKNOWN(17.29)	540 J	17.29
	AR807013B		UNKNOWN(17.65)	540 J	17.65
	AR807013B		UNKNOWN(17.91)	330 J	17.91
	AR807013B		UNKNOWN(19.38)	1000 J	19.38
	AR807013B		UNKNOWN(22.42)	3300 J	22.42
	AR807013B		UNKNOWN(24.53)	3600 J	24.53
	AR807013B		UNKNOWN(27.44)	1500 J	27.44
	AR807013B		UNKNOWN(30.77)	4900 J	30.77
	AR807013B		UNKNOWN(34.44)	5400 J	34.44
	AR807013B		UNKNOWN(44.32)	12000 J	44.32
	AR807024B		UNKNOWN(7.51)	700 J	7.51
	AR807024B		UNKNOWN(7.56)	3200 J	7.56
	AR807024B		UNKNOWN(7.77)	1800 J	7.77
	AR807024B		UNKNOWN(8.00)	1600 J	8.00
	AR807024B		UNKNOWN(11.43)	550 J	11.43
	AR807024B		UNKNOWN(18.69)	570 J	18.69
	AR807024B		UNKNOWN(20.19)	1800 J	20.19
	AR807024B		UNKNOWN(20.69)	480 J	20.69

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
C104					
	AR807024B		UNKNOWN(20.82)	1200 J	20.82
	AR807024B		UNKNOWN(20.89)	670 J	20.89
	AR807024B		UNKNOWN(22.39)	630 J	22.39
	AR807024B		UNKNOWN(24.52)	1300 J	24.52
	AR807024B		UNKNOWN(34.44)	13000 J	34.44
	AR807024B		UNKNOWN(36.24)	13000 J	36.24
	AR807024B		UNKNOWN(46.66)	37000 J	46.66
	AR807035B		UNKNOWN(7.19)	72 J	7.19
	AR807035B		UNKNOWN(7.51)	110 J	7.51
	AR807035B		UNKNOWN(7.58)	1300 J	7.58
	AR807035B		UNKNOWN(7.77)	300 J	7.77
	AR807035B		UNKNOWN(8.00)	260 J	8.00
	AR807035B		UNKNOWN(10.21)	250 J	10.21
	AR807035B		UNKNOWN(11.91)	66 J	11.91
	AR807035B		UNKNOWN(12.28)	83 J	12.28
	AR807035B		UNKNOWN(12.75)	53 J	12.75
	AR807046B		UNKNOWN(7.33)	4300 J	7.33
	AR807046B		UNKNOWN(7.58)	1000 J	7.58
	AR807046B		UNKNOWN(7.77)	51 J	7.77
	AR807046B		UNKNOWN(8.00)	45 J	8.00
	AR807046B		UNKNOWN(10.24)	340 J	10.24
	AR807046B		UNKNOWN(11.36)	67 J	11.36
	AR807046B		UNKNOWN(12.29)	52 J	12.29
	AR807046B		UNKNOWN(13.42)	76 J	13.42
	AR807057B		UNKNOWN(7.29)	4600 J	7.29
	AR807057B		UNKNOWN(7.31)	30 J	7.31
	AR807057B		UNKNOWN(7.51)	44 J	7.51
	AR807057B		UNKNOWN(7.58)	1500 J	7.58
	AR807057B		UNKNOWN(7.78)	130 J	7.78
	AR807057B		UNKNOWN(8.00)	110 J	8.00
	AR807057B		UNKNOWN(10.23)	270 J	10.23
	AR807057B		UNKNOWN(11.46)	69 J	11.46
	AR807057B		UNKNOWN(11.90)	79 J	11.90
	AR807057B		UNKNOWN(12.28)	110 J	12.28
	AR807057B		UNKNOWN(12.75)	250 J	12.75
	AR807057B		UNKNOWN(15.99)	53 J	15.99
	AR807057B		UNKNOWN(24.53)	120 J	24.53
	AR807068B		UNKNOWN(7.38)	7700 J	7.38
	AR807068B		UNKNOWN(7.50)	320 J	7.50
	AR807068B		UNKNOWN(7.58)	3000 J	7.58
	AR807068B		UNKNOWN(7.76)	970 J	7.76
	AR807068B		UNKNOWN(7.99)	860 J	7.99
	AR807068B		UNKNOWN(10.27)	280 J	10.27
	AR807068B		UNKNOWN(11.43)	690 J	11.43
	AR807068B		UNKNOWN(11.82)	260 J	11.82
	AR807068B		UNKNOWN(13.41)	310 J	13.41
	AR807079B		UNKNOWN(7.28)	3200 J	7.28
	AR807079B		UNKNOWN(7.51)	87 J	7.51

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
C104					
	AR807079B		UNKNOWN(7.56)	1300 J	7.56
	AR807079B		UNKNOWN(7.77)	330 J	7.77
	AR807079B		UNKNOWN(7.99)	270 J	7.99
	AR807079B		UNKNOWN(10.28)	120 J	10.28
	AR807079B		UNKNOWN(11.42)	520 J	11.42
	AR807079B		UNKNOWN(11.90)	93 J	11.90
	AR807079B		UNKNOWN(13.42)	82 J	13.42
	AR807079B		UNKNOWN(20.74)	43 J	20.74
	AR807079B		UNKNOWN(22.94)	51 J	22.94
	AR807079B		UNKNOWN(24.42)	240 J	24.42
	AR807079B		UNKNOWN(24.51)	630 J	24.51
	AR807079B		UNKNOWN(25.98)	280 J	25.98
	AR807079B		UNKNOWN(27.21)	140 J	27.21
	AR807080B		UNKNOWN(7.47)	4700 J	7.47
	AR807080B		UNKNOWN(7.56)	1500 J	7.56
	AR807080B		UNKNOWN(7.97)	84 J	7.97
	AR807080B		UNKNOWN(10.31)	200 J	10.31
	AR807080B		UNKNOWN(11.24)	380 J	11.24
	AR807080B		UNKNOWN(12.30)	110 J	12.30
	AR807080B		UNKNOWN(25.86)	160 J	25.86
	AR812010B		UNKNOWN(7.35)	410 J	7.35
	AR812010B		UNKNOWN(7.59)	530 J	7.59
	AR812010B		UNKNOWN(10.23)	250 J	10.23
	AR812010B		UNKNOWN(11.22)	190 J	11.22
	AR812010B		UNKNOWN(11.44)	31 J	11.44
C105					
	AR812021B		UNKNOWN(7.33)	4900 J	7.33
	AR812021B		UNKNOWN(7.48)	1700 J	7.48
	AR812021B		UNKNOWN(7.66)	200 J	7.66
	AR812021B		UNKNOWN(7.89)	190 J	7.89
	AR812021B		UNKNOWN(10.18)	410 J	10.18
	AR812021B		UNKNOWN(11.16)	110 J	11.16
	AR812021B		UNKNOWN(11.35)	81 J	11.35
	AR812021B		UNKNOWN(12.19)	170 J	12.19
	AR812021B		UNKNOWN(20.45)	58 J	20.45
	AR812021B		UNKNOWN(20.91)	63 J	20.91
	AR812021B		UNKNOWN(24.26)	120 J	24.26
	AR812021B		UNKNOWN(27.89)	150 J	27.89
	AR812021B		UNKNOWN(33.44)	360 J	33.44
	AR812021B		UNKNOWN(41.99)	280 J	41.99
	AR812032B		UNKNOWN HYDROCARBON(7.89)	320 J	7.89
	AR812032B		UNKNOWN(7.40)	150 J	7.40
	AR812032B		UNKNOWN(7.46)	1300 J	7.46
	AR812032B		UNKNOWN(7.66)	410 J	7.66
	AR812032B		UNKNOWN(8.18)	150 J	8.18
	AR812032B		UNKNOWN(10.13)	1000 J	10.13

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
C105					
	AR812032B		UNKNOWN(11.32)	450 J	11.32
	AR812032B		UNKNOWN(12.22)	72 J	12.22
	AR812032B		UNKNOWN(12.63)	55 J	12.63
	AR812032B		UNKNOWN(24.31)	180 J	24.31
	AR812032B		UNKNOWN(24.41)	93 J	24.41
	AR812032B		UNKNOWN(25.74)	140 J	25.74
	AR812032B		UNKNOWN(25.87)	100 J	25.87
	AR812032B		UNKNOWN(26.73)	79 J	26.73
	AR812032B		UNKNOWN(27.10)	160 J	27.10
	AR812032B		UNKNOWN(27.88)	81 J	27.88
	AR812032B		UNKNOWN(28.39)	110 J	28.39
	AR812032B		UNKNOWN(28.70)	87 J	28.70
	AR812032B		UNKNOWN(33.03)	170 J	33.03
	AR812032B		UNKNOWN(33.43)	410 J	33.43
	AR812043B		UNKNOWN(10.10)	330 J	10.10
	AR812043B		UNKNOWN(15.06)	250 J	15.06
	AR812043B		UNKNOWN(18.35)	440 J	18.35
	AR812043B		UNKNOWN(21.29)	400 J	21.29
	AR812043B		UNKNOWN(23.93)	460 J	23.93
	AR812043B		UNKNOWN(25.75)	140 J	25.75
	AR812043B		UNKNOWN(26.20)	340 J	26.20
	AR812043B		UNKNOWN(28.22)	230 J	28.22
	AR812043B		UNKNOWN(30.10)	290 J	30.10
	AR812043B		UNKNOWN(31.80)	240 J	31.80
	AR812043B		UNKNOWN(33.04)	180 J	33.04
	AR812043B		UNKNOWN(33.35)	260 J	33.35
	AR812043B		UNKNOWN(33.43)	160 J	33.43
	AR812043B		UNKNOWN(34.82)	260 J	34.82
	AR812043B		UNKNOWN(36.20)	270 J	36.20
	AR812043B		UNKNOWN(37.48)	270 J	37.48
	AR812043B		UNKNOWN(38.71)	230 J	38.71
	AR812043B		UNKNOWN(40.07)	190 J	40.07
	AR812043B		UNKNOWN(41.69)	160 J	41.69
	AR812043B		UNKNOWN(41.99)	160 J	41.99
	AR812054B		UNKNOWN(7.41)	260 J	7.41
	AR812054B		UNKNOWN(10.12)	260 J	10.12
	AR812054B		UNKNOWN(15.07)	2100 J	15.07
	AR812054B		UNKNOWN(16.18)	220 J	16.18
	AR812054B		UNKNOWN(18.36)	2300 J	18.36
	AR812054B		UNKNOWN(18.67)	240 J	18.67
	AR812054B		UNKNOWN(21.30)	1800 J	21.30
	AR812054B		UNKNOWN(23.92)	2300 J	23.92
	AR812054B		UNKNOWN(26.20)	1700 J	26.20
	AR812054B		UNKNOWN(28.24)	1200 J	28.24
	AR812054B		UNKNOWN(30.10)	1300 J	30.10
	AR812054B		UNKNOWN(31.79)	1200 J	31.79
	AR812054B		UNKNOWN(33.35)	1300 J	33.35
	AR812054B		UNKNOWN(34.83)	1300 J	34.83

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
C105					
	AR812054B		UNKNOWN(37.49)	1200 J	37.49
	AR812054B		UNKNOWN(38.71)	1300 J	38.71
	AR812054B		UNKNOWN(40.06)	950 J	40.06
	AR812054B		UNKNOWN(41.68)	750 J	41.68
	AR812054B		UNKNOWN(43.69)	580 J	43.69
	AR812054B		UNKNOWN(46.22)	510 J	46.22
	AR812065B		UNKNOWN(7.50)	840 J	7.50
	AR812065B		UNKNOWN(7.68)	140 J	7.68
	AR812065B		UNKNOWN(7.91)	100 J	7.91
	AR812065B		UNKNOWN(10.13)	630 J	10.13
	AR812065B		UNKNOWN(11.32)	380 J	11.32
	AR812065B		UNKNOWN(11.68)	56 J	11.68
	AR812065B		UNKNOWN(12.22)	91 J	12.22
	AR812065B		UNKNOWN(33.03)	190 J	33.03
	AR812065B		UNKNOWN(33.44)	170 J	33.44
C106					
	AR801017B		UNKNOWN(7.45)	970 J	7.45
	AR801017B		UNKNOWN(7.66)	140 J	7.66
	AR801017B		UNKNOWN(7.89)	120 J	7.89
	AR801017B		UNKNOWN(10.12)	370 J	10.12
	AR801017B		UNKNOWN(11.31)	460 J	11.31
	AR801017B		UNKNOWN(12.21)	54 J	12.21
	AR801017B		UNKNOWN(12.68)	100 J	12.68
	AR801017B		UNKNOWN(24.42)	77 J	24.42
	AR801017B		UNKNOWN(27.10)	67 J	27.10
	AR801017B		UNKNOWN(27.88)	120 J	27.88
	AR801017B		UNKNOWN(28.40)	76 J	28.40
	AR801017B		UNKNOWN(29.63)	66 J	29.63
	AR801017B		UNKNOWN(31.24)	96 J	31.24
	AR801017B		UNKNOWN(31.93)	96 J	31.93
	AR801017B		UNKNOWN(32.13)	110 J	32.13
	AR801017B		UNKNOWN(33.04)	140 J	33.04
	AR801017B		UNKNOWN(34.33)	180 J	34.33
	AR801017B		UNKNOWN(35.08)	180 J	35.08
	AR801017B		UNKNOWN(36.05)	140 J	36.05
	AR801017B		UNKNOWN(47.06)	270 J	47.06
	AR801028B		UNKNOWN(7.43)	7300 J	7.43
	AR801028B		UNKNOWN(7.62)	490 J	7.62
	AR801028B		UNKNOWN(7.85)	460 J	7.85
	AR801028B		UNKNOWN(10.20)	690 J	10.20
	AR801028B		UNKNOWN(11.35)	410 J	11.35
	AR801028B		UNKNOWN(12.20)	130 J	12.20
	AR801028B		UNKNOWN(12.66)	110 J	12.66
	AR801028B		UNKNOWN(24.43)	76 J	24.43
	AR801028B		UNKNOWN(27.88)	79 J	27.88
	AR801028B		UNKNOWN(33.03)	150 J	33.03

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
C106					
	AR801028B		UNKNOWN(35.09)	190 J	35.09
	AR801028B		UNKNOWN(37.89)	210 J	37.89
	AR801028B		UNKNOWN(39.80)	190 J	39.80
	AR801039B		UNKNOWN(7.29)	3300 J	7.29
	AR801039B		UNKNOWN(7.46)	1300 J	7.46
	AR801039B		UNKNOWN(7.64)	190 J	7.64
	AR801039B		UNKNOWN(7.87)	160 J	7.87
	AR801039B		UNKNOWN(10.17)	490 J	10.17
	AR801039B		UNKNOWN(11.14)	130 J	11.14
	AR801039B		UNKNOWN(11.32)	170 J	11.32
	AR801039B		UNKNOWN(13.31)	82 J	13.31
	AR801039B		UNKNOWN(24.86)	170 J	24.86
	AR801039B		UNKNOWN(27.89)	120 J	27.89
	AR801039B		UNKNOWN(35.09)	210 J	35.09
	AR801039B		UNKNOWN(42.00)	290 J	42.00
	AR801039B		UNKNOWN(42.38)	140 J	42.38
	AR803019B		UNKNOWN(7.48)	590 J	7.48
	AR803019B		UNKNOWN(10.13)	430 J	10.13
	AR803019B		UNKNOWN(11.14)	130 J	11.14
	AR803019B		UNKNOWN(12.64)	250 J	12.64
	AR803019B		UNKNOWN(15.06)	120 J	15.06
	AR803019B		UNKNOWN(15.90)	130 J	15.90
	AR803019B		UNKNOWN(17.81)	140 J	17.81
	AR803019B		UNKNOWN(21.27)	150 J	21.27
	AR803019B		UNKNOWN(22.11)	110 J	22.11
	AR803019B		UNKNOWN(22.30)	120 J	22.30
	AR803019B		UNKNOWN(22.56)	100 J	22.56
	AR803019B		UNKNOWN(24.45)	310 J	24.45
	AR803019B		UNKNOWN(24.95)	290 J	24.95
	AR803019B		UNKNOWN(25.91)	300 J	25.91
	AR803019B		UNKNOWN(27.12)	320 J	27.12
	AR803019B		UNKNOWN(40.77)	340 J	40.77
	SBKC106		UNKNOWN(7.42)	2 J	7.42
	SBKC106		UNKNOWN(7.48)	19 J	7.48
	SBKC106		UNKNOWN(7.67)	6 J	7.67
	SBKC106		UNKNOWN(7.90)	5 J	7.90
	SBKC106		UNKNOWN(9.20)	2 J	9.20
	SBKC106		UNKNOWN(10.16)	3 J	10.16
C107					
	AR803020B		UNKNOWN(7.44)	220 J	7.44
	AR803020B		UNKNOWN(7.50)	1300 J	7.50
	AR803020B		UNKNOWN(7.69)	580 J	7.69
	AR803020B		UNKNOWN(7.94)	530 J	7.94
	AR803020B		UNKNOWN(8.21)	120 J	8.21
	AR803020B		UNKNOWN(10.14)	480 J	10.14
	AR803020B		UNKNOWN(11.41)	55 J	11.41

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
C107					
	AR803020B		UNKNOWN(12.70)	49 J	12.70
	AR803020B		UNKNOWN(24.45)	100 J	24.45
	AR803020B		UNKNOWN(35.13)	250 J	35.13
	AR803031B		UNKNOWN HYDROCARBON(12.36)	2200 J	12.36
	AR803031B		UNKNOWN HYDROCARBON(12.47)	2100 J	12.47
	AR803031B		UNKNOWN HYDROCARBON(13.08)	2500 J	13.08
	AR803031B		UNKNOWN HYDROCARBON(13.23)	2300 J	13.23
	AR803031B		UNKNOWN HYDROCARBON(14.25)	1800 J	14.25
	AR803031B		UNKNOWN HYDROCARBON(15.05)	1400 J	15.05
	AR803031B		UNKNOWN HYDROCARBON(15.22)	1500 J	15.22
	AR803031B		UNKNOWN HYDROCARBON(15.96)	2500 J	15.96
	AR803031B		UNKNOWN(7.54)	1500 J	7.54
	AR803031B		UNKNOWN(10.78)	2100 J	10.78
	AR803031B		UNKNOWN(11.01)	5900 J	11.01
	AR803031B		UNKNOWN(11.57)	3900 J	11.57
	AR803031B		UNKNOWN(12.12)	1800 J	12.12
	AR803031B		UNKNOWN(12.23)	2900 J	12.23
	AR803031B		UNKNOWN(12.76)	3500 J	12.76
	AR803031B		UNKNOWN(12.91)	2400 J	12.91
	AR803031B		UNKNOWN(12.98)	2000 J	12.98
	AR803031B		UNKNOWN(13.88)	2200 J	13.88
	AR803031B		UNKNOWN(14.59)	1300 J	14.59
	AR803031B		UNKNOWN(17.84)	1100 J	17.84
	AR803053B		UNKNOWN HYDROCARBON(7.42)	160 J	7.42
	AR803053B		UNKNOWN HYDROCARBON(7.68)	480 J	7.68
	AR803053B		UNKNOWN HYDROCARBON(7.91)	380 J	7.91
	AR803053B		UNKNOWN HYDROCARBON(24.46)	600 J	24.46
	AR803053B		UNKNOWN(7.48)	1100 J	7.48
	AR803053B		UNKNOWN(10.13)	640 J	10.13
	AR803053B		UNKNOWN(11.35)	490 J	11.35
	AR803053B		UNKNOWN(21.28)	150 J	21.28
	AR803053B		UNKNOWN(22.87)	150 J	22.87
	AR803053B		UNKNOWN(24.37)	290 J	24.37
	AR803053B		UNKNOWN(30.10)	510 J	30.10
	AR803053B		UNKNOWN(31.80)	540 J	31.80
	AR803053B		UNKNOWN(33.05)	510 J	33.05
	AR803053B		UNKNOWN(33.38)	620 J	33.38
	AR803053B		UNKNOWN(34.57)	910 J	34.57
	AR803053B		UNKNOWN(34.85)	460 J	34.85
	AR803053B		UNKNOWN(38.75)	690 J	38.75
	AR803053B		UNKNOWN(43.75)	1400 J	43.75
	AR803053B		UNKNOWN(46.30)	2300 J	46.30
	AR803053B		UNKNOWN(49.57)	2600 J	49.57
	AR803064B		UNKNOWN HYDROCARBON(10.75)	750 J	10.75
	AR803064B		UNKNOWN HYDROCARBON(11.52)	2200 J	11.52
	AR803064B		UNKNOWN HYDROCARBON(12.07)	2100 J	12.07
	AR803064B		UNKNOWN HYDROCARBON(13.04)	840 J	13.04
	AR803064B		UNKNOWN HYDROCARBON(13.19)	900 J	13.19

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
C107					
	AR803064B		UNKNOWN HYDROCARBON(13.87)	2800 J	13.87
	AR803064B		UNKNOWN HYDROCARBON(14.43)	840 J	14.43
	AR803064B		UNKNOWN(7.50)	1200 J	7.50
	AR803064B		UNKNOWN(11.99)	1100 J	11.99
	AR803064B		UNKNOWN(12.22)	1300 J	12.22
	AR803064B		UNKNOWN(12.44)	1100 J	12.44
	AR803064B		UNKNOWN(12.73)	1700 J	12.73
	AR803064B		UNKNOWN(12.89)	960 J	12.89
	AR803064B		UNKNOWN(12.96)	970 J	12.96
	AR803064B		UNKNOWN(14.23)	1400 J	14.23
	AR803064B		UNKNOWN(14.57)	790 J	14.57
	AR803064B		UNKNOWN(15.01)	770 J	15.01
	AR803064B		UNKNOWN(15.20)	890 J	15.20
	AR803064B		UNKNOWN(15.93)	1500 J	15.93
	AR803064B		UNKNOWN(29.15)	1500 J	29.15
DD21					
	AR307018E		UNKNOWN(8.12)	27 J	8.12
	AR307018E		UNKNOWN(27.64)	6 J	27.64
	AR307029E		UNKNOWN(8.12)	14 J	8.12
	AR307029E		UNKNOWN(33.68)	23 J	33.68
	AR307041E		UNKNOWN(8.12)	19 J	8.12
	AR307041E		UNKNOWN(21.97)	6 J	21.97
	AR309021E		UNKNOWN(38.45)	46 J	38.45
	AR309032E		UNKNOWN HYDROCARBON(11.39)	9 J	11.39
	AR309032E		UNKNOWN HYDROCARBON(12.13)	31 J	12.13
	AR309032E		UNKNOWN HYDROCARBON(12.69)	9 J	12.69
	AR309032E		UNKNOWN HYDROCARBON(13.51)	8 J	13.51
	AR309032E		UNKNOWN HYDROCARBON(13.67)	13 J	13.67
	AR309032E		UNKNOWN HYDROCARBON(14.45)	34 J	14.45
	AR309032E		UNKNOWN HYDROCARBON(24.99)	11 J	24.99
	AR309032E		UNKNOWN HYDROCARBON(26.41)	15 J	26.41
	AR309032E		UNKNOWN HYDROCARBON(26.55)	9 J	26.55
	AR309032E		UNKNOWN HYDROCARBON(27.75)	9 J	27.75
	AR309032E		UNKNOWN HYDROCARBON(29.05)	7 J	29.05
	AR309032E		UNKNOWN(8.10)	35 J	8.10
	AR309032E		UNKNOWN(12.81)	28 J	12.81
	AR309032E		UNKNOWN(13.07)	8 J	13.07
	AR309032E		UNKNOWN(22.85)	10 J	22.85
	AR309032E		UNKNOWN(25.07)	8 J	25.07
	AR309032E		UNKNOWN(25.25)	6 J	25.25
	AR309032E		UNKNOWN(28.54)	26 J	28.54
	AR309032E		UNKNOWN(30.71)	13 J	30.71
	AR309032E		UNKNOWN(30.98)	10 J	30.98
DD21B					

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
	AR307030E		UNKNOWN(8.06)	20 J	8.06
	AR307030E		UNKNOWN(21.97)	9 J	21.97
	AR307030E		UNKNOWN(25.05)	6 J	25.05
	AR307030E		UNKNOWN(30.10)	9 J	30.10
	AR500013E		CAFFEINE(27.11)	22 J	27.11
	AR500013E		UNKNOWN(8.08)	29 J	8.08
	AR500013E		UNKNOWN(9.57)	130 J	9.57
	AR500013E		UNKNOWN(10.12)	73 J	10.12
	AR500013E		UNKNOWN(10.44)	120 J	10.44
	AR500013E		UNKNOWN(12.19)	38 J	12.19
	AR500013E		UNKNOWN(24.09)	29 J	24.09
	AR500013E		UNKNOWN(25.12)	12 J	25.12
	AR500013E		UNKNOWN(25.24)	15 J	25.24
	AR500013E		UNKNOWN(25.36)	12 J	25.36
	AR500013E		UNKNOWN(25.54)	10 J	25.54
	AR500013E		UNKNOWN(25.78)	16 J	25.78
	AR500013E		UNKNOWN(28.70)	32 J	28.70
	AR500013E		UNKNOWN(28.84)	20 J	28.84
	AR500013E		UNKNOWN(28.99)	17 J	28.99
	AR500013E		UNKNOWN(29.23)	20 J	29.23
	AR500013E		UNKNOWN(29.37)	11 J	29.37
	AR500013E		UNKNOWN(33.86)	690 J	33.86
	AR500024E		CAFFEINE(27.12)	39 J	27.12
	AR500024E		SULFUR, MOL.(29.80)	10 J	29.80
	AR500024E		UNKNOWN(8.08)	21 J	8.08
	AR500024E		UNKNOWN(9.57)	10 J	9.57
	AR500024E		UNKNOWN(14.98)	5 J	14.98
	AR500024E		UNKNOWN(17.57)	6 J	17.57
	AR500024E		UNKNOWN(20.35)	8 J	20.35
	AR500024E		UNKNOWN(22.01)	14 J	22.01
	AR500024E		UNKNOWN(22.86)	17 J	22.86
	AR500024E		UNKNOWN(23.68)	8 J	23.68
	AR500024E		UNKNOWN(24.24)	46 J	24.24
	AR500024E		UNKNOWN(28.51)	5 J	28.51
	AR500024E		UNKNOWN(29.34)	7 J	29.34
	AR500024E		UNKNOWN(30.08)	6 J	30.08
	AR500024E		UNKNOWN(30.93)	7 J	30.93
	AR500024E		UNKNOWN(32.29)	7 J	32.29
	AR500024E		UNKNOWN(33.82)	29 J	33.82
	AR500024E		UNKNOWN(37.59)	40 J	37.59
	AR500024E		UNKNOWN(41.48)	12 J	41.48
	AR500024E		UNKNOWN(44.61)	20 J	44.61
	AR500091E		UNKNOWN(8.10)	24 J	8.10
	AR500091E		UNKNOWN(26.97)	14 J	26.97
	AR500091E		UNKNOWN(29.34)	6 J	29.34
	AR500091E		UNKNOWN(30.09)	6 J	30.09
	AR500091E		UNKNOWN(33.83)	34 J	33.83
	AR500091E		UNKNOWN(41.50)	9 J	41.50
	AR500091E		UNKNOWN(44.61)	9 J	44.61
	AR500126E		UNKNOWN(8.10)	15 J	8.10

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX		RETENTION TIME
DD21B						
	AR500126E		UNKNOWN(29.34)	12	J	29.34
	AR500126E		UNKNOWN(30.08)	22	J	30.08
	AR500126E		UNKNOWN(33.82)	20	J	33.82
	AR500126E		UNKNOWN(39.21)	10	J	39.21
	AR500126E		UNKNOWN(41.49)	70	J	41.49
	AR500126E		UNKNOWN(44.62)	120	J	44.62
	AR500295E		CAFFEINE(27.12)	18	J	27.12
	AR500295E		SULFUR, MOL.(29.80)	14	J	29.80
	AR500295E		UNKNOWN(8.10)	32	J	8.10
	AR500295E		UNKNOWN(8.95)	13	J	8.95
	AR500295E		UNKNOWN(11.89)	15	J	11.89
	AR500295E		UNKNOWN(16.03)	11	J	16.03
	AR500295E		UNKNOWN(17.49)	6	J	17.49
	AR500295E		UNKNOWN(21.52)	6	J	21.52
	AR500295E		UNKNOWN(22.92)	26	J	22.92
	AR500295E		UNKNOWN(25.87)	40	J	25.87
	AR500295E		UNKNOWN(28.31)	22	J	28.31
	AR500295E		UNKNOWN(30.75)	29	J	30.75
	AR500295E		UNKNOWN(41.49)	14	J	41.49
	AR500295E		UNKNOWN(44.59)	17	J	44.59
	AR500319E		BIPHENYL,PENTACHLORO-(30.70)	7	J	30.70
	AR500319E		UNKNOWN(8.12)	17	J	8.12
	AR500319E		UNKNOWN(51.84)	35	J	51.84
	AR500319E		UNKNOWN(54.13)	12	J	54.13
	AR508011E		UNKNOWN(8.10)	25	J	8.10
	AR508022E		UNKNOWN(8.00)	280	J	8.00
	AR508022E		UNKNOWN(8.12)	32	J	8.12
	AR508022E		UNKNOWN(9.07)	54	J	9.07
	AR508022E		UNKNOWN(9.57)	8	J	9.57
	AR508022E		UNKNOWN(20.14)	5	J	20.14
	AR508022E		UNKNOWN(21.98)	9	J	21.98
DD22						
	AR400012E		UNKNOWN(7.63)	23	J	7.63
	AR400012E		UNKNOWN(8.17)	26	JB	8.17
	AR400012E		UNKNOWN(30.08)	4	J	30.08
	AR401013E		HALOGENATED UNKNOWN(26.96)	9	J	26.96
	AR401013E		UNKNOWN(7.63)	30	J	7.63
	AR401013E		UNKNOWN(8.17)	35	JB	8.17
	AR401013E		UNKNOWN(14.22)	14	J	14.22
	AR401013E		UNKNOWN(14.42)	6	J	14.42
	AR401013E		UNKNOWN(29.34)	5	J	29.34
	AR401013E		UNKNOWN(30.08)	5	J	30.08
	AR401013E		UNKNOWN(33.74)	19	J	33.74
	AR419013E		UNKNOWN(8.09)	15	JB	8.09
	AR419024E		UNKNOWN(8.09)	10	JB	8.09
	AR508033E		UNKNOWN HYDROCARBON(30.09)	7	J	30.09

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
DD22					
	AR508033E		UNKNOWN(8.11)	14 JB	8.11
	AR508033E		UNKNOWN(10.15)	16 J	10.15
	AR508044E		UNKNOWN HYDROCARBON(30.09)	5 J	30.09
	AR508044E		UNKNOWN(8.09)	9 JB	8.09
	SBKDD22		UNKNOWN HYDROCARBON(8.12)	9 J	8.12
DD23					
	AR300044A		HALOGENATED UNKNOWN(26.97)	8 J	26.97
	AR300044A		UNKNOWN HYDROCARBON(24.86)	4 J	24.86
	AR300044A		UNKNOWN(8.10)	24 J	8.10
	AR300044A		UNKNOWN(14.23)	7 J	14.23
	AR300044A		UNKNOWN(19.44)	11 J	19.44
	AR300044A		UNKNOWN(19.81)	13 J	19.81
	AR300044A		UNKNOWN(23.85)	6 J	23.85
	AR300044A		UNKNOWN(33.82)	11 J	33.82
	AR402014E		UNKNOWN(19.81)	5 J	19.81
	AR403015E		UNKNOWN(8.10)	25 J	8.10
	AR403015E		UNKNOWN(8.92)	85 J	8.92
	AR412027E		UNKNOWN HYDROCARBON(13.41)	6 J	13.41
	AR412027E		UNKNOWN(7.93)	8 J	7.93
	AR412027E		UNKNOWN(8.07)	12 J	8.07
	AR412027E		UNKNOWN(19.45)	8 J	19.45
	AR412027E		UNKNOWN(19.81)	8 J	19.81
DD24					
	AR300055A		METHYL HEXANONE(8.10)	11 JB	8.10
	AR300055A		UNKNOWN PHTHALATE(35.07)	11 J	35.07
	AR300055A		UNKNOWN(9.57)	13 J	9.57
	AR300055A		UNKNOWN(13.02)	110 J	13.02
	AR300055A		UNKNOWN(19.45)	6 J	19.45
	AR300055A		UNKNOWN(19.83)	9 J	19.83
	AR300055A		UNKNOWN(30.09)	5 J	30.09
	AR300055A		UNKNOWN(33.83)	15 J	33.83
	AR300055A		UNKNOWN(41.47)	12 J	41.47
	AR300055A		UNKNOWN(44.59)	19 JB	44.59
	AR311047A		METHYL HEXANONE(8.12)	23 JB	8.12
	AR311047A		UNKNOWN(33.66)	9 J	33.66
	AR311047A		UNKNOWN(33.82)	45 J	33.82
	AR311058A		UNKNOWN HYDROCARBON(8.10)	26 JB	8.10
	AR311058A		UNKNOWN HYDROCARBON(12.73)	8 J	12.73
	AR311058A		UNKNOWN HYDROCARBON(12.95)	10 J	12.95
	AR311058A		UNKNOWN HYDROCARBON(13.65)	9 J	13.65
	AR311058A		UNKNOWN(9.57)	23 J	9.57
	AR311058A		UNKNOWN(13.43)	11 J	13.43
	AR311058A		UNKNOWN(19.47)	10 J	19.47
	AR311058A		UNKNOWN(19.83)	13 J	19.83

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX		RETENTION TIME
DD24						
	AR311058A		UNKNOWN(33.83)	31	J	33.83
	AR311070A		HALOGENATED UNKNOWN(26.96)	6	J	26.96
	AR311070A		METHYL HEXANONE(8.10)	29	JB	8.10
	AR311070A		UNKNOWN(19.81)	5	J	19.81
	AR500104E		ALKYL(C4)BENZENE(14.78)	43	J	14.78
	AR500104E		BENZOPHENONE(24.06)	81	J	24.06
	AR500104E		ISOQUINOLINE(17.35)	42	J	17.35
	AR500104E		UNKNOWN(9.85)	1100	J	9.85
	AR500104E		UNKNOWN(12.79)	63	J	12.79
	AR500104E		UNKNOWN(12.89)	85	J	12.89
	AR500104E		UNKNOWN(16.39)	46	J	16.39
	AR500104E		UNKNOWN(16.49)	54	J	16.49
	AR500104E		UNKNOWN(17.71)	32	J	17.71
	AR500104E		UNKNOWN(17.95)	94	J	17.95
	AR500104E		UNKNOWN(18.30)	84	J	18.30
	AR500104E		UNKNOWN(18.42)	27	J	18.42
	AR500104E		UNKNOWN(18.82)	27	J	18.82
	AR500104E		UNKNOWN(21.94)	23	J	21.94
	AR500104E		UNKNOWN(25.09)	21	J	25.09
	AR500104E		UNKNOWN(27.33)	60	J	27.33
	AR500104E		UNKNOWN(31.02)	45	J	31.02
	AR500104E		UNKNOWN(33.86)	260	J	33.86
	AR500115E		ALKYL BENZENE(14.78)	500	J	14.78
	AR500115E		ALKYL BENZENE(14.88)	400	J	14.88
	AR500115E		ALKYL PHENOL(23.65)	150	J	23.65
	AR500115E		BENZOPHENONE(24.06)	280	J	24.06
	AR500115E		UNKNOWN HYDROCARBON(14.46)	130	J	14.46
	AR500115E		UNKNOWN HYDROCARBON(20.25)	120	J	20.25
	AR500115E		UNKNOWN HYDROCARBON(21.47)	120	J	21.47
	AR500115E		UNKNOWN HYDROCARBON(24.25)	190	J	24.25
	AR500115E		UNKNOWN HYDROCARBON(25.01)	180	J	25.01
	AR500115E		UNKNOWN HYDROCARBON(25.12)	280	J	25.12
	AR500115E		UNKNOWN HYDROCARBON(26.43)	120	J	26.43
	AR500115E		UNKNOWN HYDROCARBON(26.57)	150	J	26.57
	AR500115E		UNKNOWN(9.69)	1600	J	9.69
	AR500115E		UNKNOWN(14.96)	180	J	14.96
	AR500115E		UNKNOWN(18.57)	190	J	18.57
	AR500115E		UNKNOWN(21.92)	160	J	21.92
	AR500115E		UNKNOWN(23.50)	190	J	23.50
	AR500115E		UNKNOWN(27.32)	140	J	27.32
	AR500115E		UNKNOWN(29.06)	170	J	29.06
	AR500115E		UNKNOWN(31.04)	420	J	31.04
	AR500240E		CAFFEINE(27.12)	11	J	27.12
	AR500240E		HALOGENATED UNKNOWN(26.98)	10	JB	26.98
	AR500240E		UNKNOWN HYDROCARBON(8.10)	15	JB	8.10
	AR500240E		UNKNOWN(14.23)	6	J	14.23
	AR500240E		UNKNOWN(33.83)	75	J	33.83
	AR802109G		HALOGENATED UNKNOWN(26.98)	10	JB	26.98

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
DD24					
	AR802109G		UNKNOWN HYDROCARBON(8.12)	33 JB	8.12
	AR802109G		UNKNOWN(21.48)	4 J	21.48
	AR802109G		UNKNOWN(22.20)	14 J	22.20
	AR802109G		UNKNOWN(37.46)	22 J	37.46
	SBKDD24		HALOGENATED UNKNOWN(26.97)	4 J	26.97
	SBKDD24		UNKNOWN HYDROCARBON(8.10)	16 J	8.10
	SBKDD24		UNKNOWN(44.60)	13 J	44.60
DD25					
	AR500251E		BENZOPHENONE(24.05)	4 J	24.05
	AR500251E		CAFFEINE(27.16)	24 J	27.16
	AR500251E		METHYLHEXANONE(8.14)	23 JB	8.14
	AR500251E		UNKNOWN(9.60)	8 J	9.60
	AR500251E		UNKNOWN(14.45)	5 J	14.45
	AR500251E		UNKNOWN(14.99)	8 J	14.99
	AR500251E		UNKNOWN(16.35)	8 J	16.35
	AR500251E		UNKNOWN(17.59)	8 J	17.59
	AR500251E		UNKNOWN(19.59)	4 J	19.59
	AR500251E		UNKNOWN(19.87)	8 J	19.87
	AR500251E		UNKNOWN(20.37)	8 J	20.37
	AR500251E		UNKNOWN(22.64)	5 J	22.64
	AR500251E		UNKNOWN(22.92)	14 J	22.92
	AR500251E		UNKNOWN(23.70)	9 J	23.70
	AR500251E		UNKNOWN(24.29)	30 J	24.29
	AR500251E		UNKNOWN(26.87)	6 J	26.87
	AR500251E		UNKNOWN(26.99)	5 JB	26.99
	AR500251E		UNKNOWN(33.86)	37 J	33.86
	AR500251E		UNKNOWN(37.63)	30 J	37.63
	AR500320E		UNKNOWN(17.14)	910 J	17.14
	AR500320E		UNKNOWN(34.07)	2800 J	34.07
	AR500353E		UNKNOWN(8.14)	27 JB	8.14
	AR500353E		UNKNOWN(19.49)	11 J	19.49
	AR500353E		UNKNOWN(19.85)	13 J	19.85
	AR500353E		UNKNOWN(27.06)	11 J	27.06
	AR500353E		UNKNOWN(33.85)	9 J	33.85
	AR500353E		UNKNOWN(35.11)	5 J	35.11
DD26					
	AR309010E		UNKNOWN(14.46)	8 J	14.46
	AR309010E		UNKNOWN(16.05)	7 J	16.05
	AR309010E		UNKNOWN(19.59)	5 J	19.59
	AR309010E		UNKNOWN(19.87)	6 J	19.87
	AR309010E		UNKNOWN(19.97)	5 J	19.97
	AR309010E		UNKNOWN(22.88)	5 J	22.88
	AR309010E		UNKNOWN(23.64)	6 J	23.64
	AR309010E		UNKNOWN(24.48)	5 J	24.48

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
DD26					
	AR309010E		UNKNOWN(25.00)	8 J	25.00
	AR309010E		UNKNOWN(25.15)	12 J	25.15
	AR309010E		UNKNOWN(25.27)	17 J	25.27
	AR309010E		UNKNOWN(25.37)	14 J	25.37
	AR309010E		UNKNOWN(25.43)	5 J	25.43
	AR309010E		UNKNOWN(25.57)	8 J	25.57
	AR309010E		UNKNOWN(25.69)	11 J	25.69
	AR309010E		UNKNOWN(25.81)	17 J	25.81
	AR309010E		UNKNOWN(26.40)	9 J	26.40
	AR309010E		UNKNOWN(28.56)	37 J	28.56
	AR415019E		UNKNOWN(19.48)	31 JB	19.48
	AR415019E		UNKNOWN(19.84)	39 JB	19.84
	AR415020E		UNKNOWN(19.48)	39 JB	19.48
	AR415020E		UNKNOWN(19.84)	49 JB	19.84
	AR415020E		UNKNOWN(29.18)	74 J	29.18
	AR415020E		UNKNOWN(30.27)	54 J	30.27
	AR500524E		BENZENE DERIVATIVE(11.90)	13 J	11.90
	AR500524E		CAFFEINE(27.15)	31 J	27.15
	AR500524E		HALOGENATED UNKNOWN(26.98)	3 JB	26.98
	AR500524E		SULFUR(29.81)	5 J	29.81
	AR500524E		UNKNOWN ACID ESTER(33.69)	18 J	33.69
	AR500524E		UNKNOWN ACID(16.05)	8 J	16.05
	AR500524E		UNKNOWN HYDROCARBON(8.16)	29 JB	8.16
	AR500524E		UNKNOWN HYDROCARBON(19.87)	3 J	19.87
	AR500524E		UNKNOWN PHTHALATE(35.09)	9 J	35.09
	AR500524E		UNKNOWN(9.01)	10 J	9.01
	AR500524E		UNKNOWN(17.58)	17 J	17.58
	AR500524E		UNKNOWN(19.61)	5 J	19.61
	AR500524E		UNKNOWN(20.52)	5 J	20.52
	AR500524E		UNKNOWN(23.88)	4 J	23.88
	AR500524E		UNKNOWN(30.17)	4 J	30.17
	AR500524E		XYLENE(8.43)	54 J	8.43
	AR500524E		XYLENE(9.13)	33 J	9.13
	AR500546E		HALOGENATED UNKNOWN(26.99)	6 JB	26.99
	AR500546E		UNKNOWN HYDROCARBON(8.14)	29 JB	8.14
	AR500546E		UNKNOWN PHTHALATE(35.08)	7 J	35.08
	AR500546E		UNKNOWN(19.49)	5 J	19.49
	AR500546E		UNKNOWN(19.83)	5 J	19.83
	AR501070E		CYCLOHEXYL BENZENE(18.89)	75 J	18.89
	AR501070E		UNKNOWN HYDROCARBON(8.14)	11 JB	8.14
	AR501070E		UNKNOWN PHTHALATE(35.09)	8 J	35.09
	AR501070E		UNKNOWN(8.95)	180 J	8.95
	AR501070E		UNKNOWN(9.13)	12 J	9.13
	AR501070E		UNKNOWN(17.14)	5 J	17.14
	AR501070E		UNKNOWN(17.20)	3 J	17.20
	AR501070E		UNKNOWN(19.49)	6 J	19.49
	AR501070E		UNKNOWN(19.85)	8 J	19.85
	AR501070E		UNKNOWN(19.97)	5 J	19.97

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
DD26					
	AR501070E		UNKNOWN(22.37)	5 J	22.37
	AR501070E		UNKNOWN(25.06)	3 J	25.06
	AR501070E		UNKNOWN(27.86)	4 J	27.86
	AR501070E		UNKNOWN(27.94)	12 J	27.94
	SBKDD26		TETRACHLOROETHANE(9.69)	48 J	9.69
	SBKDD26		UNKNOWN(19.48)	31 J	19.48
	SBKDD26		UNKNOWN(19.84)	38 J	19.84
	SBKDD26		UNKNOWN(20.83)	71 J	20.83
	SBKDD26		UNKNOWN(23.56)	35 J	23.56
DD28					
	AR300066A		UNKNOWN	11 J	17.46
	AR300066A		UNKNOWN	17 JB	19.48
	AR300066A		UNKNOWN	20 JB	19.86
	AR300066A		UNKNOWN	3 J	25.05
	AR300066A		UNKNOWN	4 J	29.38
	AR300066A		UNKNOWN	4 JB	30.15
	AR300066A		UNKNOWN PHTHALATE	22 J	35.12
	AR311069A		UNKNOWN	5 JB	8.15
	AR311069A		UNKNOWN	5 J	12.84
	AR311069A		UNKNOWN	8 JB	19.48
	AR311069A		UNKNOWN	8 JB	19.84
	AR311069A		UNKNOWN	5 JB	27.00
	AR311069A		UNKNOWN	63 J	33.86
	AR311069A		UNKNOWN	5 J	35.10
	AR420027E		UNKNOWN	4 JB	8.15
	AR420027E		UNKNOWN	3 J	19.85
	AR420027E		UNKNOWN	3 J	29.38
	AR500068E		UNKNOWN	2000 J	11.50
	AR500080E		HALOGENATED UNKNOWN	18 JB	27.01
	AR500080E		UNKNOWN	14 J	14.27
	AR500080E		UNKNOWN	15 J	14.47
	AR500080E		UNKNOWN	6 J	19.50
	AR500080E		UNKNOWN	7 J	19.86
	AR500080E		UNKNOWN	5 J	23.90
	AR500080E		UNKNOWN	5 J	29.38
	AR500080E		UNKNOWN	3 J	30.14
	AR500080E		UNKNOWN	9 J	33.78
	AR500080E		UNKNOWN	15 J	41.53
	AR500080E		UNKNOWN	20 JB	44.69
	AR500080E		UNKNOWN PHTHALATE	8 J	35.12
	AR500717E		HALOGENATED UNKNOWN	6 JB	27.02
	AR500717E		UNKNOWN	4 J	19.86
	AR500717E		UNKNOWN	9 J	22.24
	AR500717E		UNKNOWN PHTHALATE	15 J	35.11
	AR804043E		HALOGENATED UNKNOWN	3 JB	27.02
	AR804043E		UNKNOWN	4 J	8.15

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
DD28					
	AR804043E		UNKNOWN	4 J	29.38
	AR804043E		UNKNOWN	4 J	30.12
	AR804043E		UNKNOWN	10 JB	44.68
	SBKDD28		HALOGENATED UNKNOWN	14 J	27.02
	SBKDD28		UNKNOWN	6 J	14.26
	SBKDD28		UNKNOWN	4 J	19.50
	SBKDD28		UNKNOWN	6 J	19.86
	SBKDD28		UNKNOWN	3 J	30.15
	SBKDD28		UNKNOWN	9 J	44.67
	SBKDD28		UNKNOWN HYDROCARBON	9 J	8.13
DD29					
	AR411015E		UNKNOWN(8.07)	6 JB	8.07
	AR411015E		UNKNOWN(19.46)	6 JB	19.46
	AR411015E		UNKNOWN(19.81)	6 JB	19.81
	AR411015E		UNKNOWN(29.34)	6 J	29.34
	AR411015E		UNKNOWN(30.08)	7 J	30.08
	AR411015E		UNKNOWN(31.55)	6 J	31.55
	AR411015E		UNKNOWN(33.66)	8 J	33.66
	AR411015E		UNKNOWN(37.95)	10 J	37.95
	AR411026E		UNKNOWN HYDROCARBON(30.08)	4 J	30.08
	AR411026E		UNKNOWN PHTHALATE(35.07)	11 JB	35.07
	AR411026E		UNKNOWN(8.09)	6 JB	8.09
	AR411026E		UNKNOWN(19.45)	8 JB	19.45
	AR411026E		UNKNOWN(19.81)	8 JB	19.81
	AR420038E		UNKNOWN HYDROCARBON(8.13)	7 JB	8.13
	AR420038E		UNKNOWN PHTHALATE(35.08)	9 J	35.08
	AR420038E		UNKNOWN(19.47)	9 JB	19.47
	AR420038E		UNKNOWN(19.82)	12 JB	19.82
	AR420038E		UNKNOWN(21.48)	3 J	21.48
	AR420038E		UNKNOWN(22.20)	23 J	22.20
	AR420038E		UNKNOWN(29.35)	3 J	29.35
	AR420038E		UNKNOWN(37.49)	10 J	37.49
	AR500046E		CAFFEINE(27.18)	87 J	27.18
	AR500046E		UNKNOWN HYDROCARBON(8.10)	5 JB	8.10
	AR500046E		UNKNOWN(8.33)	14 J	8.33
	AR500046E		UNKNOWN(8.92)	46 J	8.92
	AR500046E		UNKNOWN(11.66)	35 J	11.66
	AR500046E		UNKNOWN(15.34)	6 J	15.34
	AR500046E		UNKNOWN(19.76)	19 J	19.76
	AR500046E		UNKNOWN(19.82)	4 JB	19.82
	AR500046E		UNKNOWN(21.26)	12 J	21.26
	AR500046E		UNKNOWN(24.25)	31 J	24.25
	AR500046E		UNKNOWN(24.49)	6 J	24.49
	AR500046E		UNKNOWN(27.82)	6 J	27.82
	AR500046E		UNKNOWN(28.08)	6 J	28.08
	AR500046E		UNKNOWN(28.26)	4 J	28.26

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
DD29					
	AR500046E		UNKNOWN(28.50)	3 J	28.50
	AR500046E		UNKNOWN(30.57)	5 J	30.57
	AR500046E		UNKNOWN(31.27)	5 J	31.27
	AR500046E		UNKNOWN(33.81)	34 J	33.81
	AR500046E		UNKNOWN(35.18)	46 J	35.18
	AR500046E		UNKNOWN(37.58)	15 J	37.58
	AR500273E		CAFFEINE(27.22)	200 J	27.22
	AR500273E		UNKNOWN HYDROCARBON(8.08)	5 JB	8.08
	AR500273E		UNKNOWN(15.14)	4 J	15.14
	AR500273E		UNKNOWN(15.34)	9 J	15.34
	AR500273E		UNKNOWN(18.51)	5 J	18.51
	AR500273E		UNKNOWN(19.46)	4 JB	19.46
	AR500273E		UNKNOWN(19.82)	5 JB	19.82
	AR500273E		UNKNOWN(22.86)	3 J	22.86
	AR500273E		UNKNOWN(23.62)	4 J	23.62
	AR500273E		UNKNOWN(24.26)	17 J	24.26
	AR500273E		UNKNOWN(26.74)	3 J	26.74
	AR500273E		UNKNOWN(28.31)	26 J	28.31
	AR500273E		UNKNOWN(28.53)	7 J	28.53
	AR500273E		UNKNOWN(30.57)	7 J	30.57
	AR500273E		UNKNOWN(30.77)	7 J	30.77
	AR500273E		UNKNOWN(31.29)	7 J	31.29
	AR500273E		UNKNOWN(33.82)	34 J	33.82
	AR500273E		UNKNOWN(35.07)	6 JB	35.07
	AR500273E		UNKNOWN(35.13)	5 J	35.13
	AR500273E		UNKNOWN(37.57)	32 J	37.57
	AR500331E		UNKNOWN(9.09)	67 J	9.09
	AR500331E		UNKNOWN(9.94)	1500 J	9.94
	AR500331E		UNKNOWN(13.03)	420 J	13.03
	AR500331E		UNKNOWN(13.93)	81 J	13.93
	AR500331E		UNKNOWN(15.01)	100 J	15.01
	AR500331E		UNKNOWN(16.33)	140 J	16.33
	AR500331E		UNKNOWN(16.45)	88 J	16.45
	AR500331E		UNKNOWN(16.59)	87 J	16.59
	AR500331E		UNKNOWN(16.83)	81 J	16.83
	AR500331E		UNKNOWN(17.84)	71 J	17.84
	AR500331E		UNKNOWN(18.14)	480 J	18.14
	AR500331E		UNKNOWN(18.38)	68 J	18.38
	AR500331E		UNKNOWN(18.73)	510 J	18.73
	AR500331E		UNKNOWN(18.82)	85 J	18.82
	AR500331E		UNKNOWN(19.21)	48 J	19.21
	AR500331E		UNKNOWN(20.24)	130 J	20.24
	AR500331E		UNKNOWN(20.36)	44 J	20.36
	AR500331E		UNKNOWN(24.10)	120 J	24.10
	AR500331E		UNKNOWN(27.39)	150 J	27.39
	AR500331E		UNKNOWN(33.91)	89 J	33.91
	AR500342E		BENZOPHENONE(24.11)	72 J	24.11
	AR500342E		UNDECANE(14.48)	8 J	14.48

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX		RETENTION TIME
DD29						
	AR500342E		UNKNOWN(10.21)	1200	J	10.21
	AR500342E		UNKNOWN(10.53)	110	J	10.53
	AR500342E		UNKNOWN(12.96)	21	J	12.96
	AR500342E		UNKNOWN(14.80)	5	J	14.80
	AR500342E		UNKNOWN(15.08)	7	J	15.08
	AR500342E		UNKNOWN(15.44)	28	J	15.44
	AR500342E		UNKNOWN(16.47)	47	J	16.47
	AR500342E		UNKNOWN(16.95)	8	J	16.95
	AR500342E		UNKNOWN(17.07)	12	J	17.07
	AR500342E		UNKNOWN(20.34)	11	J	20.34
	AR500342E		UNKNOWN(22.02)	11	J	22.02
	AR500342E		UNKNOWN(23.13)	88	J	23.13
	AR500342E		UNKNOWN(24.31)	46	J	24.31
	AR500342E		UNKNOWN(25.48)	8	J	25.48
	AR500342E		UNKNOWN(27.35)	24	J	27.35
	AR500342E		UNKNOWN(28.40)	15	J	28.40
	AR500342E		UNKNOWN(30.82)	18	J	30.82
	AR500342E		UNKNOWN(33.86)	89	J	33.86
	AR500477E		DIIODOMETHANE(9.59)	15	J	9.59
	AR500477E		HALOGENATED UNKNOWN(26.95)	3	J	26.95
	AR500477E		UNKNOWN HYDROCARBON(8.08)	6	JB	8.08
	AR500477E		UNKNOWN PHTHALATE(35.06)	17	JB	35.06
	AR500477E		UNKNOWN(18.34)	120	J	18.34
	AR500477E		UNKNOWN(19.47)	6	JB	19.47
	AR500477E		UNKNOWN(19.83)	6	JB	19.83
	AR500477E		UNKNOWN(27.29)	2	J	27.29
	AR500477E		UNKNOWN(30.08)	3	J	30.08
	AR500477E		UNKNOWN(33.82)	14	J	33.82
	AR806090E		HALOGENATED UNKNOWN(26.98)	5	JB	26.98
	AR806090E		UNKNOWN HYDROCARBON(8.09)	5	JB	8.09
	AR806090E		UNKNOWN(19.46)	3	JB	19.46
	AR806090E		UNKNOWN(19.81)	4	JB	19.81
	AR806090E		UNKNOWN(22.19)	13	J	22.19
	AR806090E		UNKNOWN(29.35)	4	J	29.35
	AR806090E		UNKNOWN(30.08)	7	JB	30.08
	AR806090E		UNKNOWN(33.67)	13	J	33.67
	AR806090E		UNKNOWN(33.81)	13	J	33.81
	AR806090E		UNKNOWN(36.75)	23	J	36.75
	AR806090E		UNKNOWN(37.14)	23	J	37.14
	AR806090E		UNKNOWN(37.94)	9	J	37.94
	AR806090E		UNKNOWN(44.58)	9	JB	44.58
DD30						
	AR500488E		CAFFEINE(27.17)	82	J	27.17
	AR500488E		UNKNOWN HYDROCARBON(29.02)	18	J	29.02
	AR500488E		UNKNOWN(8.60)	17	J	8.60
	AR500488E		UNKNOWN(8.92)	54	J	8.92

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
DD30					
	AR500488E		UNKNOWN(9.55)	12 J	9.55
	AR500488E		UNKNOWN(11.53)	12 J	11.53
	AR500488E		UNKNOWN(14.95)	59 J	14.95
	AR500488E		UNKNOWN(16.02)	9 J	16.02
	AR500488E		UNKNOWN(16.36)	63 J	16.36
	AR500488E		UNKNOWN(17.61)	9 J	17.61
	AR500488E		UNKNOWN(21.28)	30 J	21.28
	AR500488E		UNKNOWN(22.86)	7 J	22.86
	AR500488E		UNKNOWN(22.96)	7 J	22.96
	AR500488E		UNKNOWN(26.67)	10 J	26.67
	AR500488E		UNKNOWN(27.38)	8 J	27.38
	AR500488E		UNKNOWN(28.09)	8 J	28.09
	AR500488E		UNKNOWN(28.56)	7 J	28.56
	AR500488E		UNKNOWN(32.28)	18 J	32.28
	AR500488E		UNKNOWN(33.82)	46 J	33.82
	AR500502E		BENZOPHENONE(24.01)	3 J	24.01
	AR500502E		CAFFEINE(27.22)	190 J	27.22
	AR500502E		UNKNOWN HYDROCARBON(30.09)	6 J	30.09
	AR500502E		UNKNOWN(8.03)	16 JB	8.03
	AR500502E		UNKNOWN(13.61)	5 J	13.61
	AR500502E		UNKNOWN(15.33)	7 J	15.33
	AR500502E		UNKNOWN(19.45)	18 JB	19.45
	AR500502E		UNKNOWN(19.81)	20 JB	19.81
	AR500502E		UNKNOWN(23.65)	6 J	23.65
	AR500502E		UNKNOWN(24.25)	18 J	24.25
	AR500502E		UNKNOWN(24.67)	4 J	24.67
	AR500502E		UNKNOWN(26.74)	3 J	26.74
	AR500502E		UNKNOWN(27.32)	3 J	27.32
	AR500502E		UNKNOWN(28.28)	5 J	28.28
	AR500502E		UNKNOWN(29.33)	5 J	29.33
	AR500502E		UNKNOWN(33.80)	27 J	33.80
	AR500502E		UNKNOWN(35.19)	110 J	35.19
	AR500502E		UNKNOWN(37.57)	15 J	37.57
	AR500502E		UNKNOWN(37.93)	10 J	37.93
	AR500502E		UNKNOWN(41.44)	11 J	41.44
	AR500557E		UNKNOWN(8.03)	10 JB	8.03
	AR500557E		UNKNOWN(9.53)	24 J	9.53
	AR500557E		UNKNOWN(16.70)	87 J	16.70
	AR500557E		UNKNOWN(19.13)	13 J	19.13
	AR500557E		UNKNOWN(19.47)	16 JB	19.47
	AR500557E		UNKNOWN(19.83)	13 JB	19.83
	AR500557E		UNKNOWN(27.51)	6 J	27.51
	AR500557E		UNKNOWN(28.32)	6 J	28.32
	AR500557E		UNKNOWN(31.02)	18 J	31.02
	AR500557E		UNKNOWN(33.98)	2400 J	33.98
	AR500557E		UNKNOWN(35.62)	21 J	35.62
	AR500568E		BENZOPHENONE(24.04)	59 J	24.04
	AR500568E		ISOQUINOLINE(17.39)	110 J	17.39

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX		RETENTION TIME
DD30						
	AR500568E		SULFUR(29.89)	77	J	29.89
	AR500568E		UNKNOWN HYDROCARBON(16.43)	12	J	16.43
	AR500568E		UNKNOWN(8.05)	31	JB	8.05
	AR500568E		UNKNOWN(9.61)	180	J	9.61
	AR500568E		UNKNOWN(14.54)	16	J	14.54
	AR500568E		UNKNOWN(14.76)	60	J	14.76
	AR500568E		UNKNOWN(14.86)	49	J	14.86
	AR500568E		UNKNOWN(15.20)	320	J	15.20
	AR500568E		UNKNOWN(16.33)	54	J	16.33
	AR500568E		UNKNOWN(16.97)	13	J	16.97
	AR500568E		UNKNOWN(19.82)	13	JB	19.82
	AR500568E		UNKNOWN(20.30)	19	J	20.30
	AR500568E		UNKNOWN(22.81)	12	J	22.81
	AR500568E		UNKNOWN(24.26)	15	J	24.26
	AR500568E		UNKNOWN(25.43)	13	J	25.43
	AR500568E		UNKNOWN(27.31)	35	J	27.31
	AR500568E		UNKNOWN(30.99)	34	J	30.99
	AR500568E		UNKNOWN(33.84)	210	J	33.84
	AR500579E		UNKNOWN HYDROCARBON(13.68)	50	J	13.68
	AR500579E		UNKNOWN HYDROCARBON(14.48)	14	J	14.48
	AR500579E		UNKNOWN HYDROCARBON(15.66)	20	J	15.66
	AR500579E		UNKNOWN HYDROCARBON(15.94)	4	J	15.94
	AR500579E		UNKNOWN HYDROCARBON(25.00)	87	J	25.00
	AR500579E		UNKNOWN HYDROCARBON(25.09)	64	J	25.09
	AR500579E		UNKNOWN HYDROCARBON(26.56)	70	J	26.56
	AR500579E		UNKNOWN HYDROCARBON(27.53)	61	J	27.53
	AR500579E		UNKNOWN HYDROCARBON(27.76)	68	J	27.76
	AR500579E		UNKNOWN(10.13)	1100	J	10.13
	AR500579E		UNKNOWN(15.42)	4	J	15.42
	AR500579E		UNKNOWN(15.74)	13	J	15.74
	AR500579E		UNKNOWN(16.50)	41	J	16.50
	AR500579E		UNKNOWN(19.24)	15	J	19.24
	AR500579E		UNKNOWN(22.78)	7	J	22.78
	AR500579E		UNKNOWN(23.19)	89	J	23.19
	AR500579E		UNKNOWN(26.66)	110	J	26.66
	AR500579E		UNKNOWN(27.85)	81	J	27.85
	AR500579E		UNKNOWN(30.87)	39	J	30.87
	AR500579E		UNKNOWN(33.85)	89	J	33.85
	AR500580E		CAFFEINE(27.11)	4	J	27.11
	AR500580E		UNKNOWN HYDROCARBON(8.07)	17	JB	8.07
	AR500580E		UNKNOWN PHTHALATE(35.07)	9	JB	35.07
	AR500580E		UNKNOWN(12.60)	93	J	12.60
	AR500580E		UNKNOWN(15.03)	5	J	15.03
	AR500580E		UNKNOWN(17.23)	7	J	17.23
	AR500580E		UNKNOWN(19.48)	12	JB	19.48
	AR500580E		UNKNOWN(19.84)	13	JB	19.84
	AR500580E		UNKNOWN(27.86)	4	J	27.86
	AR500580E		UNKNOWN(28.50)	3	J	28.50

TABLE D 7.28 ARGONNE QC TIC EXTRACTABLE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
DD30					
	AR500580E		UNKNOWN(30.27)	7 J	30.27
	AR808058		UNKNOWN HYDROCARBON(8.05)	24 JB	8.05
	AR808058		UNKNOWN(19.49)	6 JB	19.49
	AR808058		UNKNOWN(19.81)	5 JB	19.81
	AR808058		UNKNOWN(22.17)	18 J	22.17
	AR808058		UNKNOWN(37.45)	29 J	37.45
	AR815137E		UNKNOWN HYDROCARBON(8.05)	20 JB	8.05
	AR815137E		UNKNOWN PHTHALATE(35.07)	28 JB	35.07
	AR815137E		UNKNOWN(19.49)	9 JB	19.49
	AR815137E		UNKNOWN(19.81)	7 JB	19.81
	SBKDD30		UNKNOWN HYDROCARBON(8.07)	24 J	8.07
	SBKDD30		UNKNOWN PHTHALATE(35.07)	14 J	35.07
	SBKDD30		UNKNOWN(19.47)	25 J	19.47
	SBKDD30		UNKNOWN(19.83)	25 J	19.83

TABLE D.8.1 DIRECTORY FOR VOLATILE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
1	AR300011A	GN15	D.8.8 (D-562)
1	AR300022A	ON19	D.8.25 (D-649)
1	AR300033A	ON21	D.8.27 (D-658)
1	AR300088A	ON21	D.8.27 (D-658)
2	AR302013A	ON20	D.8.26 (D-652)
2	AR302024A	ON15	D.8.22 (D-633)
2	AR302035A	ON15	D.8.22 (D-633)
3	AR307018A	GN11	D.8.4 (D-544)
3	AR307029A	GN11	D.8.4 (D-544)
3	AR307030A	GN14	D.8.7 (D-556)
3	AR307041A	GN11	D.8.4 (D-545)
4	AR308019A	ON15	D.8.22 (D-630)
4	AR308020A	ON15	D.8.22 (D-630)
4	AR308031A	ON15	D.8.22 (D-630)
4	AR308042A	GN11	D.8.4 (D-545)
5	AR309010A	GN12	D.8.5 (D-549)
5	AR309021A	GN12	D.8.5 (D-549)
5	AR309032A	GN12	D.8.5 (D-549)
5	AR310013A	ON20	D.8.26 (D-652)
5	AR310024A	ON20	D.8.26 (D-653)
6	AR311014A	GN15	D.8.8 (D-563)
6	AR311025A	ON19	D.8.25 (D-649)
6	AR311036A	ON21	D.8.27 (D-659)
7	AR400012A	ON15	D.8.22 (D-631)
7	AR401013A	ON15	D.8.22 (D-633)
7	AR402014A	GN15	D.8.8 (D-563)
7	AR403015A	GN15	D.8.8 (D-563)
9	AR406030B	AR406030D	D.8.2 (D-527)
9	AR406041B	AR406030D	D.8.2 (D-529)
9	AR407019B	AR406030D	D.8.2 (D-533)
9	AR407086A	AR406030D	D.8.2 (D-533)
9	AR407155D	AR406030D	D.8.2 (D-533)
9	AR408010C	AR406030D	D.8.2 (D-537)
9	AR411015A	GN30	D.8.17 (D-606)
9	AR411026A	GN30	D.8.17 (D-606)
9	AR412016A	GN14	D.8.7 (D-556)
9	AR412027A	GN14	D.8.7 (D-557)
9	AR413017C	AR406030D	D.8.2 (D-537)
9	AR413028C	AR406030D	D.8.2 (D-531)
9	AR413062B	AR406030D	D.8.2 (D-537)
9	AR415019A	GN12	D.8.5 (D-549)
9	AR415020A	GN12	D.8.5 (D-549)
9	AR417011B	AR406030D	D.8.2 (D-533)
9	AR419013A	GN12	D.8.5 (D-548)
9	AR419024A	GN12	D.8.5 (D-548)
9	AR420016A	ON21	D.8.27 (D-659)
9	AR420027A	ON21	D.8.27 (D-659)
9	AR420038A	ON21	D.8.27 (D-659)
10	AR500013A	GN14	D.8.7 (D-557)
10	AR500024A	ON14	D.8.21 (D-624)
10	AR500046A	GN30	D.8.17 (D-607)

TABLE D.8.1 DIRECTORY FOR VOLATILE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
10	AR500068A	ON13	D.8.20 (D-618)
10	AR500080A	ON13	D.8.20 (D-618)
10	AR500091A	GN14	D.8.7 (D-557)
10	AR500104A	GN15	D.8.8 (D-563)
10	AR500115A	GN15	D.8.8 (D-563)
10	AR500126A	ON15	D.8.22 (D-631)
10	AR500137A	ON14	D.8.21 (D-624)
10	AR500148A	ON14	D.8.21 (D-625)
10	AR500160A	GN30	D.8.17 (D-607)
10	AR500182A	ON13	D.8.20 (D-619)
10	AR500206A	ON13	D.8.20 (D-619)
10	AR500217A	ON14	D.8.21 (D-625)
10	AR500228A	GN15	D.8.8 (D-563)
10	AR500239A	GN17	D.8.10 (D-570)
10	AR500240A	ON19	D.8.25 (D-649)
10	AR500251A	GN19	D.8.11 (D-576)
10	AR500273A	GN30	D.8.17 (D-607)
10	AR500295A	ON15	D.8.22 (D-631)
10	AR500319A	ON14	D.8.21 (D-625)
10	AR500320A	GN19	D.8.11 (D-576)
10	AR500331A	ON21	D.8.27 (D-659)
10	AR500353A	GN19	D.8.11 (D-577)
10	AR500364A	GN19	D.8.11 (D-577)
10	AR500375A	GN19	D.8.11 (D-577)
10	AR500397A	GN30	D.8.17 (D-607)
10	AR500411A	ON15	D.8.22 (D-631)
10	AR500433A	ON14	D.8.21 (D-625)
10	AR500444A	GN19	D.8.11 (D-577)
10	AR500455A	ON23	D.8.29 (D-666)
10	AR500466A	ON23	D.8.29 (D-667)
10	AR500477A	ON30	D.8.32 (D-678)
10	AR500488A	ON30	D.8.32 (D-678)
10	AR500502A	OD01	D.8.19 (D-615)
10	AR500524A	GN20	D.8.12 (D-583)
10	AR500546A	GN20	D.8.12 (D-583)
10	AR500557A	ON30	D.8.32 (D-679)
10	AR500568A	ON30	D.8.32 (D-679)
10	AR500579A	ON30	D.8.32 (D-679)
10	AR500580A	ON30	D.8.32 (D-679)
10	AR500591A	ON30	D.8.32 (D-679)
10	AR500604A	GD01	D.8.3 (D-541)
10	AR500626A	OD01	D.8.19 (D-615)
10	AR500648A	GN20	D.8.12 (D-583)
10	AR500660A	GN20	D.8.12 (D-583)
10	AR500671A	GD01	D.8.3 (D-541)
10	AR500682A	GD01	D.8.3 (D-541)
10	AR500693A	OD01	D.8.19 (D-615)
10	AR500717A	ON13	D.8.20 (D-619)
11	AR501014A	GN20	D.8.12 (D-583)
11	AR501014A	GN22	D.8.13 (D-586)
11	AR501025A	GN22	D.8.13 (D-587)
11	AR501036A	GN22	D.8.13 (D-587)

TABLE D.8.1 DIRECTORY FOR VOLATILE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
11	AR501047A	GN22	D.8.13 (D-587)
11	AR501069A	GN22	D.8.13 (D-587)
11	AR501070A	ON19	D.8.25 (D-649)
14	AR505018A	GN16	D.8.9 (D-566)
14	AR505029A	GN16	D.8.9 (D-566)
16	AR507010A	ON20	D.8.26 (D-653)
16	AR507021A	ON20	D.8.26 (D-653)
16	AR507032A	ON20	D.8.26 (D-653)
16	AR508011A	ON13	D.8.20 (D-619)
16	AR508022A	GN13	D.8.6 (D-552)
16	AR508033A	GN13	D.8.6 (D-552)
16	AR508044A	GN13	D.8.6 (D-553)
17	AR800016A	ON16	D.8.23 (D-638)
17	AR800027A	ON16	D.8.23 (D-638)
17	AR800038A	ON16	D.8.23 (D-639)
17	AR800049A	ON16	D.8.23 (D-639)
17	AR800050A	ON16	D.8.23 (D-639)
17	AR800061A	ON16	D.8.23 (D-639)
17	AR801017A	OD01	D.8.19 (D-615)
17	AR801028A	GN25	D.8.16 (D-602)
17	AR801039A	GN25	D.8.16 (D-602)
17	AR802018A	GN17	D.8.10 (D-571)
17	AR802029A	GN17	D.8.10 (D-571)
17	AR802030A	ON17	D.8.24 (D-645)
17	AR802041A	ON17	D.8.24 (D-645)
17	AR802052A	ON17	D.8.24 (D-645)
17	AR802063A	ON17	D.8.24 (D-645)
17	AR802074A	ON17	D.8.24 (D-645)
17	AR802085A	ON19	D.8.25 (D-648)
17	AR802096A	ON19	D.8.25 (D-648)
17	AR802109A	GN17	D.8.10 (D-570)
18	AR803019A	GN25	D.8.16 (D-603)
18	AR803020A	GN25	D.8.16 (D-603)
18	AR803031A	GN25	D.8.16 (D-603)
18	AR803064A	OD01	D.8.19 (D-614)
18	AR804010A	GN16	D.8.9 (D-567)
18	AR804021A	GN16	D.8.9 (D-567)
18	AR804032A	GN16	D.8.9 (D-567)
18	AR804043A	GN12	D.8.5 (D-549)
19	AR805011A	GN16	D.8.9 (D-567)
19	AR805022A	GN16	D.8.9 (D-567)
19	AR805033A	GN16	D.8.9 (D-567)
20	AR806012A	GN22	D.8.13 (D-586)
20	AR806023A	ON22	D.8.28 (D-663)
20	AR806045A	ON22	D.8.28 (D-663)
20	AR806056A	ON22	D.8.28 (D-663)
20	AR806078A	GN23	D.8.14 (D-592)
20	AR806089A	GN23	D.8.14 (D-592)
20	AR806090A	ON22	D.8.28 (D-662)
21	AR807024A	GN24	D.8.15 (D-596)
21	AR807035A	GN24	D.8.15 (D-597)
21	AR807046A	GN24	D.8.15 (D-596)

TABLE D.8.1 DIRECTORY FOR VOLATILE ORGANICS QA/QC DATA

PROBLEM NUMBER	SAMPLE NUMBER	QA/QC ANALYTICAL SDG NUMBER	QA/QC TABLE NUMBER(PG)
21	AR807057A	GN24	D.8.15 (D-597)
21	AR807068A	GN24	D.8.15 (D-597)
21	AR807079A	ON24	D.8.30 (D-670)
21	AR807080A	ON25	D.8.31 (D-674)
23	AR810018A	GN23	D.8.14 (D-593)
23	AR810029A	GN23	D.8.14 (D-593)
23	AR810030A	GN23	D.8.14 (D-593)
23	AR810041A	GN23	D.8.14 (D-593)
23	AR810052A	GN23	D.8.14 (D-593)
23	AR810063A	GN23	D.8.14 (D-593)
23	AR810074A	ON24	D.8.30 (D-671)
23	AR810085A	ON24	D.8.30 (D-671)
23	AR810096A	ON24	D.8.30 (D-671)
25	AR812010A	ON25	D.8.31 (D-674)
25	AR812021A	ON25	D.8.31 (D-675)
25	AR812032A	ON25	D.8.31 (D-675)
25	AR812043A	ON25	D.8.31 (D-675)
25	AR812054A	OD01	D.8.19 (D-614)
25	AR812065A	OD01	D.8.19 (D-615)
25	AR815137A	GD01	D.8.3 (D-541)
27	AR817015A	ON15	D.8.22 (D-631)
27	AR817026A	ON15	D.8.22 (D-631)
28	AR819017A	ON17	D.8.24 (D-644)
28	AR819028A	ON17	D.8.24 (D-644)
99	ARN01013A	GN13	D.8.6 (D-553)
99	ARN05017A	GN13	D.8.6 (D-553)
99	ARN07019A	GN13	D.8.6 (D-553)
99	ARN08010A	GN13	D.8.6 (D-553)
99	ARN11015A	GN13	D.8.6 (D-553)
99	ARN12016A	ON15	D.8.22 (D-631)
99	ARN15019A	GN15	D.8.8 (D-562)
99	ARN16010A	GN17	D.8.10 (D-571)
99	ARN19013A	GN17	D.8.10 (D-571)
99	ARN21017A	ON19	D.8.25 (D-649)
99	ARN24010A	ON19	D.8.25 (D-649)
99	ARN26012A	ON22	D.8.28 (D-662)
99	ARN28014A	ON22	D.8.28 (D-663)
99	ARN29026A	ON22	D.8.28 (D-663)
99	ARN34012A	GD01	D.8.3 (D-541)
99	ARN36014A	GD01	D.8.3 (D-541)
99	AR406052B	AR406030D	D.8.2 (D-527)

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	TUNED	INITIAL CAL	INITIAL CAL	METHOD	TUNED	CONTINUING	CONTINUING
TYPE OF LOCATION	CALIBRATION	RRF	% RSD	BLANK	CALIBRATION	CALIBRATION	CAL %D
SAMPLE NUMBER	AR0203885	AR0203886	AR0203886	VBLK0203	AR0209885	AR0209887	AR0209887
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	UG/L	%	RRF	%
ENV PROBLEM NO							
ACETONE		0.17	43	10 U		0.176	1.1
BENZENE		0.597	3.9	5 U		0.664	-11.2
BROMODICHLOROMETHANE		0.611	7	5 U		0.528	13.6
BROMOFORM		0.315	11.6	5 U		0.272	13.7
BROMOMETHANE		0.815	6.1	10 U		1.052	-29.1
CARBON DISULFIDE		1.952	7.3	10 U		2.265	-16
CARBON TETRACHLORIDE		0.613	6.9	5 U		0.526	14.2
CHLOROBENZENE		0.936	8.1	5 U		1.015	-8.4
CHLOROETHANE		0.315	4.7	10 U		0.431	-36.8
CHLOROFORM		2.511	4.8	5 U		2.824	-12.5
CHLOROMETHANE		0.418	9.7	10 U		0.512	-22.5
CIS-1,3-DICHLOROPROPENE		0.408	5.3	5 U		0.363	11
DIBROMOCHLOROMETHANE		0.508	8.9	5 U		0.449	11.6
ETHYLBENZENE		0.472	6.2	5 U		0.531	-12.5
METHYLENE CHLORIDE		0.89	3.9	5 U		0.995	-11.8
STYRENE		0.878	7.1	5 U		0.962	-9.6
TETRACHLOROETHENE		0.496	9.7	5 U		0.604	-21.8
TOLUENE		0.6	6	1 J		0.662	-10.3
TOLUENE-D8		1.085	0.9			1.124	-3.6
TRANS-1,3-DICHLOROPROPENE		0.33	9.5	5 U		0.568	-72.1
TRICHLOROETHENE		0.436	6.9	5 U		0.527	-20.9
VINYL ACETATE		0.272	13.2	10 U		0.224	17.6
VINYL CHLORIDE		0.486	9.6	10 U		0.591	-21.6
XYLENE (TOTAL)		0.544	8.2	5 U		0.531	2.4
1,1-DICHLOROETHANE		1.667	3.3	5 U		1.861	-11.6
1,1-DICHLOROETHENE		0.99	2.5	5 U		1.219	-23.1
1,1,1-TRICHLOROETHANE		0.672	5.9	5 U		0.678	-0.9
1,1,2-TRICHLOROETHANE		0.311	27.7	5 U		0.278	10.6
1,1,2,2-TETRACHLOROETHANE		0.382	4.9	10 U		0.39	-2.1
1,2-DICHLOROETHANE		1.679	2.1	5 U		1.688	-0.5
1,2-DICHLOROETHANE-D4		1.511	8.4			1.47	2.7
1,2-DICHLOROETHENE (TOTAL)		1.131	10	5 U		1.414	-25
1,2-DICHLOROPROPANE		0.236	4.1	5 U		0.236	0
1,4-BROMOFLUOROBENZENE		0.664	4.1			0.765	-15.2
2-BUTANONE		0.01	20	10 U		0.011	8.3
2-HEXANONE		0.124	9.7	10 U		0.123	0.8
4-METHYL-2-PENTANONE		0.211	10.1	10 U		0.2	5.2
SURR 1(TOL) %RECOVERY							

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D

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AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	TUNED	INITIAL CAL	INITIAL CAL	METHOD	TUNED	CONTINUING	CONTINUING
TYPE OF LOCATION	CALIBRATION	RRF	% RSD	BLANK	CALIBRATION	CALIBRATION	CAL %D
SAMPLE NUMBER	AR0203885	AR0203886	AR0203886	VBLK0203	AR0209885	AR0209887	AR0209887
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	UG/L	%	RRF	%
ENV PROBLEM NO							
SURR 2(BFB) %RECOVERY							
SURR 3(DCE) %RECOVERY							
M/E 50	19				15		
M/E 75	50				44		
M/E 95	100				100		
M/E 96	5.8				5		
M/E 173-1	0.2				0		
M/E 173-2	0.2				0		
M/E 174	83				88		
M/E 175-1	6.5				6		
M/E 175-2	7.9				6.9		
M/E 176-1	82				84		
M/E 176-2	99				96		
M/E 177-1	5.5				6.2		
M/E 177-2	6.7				7.3		
INTERNAL STD AREA(BCM)							
INTERNAL STD AREA(CBZ)							
INTERNAL STD AREA(DFB)							
DILUTION FACTOR							
PERCENT MOISTURE				1			
ACTUAL(ALLOWED) HOLD TIME							

AREA	QA			QA	QA	QA	QA
LOCATION	ISTD RET TIM	TRIP BLANK	WELL #9	TUNED	CONTINUING	CONTINUING	ISTD RET TIM
TYPE OF LOCATION	SHIFT		WELL	CALIBRATION	CALIBRATION	CAL %D	SHIFT
SAMPLE NUMBER	AR0209888	AR406052B	AR406030B	AR0210885	AR0210887	AR0210887	AR0210888
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	AREA	UG/L	UG/L	%	RRF	%	AREA
ENV PROBLEM NO		99	9				
ACETONE		10 U	10 U		0.087	51.1	
BENZENE		5 U	5 U		0.518	13.2	
BROMODICHLOROMETHANE		3 J	3 J		0.521	14.7	

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D DRAFT DO NOT CITE

AREA	QA			QA	QA	QA	QA
LOCATION	ISTD RET TIM	TRIP BLANK	WELL #9	TUNED	CONTINUING	CONTINUING	ISTD RET TIM
TYPE OF LOCATION	SHIFT		WELL	CALIBRATION	CALIBRATION	CAL %D	SHIFT
SAMPLE NUMBER	AR0209888	AR406052B	AR406030B	AR0210885	AR0210887	AR0210887	AR0210888
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	AREA	UG/L	UG/L	%	RRF	%	AREA
ENV PROBLEM NO		99	9				
BROMOFORM		5 U	5 U		0.294	6.7	
BROMOMETHANE		10 U	10 U		0.853	-4.7	
CARBON DISULFIDE		5 U	5 U		1.947	0.3	
CARBON TETRACHLORIDE		5 U	5 U		0.516	15.8	
CHLOROBENZENE		5 U	5 U		0.949	-1.4	
CHLOROETHANE		10 U	10 U		0.363	-15.2	
CHLOROFORM		24	5 U		2.379	5.3	
CHLOROMETHANE		10 U	10 U		0.387	7.4	
CIS-1,3-DICHLOROPROPENE		5 U	5 U		0.33	19.1	
DIBROMOCHLOROMETHANE		5 U	5 U		0.455	10.4	
ETHYLBENZENE		5 U	5 U		0.462	2.1	
METHYLENE CHLORIDE		5 U	5 U		0.89	0	
STYRENE		5 U	5 U		0.851	3.1	
TETRACHLOROETHENE		5 U	5 U		0.556	-12.1	
TOLUENE		1 J	1 JB		0.543	9.5	
TOLUENE-D8					1.03	5.1	
TRANS-1,3-DICHLOROPROPENE		5 U	5 U		0.254	23	
TRICHLOROETHENE		5 U	5 U		0.457	-4.8	
VINYL ACETATE		10 U	10 U		0.157	42.3	
VINYL CHLORIDE		10 U	10 U		0.473	2.7	
XYLENE (TOTAL)		5 U	5 U		0.52	4.4	
1,1-DICHLOROETHANE		5 U	5 U		1.537	7.8	
1,1-DICHLOROETHENE		5 U	5 U		1.011	-2.1	
1,1,1-TRICHLOROETHANE		5 U	5 U		0.588	12.5	
1,1,2-TRICHLOROETHANE		5 U	5 U		0.246	20.9	
1,1,2,2-TETRACHLOROETHANE		10 U	1 J		0.344	9.9	
1,2-DICHLOROETHANE		5 U	5 U		1.416	15.7	
1,2-DICHLOROETHANE-D4					1.389	8.1	
1,2-DICHLOROETHENE (TOTAL)		5 U	5 U		1.1	2.7	
1,2-DICHLOROPROPANE		5 U	5 U		0.212	10.2	
1,4-BROMOFLUOROBENZENE					0.725	-9.2	
2-BUTANONE		10 U	10 U		0.008	33.3	
2-HEXANONE		10 U	10 U		0.095	28.4	
4-METHYL-2-PENTANONE		10 U	10 U		0.146	30.8	
SURR 1(TOL) %RECOVERY		103	101				
SURR 2(BFB) %RECOVERY		108	115				
SURR 3(DCE) %RECOVERY		87	91				

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D

DRAFT DO NOT CITE

AREA	QA			QA	QA	QA	QA
LOCATION	ISTD RET TIM SHIFT	TRIP BLANK	WELL #9	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD RET TIM SHIFT
TYPE OF LOCATION			WELL				
SAMPLE NUMBER	AR0209888	AR406052B	AR406030B	AR0210885	AR0210887	AR0210887	AR0210888
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	AREA	UG/L	UG/L	%	RRF	%	AREA
ENV PROBLEM NO		99	9				
M/E 75				46			
M/E 95				100			
M/E 96				6.7			
M/E 173-1				0.5			
M/E 173-2				0.6			
M/E 174				91			
M/E 175-1				6			
M/E 175-2				6.6			
M/E 176-1				88			
M/E 176-2				96			
M/E 177-1				5.7			
M/E 177-2				6.5			
INTERNAL STD AREA(BCM)	39000	38400	35000				50400
INTERNAL STD AREA(CBZ)	157000	151000	141000				200000
INTERNAL STD AREA(DFB)	179000	166000	166000				230000
DILUTION FACTOR		1	1				
PERCENT MOISTURE							
ACTUAL(ALLOWED) HOLD TIME		64(14 D)	64(14 D)				

AREA		QA	QA	QA	QA	QA	QA
LOCATION	WELL #9	MATRIX SPIKE	MS % RECOVERY	RPD	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	METHOD BLANK
TYPE OF LOCATION	WELL						
SAMPLE NUMBER	AR406041B	AR406041B	AR406041B	AR406041B	AR406041B	AR406041B	VBLK0210
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	%	%	UG/L	%	UG/L
ENV PROBLEM NO	9	9	9	9	9	9	
ACETONE	10 U	10 U			10 U		10 U
BENZENE	5 U	46 U	93	-4	49 U	97	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

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA	QA
LOCATION	WELL #9	MATRIX SPIKE	MS % RECOVERY	RPD	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	METHOD BLANK
TYPE OF LOCATION	WELL						
SAMPLE NUMBER	AR406041B	AR406041B	AR406041B	AR406041B	AR406041B	AR406041B	VBLK0210
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	%	%	UG/L	%	UG/L
ENV PROBLEM NO	9	9	9	9	9	9	
CHLOROBENZENE	5 U	54 MS	108	1	53 MS	107	5 U
CHLOROETHANE	10 U	10 U			10 U		10 U
CHLOROFORM	5 U	5 U			5 U		5 U
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	5 U	5 U			1 J		5 U
METHYLENE CHLORIDE	5 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	5 U	48 U	96	3	46 U	93	1 U
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	5 U	5 U			5 U		5 U
TRICHLOROETHENE	5 U	58 U	117	2	58 U	115	5 U
VINYL ACETATE	10 U	10 U			5 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	49 U	98	-2	50 U	100	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	10 U	10 U			10 U		10 U
1,2-DICHLOROETHANE	5 U	5 U			5 U		5 U
1,2-DICHLOROETHANE-D4							
1,2-DICHLOROETHENE (TOTAL)	5 U	5 U			5 U		5 U
1,2-DICHLOROPROPANE	5 U	5 U			5 U		5 U
1,4-BROMOFLUOROBENZENE							
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	94	94			99		93
SURR 2(BFB) %RECOVERY	109	106			111		106
SURR 3(DCE) %RECOVERY	96	84			84		85

M/E 50
M/E 75
M/E 95
M/E 96

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA	QA
LOCATION	WELL #9	MATRIX SPIKE	MS % RECOVERY	RPD	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	METHOD BLANK
TYPE OF LOCATION	WELL						
SAMPLE NUMBER	AR406041B	AR406041B	AR406041B	AR406041B	AR406041B	AR406041B	VBLK0210
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	%	%	UG/L	%	UG/L
ENV PROBLEM NO	9	9	9	9	9	9	
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)	43400	53600			52700		50700
INTERNAL STD AREA(CBZ)	185000	195000			188000		191000
INTERNAL STD AREA(DFB)	209000	218000			218000		211000
DILUTION FACTOR	1	1			1		1
PERCENT MOISTURE							
ACTUAL(ALLOWED) HOLD TIME	65(14 D)	65(14 D)			65(14 D)		

AREA		QA	QA	QA	QA	QA	QA
LOCATION	PLOT M	TUNED CALIBRATION	INITIAL CAL RRF	INITIAL CAL % RSD	METHOD BLANK	TUNED CALIBRATION	CONTINUING CALIBRATION
TYPE OF LOCATION	WELL						
SAMPLE NUMBER	AR413028C	AR0214885	AR0214886	AR0214886	VBLK0214	AR0216885	AR0216887
MATRIX	WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	%	RRF	%	UG/KG	%	RRF
ENV PROBLEM NO	9						
ACETONE	10 U		0.14	31.6	10 U		0.348
BENZENE	5 U		0.551	1.5	5 U		0.559
BROMODICHLOROMETHANE	5 U		0.582	5.7	5 U		0.528
BROMOFORM	5 U		0.39	15.4	5 U		0.304
BROMOMETHANE	10 U		0.865	12.3	10 U		0.844
CARBON DISULFIDE	5 U		2.114	4.5	5 U		2.024
CARBON TETRACHLORIDE	5 U		0.542	11.6	5 U		0.504
CHLOROBENZENE	5 U		0.941	2.5	5 U		0.981
CHLOROETHANE	10 U		0.336	8.5	10 U		0.339
CHLOROFORM	5 U		2.595	12.5	5 U		2.271

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D

DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA	QA
LOCATION	PLOT M	TUNED	INITIAL CAL	INITIAL CAL	METHOD	TUNED	CONTINUING
TYPE OF LOCATION	WELL	CALIBRATION	RRF	% RSD	BLANK	CALIBRATION	CALIBRATION
SAMPLE NUMBER	AR413028C	AR0214885	AR0214886	AR0214886	VBLK0214	AR0216885	AR0216887
MATRIX	WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	%	RRF	%	UG/KG	%	RRF
ENV PROBLEM NO	9						
CHLOROMETHANE	10 U		0.351	4	10 U		0.363
CIS-1,3-DICHLOROPROPENE	5 U		0.378	7.7	5 U		0.342
DIBROMOCHLOROMETHANE	5 U		0.544	11	5 U		0.494
ETHYLBENZENE	5 U		0.474	4	5 U		0.483
METHYLENE CHLORIDE	5 U		0.912	7	5 U		0.819
STYRENE	5 U		0.869	3.4	5 U		0.897
TETRACHLOROETHENE	5 U		0.521	6.6	5 U		0.552
TOLUENE	2 BJ		0.562	2.6	5 U		0.603
TOLUENE-D8			1.036	2.2			1.113
TRANS-1,3-DICHLOROPROPENE	5 U		0.312	16.1	5 U		0.282
TRICHLOROETHENE	5 U		0.449	2.5	5 U		0.44
VINYL ACETATE	10 U		0.254	7.1	10 U		0.212
VINYL CHLORIDE	10 U		0.443	7.7	10 U		0.425
XYLENE (TOTAL)	5 U		0.525	4.9	5 U		0.57
1,1-DICHLOROETHANE	5 U		1.604	3.8	5 U		1.539
1,1-DICHLOROETHENE	5 U		1.011	5.2	5 U		1.003
1,1,1-TRICHLOROETHANE	5 U		0.611	2.4	9		0.641
1,1,2-TRICHLOROETHANE	5 U		0.316	15.4	5 U		0.287
1,1,2,2-TETRACHLOROETHANE	10 U		0.476	3.6	10 U		0.442
1,2-DICHLOROETHANE	5 U		1.655	6.2	5 U		1.499
1,2-DICHLOROETHANE-D4			1.464	5.3			1.46
1,2-DICHLOROETHENE (TOTAL)	5 U		1.214	5.8	5 U		1.08
1,2-DICHLOROPROPANE	5 U		0.212	4.4	5 U		0.21
1,4-BROMOFLUOROBENZENE			0.706	3.6			0.718
2-BUTANONE	10 U		0.017	7.2	10 U		0.01
2-HEXANONE	10 U		0.163	27.9	10 U		0.118
4-METHYL-2-PENTANONE	10 U		0.239	7.8	10 U		0.204
SURR 1(TOL) %RECOVERY	96						
SURR 2(BFB) %RECOVERY	107						
SURR 3(DCE) %RECOVERY	87						
M/E 50		16				15	
M/E 75		44				43	
M/E 95		100				100	
M/E 96		6				5.9	
M/E 173-1		0.2				0	
M/E 173-2		0.2				0	
M/E 174		92				90	

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D

DRAFT DO NOT CITE

AREA		QA	QA	QA	QA	QA	QA
LOCATION	PLOT M	TUNED	INITIAL CAL	INITIAL CAL	METHOD	TUNED	CONTINUING
TYPE OF LOCATION	WELL	CALIBRATION	RRF	% RSD	BLANK	CALIBRATION	CALIBRATION
SAMPLE NUMBER	AR413028C	AR0214885	AR0214886	AR0214886	VBLK0214	AR0216885	AR0216887
MATRIX	WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	%	RRF	%	UG/KG	%	RRF
ENV PROBLEM NO	9						
M/E 175-1							
M/E 175-2		6.2					
M/E 176-1		6.7				4.6	
M/E 176-2		88				5.1	
M/E 177-1		96				87	
M/E 177-2		5.3				97	
		6				6.4	
						7.3	
INTERNAL STD AREA(BCM)	48300						
INTERNAL STD AREA(CBZ)	191000						
INTERNAL STD AREA(DFB)	212000						
DILUTION FACTOR	1						
PERCENT MOISTURE					1		
ACTUAL(ALLOWED) HOLD TIME	64(14 D)						

AREA	QA	QA				QA	
LOCATION	CONTINUING	ISTD RET TIM	WELL #9	WELL #9	319 LANDF.	METHOD	WELL #6
TYPE OF LOCATION	CAL %D	SHIFT	WELL	WELL	WELL	BLANK	WELL
SAMPLE NUMBER	AR0216887	AR0216888	AR407019B	AR407155D	AR417011B	VBLK0216	AR407086A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	%	AREA	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO			9	9	9		9
ACETONE	-99.9		13 U	10 U	18 U	10 U	10 U
BENZENE	-1.5		7 U	5 U	9 U	5 U	5 U
BROMODICHLOROMETHANE	9.3		7 U	5 U	9 U	5 U	5 U
BROMOFORM	22.1		7 U	5 U	9 U	5 U	5 U
BROMOMETHANE	2.4		13 U	10 U	18 U	10 U	10 U
CARBON DISULFIDE	4.3		7 U	5 U	9 U	5 U	5 U
CARBON TETRACHLORIDE	7		7 U	5 U	9 U	5 U	5 U
CHLOROBENZENE	-4.3		7 U	5 U	9 U	5 U	5 U
CHLOROETHANE	-0.9		13 U	10 U	18 U	10 U	10 U
CHLOROFORM	12.5		7 U	18	9 U	5 U	5 U
CHLOROMETHANE	-3.4		13 U	10 U	18 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	9.5		7 U	5 U	9 U	5 U	5 U
DIBROMOCHLOROMETHANE	9.2		7 U	5 U	9 U	5 U	5 U

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D DRAFT DO NOT CITE

AREA	QA	QA				QA	
LOCATION	CONTINUING	ISTD RET TIM	WELL #9	WELL #9	319 LANDF.	METHOD	WELL #6
TYPE OF LOCATION	CAL %D	SHIFT	WELL	WELL	WELL	BLANK	WELL
SAMPLE NUMBER	AR0216887	AR0216888	AR407019B	AR407155D	AR417011B	VBLK0216	AR407086A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	%	AREA	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO			9	9	9		9
ETHYLBENZENE	-1.9		2 J	5 U	9 U	5 U	5 U
METHYLENE CHLORIDE	10.2		15 B	5 U	17 B	6	10 B
STYRENE	-3.2		7 U	5 U	9 U	5 U	5 U
TETRACHLOROETHENE	-6		7 U	5 U	9 U	5 U	5 U
TOLUENE	-7.3		3 BJ	1 BJ	69 BJ	2 J	2 BJ
TOLUENE-D8	-7.4						
TRANS-1,3-DICHLOROPROPENE	9.6		7 U	5 U	9 U	5 U	5 U
TRICHLOROETHENE	2		7 U	5 U	9 U	5 U	5 U
VINYL ACETATE	16.5		13 U	10 U	18 U	10 U	10 U
VINYL CHLORIDE	4.1		13 U	10 U	18 U	10 U	10 U
XYLENE (TOTAL)	-8.6		7 U	5 U	9 U	5 U	5 U
1,1-DICHLOROETHANE	4.1		7 U	5 U	9 U	5 U	5 U
1,1-DICHLOROETHENE	8.8		7 U	5 U	9 U	5 U	5 U
1,1,1-TRICHLOROETHANE	-4.9		13 B	5 U	28 B	9	7 B
1,1,2-TRICHLOROETHANE	9.2		7 U	5 U	9 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	7.1		13 U	10 U	18 U	10 U	10 U
1,2-DICHLOROETHANE	9.4		7 U	5 U	9 U	5 U	5 U
1,2-DICHLOROETHANE-D4	0.3						
1,2-DICHLOROETHENE (TOTAL)	11		7 U	5 U	9 U	5 U	5 U
1,2-DICHLOROPROPANE	0.9		7 U	5 U	9 U	5 U	5 U
1,4-BROMOFLUOROBENZENE	-1.7						
2-BUTANONE	41.2		13 U	10 U	18 U	10 U	10 U
2-HEXANONE	27.6		13 U	10 U	18 U	10 U	10 U
4-METHYL-2-PENTANONE	14.6		13 U	10 U	18 U	10 U	10 U
SURR 1(TOL) %RECOVERY			111	101	105	102	101
SURR 2(BFB) %RECOVERY			91	102	100	104	102
SURR 3(DCE) %RECOVERY			101	90	95	91	99

M/E 50
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

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D

DRAFT DO NOT CITE

AREA	QA	QA				QA	
LOCATION							
TYPE OF LOCATION	CONTINUING	ISTD RET TIM	WELL #9	WELL #9	319 LANDF.	METHOD	WELL #6
SAMPLE NUMBER	CAL %D	SHIFT	WELL	WELL	WELL	BLANK	WELL
MATRIX	AR0216887	AR0216888	AR407019B	AR407155D	AR417011B	VBLK0216	AR407086A
UNITS	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
ENV PROBLEM NO	%	AREA	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
			9	9	9		9
M/E 176-2							
M/E 177-1							
M/E 177-2							
INTERNAL STD AREA(BCM)		58900	39400	52700	46000	49000	45500
INTERNAL STD AREA(CBZ)		200000	135000	180000	165000	182000	173000
INTERNAL STD AREA(DFB)		243000	173000	201000	197000	208000	193000
DILUTION FACTOR			1	1	1	1	0.999
PERCENT MOISTURE			25		14		17
ACTUAL(ALLOWED) HOLD TIME			77(14 D)	76(14 D)	71(14 D)		75(14 D)

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION							
TYPE OF LOCATION	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %	TUNED	CONTINUING
SAMPLE NUMBER	SPIKE	RECOVERY		DUPLICATE	RECOVERY	CALIBRATION	CALIBRATION
MATRIX	AR407086A	AR407086A	AR407086A	AR407086A	AR407086A	AR0226885	AR0226887
UNITS	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER
ENV PROBLEM NO	UG/KG	%	%	UG/KG	%	%	RRF
	9	9	9	9	9		
ACETONE	12 U			14 U			0.081
BENZENE	60 U	97	-5	70 U	102		0.617
BROMODICHLOROMETHANE	6 U			7 U			0.664
BROMOFORM	6 U			7 U			0.406
BROMOMETHANE	12 U			14 U			0.885
CARBON DISULFIDE	6 U			7 U			1.789
CARBON TETRACHLORIDE	6 U			7 U			0.751
CHLOROBENZENE	62 MS	101	-2	71 MS	103		0.976
CHLOROETHANE	12 U			14 U			0.335
CHLOROFORM	6 U			7 U			2.562
CHLOROMETHANE	12 U			14 U			0.38
CIS-1,3-DICHLOROPROPENE	6 U			7 U			0.372
DIBROMOCHLOROMETHANE	6 U			7 U			0.628
ETHYLBENZENE	2 J			3 J			0.488
METHYLENE CHLORIDE	12 B			13 B			0.751
STYRENE	6 U			7 U			0.858

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	MATRIX SPIKE	MS % RECOVERY	RPD	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	TUNED CALIBRATION	CONTINUING CALIBRATION
TYPE OF LOCATION							
SAMPLE NUMBER	AR407086A	AR407086A	AR407086A	AR407086A	AR407086A	AR0226885	AR0226887
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER
UNITS	UG/KG	%	%	UG/KG	%	%	RRF
ENV PROBLEM NO	9	9	9	9	9		
TETRACHLOROETHENE	6 U			7 U			0.616
TOLUENE	60 U	94	-8	72 U	102		0.592
TOLUENE-D8							1.027
TRANS-1,3-DICHLOROPROPENE	6 U			7 U			0.263
TRICHLOROETHENE	66 U	107	-2	75 U	109		0.492
VINYL ACETATE	12 U			14 U			0.229
VINYL CHLORIDE	12 U			14 U			0.426
XYLENE (TOTAL)	6 U			7 U			0.501
1,1-DICHLOROETHANE	6 U			7 U			1.488
1,1-DICHLOROETHENE	69 U	112	5	74 U	107		0.901
1,1,1-TRICHLOROETHANE	8 B			9 B			0.75
1,1,2-TRICHLOROETHANE	6 U			7 U			0.267
1,1,2,2-TETRACHLOROETHANE	12 U			14 U			0.381
1,2-DICHLOROETHANE	6 U			7 U			1.554
1,2-DICHLOROETHANE-D4							1.321
1,2-DICHLOROETHENE (TOTAL)	6 U			7 U			0.993
1,2-DICHLOROPROPANE	6 U			7 U			0.239
1,4-BROMOFLUOROBENZENE							0.742
2-BUTANONE	12 U			14 U			0.006
2-HEXANONE	12 U			14 U			0.1
4-METHYL-2-PENTANONE	12 U			14 U			0.172
SURR 1(TOL) %RECOVERY	106			102			
SURR 2(BFB) %RECOVERY	108			100			
SURR 3(DCE) %RECOVERY	91			84			
M/E 50						20	
M/E 75						49	
M/E 95						100	
M/E 96						5.7	
M/E 173-1						0	
M/E 173-2						0	
M/E 174						98	
M/E 175-1						6.8	
M/E 175-2						6.9	
M/E 176-1						94	
M/E 176-2						96	
M/E 177-1						7.3	
M/E 177-2						7.8	

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA	QA	QA
LOCATION	MATRIX SPIKE	MS % RECOVERY	RPD	MATRIX SPIKE DUPLICATE	MSD % RECOVERY	TUNED CALIBRATION	CONTINUING CALIBRATION
TYPE OF LOCATION							
SAMPLE NUMBER	AR407086A	AR407086A	AR407086A	AR407086A	AR407086A	AR0226885	AR0226887
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER
UNITS	UG/KG	%	%	UG/KG	%	%	RRF
ENV PROBLEM NO	9	9	9	9	9		
INTERNAL STD AREA(BCM)	47500			49500			
INTERNAL STD AREA(CBZ)	176000			175000			
INTERNAL STD AREA(DFB)	205000			200000			
DILUTION FACTOR	1			1			
PERCENT MOISTURE	17			17			
ACTUAL(ALLOWED) HOLD TIME	75(14 D)			75(14 D)			

AREA	QA	QA	QA				
LOCATION	CONTINUING CAL %D	ISTD RET TIM SHIFT	METHOD BLANK	800 LF NEW WELL	PLOT M NEW WELL	PLOT M WELL	
TYPE OF LOCATION							
SAMPLE NUMBER	AR0226887	AR0226888	VBLK0226	AR408010C	AR413062B	AR413017C	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	%	AREA	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO				9	9	9	
ACETONE	54.5		10 U	10 U	10 U	10 U	
BENZENE	-3.4		5 U	5 U	5 U	5 U	
BROMODICHLOROMETHANE	-8.4		5 U	5 U	5 U	5 U	
BROMOFORM	-28.9		5 U	5 U	5 U	5 U	
BROMOMETHANE	-8.6		10 U	10 U	10 U	10 U	
CARBON DISULFIDE	8.4		5 U	5 U	5 U	5 U	
CARBON TETRACHLORIDE	-22.5		5 U	5 U	5 U	5 U	
CHLOROBENZENE	-4.3		5 U	5 U	5 U	5 U	
CHLOROETHANE	-6.3		10 U	10 U	10 U	10 U	
CHLOROFORM	-2		5 U	5 U	5 U	5 U	
CHLOROMETHANE	9.1		10 U	10 U	10 U	10 U	
CIS-1,3-DICHLOROPROPENE	8.8		5 U	5 U	5 U	5 U	
DIBROMOCHLOROMETHANE	-23.6		5 U	5 U	5 U	5 U	
ETHYLBENZENE	-3.4		5 U	5 U	5 U	5 U	
METHYLENE CHLORIDE	15.6		5 U	5 U	5 U	5 U	
STYRENE	2.3		5 U	5 U	5 U	5 U	
TETRACHLOROETHENE	-24.2		5 U	5 U	5 U	5 U	
TOLUENE	1.3		1 BJ	1 BJ	5 U	5 U	
TOLUENE-D8	5.3						
TRANS-1,3-DICHLOROPROPENE	20.3		5 U	5 U	5 U	5 U	

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D DRAFT DO NOT CITE

AREA	QA	QA	QA			
LOCATION	CONTINUING	ISTD RET TIM	METHOD	800 LF NEW	PLOT M NEW	PLOT M
TYPE OF LOCATION	CAL %D	SHIFT	BLANK	WELL	WELL	WELL
SAMPLE NUMBER	AR0226887	AR0226888	VBLK0226	AR408010C	AR413062B	AR413017C
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	AREA	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO				9	9	9
TRICHLOROETHENE	-12.8		5 U	5 U	5 U	5 U
VINYL ACETATE	15.8		10 U	10 U	10 U	10 U
VINYL CHLORIDE	12.4		10 U	10 U	10 U	10 U
XYLENE (TOTAL)	7.9		5 U	5 U	5 U	5 U
1,1-DICHLOROETHANE	10.7		5 U	5 U	5 U	5 U
1,1-DICHLOROETHENE	9		5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	-11.6		5 U	5 U	5 U	5 U
1,1,2-TRICHLOROETHANE	14.2		5 U	5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	0.3		10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	7.4		5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4	12.6					
1,2-DICHLOROETHENE (TOTAL)	12.2		5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	-1.3		5 U	5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE	-11.8					
2-BUTANONE	50		10 U	10 U	10 U	10 U
2-HEXANONE	19.4		10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	18.5		10 U	10 U	10 U	10 U
SURR 1(TOL) %RECOVERY			92	94	93	90
SURR 2(BFB) %RECOVERY			119 *	123 *	127 *	123 *
SURR 3(DCE) %RECOVERY			98	89	88	114
M/E 50						
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)		39400	31700	30100	30100	25700
INTERNAL STD AREA(CBZ)		134000	116000	108000	109000	113000
INTERNAL STD AREA(DFB)		148000	136000	126000	119000	125000

TABLE D.8.2 ARGONNE VOLATILE ORGANICS - SDG NUMBER: AR406030D

DRAFT DO NOT CITE

AREA	QA	QA	QA				
LOCATION	CONTINUING	ISTD RET TIM	METHOD	800 LF NEW	PLOT M NEW	PLOT M	
TYPE OF LOCATION	CAL %D	SHIFT	BLANK	WELL	WELL	WELL	
SAMPLE NUMBER	AR0226887	AR0226888	VBLK0226	AR408010C	AR413062B	AR413017C	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	%	AREA	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO				9	9	9	
DILUTION FACTOR			1	1	1	1	
PERCENT MOISTURE							
ACTUAL(ALLOWED) HOLD TIME					79(14 D)	79(14 D)	

TABLE D.8.3 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GD01 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	REANALYSIS	REANALYSIS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		
SAMPLE NUMBER	AR1201875	AR1201877	AR1201877	AR1201878	VBKGD01	AR803053A	AR807013A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						18	21
ACETONE		0.778	79		16	24 B	19 B
BENZENE		0.773	5.4		5 U	4 J	7 U
BROMODICHLOROMETHANE		0.838	22.1		5 U	6 U	7 U
BROMOFORM		0.448	9.3		5 U	6 U	7 U
BROMOMETHANE		1.669	28		10 U	12 U	13 U
CARBON DISULFIDE		3.187	6		5 U	6 U	7 U
CARBON TETRACHLORIDE		0.908	25.9		5 U	7	7 U
CHLOROBENZENE		1.014	7.5		5 U	6 U	7 U
CHLOROETHANE		0.855	23.5		10 U	12 U	13 U
CHLOROFORM		3.314	5.9		5 U	2 J	7 U
CHLOROMETHANE		0.898	36.2		10 U	12 U	13 U
CIS-1,3-DICHLOROPROPENE		0.441	22.7		5 U	6 U	7 U
DIBROMOCHLOROMETHANE		0.675	24.2		5 U	6 U	7 U
ETHYLBENZENE		0.562	15.9		5 U	6 U	7 U
METHYLENE CHLORIDE		1.531	7.2		2 J	3200 BE	3400 BE
STYRENE		1.089	7		5 U	6 U	7 U
TETRACHLOROETHENE		0.557	20.7		5 U	6 U	7 U
TOLUENE		0.786	9.3		5 U	10	7 U
TOLUENE-D8		1.07	3.7				
TRANS-1,3-DICHLOROPROPENE		0.699	12.4		5 U	6 U	7 U
TRICHLOROETHENE		0.429	14.3		5 U	69	7 U
VINYL ACETATE		0.287	18.1		10 U	12 U	13 U
VINYL CHLORIDE		1.386	21.7		10 U	12 U	13 U
XYLENE (TOTAL)		0.666	12.2		5 U	6 U	7 U
1,1-DICHLOROETHANE		1.903	5		5 U	6 J	7 U
1,1-DICHLOROETHENE		1.253	11.9		5 U	6 U	7 U
1,1,1-TRICHLOROETHANE		0.997	24.6		5 U	68	5 J
1,1,2-TRICHLOROETHANE		0.324	15.9		5 U	6 U	7 U
1,1,2,2-TETRACHLOROETHANE		0.484	3.4		5 U	6 U	7 U
1,2-DICHLOROETHANE		3.14	2.4		5 U	18	7 U
1,2-DICHLOROETHANE-D4		2.322	12.1				
1,2-DICHLOROETHENE (TOTAL)		1.096	10.2		5 U	21	7 U
1,2-DICHLOROPROPANE		0.214	6.2		5 U	6 U	7 U
1,4-BROMOFLUOROBENZENE		0.707	4.4				
2-BUTANONE		0.025	30.3		10 U	12 U	13 U
2-HEXANONE		0.202	20.1		10 U	12 U	13 U
4-METHYL-2-PENTANONE		0.25	10.6		10 U	12 U	13 U
SURR 1(TOL) %RECOVERY					101	118 *	120 *

TABLE D.8.3 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GD01

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	REANALYSIS	REANALYSIS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		
SAMPLE NUMBER	AR1201875	AR1201877	AR1201877	AR1201878	VBKGD01	AR803053A	AR807013A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						18	21
SURR 2(BFB) %RECOVERY					105	103	101
SURR 3(DCE) %RECOVERY					99	95	114
M/E 50	20						
M/E 75	57						
M/E 95	100						
M/E 96	8.8						
M/E 173-1	2						
M/E 173-2	2.4						
M/E 174	82						
M/E 175-1	7.1						
M/E 175-2	8.6						
M/E 176-1	79						
M/E 176-2	97						
M/E 177-1	7						
M/E 177-2	8.9						
INTERNAL STD AREA(BCM)				2350000	2200000	1520000	1480000
INTERNAL STD AREA(CBZ)				6820000	6500000	2480000	2980000
INTERNAL STD AREA(DFB)				8270000	7880000	4290000	4880000
DILUTION FACTOR					1	1.16	1.33
PERCENT MOISTURE						13.9	24.6
ACTUAL(ALLOWED) HOLD TIME						19(14 D)	15(14 D)

AREA							
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	SITE A			
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	SITE A	TRIP BLANK	TRIP BLANK	
SAMPLE NUMBER	AR500682A	AR500604A	AR500671A	AR815137A	ARN34012A	ARN36014A	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	10	10	10	25	99	99	
ACETONE	730 BE	4600 BE	3000 BE	82 B	17 B	12 B	
BENZENE	5 U	16	5 U	5 U	5 U	5 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U	

TABLE D.8.3 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GD01 DRAFT DO NOT CITE

AREA

LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	SITE A	TRIP BLANK	TRIP BLANK
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	SITE A		
SAMPLE NUMBER	AR500682A	AR500604A	AR500671A	AR815137A	ARN34012A	ARN36014A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	10	10	10	25	99	99
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	4 J	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	10 U	10 U	10 U	10 U
CHLOROFORM	100	15	9 U	5 U	2 J	5 U
CHLOROMETHANE	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
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	83 B	330 BE	19 B	14 B	8 B	12 B
STYRENE	5 U	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	620 E	8	5 U	5 U	5 U	5 U
TOLUENE	20	4 J	10	13	5 U	5 U
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	5 U
TRICHLOROETHENE	27	5 U	5 U	5 U	5 U	5 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)	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	4 J	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 (TOTAL)	4 J	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
1,4-BROMOFLUOROBENZENE						
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	36	10 U	10 U	10 U	10 U	10 U
SURR 1(TOL) %RECOVERY	94	90	100	99	99	98
SURR 2(BFB) %RECOVERY	105	94	106	115	112	112
SURR 3(DCE) %RECOVERY	98	101	121 *	117 *	116 *	119 *

M/E 50

TABLE D.8.3 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GD01

DRAFT DO NOT CITE

AREA

LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	SITE A		
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	SITE A	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	AR500682A	AR500604A	AR500671A	AR815137A	ARN34012A	ARN36014A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	10	10	10	25	99	99
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	2040000	1860000	1880000	1910000	1890000
INTERNAL STD AREA(CBZ)	7200000	6800000	6310000	6340000	6490000	6240000
INTERNAL STD AREA(DFB)	8650000	7780000	7890000	7720000	8030000	7670000
DILUTION FACTOR	1	1	1	1	1	1
PERCENT MOISTURE						
ACTUAL(ALLOWED) HOLD TIME	14(14 D)	18(14 D)	18(14 D)	18(14 D)	12(14 D)	12(14 D)

TABLE D.8.4 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN11 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	NPDESOUTF2	NPDESOUTF2
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	SEEP	SEEP
SAMPLE NUMBER	AR1111875	AR1111877	AR1111877	AR1111878	VBKGN11	AR307018A	AR307029A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						3	3
ACETONE		0.511	17.6		14	10 U	10 U
BENZENE		0.768	4.7		5 U	5 U	5 U
BROMODICHLOROMETHANE		0.71	3.6		5 U	5 U	5 U
BROMOFORM		0.458	11.7		5 U	5 U	5 U
BROMOMETHANE		0.801	38.6		10 U	10 U	10 U
CARBON DISULFIDE		2.292	23.8		5 U	5 U	5 U
CARBON TETRACHLORIDE		0.716	0.8		5 U	5 U	5 U
CHLOROBENZENE		1.052	11.5		5 U	5 U	5 U
CHLOROETHANE		0.635	43.2		10 U	10 U	10 U
CHLOROFORM		3.247	7.8		5 U	5 U	5 U
CHLOROMETHANE		0.301	78.6		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.41	14		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.645	18.6		5 U	5 U	5 U
ETHYLBENZENE		0.534	10.3		5 U	5 U	5 U
METHYLENE CHLORIDE		1.855	12.5		2 J	3 JB	0.9 JB
STYRENE		1.069	5.1		5 U	5 U	5 U
TETRACHLOROETHENE		0.526	14		5 U	5 U	5 U
TOLUENE		0.79	9.8		5 U	6	4 J
TOLUENE-D8		1.024	7.8				
TRANS-1,3-DICHLOROPROPENE		0.662	6.4		5 U	5 U	5 U
TRICHLOROETHENE		0.403	7.4		5 U	5 U	5 U
VINYL ACETATE		0.18	25.9		10 U	10 U	10 U
VINYL CHLORIDE		0.671	62.1		10 U	10 U	10 U
XYLENE (TOTAL)		0.645	8.7		5 U	5 U	5 U
1,1-DICHLOROETHANE		1.882	6		5 U	5 U	5 U
1,1-DICHLOROETHENE		0.917	18.1		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.803	0.5		5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		0.328	17.1		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.542	16		5 U	5 U	5 U
1,2-DICHLOROETHANE		3.181	3.8		5 U	5 U	5 U
1,2-DICHLOROETHANE-D4		2.248	14.9				
1,2-DICHLOROETHENE (TOTAL)		1.158	5.2		5 U	5 U	5 U
1,2-DICHLOROPROPANE		0.217	7.7		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.702	4.9				
2-BUTANONE		0.025	35.3		10 U	10 U	10 U
2-HEXANONE		0.19	12.9		10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.267	18.2		10 U	10 U	10 U
SURR 1(TOL) %RECOVERY					113 *	105	104

TABLE D.8.4 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN11

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	NPDESOUTF2	NPDESOUTF2
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	SEEP	SEEP
SAMPLE NUMBER	AR1111875	AR1111877	AR1111877	AR1111878	VBKGN11	AR307018A	AR307029A
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					104	98	99
SURR 3(DCE) %RECOVERY					109	110	108
M/E 50	20						
M/E 75	57						
M/E 95	100						
M/E 96	7.5						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	89						
M/E 175-1	7.4						
M/E 175-2	8.4						
M/E 176-1	85						
M/E 176-2	96						
M/E 177-1	6.6						
M/E 177-2	7.7						
INTERNAL STD AREA(BCM)				3370000	2960000	2900000	2850000
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
ACTUAL(ALLOWED) HOLD TIME						6(14 D)	5(14 D)

AREA			QA	QA	QA	QA	QA
LOCATION	NPDESOUTF2	COAL PILE	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %
TYPE OF LOCATION	SEEP	RUNOFF	SPIKE	RECOVERY		DUPLICATE	RECOVERY
SAMPLE NUMBER	AR307041A	AR308042A	AR308042A	AR308042A	AR308042A	AR308042A	AR308042A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	%	%	UG/L	%
ENV PROBLEM NO	3	4	4	4	4	4	4
ACETONE	10 U	12 B	14 B			11 B	
BENZENE	5 U	5 U	60 U	100	0	61	101
BROMODICHLOROMETHANE	5 U	5 U	5 U			5 U	
BROMOFORM	5 U	5 U	5 U			5 U	

TABLE D.8.4 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN11 DRAFT DO NOT CITE

AREA			QA	QA	QA	QA	QA
LOCATION	NPDESOUTF2	COAL PILE	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %
TYPE OF LOCATION	SEEP	RUNOFF	SPIKE	RECOVERY		DUPLICATE	RECOVERY
SAMPLE NUMBER	AR307041A	AR308042A	AR308042A	AR308042A	AR308042A	AR308042A	AR308042A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	%	%	UG/L	%
ENV PROBLEM NO	3	4	4	4	4	4	4
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	59 MS	91	6	62 MS	97
CHLOROETHANE	10 U	10 U	10 U			10 U	
CHLOROFORM	5 U	5 U	5 U			5 U	
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	5 U	5 U	5 U			5 U	
METHYLENE CHLORIDE	1 JB	1 JB	1 JB			2 JB	
STYRENE	5 U	5 U	5 U			5 U	
TETRACHLOROETHENE	5 U	5 U	5 U			5 U	
TOLUENE	5 U	16	77 U	92	2	78 U	94
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U			5 U	
TRICHLOROETHENE	5 U	5 U	71 U	101	0	72 U	102
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	99 U	158 *	2	100 U	162 *
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							
1,2-DICHLOROETHENE (TOTAL)	5 U	5 U	5 U			5 U	
1,2-DICHLOROPROPANE	5 U	5 U	5 U			5 U	
1,4-BROMOFLUOROBENZENE							
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	88	103	110			104	
SURR 2(BFB) %RECOVERY	85 *	100	107			101	
SURR 3(DCE) %RECOVERY	95	104	115 *			107	

M/E 50

TABLE D.8.4 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN11

DRAFT DO NOT CITE

AREA			QA	QA	QA	QA	QA
LOCATION	NPDESOUTF2	COAL PILE	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %
TYPE OF LOCATION	SEEP	RUNOFF	SPIKE	RECOVERY		DUPLICATE	RECOVERY
SAMPLE NUMBER	AR307041A	AR308042A	AR308042A	AR308042A	AR308042A	AR308042A	AR308042A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	%	%	UG/L	%
ENV PROBLEM NO	3	4	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)	2830000	2850000	2810000			2780000	
INTERNAL STD AREA(CBZ)	1E+07	9790000	1E+07			9940000	
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07			1E+07	
DILUTION FACTOR	1	1	1			1	
ACTUAL(ALLOWED) HOLD TIME	5(14 D)	7(14 D)	7(14 D)			7(14 D)	

TABLE D.8.5 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN12 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA			QA
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	PLOT M	PLOT M	METHOD
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	WELL	WELL	BLANK
SAMPLE NUMBER	AR1112875	AR1112877	AR1112877	AR1112878	AR419013A	AR419024A	VBKGN12
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					9	9	
ACETONE		0.527	21.3		10 U	10 U	17
BENZENE		0.715	2.5		5 U	5 U	5 U
BROMODICHLOROMETHANE		0.726	5.9		5 U	5 U	5 U
BROMOFORM		0.44	7.4		5 U	5 U	5 U
BROMOMETHANE		0.728	44.2		10 U	10 U	10 U
CARBON DISULFIDE		1.585	47.3		5 U	5 U	5 U
CARBON TETRACHLORIDE		0.721	0		2 J	2 J	5 U
CHLOROBENZENE		1.016	7.6		5 U	5 U	5 U
CHLOROETHANE		0.514	54		10 U	10 U	10 U
CHLOROFORM		3.359	4.6		2 J	2 J	5 U
CHLOROMETHANE		0.184	86.9		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.415	15.5		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.632	16.2		5 U	5 U	5 U
ETHYLBENZENE		0.521	7.6		5 U	5 U	5 U
METHYLENE CHLORIDE		1.489	9.7		2 JB	1 JB	2 J
STYRENE		1.031	1.3		5 U	5 U	5 U
TETRACHLOROETHENE		0.492	6.7		5 U	5 U	5 U
TOLUENE		0.728	1.3		6	2 J	5 U
TOLUENE-D8		1.042	6.2				
TRANS-1,3-DICHLOROPROPENE		0.657	5.6		5 U	5 U	5 U
TRICHLOROETHENE		0.393	4.7		5 U	5 U	5 U
VINYL ACETATE		0.206	15.2		10 U	10 U	10 U
VINYL CHLORIDE		0.536	69.7		10 U	10 U	10 U
XYLENE (TOTAL)		0.629	6.1		5 U	5 U	5 U
1,1-DICHLOROETHANE		1.813	9.5		30	29	5 U
1,1-DICHLOROETHENE		0.786	29.8		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.809	1.1		13	12	5 U
1,1,2-TRICHLOROETHANE		0.318	13.5		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.496	6		5 U	5 U	5 U
1,2-DICHLOROETHANE		3.195	4.2		6	6	5 U
1,2-DICHLOROETHANE-D4		2.445	7.4				
1,2-DICHLOROETHENE (TOTAL)		1.03	15.7		5 U	5 U	5 U
1,2-DICHLOROPROPANE		0.199	1.2		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.719	2.7				
2-BUTANONE		0.019	0.9		10 U	10 U	10 U
2-HEXANONE		0.183	9.2		10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.248	9.8		10 U	10 U	10 U
SURR 1(TOL) %RECOVERY					99	102	105

TABLE D.8.5 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN12

DRAFT DO NOT CITE

AREA

LOCATION	QA	QA	QA	QA			QA
TYPE OF LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD RET TIM SHIFT	PLOT M WELL	PLOT M WELL	METHOD BLANK
SAMPLE NUMBER	AR1112875	AR1112877	AR1112877	AR1112878	AR419013A	AR419024A	VBKGN12
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO					9	9	
SURR 2(BFB) %RECOVERY					104	107	105
SURR 3(DCE) %RECOVERY					101	102	101
M/E 50	18						
M/E 75	58						
M/E 95	100						
M/E 96	6.5						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	93						
M/E 175-1	6.6						
M/E 175-2	7.1						
M/E 176-1	93						
M/E 176-2	100						
M/E 177-1	8.1						
M/E 177-2	8.7						
INTERNAL STD AREA(BCM)				2670000	2520000	2530000	2620000
INTERNAL STD AREA(CBZ)				9360000	8910000	8580000	9320000
INTERNAL STD AREA(DFB)				1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR					1	1	1
ACTUAL(ALLOWED) HOLD TIME					7(14 D)	6(14 D)	

AREA

LOCATION	B815 SEWER	B815 SEWER	B815 SEWER	SE 317 ARE	PLOT M	PLOT M
TYPE OF LOCATION	DRAINAGE	DRAINAGE	DRAINAGE	DRAINAGE	WELL	WELL
SAMPLE NUMBER	AR309010A	AR309021A	AR309032A	AR804043A	AR415019A	AR415020A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	5	5	5	18	9	9
ACETONE	10 U	10 U	10 U	9 JB	10 U	10 U
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
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U

TABLE D.8.5 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN12 DRAFT DO NOT CITE

AREA

LOCATION	B815 SEWER	B815 SEWER	B815 SEWER	SE 317 ARE	PLOT M	PLOT M
TYPE OF LOCATION	DRAINAGE	DRAINAGE	DRAINAGE	DRAINAGE	WELL	WELL
SAMPLE NUMBER	AR309010A	AR309021A	AR309032A	AR804043A	AR415019A	AR415020A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	5	5	5	18	9	9
BROMOMETHANE	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
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	10 U	10 U	10 U	10 U
CHLOROFORM	5 U	5 U	5 U	5 U	5 U	5 U
CHLOROMETHANE	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
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	2 JB	4 JB	1 JB	2 JB	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	5 U	5 U	3 J	8	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 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)	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 (TOTAL)	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
1,4-BROMOFLUOROBENZENE						
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	106		104	97	103	98
SURR 2(BFB) %RECOVERY	102		110	101	108	96
SURR 3(DCE) %RECOVERY	103		109	100	104	98

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TABLE D.8.5 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN12

DRAFT DO NOT CITE

AREA

LOCATION	B815 SEWER	B815 SEWER	B815 SEWER	SE 317 ARE	PLOT M	PLOT M
TYPE OF LOCATION	DRAINAGE	DRAINAGE	DRAINAGE	DRAINAGE	WELL	WELL
SAMPLE NUMBER	AR309010A	AR309021A	AR309032A	AR804043A	AR415019A	AR415020A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	5	5	5	18	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)	2540000	2530000	2490000	2540000	2500000	2540000
INTERNAL STD AREA(CBZ)	9000000	9070000	9040000	9140000	8750000	8840000
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR	1	1	1	1	1	1
ACTUAL(ALLOWED) HOLD TIME	8(14 D)	7(14 D)	6(14 D)	7(14 D)	7(14 D)	7(14 D)

TABLE D.8.6 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN13 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	BLDG 108	BLDG 108
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	SILT	SILT
SAMPLE NUMBER	AR1113875	AR1113877	AR1113877	AR1113878	VBKGN13	AR508022A	AR508033A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						16	16
ACETONE		0.655	50.7		13	10 U	12 B
BENZENE		0.698	4.9		5 U	5 U	5 U
BROMODICHLOROMETHANE		0.737	7.4		5 U	5 U	5 U
BROMOFORM		0.415	1.4		5 U	5 U	5 U
BROMOMETHANE		0.707	45.8		10 U	10 U	10 U
CARBON DISULFIDE		1.592	47		5 U	5 U	5 U
CARBON TETRACHLORIDE		0.704	2.4		5 U	5 U	5 U
CHLOROBENZENE		1.01	7		5 U	5 U	5 U
CHLOROETHANE		0.525	53		10 U	10 U	10 U
CHLOROFORM		3.398	3.5		5 U	5 U	5 U
CHLOROMETHANE		0.218	84.5		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.411	14.5		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.627	15.3		5 U	5 U	5 U
ETHYLBENZENE		0.517	6.7		5 U	5 U	5 U
METHYLENE CHLORIDE		1.589	3.6		1 J	3 JB	3 JB
STYRENE		1.106	8.7		5 U	5 U	5 U
TETRACHLOROETHENE		0.501	8.6		5 U	5 U	5 U
TOLUENE		0.729	1.4		5 U	10	12
TOLUENE-D8		1.061	4.4				
TRANS-1,3-DICHLOROPROPENE		0.641	3.1		5 U	5 U	5 U
TRICHLOROETHENE		0.382	1.9		5 U	5 U	5 U
VINYL ACETATE		0.208	14.3		10 U	10 U	10 U
VINYL CHLORIDE		0.477	73		10 U	10 U	10 U
XYLENE (TOTAL)		0.64	7.9		5 U	5 U	5 U
1,1-DICHLOROETHANE		1.807	9.8		5 U	5 U	5 U
1,1-DICHLOROETHENE		0.78	30.3		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.785	1.9		5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		0.309	10.5		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.502	7.3		5 U	5 U	5 U
1,2-DICHLOROETHANE		3.289	7.3		5 U	5 U	5 U
1,2-DICHLOROETHANE-D4		2.568	2.8				
1,2-DICHLOROETHENE (TOTAL)		1.047	14.3		5 U	5 U	5 U
1,2-DICHLOROPROPANE		0.21	4.3		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.729	1.4				
2-BUTANONE		0.021	13.9		10 U	10 U	10 U
2-HEXANONE		0.197	17.4		10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.253	12.1		10 U	10 U	10 U
SURR 1(TOL) %RECOVERY					99	97	98

TABLE D.8.6 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN13

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION							
TYPE OF LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD RET TIM SHIFT	METHOD BLANK	BLDG 108 SILT	BLDG 108 SILT
SAMPLE NUMBER	AR1113875	AR1113877	AR1113877	AR1113878	VBKGN13	AR508022A	AR508033A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						16	16
SURR 2(BFB) %RECOVERY					102	102	104
SURR 3(DCE) %RECOVERY					98	97	99
M/E 50	22						
M/E 75	60						
M/E 95	100						
M/E 96	5.2						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	84						
M/E 175-1	6.6						
M/E 175-2	7.8						
M/E 176-1	83						
M/E 176-2	99						
M/E 177-1	5.9						
M/E 177-2	7.1						
INTERNAL STD AREA(BCM)				2370000	2420000	2440000	2440000
INTERNAL STD AREA(CBZ)				8400000	8830000	8920000	8750000
INTERNAL STD AREA(DFB)				1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR					1	1	1
ACTUAL(ALLOWED) HOLD TIME						7(14 D)	7(14 D)

AREA						
LOCATION						
TYPE OF LOCATION	BLDG 108 SILT	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	AR508044A	ARN01013A	ARN05017A	ARN07019A	ARN08010A	ARN11015A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	16	99	99	99	99	99
ACETONE	12 B	3 JB	3 JB	2 JB	2 JB	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
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U

TABLE D.8.6 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN13 DRAFT DO NOT CITE

AREA

LOCATION	BLDG 108					
TYPE OF LOCATION	SILT	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	AR508044A	ARN01013A	ARN05017A	ARN07019A	ARN08010A	ARN11015A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	16	99	99	99	99	99
BROMOMETHANE	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
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	10 U	10 U	10 U	10 U
CHLOROFORM	5 U	2 J	2 J	2 J	2 J	2 J
CHLOROMETHANE	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
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	3 JB	3 JB	4 JB	3 JB	3 JB	3 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	16	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 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)	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 (TOTAL)	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
1,4-BROMOFLUOROBENZENE						
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	100	101	99	97	98	99
SURR 2(BFB) %RECOVERY	104	102	104	99	100	99
SURR 3(DCE) %RECOVERY	98	101	99	100	101	100

M/E 50

TABLE D.8.6 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN13

DRAFT DO NOT CITE

AREA

LOCATION	BLDG 108	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
TYPE OF LOCATION	SILT	ARN01013A	ARN05017A	ARN07019A	ARN08010A	ARN11015A
SAMPLE NUMBER	AR508044A	WATER	WATER	WATER	WATER	WATER
MATRIX	WATER	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS	UG/L	99	99	99	99	99
ENV PROBLEM NO	16					
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)	2390000	2450000	2370000	2370000	2370000	2280000
INTERNAL STD AREA(CBZ)	8590000	8590000	8470000	8580000	8640000	8270000
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR	1	1	1	1	1	1
ACTUAL(ALLOWED) HOLD TIME	7(14 D)	8(14 D)	7(14 D)	7(14 D)	4(14 D)	4(14 D)

TABLE D.8.7 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN14 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	NPDESOUTF2	PLOT M
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	SEEP	WELL
SAMPLE NUMBER	AR1114875	AR1114877	AR1114877	AR1114878	VBKGN14	AR307030A	AR412016A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						3	9
ACETONE		0.812	86.9		10 J	2 JB	1 JB
BENZENE		0.802	9.4		5 U	5 U	5 U
BROMODICHLOROMETHANE		0.763	11.3		5 U	5 U	5 U
BROMOFORM		0.442	8		5 U	5 U	5 U
BROMOMETHANE		2.116	62.2		10 U	10 U	10 U
CARBON DISULFIDE		2.79	7.2		5 U	5 U	5 U
CARBON TETRACHLORIDE		0.859	19.1		5 U	5 U	5 U
CHLOROBENZENE		1.062	12.5		5 U	5 U	5 U
CHLOROETHANE		1.202	7.5		10 U	10 U	10 U
CHLOROFORM		3.751	6.5		5 U	5 U	5 U
CHLOROMETHANE		1.512	7.4		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.441	22.9		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.613	12.7		5 U	5 U	5 U
ETHYLBENZENE		0.537	10.8		5 U	5 U	5 U
METHYLENE CHLORIDE		1.85	12.2		2 J	4 JB	3 JB
STYRENE		1.102	8.3		5 U	5 U	5 U
TETRACHLOROETHENE		0.545	18.1		5 U	5 U	5 U
TOLUENE		0.79	9.8		5 U	3 J	5 U
TOLUENE-D8		1.069	3.8				
TRANS-1,3-DICHLOROPROPENE		0.703	13		5 U	5 U	5 U
TRICHLOROETHENE		0.432	15.2		5 U	5 U	5 U
VINYL ACETATE		0.42	72.9		10 U	10 U	10 U
VINYL CHLORIDE		1.941	9.7		10 U	10 U	10 U
XYLENE (TOTAL)		0.645	8.7		5 U	5 U	5 U
1,1-DICHLOROETHANE		2.114	5.5		5 U	5 U	5 U
1,1-DICHLOROETHENE		1.206	7.7		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.918	14.8		5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		0.323	15.5		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.486	4		5 U	5 U	5 U
1,2-DICHLOROETHANE		3.651	19.1		5 U	5 U	5 U
1,2-DICHLOROETHANE-D4		2.555	3.2				
1,2-DICHLOROETHENE (TOTAL)		1.369	12.1		5 U	5 U	5 U
1,2-DICHLOROPROPANE		0.219	9		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.765	3.5				
2-BUTANONE		0.036	92.9		10 U	10 U	10 U
2-HEXANONE		0.277	64.7		10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.261	15.6		10 U	10 U	10 U
SURR 1(TOL) %RECOVERY					95	93	93

TABLE D.8.7 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN14 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	NPDESOUTF2	PLOT M
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	SEEP	WELL
SAMPLE NUMBER	AR1114875	AR1114877	AR1114877	AR1114878	VBKGN14	AR307030A	AR412016A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						3	9
SURR 2(BFB) %RECOVERY					95	96	99
SURR 3(DCE) %RECOVERY					97	97	99
M/E 50	17						
M/E 75	54						
M/E 95	100						
M/E 96	8.4						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	86						
M/E 175-1	6.2						
M/E 175-2	7.2						
M/E 176-1	84						
M/E 176-2	98						
M/E 177-1	5.6						
M/E 177-2	6.8						
INTERNAL STD AREA(BCM)				2380000	2340000	2260000	2240000
INTERNAL STD AREA(CBZ)				8570000	8640000	8280000	8370000
INTERNAL STD AREA(DFB)				1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR					1	1	1
ACTUAL(ALLOWED) HOLD TIME						4(14 D)	10(14 D)

AREA				QA	QA	QA	QA
LOCATION	PLOT M	RET. TANKS	RET. TANKS	MATRIX	MS %	RPD	MATRIX SPIKE
TYPE OF LOCATION	WELL	WASTEWATER	WASTEWATER	SPIKE	RECOVERY		DUPLICATE
SAMPLE NUMBER	AR412027A	AR500013A	AR500091A	AR500091A	AR500091A	AR500091A	AR500091A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	%	%	UG/L
ENV PROBLEM NO	9	10	10	10	10	10	10
ACETONE	1 JB	4500 BE	530 BE	9 JB			9 JB
BENZENE	5 U	5 U	5 U	60 U	100	3	59 U
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U			5 U
BROMOFORM	5 U	5 U	5 U	5 U			5 U

TABLE D.8.7 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN14 DRAFT DO NOT CITE

AREA				QA	QA	QA	QA
LOCATION	PLOT M	RET. TANKS	RET. TANKS	MATRIX	MS %	RPD	MATRIX SPIKE
TYPE OF LOCATION	WELL	WASTEWATER	WASTEWATER	SPIKE	RECOVERY		DUPLICATE
SAMPLE NUMBER	AR412027A	AR500013A	AR500091A	AR500091A	AR500091A	AR500091A	AR500091A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	%	%	UG/L
ENV PROBLEM NO	9	10	10	10	10	10	10
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	61 MS	94	1	61 MS
CHLOROETHANE	10 U	10 U	10 U	10 U			10 U
CHLOROFORM	5 U	14	9	9			9
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
DIBROMOCHLOROMETHANE	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	1600 BE	140 B	130 B			130 B
STYRENE	5 U	5 U	5 U	5 U			5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U			5 U
TOLUENE	5 U	21	5 U	63 U	95	2	62 U
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U			5 U
TRICHLOROETHENE	5 U	130	5 U	73 U	103	2	70 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	80 U	129	3	77 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U			1 J
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	2 J	5 U	5 U			5 U
1,2-DICHLOROETHANE-D4							
1,2-DICHLOROETHENE (TOTAL)	5 U	140	5 U	5 U			5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U			5 U
1,4-BROMOFLUOROBENZENE							
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	95	96	93	96			93
SURR 2(BFB) %RECOVERY	102	93	95	101			99
SURR 3(DCE) %RECOVERY	101	96	97	99			97

M/E 50

TABLE D.8.7 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN14

DRAFT DO NOT CITE

AREA				QA	QA	QA	QA
LOCATION	PLOT M	RET. TANKS	RET. TANKS	MATRIX	MS %	RPD	MATRIX SPIKE
TYPE OF LOCATION	WELL	WASTEWATER	WASTEWATER	SPIKE	RECOVERY		DUPLICATE
SAMPLE NUMBER	AR412027A	AR500013A	AR500091A	AR500091A	AR500091A	AR500091A	AR500091A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	%	%	UG/L
ENV PROBLEM NO	9	10	10	10	10	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							
INTERNAL STD AREA(BCM)	2140000	2240000	2280000	2330000			2280000
INTERNAL STD AREA(CBZ)	8110000	8530000	8330000	8670000			8410000
INTERNAL STD AREA(DFB)	9540000	1E+07	1E+07	1E+07			1E+07
DILUTION FACTOR	1	1	1	1			1
ACTUAL(ALLOWED) HOLD TIME	10(14 D)	5(14 D)	5(14 D)	5(14 D)			5(14 D)

AREA	QA
LOCATION	MSD %
TYPE OF LOCATION	RECOVERY
SAMPLE NUMBER	AR500091A
MATRIX	WATER
UNITS	%
ENV PROBLEM NO	10
ACETONE	
BENZENE	97
BROMODICHLOROMETHANE	
BROMOFORM	
BROMOMETHANE	
CARBON DISULFIDE	
CARBON TETRACHLORIDE	
CHLOROBENZENE	95

TABLE D.8.7 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN14 DRAFT DO NOT CITE

AREA	QA
LOCATION	MSD %
TYPE OF LOCATION	RECOVERY
SAMPLE NUMBER	AR500091A
MATRIX	WATER
UNITS	%
ENV PROBLEM NO	10
CHLOROETHANE	
CHLOROFORM	
CHLOROMETHANE	
CIS-1,3-DICHLOROPROPENE	
DIBROMOCHLOROMETHANE	
ETHYLBENZENE	
METHYLENE CHLORIDE	
STYRENE	
TETRACHLOROETHENE	
TOLUENE	93
TOLUENE-D8	
TRANS-1,3-DICHLOROPROPENE	
TRICHLOROETHENE	100
VINYL ACETATE	
VINYL CHLORIDE	
XYLENE (TOTAL)	
1,1-DICHLOROETHANE	
1,1-DICHLOROETHENE	124
1,1,1-TRICHLOROETHANE	
1,1,2-TRICHLOROETHANE	
1,1,2,2-TETRACHLOROETHANE	
1,2-DICHLOROETHANE	
1,2-DICHLOROETHANE-D4	
1,2-DICHLOROETHENE (TOTAL)	
1,2-DICHLOROPROPANE	
1,4-BROMOFLUOROBENZENE	
2-BUTANONE	
2-HEXANONE	
4-METHYL-2-PENTANONE	
SURR 1(TOL) %RECOVERY	
SURR 2(BFB) %RECOVERY	
SURR 3(DCE) %RECOVERY	
M/E 50	
M/E 75	
M/E 95	
M/E 96	
M/E 173-1	

TABLE D.8.7 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN14

DRAFT DO NOT CITE

AREA	QA
LOCATION	MSD %
TYPE OF LOCATION	RECOVERY
SAMPLE NUMBER	AR500091A
MATRIX	WATER
UNITS	%
ENV PROBLEM NO	10
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)	
INTERNAL STD AREA(CBZ)	
INTERNAL STD AREA(DFB)	
DILUTION FACTOR	
ACTUAL(ALLOWED) HOLD TIME	

TABLE D.8.8 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN15 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD		NPDESOUTF1
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	TRIP BLANK	EFFLUENT
SAMPLE NUMBER	AR1115875	AR1115877	AR1115877	AR1115878	VBKGN15	ARN15019A	AR300011A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						99	1
ACETONE		0.816	87.9		12	4 JB	3 JB
BENZENE		0.805	9.7		5 U	5 U	5 U
BROMODICHLOROMETHANE		0.751	9.5		5 U	5 U	2 J
BROMOFORM		0.441	7.7		5 U	5 U	5 U
BROMOMETHANE		1.852	42		10 U	10 U	10 U
CARBON DISULFIDE		2.641	12.2		5 U	5 U	5 U
CARBON TETRACHLORIDE		0.816	13.2		5 U	5 U	1 J
CHLOROBENZENE		1.087	15.2		5 U	5 U	5 U
CHLOROETHANE		1.102	1.4		10 U	10 U	10 U
CHLOROFORM		3.646	3.6		5 U	2 J	8
CHLOROMETHANE		1.401	0.5		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.446	24		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.589	8.4		5 U	5 U	3 J
ETHYLBENZENE		0.532	9.9		5 U	5 U	5 U
METHYLENE CHLORIDE		1.772	7.5		3 J	4 JB	16 B
STYRENE		1.133	11.4		5 U	5 U	5 U
TETRACHLOROETHENE		0.561	21.6		5 U	5 U	5 U
TOLUENE		0.811	12.7		0.8 J	5 U	4 JB
TOLUENE-D8		1.132	1.9				
TRANS-1,3-DICHLOROPROPENE		0.706	13.5		5 U	5 U	5 U
TRICHLOROETHENE		0.428	14		5 U	5 U	5 U
VINYL ACETATE		0.431	77.6		10 U	10 U	10 U
VINYL CHLORIDE		1.791	1.2		10 U	10 U	10 U
XYLENE (TOTAL)		0.614	3.5		5 U	5 U	5 U
1,1-DICHLOROETHANE		2.079	3.8		5 U	5 U	5 U
1,1-DICHLOROETHENE		1.198	7		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.886	10.8		5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		0.326	16.6		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.527	12.8		5 U	5 U	5 U
1,2-DICHLOROETHANE		3.513	14.6		5 U	5 U	5 U
1,2-DICHLOROETHANE-D4		2.573	2.6				
1,2-DICHLOROETHENE (TOTAL)		1.293	5.8		5 U	5 U	5 U
1,2-DICHLOROPROPANE		0.216	7.5		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.787	6.5				
2-BUTANONE		0.034	82		10 U	10 U	10 U
2-HEXANONE		0.3	78.8		10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.283	25.3		10 U	10 U	10 U
SURR 1(TOL) %RECOVERY					130 *	100	99

TABLE D.8.8 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN15

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD		NPDESOUTF1
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	TRIP BLANK	EFFLUENT
SAMPLE NUMBER	AR1115875	AR1115877	AR1115877	AR1115878	VBKGN15	ARN15019A	AR300011A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						99	1
SURR 2(BFB) %RECOVERY					90	94	98
SURR 3(DCE) %RECOVERY					86	91	93
M/E 50	22						
M/E 75	58						
M/E 95	100						
M/E 96	5.9						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	84						
M/E 175-1	5.8						
M/E 175-2	6.9						
M/E 176-1	84						
M/E 176-2	100						
M/E 177-1	4.5						
M/E 177-2	5.4						
INTERNAL STD AREA(BCM)				2490000	3340000	2760000	2650000
INTERNAL STD AREA(CBZ)				8280000	9780000	9180000	8860000
INTERNAL STD AREA(DFB)				1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR					1	1	1
ACTUAL(ALLOWED) HOLD TIME						5(14 D)	8(14 D)

AREA						
LOCATION	NPDES10WTP	B163 TAP W	B264 TAP W	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	DISCHARGES	WELLS	WELLS	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR311014A	AR402014A	AR403015A	AR500104A	AR500115A	AR500228A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	6	7	7	10	10	10
ACETONE	17 B	4 JB	180 B	570 BE	820 BE	490 BE
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
BROMOFORM	5 U	5 U	5 U	5 U	5 U	5 U

TABLE D.8.8 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN15 DRAFT DO NOT CITE

AREA

LOCATION	NPDES10WTP	B163 TAP W	B264 TAP W	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	DISCHARGES	WELLS	WELLS	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR311014A	AR402014A	AR403015A	AR500104A	AR500115A	AR500228A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	6	7	7	10	10	10
BROMOMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	5 U	5 U	5 U	3 J	3 J	2 J
CARBON TETRACHLORIDE	5 U	5 U	5 U	3 J	5 J	2 J
CHLOROBENZENE	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
CHLOROFORM	4 J	5 U	5 U	140	140	110
CHLOROMETHANE	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
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	100 B	3 JB	3 JB	90 B	96 B	69 B
STYRENE	5 U	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	310 E	170	400 E
TOLUENE	4 JB	5 U	10 B	14 B	14 B	9 B
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	17 U	12 U	16 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)	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 (TOTAL)	5 U	5 U	5 U	5 J	5 J	5 J
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE						
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	23	24	22
SURR 1(TOL) %RECOVERY	101	98	100	92	99	87 *
SURR 2(BFB) %RECOVERY	193 *	90	97	94	99	99
SURR 3(DCE) %RECOVERY	103	95	100	94	106	99

M/E 50

TABLE D.8.8 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN15

DRAFT DO NOT CITE

AREA

LOCATION	NPDES10WTP DISCHARGES	B163 TAP W WELLS	B264 TAP W WELLS	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER	RET. TANKS WASTEWATER
TYPE OF LOCATION						
SAMPLE NUMBER	AR311014A	AR402014A	AR403015A	AR500104A	AR500115A	AR500228A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	6	7	7	10	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						
INTERNAL STD AREA(BCM)	2440000	2550000	2520000	2380000	2320000	2480000
INTERNAL STD AREA(CBZ)	3720000	8790000	8620000	8310000	8640000	8590000
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	1E+07
DILUTION FACTOR	1	1	1	1	1	1
ACTUAL(ALLOWED) HOLD TIME	8(14 D)	5(14 D)	5(14 D)	5(14 D)	6(14 D)	6(14 D)

TABLE D.8.9 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN16 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	317 AREA	317 AREA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	BURN PILE	BURN PILE
SAMPLE NUMBER	AR1116875	AR1116877	AR1116877	AR1116878	VBKGN16	AR505018A	AR505029A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						14	14
ACETONE		0.88	102.5		13	12 B	13 B
BENZENE		0.814	11		5 U	6 U	5 U
BROMODICHLOROMETHANE		0.81	18.1		5 U	6 U	5 U
BROMOFORM		0.466	13.9		5 U	6 U	5 U
BROMOMETHANE		1.85	41.9		10 U	11 U	11 U
CARBON DISULFIDE		3.782	25.8		5 U	6 U	5 U
CARBON TETRACHLORIDE		0.852	18.1		5 U	6 U	5 U
CHLOROBENZENE		1.066	12.9		5 U	6 U	5 U
CHLOROETHANE		1.12	0.3		10 U	11 U	11 U
CHLOROFORM		3.75	6.5		5 U	6 U	5 U
CHLOROMETHANE		1.258	10.6		10 U	11 U	11 U
CIS-1,3-DICHLOROPROPENE		0.451	25.4		5 U	6 U	5 U
DIBROMOCHLOROMETHANE		0.607	11.7		5 U	6 U	5 U
ETHYLBENZENE		0.55	13.5		5 U	6 U	5 U
METHYLENE CHLORIDE		1.842	11.7		2 J	260 BE	400 BE
STYRENE		1.153	13.3		5 U	6 U	5 U
TETRACHLOROETHENE		0.54	17.2		5 U	6 U	5 U
TOLUENE		0.801	11.3		5 U	6 U	5 U
TOLUENE-D8		1.063	4.2				
TRANS-1,3-DICHLOROPROPENE		0.727	16.9		5 U	6 U	5 U
TRICHLOROETHENE		0.434	15.5		5 U	6 U	5 U
VINYL ACETATE		0.44	81		10 U	11 U	11 U
VINYL CHLORIDE		1.646	6.9		10 U	11 U	11 U
XYLENE (TOTAL)		0.682	14.9		5 U	6 U	5 U
1,1-DICHLOROETHANE		2.209	10.3		5 U	6 U	5 U
1,1-DICHLOROETHENE		1.241	10.9		5 U	6 U	5 U
1,1,1-TRICHLOROETHANE		0.917	14.6		5 U	6 U	5 U
1,1,2-TRICHLOROETHANE		0.345	23.2		5 U	6 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.557	19.2		5 U	6 U	5 U
1,2-DICHLOROETHANE		3.649	19		5 U	6 U	5 U
1,2-DICHLOROETHANE-D4		2.523	4.4				
1,2-DICHLOROETHENE (TOTAL)		1.308	7.1		5 U	6 U	5 U
1,2-DICHLOROPROPANE		0.227	12.7		5 U	6 U	5 U
1,4-BROMOFLUOROBENZENE		0.75	1.6				
2-BUTANONE		0.032	69.1		10 U	11 U	11 U
2-HEXANONE		0.27	60.8		10 U	11 U	11 U
4-METHYL-2-PENTANONE		0.294	30.1		10 U	11 U	11 U
SURR 1(TOL) %RECOVERY					105	114	104

TABLE D.8.9 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN16 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	317 AREA	317 AREA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	BURN PILE	BURN PILE
SAMPLE NUMBER	AR1116875	AR1116877	AR1116877	AR1116878	VBKGN16	AR505018A	AR505029A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						14	14
SURR 2(BFB) %RECOVERY					101	87	89
SURR 3(DCE) %RECOVERY					107	83	97
M/E 50	20						
M/E 75	53						
M/E 95	100						
M/E 96	6.8						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	72						
M/E 175-1	6.1						
M/E 175-2	8.5						
M/E 176-1	71						
M/E 176-2	99						
M/E 177-1	5.9						
M/E 177-2	8.4						
INTERNAL STD AREA(BCM)				2420000	2270000	2710000	2000000
INTERNAL STD AREA(CBZ)				8220000	7760000	5370000	4480000
INTERNAL STD AREA(DFB)				9980000	9610000	8290000	7450000
DILUTION FACTOR					1	1.13	1.09
PERCENT MOISTURE						11.8	8.1
ACTUAL(ALLOWED) HOLD TIME						11(14 D)	11(14 D)

AREA							
LOCATION	SE 317 ARE	SE 317 ARE	SE 317 ARE	319 LANDFI	319 LANDFI	319 LANDFI	
TYPE OF LOCATION	DRAINAGE	DRAINAGE	DRAINAGE	LANDFILL	LANDFILL	LANDFILL	
SAMPLE NUMBER	AR804010A	AR804021A	AR804032A	AR805011A	AR805022A	AR805033A	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ENV PROBLEM NO	18	18	18	19	19	19	
ACETONE	4 JB	4 JB	5 JB	14 U	15 U	5 JB	
BENZENE	8 U	7 U	7 U	7 U	7 U	7 U	
BROMODICHLOROMETHANE	8 U	7 U	7 U	7 U	7 U	7 U	

TABLE D.8.9 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN16 DRAFT DO NOT CITE

AREA

LOCATION	SE 317 ARE	SE 317 ARE	SE 317 ARE	319 LANDFI	319 LANDFI	319 LANDFI
TYPE OF LOCATION	DRAINAGE	DRAINAGE	DRAINAGE	LANDFILL	LANDFILL	LANDFILL
SAMPLE NUMBER	AR804010A	AR804021A	AR804032A	AR805011A	AR805022A	AR805033A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	18	18	18	19	19	19
BROMOFORM	8 U	7 U	7 U	7 U	7 U	7 U
BROMOMETHANE	15 U	13 U	13 U	14 U	15 U	13 U
CARBON DISULFIDE	8 U	7 U	7 U	7 U	7 U	7 U
CARBON TETRACHLORIDE	8 U	7 U	7 U	7 U	7 U	7 U
CHLOROBENZENE	8 U	7 U	7 U	7 U	7 U	7 U
CHLOROETHANE	15 U	13 U	13 U	14 U	15 U	13 U
CHLOROFORM	8 U	7 U	7 U	7 U	7 U	7 U
CHLOROMETHANE	15 U	13 U	13 U	14 U	15 U	13 U
CIS-1,3-DICHLOROPROPENE	8 U	7 U	7 U	7 U	7 U	7 U
DIBROMOCHLOROMETHANE	8 U	7 U	7 U	7 U	7 U	7 U
ETHYLBENZENE	8 U	7 U	7 U	7 U	7 U	7 U
METHYLENE CHLORIDE	360 BE	720 BE	210 BE	750 BE	2000 BE	770 BE
STYRENE	8 U	7 U	7 U	7 U	7 U	7 U
TETRACHLOROETHENE	8 U	7 U	7 U	7 U	7 U	7 U
TOLUENE	8 U	7 U	7 U	7 U	7 U	7 U
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	8 U	7 U	7 U	7 U	7 U	7 U
TRICHLOROETHENE	8 U	7 U	7 U	7 U	7 U	7 U
VINYL ACETATE	15 U	13 U	13 U	14 U	15 U	13 U
VINYL CHLORIDE	15 U	13 U	13 U	14 U	15 U	13 U
XYLENE (TOTAL)	8 U	7 U	7 U	7 U	7 U	7 U
1,1-DICHLOROETHANE	8 U	3 J	9	7 U	7 U	7 U
1,1-DICHLOROETHENE	8 U	7 U	7 U	7 U	7 U	7 U
1,1,1-TRICHLOROETHANE	8 U	7 U	3 J	7 U	7 U	7 U
1,1,2-TRICHLOROETHANE	8 U	7 U	7 U	7 U	7 U	7 U
1,1,2,2-TETRACHLOROETHANE	8 U	7 U	7 U	7 U	7 U	7 U
1,2-DICHLOROETHANE	8 U	7 U	7 U	7 U	7 U	7 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE (TOTAL)	8 U	7 U	7 U	7 U	7 U	7 U
1,2-DICHLOROPROPANE	8 U	7 U	7 U	7 U	7 U	7 U
1,4-BROMOFLUOROBENZENE						
2-BUTANONE	15 U	13 U	13 U	14 U	15 U	13 U
2-HEXANONE	15 U	13 U	13 U	14 U	15 U	13 U
4-METHYL-2-PENTANONE	15 U	13 U	13 U	14 U	15 U	13 U
SURR 1(TOL) %RECOVERY	72 *	92	64 *	71 *	48 *	85
SURR 2(BFB) %RECOVERY	113	104	152 *	196 *	186 *	102
SURR 3(DCE) %RECOVERY	104	97	100	104	102	101

M/E 50

TABLE D.8.9 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN16

DRAFT DO NOT CITE

AREA

LOCATION	SE 317 ARE	SE 317 ARE	SE 317 ARE	319 LANDFI	319 LANDFI	319 LANDFI
TYPE OF LOCATION	DRAINAGE	DRAINAGE	DRAINAGE	LANDFILL	LANDFILL	LANDFILL
SAMPLE NUMBER	AR804010A	AR804021A	AR804032A	AR805011A	AR805022A	AR805033A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	18	18	18	19	19	19
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)	1660000	1760000	1790000	1730000	1500000	1530000
INTERNAL STD AREA(CBZ)	3460000	3820000	2380000	1710000	1210000	2800000
INTERNAL STD AREA(DFB)	7250000	6580000	6970000	6330000	5390000	5660000
DILUTION FACTOR	1.53	1.32	1.3	1.38	1.47	1.35
PERCENT MOISTURE	34.6	24.1	23.1	27.6	32.1	25.7
ACTUAL(ALLOWED) HOLD TIME	12(14 D)	12(14 D)	12(14 D)	12(14 D)	12(14 D)	12(14 D)

TABLE D.8.10 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN17

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	RET. TANKS	319 LDF-NW
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WASTEWATER	BACKGROUND
SAMPLE NUMBER	AR1117875	AR1117877	AR1117877	AR1117878	VBKGN17	AR500239A	AR802109A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	17
ACETONE		0.571	31.4		16	420 BE	22 B
BENZENE		0.732	0.2		5 U	5 U	5 U
BROMODICHLOROMETHANE		0.75	9.4		5 U	5 U	5 U
BROMOFORM		0.413	0.9		5 U	5 U	5 U
BROMOMETHANE		1.512	15.9		10 U	10 U	10 U
CARBON DISULFIDE		2.846	5.3		5 U	3 J	5 U
CARBON TETRACHLORIDE		0.763	5.8		5 U	5 U	5 U
CHLOROBENZENE		1.009	6.9		5 U	5 U	5 U
CHLOROETHANE		0.788	29.5		10 U	10 U	10 U
CHLOROFORM		3.342	5.1		5 U	130	5 U
CHLOROMETHANE		0.639	54.6		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.395	10		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.57	4.8		5 U	5 U	5 U
ETHYLBENZENE		0.552	14		5 U	5 U	5 U
METHYLENE CHLORIDE		1.618	1.9		3 J	83 B	3 JB
STYRENE		1.063	4.5		5 U	5 U	5 U
TETRACHLOROETHENE		0.493	6.8		5 U	360 E	5 U
TOLUENE		0.735	2.1		5 U	17	5 U
TOLUENE-D8		1.082	2.6				
TRANS-1,3-DICHLOROPROPENE		0.643	3.5		5 U	5 U	5 U
TRICHLOROETHENE		0.405	8		5 U	18	5 U
VINYL ACETATE		0.288	18.7		10 U	10 U	10 U
VINYL CHLORIDE		1.157	34.6		10 U	10 U	10 U
XYLENE (TOTAL)		0.663	11.8		5 U	5 U	5 U
1,1-DICHLOROETHANE		1.858	7.3		5 U	5 U	5 U
1,1-DICHLOROETHENE		1.272	13.6		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.836	4.5		5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		0.308	10.2		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.51	9		5 U	5 U	5 U
1,2-DICHLOROETHANE		3.204	4.5		5 U	5 U	5 U
1,2-DICHLOROETHANE-D4		2.497	5.4				
1,2-DICHLOROETHENE (TOTAL)		1.129	7.6		5 U	6	5 U
1,2-DICHLOROPROPANE		0.208	3.3		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.771	4.4				
2-BUTANONE		0.025	32.3		10 U	10 U	10 U
2-HEXANONE		0.188	12		10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.257	13.5		10 U	22	10 U
SURR 1(TOL) %RECOVERY					101	101	97

TABLE D.8.10 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN17 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	RET. TANKS	319 LDF-NW
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WASTEWATER	BACKGROUND
SAMPLE NUMBER	AR1117875	AR1117877	AR1117877	AR1117878	VBKGN17	AR500239A	AR802109A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	17
SURR 2(BFB) %RECOVERY					97	95	97
SURR 3(DCE) %RECOVERY					92	92	92
M/E 50	22						
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	82						
M/E 175-1	7.4						
M/E 175-2	9						
M/E 176-1	83						
M/E 176-2	101						
M/E 177-1	6.7						
M/E 177-2	8.3						
INTERNAL STD AREA(BCM)				2240000	2500000	2270000	2500000
INTERNAL STD AREA(CBZ)				7150000	7450000	6970000	7860000
INTERNAL STD AREA(DFB)				8810000	9170000	8780000	9460000
DILUTION FACTOR					1	1	1
PERCENT MOISTURE							
ACTUAL(ALLOWED) HOLD TIME						7(14 D)	8(14 D)

AREA					QA	QA	QA
LOCATION			319 LDF-NW	319 LDF-NW	MATRIX	MS %	RPD
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	BACKGROUND	BACKGROUND	SPIKE	RECOVERY	
SAMPLE NUMBER	ARN16010A	ARN19013A	AR802018A	AR802029A	AR802029A	AR802029A	AR802029A
MATRIX	WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	UG/L	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	99	99	17	17	17	17	17
ACETONE	4 JB	4 JB	16 B	20 B	23 B		
BENZENE	5 U	5 U	7 U	7 U	86 U	100	0
BROMODICHLOROMETHANE	5 U	5 U	7 U	7 U	7 U		

TABLE D.8.10 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN17

DRAFT DO NOT CITE

AREA

LOCATION	TRIP BLANK	TRIP BLANK	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	QA MATRIX SPIKE	QA MS % RECOVERY	QA RPD
TYPE OF LOCATION							
SAMPLE NUMBER	ARN16010A	ARN19013A	AR802018A	AR802029A	AR802029A	AR802029A	AR802029A
MATRIX	WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	UG/L	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	99	99	17	17	17	17	17
BROMOFORM	5 U	5 U	7 U	7 U	7 U		
BROMOMETHANE	10 U	10 U	15 U	14 U	14 U		
CARBON DISULFIDE	5 U	5 U	7 U	7 U	7 U		
CARBON TETRACHLORIDE	5 U	5 U	7 U	7 U	7 U		
CHLOROBENZENE	5 U	5 U	7 U	7 U	7 U		
CHLOROETHANE	10 U	10 U	15 U	14 U	95 MS	104	2
CHLOROFORM	2 J	2 J	7 U	7 U	14 U		
CHLOROMETHANE	10 U	10 U	15 U	14 U	7 U		
CIS-1,3-DICHLOROPROPENE	5 U	5 U	7 U	7 U	14 U		
DIBROMOCHLOROMETHANE	5 U	5 U	7 U	7 U	7 U		
ETHYLBENZENE	4 J	5 U	7 U	7 U	7 U		
METHYLENE CHLORIDE	4 JB	4 JB	1100 BE	710 BE	510 BE		
STYRENE	5 U	5 U	7 U	7 U	7 U		
TETRACHLOROETHENE	5 U	5 U	7 U	7 U	7 U		
TOLUENE	5 U	5 U	7 U	7 U	110 U	114	3
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	7 U	7 U	7 U		
TRICHLOROETHENE	5 U	5 U	7 U	7 U	110 U	105	0
VINYL ACETATE	10 U	10 U	15 U	14 U	14 U		
VINYL CHLORIDE	10 U	10 U	15 U	14 U	14 U		
XYLENE (TOTAL)	5 U	5 U	7 U	7 U	24		
1,1-DICHLOROETHANE	5 U	5 U	7 U	7 U	7 U		
1,1-DICHLOROETHENE	5 U	5 U	7 U	7 U	100 U	117	8
1,1,1-TRICHLOROETHANE	5 U	5 U	7 U	7 U	7 U		
1,1,2-TRICHLOROETHANE	5 U	5 U	7 U	7 U	7 U		
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	7 U	7 U	7 U		
1,2-DICHLOROETHANE	5 U	5 U	7 U	7 U	7 U		
1,2-DICHLOROETHANE-D4							
1,2-DICHLOROETHENE (TOTAL)	5 U	5 U	7 U	7 U	7 U		
1,2-DICHLOROPROPANE	5 U	5 U	7 U	7 U	7 U		
1,4-BROMOFLUOROBENZENE							
2-BUTANONE	10 U	10 U	15 U	14 U	14 U		
2-HEXANONE	10 U	10 U	15 U	14 U	14 U		
4-METHYL-2-PENTANONE	10 U	10 U	15 U	14 U	14 U		
SURR 1(TOL) %RECOVERY	102	100	100	87	99		
SURR 2(BFB) %RECOVERY	102	97	79	74	73 *		
SURR 3(DCE) %RECOVERY	94	102	102	108	100		
M/E 50							

TABLE D.8.10 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN17

DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	TRIP BLANK	TRIP BLANK	319 LDF-NW BACKGROUND	319 LDF-NW BACKGROUND	MATRIX SPIKE	MS % RECOVERY	RPD
TYPE OF LOCATION							
SAMPLE NUMBER	ARN16010A	ARN19013A	AR802018A	AR802029A	AR802029A	AR802029A	AR802029A
MATRIX	WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/L	UG/L	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	99	99	17	17	17	17	17
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	2190000	1570000	1540000	1530000		
INTERNAL STD AREA(CBZ)	7540000	7540000	2980000	3730000	3610000		
INTERNAL STD AREA(DFB)	9360000	9270000	5970000	6190000	6440000		
DILUTION FACTOR	1	1	1.5	1.43	1.43		
PERCENT MOISTURE			33.2	30.3	30.3		
ACTUAL(ALLOWED) HOLD TIME	6(14 D)	7(14 D)	9(14 D)	9(14 D)	9(14 D)		

AREA	QA	QA
LOCATION	MATRIX SPIKE DUPLICATE	MSD % RECOVERY
TYPE OF LOCATION		
SAMPLE NUMBER	AR802029A	AR802029A
MATRIX	SOIL	SOIL
UNITS	UG/KG	%
ENV PROBLEM NO	17	17
ACETONE	26 B	
BENZENE	86 U	100
BROMODICHLOROMETHANE	7 U	
BROMOFORM	7 U	
BROMOMETHANE	14 U	
CARBON DISULFIDE	7 U	
CARBON TETRACHLORIDE	7 U	

TABLE D.8.10 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN17 DRAFT DO NOT CITE

AREA	QA		QA
LOCATION	MATRIX SPIKE		MSD %
TYPE OF LOCATION	DUPLICATE		RECOVERY
SAMPLE NUMBER	AR802029A		AR802029A
MATRIX	SOIL		SOIL
UNITS	UG/KG		%
ENV PROBLEM NO	17		17
CHLOROBENZENE	93	MS	101
CHLOROETHANE	14	U	
CHLOROFORM	7	U	
CHLOROMETHANE	14	U	
CIS-1,3-DICHLOROPROPENE	7	U	
DIBROMOCHLOROMETHANE	7	U	
ETHYLBENZENE	14		
METHYLENE CHLORIDE	440	BE	
STYRENE	7	U	
TETRACHLOROETHENE	7	U	
TOLUENE	100	U	110
TOLUENE-D8			
TRANS-1,3-DICHLOROPROPENE	7	U	
TRICHLOROETHENE	100	U	104
VINYL ACETATE	14	U	
VINYL CHLORIDE	14	U	
XYLENE (TOTAL)	31		
1,1-DICHLOROETHANE	7	U	
1,1-DICHLOROETHENE	96	U	108
1,1,1-TRICHLOROETHANE	7	U	
1,1,2-TRICHLOROETHANE	7	U	
1,1,2,2-TETRACHLOROETHANE	7	U	
1,2-DICHLOROETHANE	7	U	
1,2-DICHLOROETHANE-D4			
1,2-DICHLOROETHENE (TOTAL)	7	U	
1,2-DICHLOROPROPANE	7	U	
1,4-BROMOFLUOROBENZENE			
2-BUTANONE	14	U	
2-HEXANONE	14	U	
4-METHYL-2-PENTANONE	14	U	
SURR 1(TOL) %RECOVERY	113		
SURR 2(BFB) %RECOVERY	72	*	
SURR 3(DCE) %RECOVERY	112		

M/E 50
M/E 75
M/E 95
M/E 96

TABLE D.8.10 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN17 DRAFT DO NOT CITE

AREA	QA	QA					
LOCATION	MATRIX SPIKE	MSD %					
TYPE OF LOCATION	DUPLICATE	RECOVERY					
SAMPLE NUMBER	AR802029A	AR802029A					
MATRIX	SOIL	SOIL					
UNITS	UG/KG	%					
ENV PROBLEM NO	17	17					
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)	1400000						
INTERNAL STD AREA(CBZ)	3110000						
INTERNAL STD AREA(DFB)	5650000						
DILUTION FACTOR	1.43						
PERCENT MOISTURE	30.3						
ACTUAL(ALLOWED) HOLD TIME	9(14 D)						

TABLE D.8.11 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN19 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1119875	AR1119877	AR1119877	AR1119878	VBKGN19	AR500251A	AR500320A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	10
ACETONE		0.8	84.2		18	5600 BE	360 BE
BENZENE		0.796	8.5		5 U	58	5 U
BROMODICHLOROMETHANE		0.764	11.4		5 U	5 U	5 U
BROMOFORM		0.449	9.6		5 U	5 U	5 U
BROMOMETHANE		1.605	23.1		10 U	10 U	10 U
CARBON DISULFIDE		2.986	0.7		5 U	5 U	5 U
CARBON TETRACHLORIDE		0.842	16.7		5 U	5 U	5 U
CHLOROBENZENE		1.107	17.2		5 U	5 U	5 U
CHLOROETHANE		0.893	20.1		10 U	10 U	10 U
CHLOROFORM		3.557	1		5 U	25	7
CHLOROMETHANE		0.905	35.7		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.437	21.6		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.621	14.2		5 U	5 U	5 U
ETHYLBENZENE		0.535	10.5		5 U	5 U	5 U
METHYLENE CHLORIDE		1.688	2.4		2 J	260 BE	19 B
STYRENE		1.115	9.7		5 U	5 U	5 U
TETRACHLOROETHENE		0.551	19.5		5 U	5 U	5 U
TOLUENE		0.786	9.3		5 U	11	5 U
TOLUENE-D8		1.142	2.9				
TRANS-1,3-DICHLOROPROPENE		0.711	14.3		5 U	5 U	5 U
TRICHLOROETHENE		0.44	17.4		5 U	5 U	5 U
VINYL ACETATE		0.38	56.4		10 U	10 U	10 U
VINYL CHLORIDE		1.228	30.6		10 U	10 U	10 U
XYLENE (TOTAL)		0.721	21.6		5 U	7	5 U
1,1-DICHLOROETHANE		2.063	3		5 U	5 U	5 U
1,1-DICHLOROETHENE		1.085	3.1		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.872	9.1		5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		0.333	18.9		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.52	11.3		5 U	5 U	5 U
1,2-DICHLOROETHANE		3.477	13.4		5 U	5 U	5 U
1,2-DICHLOROETHANE-D4		2.581	2.3				
1,2-DICHLOROETHENE (TOTAL)		1.24	1.5		5 U	5 U	5 U
1,2-DICHLOROPROPANE		0.216	7.6		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.738	0.1				
2-BUTANONE		0.03	58.3		10 U	10 U	10 U
2-HEXANONE		0.282	67.8		10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.27	19.7		10 U	15	10 U
SURR 1(TOL) %RECOVERY					95	96	91

TABLE D.8.11 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN19 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1119875	AR1119877	AR1119877	AR1119878	VBKGN19	AR500251A	AR500320A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	10
SURR 2(BFB) %RECOVERY					87	90	94
SURR 3(DCE) %RECOVERY					87	89	85
M/E 50	25						
M/E 75	55						
M/E 95	100						
M/E 96	6.5						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	89						
M/E 175-1	7						
M/E 175-2	7.8						
M/E 176-1	90						
M/E 176-2	100						
M/E 177-1	7.5						
M/E 177-2	8.4						
INTERNAL STD AREA(BCM)				2230000	2520000	2340000	2490000
INTERNAL STD AREA(CBZ)				7560000	7740000	7540000	7560000
INTERNAL STD AREA(DFB)				9160000	9150000	9430000	9280000
DILUTION FACTOR					1	1	1
ACTUAL(ALLOWED) HOLD TIME						8(14 D)	8(14 D)

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	MATRIX	MS %	RPD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	SPIKE	RECOVERY	
SAMPLE NUMBER	AR500353A	AR500364A	AR500375A	AR500444A	AR500444A	AR500444A	AR500444A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	10	10	10	10	10	10	10
ACETONE	8 JB	6000 BE	6000 BE	360 BE	68 B		
BENZENE	5 U	5 U	82	5 U	62 U	103	1
BROMODICHLOROMETHANE	2 J	5 U	5 U	5 U	5 U		
BROMOFORM	5 U	5 U	5 U	5 U	5 U		

TABLE D.8.11 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN19

DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	MATRIX	MS %	RPD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	SPIKE	RECOVERY	
SAMPLE NUMBER	AR500353A	AR500364A	AR500375A	AR500444A	AR500444A	AR500444A	AR500444A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	10	10	10	10	10	10	10
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	63 MS	97	4
CHLOROETHANE	10 U	10 U	10 U	10 U	10 U		
CHLOROFORM	2 J	3 J	25	5 U	5 U		
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		
DIBROMOCHLOROMETHANE	3 J	5 U	5 U	5 U	5 U		
ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U		
METHYLENE CHLORIDE	6 B	150 B	220 BE	450 BE	460 BE		
STYRENE	5 U	5 U	5 U	5 U	5 U		
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U		
TOLUENE	3 J	5 U	15	110 U	180 U	94	11
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U		
TRICHLOROETHENE	5 U	13 U	5 U	5 U	73 U	104	3
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)	6	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	68 U	110	16 *
1,1,1-TRICHLOROETHANE	5	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							
1,2-DICHLOROETHENE (TOTAL)	5 U	13	5 U	5 U	5 U		
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U		
1,4-BROMOFLUOROBENZENE							
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	17	10 U	10 U		
SURR 1(TOL) %RECOVERY	95	107	97	94	94		
SURR 2(BFB) %RECOVERY	94	92	96	93	94		
SURR 3(DCE) %RECOVERY	90	92	98	98	100		
M/E 50							

TABLE D.8.11 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN19 DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	MATRIX	MS %	RPD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	SPIKE	RECOVERY	
SAMPLE NUMBER	AR500353A	AR500364A	AR500375A	AR500444A	AR500444A	AR500444A	AR500444A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	10	10	10	10	10	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							
INTERNAL STD AREA(BCM)	2350000	2740000	2130000	2190000	2190000		
INTERNAL STD AREA(CBZ)	7480000	8670000	7490000	7530000	7640000		
INTERNAL STD AREA(DFB)	9100000	1E+07	9040000	9180000	9390000		
DILUTION FACTOR	1	1	1	1	1		
ACTUAL(ALLOWED) HOLD TIME	8(14 D)	8(14 D)	8(14 D)	8(14 D)	8(14 D)		

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR500444A	AR500444A
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	10	10
ACETONE	61 B	
BENZENE	63 U	105
BROMODICHLOROMETHANE	5 U	
BROMOFORM	5 U	
BROMOMETHANE	10 U	
CARBON DISULFIDE	5 U	
CARBON TETRACHLORIDE	5 U	
CHLOROBENZENE	65 MS	101

TABLE D.8.11 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN19

DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR500444A	AR500444A
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	10	10
CHLOROETHANE	10 U	
CHLOROFORM	5 U	
CHLOROMETHANE	10 U	
CIS-1,3-DICHLOROPROPENE	5 U	
DIBROMOCHLOROMETHANE	5 U	
ETHYLBENZENE	5 U	
METHYLENE CHLORIDE	450 BE	
STYRENE	5 U	
TETRACHLOROETHENE	5 U	
TOLUENE	180 U	105
TOLUENE-D8		
TRANS-1,3-DICHLOROPROPENE	5 U	
TRICHLOROETHENE	76 U	108
VINYL ACETATE	10 U	
VINYL CHLORIDE	10 U	
XYLENE (TOTAL)	5 U	
1,1-DICHLOROETHANE	5 U	
1,1-DICHLOROETHENE	81 U	130
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		
1,2-DICHLOROETHENE (TOTAL)	5 U	
1,2-DICHLOROPROPANE	5 U	
1,4-BROMOFLUOROBENZENE		
2-BUTANONE	10 U	
2-HEXANONE	10 U	
4-METHYL-2-PENTANONE	10 U	
SURR 1(TOL) %RECOVERY	100	
SURR 2(BFB) %RECOVERY	102	
SURR 3(DCE) %RECOVERY	103	
M/E 50		
M/E 75		
M/E 95		
M/E 96		
M/E 173-1		

TABLE D.8.11 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN19 DRAFT DO NOT CITE

AREA	QA	QA					
LOCATION	MATRIX SPIKE	MSD %					
TYPE OF LOCATION	DUPLICATE	RECOVERY					
SAMPLE NUMBER	AR500444A	AR500444A					
MATRIX	WATER	WATER					
UNITS	UG/L	%					
ENV PROBLEM NO	10	10					
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)	2210000						
INTERNAL STD AREA(CBZ)	7520000						
INTERNAL STD AREA(DFB)	9220000						
DILUTION FACTOR	1						
ACTUAL(ALLOWED) HOLD TIME	9(14 D)						

TABLE D.8.12 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN20 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	REANALYSIS	REANALYSIS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		
SAMPLE NUMBER	AR1120875	AR1120877	AR1120877	AR1120878	VBKGN20	AR310035A	AR817015A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						5	27
ACETONE		0.745	71.6		14	2700 BE	78 B
BENZENE		0.694	5.4		5 U	8 U	6 U
BROMODICHLOROMETHANE		0.667	2.8		5 U	8 U	6 U
BROMOFORM		0.416	1.6		5 U	8 U	6 U
BROMOMETHANE		1.283	1.7		10 U	15 U	11 U
CARBON DISULFIDE		2.471	17.8		5 U	8 U	6 U
CARBON TETRACHLORIDE		0.706	2.1		5 U	8 U	6 U
CHLOROBENZENE		0.927	1.8		5 U	8 U	6 U
CHLOROETHANE		0.763	31.7		10 U	15 U	11 U
CHLOROFORM		3.188	9.5		5 U	8 U	6 U
CHLOROMETHANE		0.739	47.5		10 U	15 U	11 U
CIS-1,3-DICHLOROPROPENE		0.391	8.8		5 U	8 U	6 U
DIBROMOCHLOROMETHANE		0.544	0		5 U	8 U	6 U
ETHYLBENZENE		0.485	0.1		5 U	8 U	6 U
METHYLENE CHLORIDE		1.539	6.7		5 J	87 B	4000 BE
STYRENE		0.954	6.2		5 U	8 U	6 U
TETRACHLOROETHENE		0.478	3.6		5 U	8 U	6 U
TOLUENE		0.696	3.3		5 U	8 U	6 U
TOLUENE-D8		1.052	5.3				
TRANS-1,3-DICHLOROPROPENE		0.625	0.5		5 U	8 U	6 U
TRICHLOROETHENE		0.38	1.3		5 U	8 U	6 U
VINYL ACETATE		0.329	35.3		10 U	15 U	11 U
VINYL CHLORIDE		0.973	45		10 U	15 U	11 U
XYLENE (TOTAL)		0.661	11.5		5 U	42	43
1,1-DICHLOROETHANE		1.8	10.1		5 U	8 U	6 U
1,1-DICHLOROETHENE		0.929	17		5 U	8 U	6 U
1,1,1-TRICHLOROETHANE		0.76	5		5 U	8 U	6 U
1,1,2-TRICHLOROETHANE		0.292	4.2		5 U	8 U	6 U
1,1,2,2-TETRACHLOROETHANE		0.457	2.2		5 U	8 U	6 U
1,2-DICHLOROETHANE		3.095	1		5 U	8 U	6 U
1,2-DICHLOROETHANE-D4		2.557	3.2				
1,2-DICHLOROETHENE (TOTAL)		1.073	12.1		5 U	8 U	6 U
1,2-DICHLOROPROPANE		0.196	2.4		5 U	8 U	6 U
1,4-BROMOFLUOROBENZENE		0.692	6.3				
2-BUTANONE		0.024	25.1		10 U	15 U	11 U
2-HEXANONE		0.217	29.3		10 U	15 U	11 U
4-METHYL-2-PENTANONE		0.243	7.6		10 U	15 U	11 U
SURR 1(TOL) %RECOVERY					107	113	137 *

TABLE D.8.12 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN20 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	REANALYSIS	REANALYSIS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		
SAMPLE NUMBER	AR1120875	AR1120877	AR1120877	AR1120878	VBKGN20	AR310035A	AR817015A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						5	27
SURR 2(BFB) %RECOVERY					103	90	90
SURR 3(DCE) %RECOVERY					86	94	93
M/E 50	23						
M/E 75	58						
M/E 95	100						
M/E 96	5.5						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	93						
M/E 175-1	8.3						
M/E 175-2	8.9						
M/E 176-1	90						
M/E 176-2	97						
M/E 177-1	7.9						
M/E 177-2	8.8						
INTERNAL STD AREA(BCM)				2280000	2900000	1410000	1010000
INTERNAL STD AREA(CBZ)				8110000	9320000	3500000	1970000
INTERNAL STD AREA(DFB)				9520000	1E+07	5970000	4420000
DILUTION FACTOR					1	1.55	1.13
PERCENT MOISTURE						35.4	11.4
ACTUAL(ALLOWED) HOLD TIME						16(14 D)	11(14 D)

AREA							
LOCATION	REANALYSIS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	DRYING BED	
TYPE OF LOCATION		WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	SLUDGE	
SAMPLE NUMBER	AR817026A	AR500524A	AR500546A	AR500648A	AR500660A	AR501014A	
MATRIX	SOIL	WATER	WATER	WATER	WATER	SOIL	
UNITS	UG/KG	UG/L	UG/L	UG/L	UG/L	UG/KG	
ENV PROBLEM NO	27	10	10	10	10	11	
ACETONE	14 B	2200 BE	260 BE	1800 BE	41 B	17 B	
BENZENE	5 U	5 U	5 U	5 U	5 U	7 U	
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	7 U	

TABLE D.8.12 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN20 DRAFT DO NOT CITE

AREA

LOCATION	REANALYSIS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	DRYING BED
TYPE OF LOCATION		WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	SLUDGE
SAMPLE NUMBER	AR817026A	AR500524A	AR500546A	AR500648A	AR500660A	AR501014A
MATRIX	SOIL	WATER	WATER	WATER	WATER	SOIL
UNITS	UG/KG	UG/L	UG/L	UG/L	UG/L	UG/KG
ENV PROBLEM NO	27	10	10	10	10	11
BROMOFORM	5 U	5 U	5 U	5 U	5 U	7 U
BROMOMETHANE	11 U	10 U	10 U	10 U	10 U	14 U
CARBON DISULFIDE	5 U	5 U	5 U	5 U	5 U	9
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U	7 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	5 U	7 U
CHLOROETHANE	11 U	10 U	10 U	10 U	10 U	14 U
CHLOROFORM	5 U	640 E	5 U	680 E	5 U	7 U
CHLOROMETHANE	11 U	10 U	10 U	10 U	10 U	14 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	7 U
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	7 U
ETHYLBENZENE	5 U	19	5 U	27	5 U	7 U
METHYLENE CHLORIDE	2000 BE	42 B	10 B	38 B	10 B	4100 BE
STYRENE	5 U	5 U	5 U	5 U	5 U	7 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U	7 U
TOLUENE	6	15	7	19	11	7 U
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U	7 U
TRICHLOROETHENE	5 U	5 U	210 E	5 U	220 E	7 U
VINYL ACETATE	11 U	10 U	10 U	10 U	10 U	14 U
VINYL CHLORIDE	11 U	10 U	10 U	10 U	10 U	14 U
XYLENE (TOTAL)	22	260 E	8	270 E	8	59
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	7 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U	7 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	7 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	7 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	7 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U	7 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE (TOTAL)	5 U	5 U	7	5 U	8	7 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	7 U
1,4-BROMOFLUOROBENZENE						
2-BUTANONE	11 U	10 U	10 U	10 U	10 U	14 U
2-HEXANONE	11 U	10 U	10 U	10 U	10 U	14 U
4-METHYL-2-PENTANONE	11 U	10 U	10 U	10 U	10 U	14 U
SURR 1(TOL) %RECOVERY	128 *	85 *	96	79 *	96	122 *
SURR 2(BFB) %RECOVERY	87	190 *	103	172 *	102	88
SURR 3(DCE) %RECOVERY	92	88	95	92	100	108

M/E 50

TABLE D.8.12 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN20 DRAFT DO NOT CITE

AREA

LOCATION	REANALYSIS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	DRYING BED
TYPE OF LOCATION		WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	SLUDGE
SAMPLE NUMBER	AR817026A	AR500524A	AR500546A	AR500648A	AR500660A	AR501014A
MATRIX	SOIL	WATER	WATER	WATER	WATER	SOIL
UNITS	UG/KG	UG/L	UG/L	UG/L	UG/L	UG/KG
ENV PROBLEM NO	27	10	10	10	10	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)	1760000	2280000	2170000	2150000	2190000	1160000
INTERNAL STD AREA(CBZ)	2950000	3930000	7690000	4160000	8110000	1580000
INTERNAL STD AREA(DFB)	6480000	9120000	9230000	8690000	9260000	4420000
DILUTION FACTOR	1.08	1	1	1	1	1.43
PERCENT MOISTURE	7.1					30.2
ACTUAL(ALLOWED) HOLD TIME	11(14 D)	9(14 D)	9(14 D)	10(14 D)	10(14 D)	10(14 D)

TABLE D.8.13 ARGONNE VOLATILE ORGANICS - *SDG NUMBER: GN22 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	570 WTP	DRYING BED
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LAGOON	SLUDGE
SAMPLE NUMBER	AR1122875	AR1122877	AR1122877	AR1122878	VBKGN22	AR806012A	AR501014A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						20	11
ACETONE		0.648	49.1		21	30 B	95 B
BENZENE		0.748	2		5 U	6 U	9 U
BROMODICHLOROMETHANE		0.717	4.6		5 U	6 U	9 U
BROMOFORM		0.433	5.6		5 U	6 U	9 U
BROMOMETHANE		1.326	1.7		10 U	12 U	19 U
CARBON DISULFIDE		2.681	10.8		5 U	6 U	9 U
CARBON TETRACHLORIDE		0.77	6.8		5 U	6 U	9 U
CHLOROBENZENE		0.967	2.4		5 U	6 U	9 U
CHLOROETHANE		0.799	28.5		10 U	12 U	19 U
CHLOROFORM		3.465	1.6		5 U	6 U	9 U
CHLOROMETHANE		0.678	51.8		10 U	12 U	19 U
CIS-1,3-DICHLOROPROPENE		0.428	19.3		5 U	6 U	9 U
DIBROMOCHLOROMETHANE		0.581	6.9		5 U	6 U	9 U
ETHYLBENZENE		0.503	3.9		5 U	6 U	9 U
METHYLENE CHLORIDE		2.411	46.2		18	560 BE	5300 BE
STYRENE		1.001	1.6		5 U	6 U	9 U
TETRACHLOROETHENE		0.501	8.5		5 U	6 U	9 U
TOLUENE		0.716	0.4		5 U	6 U	9 U
TOLUENE-D8		1.016	8.6				
TRANS-1,3-DICHLOROPROPENE		0.66	6.1		5 U	6 U	9 U
TRICHLOROETHENE		0.415	10.5		5 U	6 U	9 U
VINYL ACETATE		0.329	35.3		10 U	12 U	19 U
VINYL CHLORIDE		0.993	43.9		10 U	12 U	19 U
XYLENE (TOTAL)		0.629	6.1		5 U	18	95
1,1-DICHLOROETHANE		1.982	1.1		5 U	6 U	9 U
1,1-DICHLOROETHENE		1.006	10.2		5 U	6 U	9 U
1,1,1-TRICHLOROETHANE		0.81	1.3		5 U	6 U	9 U
1,1,2-TRICHLOROETHANE		0.307	9.6		5 U	6 U	9 U
1,1,2,2-TETRACHLOROETHANE		0.479	2.5		5 U	6 U	9 U
1,2-DICHLOROETHANE		3.477	13.4		5 U	6 U	9 U
1,2-DICHLOROETHANE-D4		2.557	3.2				
1,2-DICHLOROETHENE (TOTAL)		1.199	1.9		5 U	6 U	9 U
1,2-DICHLOROPROPANE		0.209	4		5 U	6 U	9 U
1,4-BROMOFLUOROBENZENE		0.759	2.8				
2-BUTANONE		0.024	26.1		10 U	12 U	19 U
2-HEXANONE		0.18	6.9		10 U	12 U	19 U
4-METHYL-2-PENTANONE		0.242	7.2		10 U	12 U	19 U
SURR 1(TOL) %RECOVERY					102	121 *	95

TABLE D.8.13 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN22 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	570 WTP	DRYING BED
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LAGOON	SLUDGE
SAMPLE NUMBER	AR1122875	AR1122877	AR1122877	AR1122878	VBKGN22	AR806012A	AR501014A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						20	11
SURR 2(BFB) %RECOVERY					102	88	93
SURR 3(DCE) %RECOVERY					101	99	92
M/E 50	20						
M/E 75	51						
M/E 95	100						
M/E 96	6.8						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	83						
M/E 175-1	6.8						
M/E 175-2	8.2						
M/E 176-1	81						
M/E 176-2	98						
M/E 177-1	6.6						
M/E 177-2	8.2						
INTERNAL STD AREA(BCM)				2060000	2000000	1610000	669000
INTERNAL STD AREA(CBZ)				7880000	7790000	4530000	1430000
INTERNAL STD AREA(DFB)				8920000	8770000	6420000	2330000
DILUTION FACTOR					1	1.21	1.9
PERCENT MOISTURE						17.4	46.4
ACTUAL(ALLOWED) HOLD TIME						9(14 D)	11(14 D)

AREA					QA	QA	QA
LOCATION	DRYING BED	DRYING BED	DRYING BED	DRYING BED	MATRIX	MS %	RPD
TYPE OF LOCATION	SLUDGE	SLUDGE	SLUDGE	SLUDGE	SPIKE	RECOVERY	
SAMPLE NUMBER	AR501025A	AR501036A	AR501047A	AR501069A	AR501069A	AR501069A	AR501069A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	11	11	11	11	11	11	11
ACETONE	62 B	140 B	46 B	52 B	44 B		
BENZENE	11 U	10 U	11 U	12 U	130 U	92	28 *
BROMODICHLOROMETHANE	11 U	10 U	11 U	12 U	12 U		

TABLE D.8.13 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN22

DRAFT DO NOT CITE

AREA

LOCATION	DRYING BED	DRYING BED	DRYING BED	DRYING BED	QA	QA	QA
TYPE OF LOCATION	SLUDGE	SLUDGE	SLUDGE	SLUDGE	MATRIX SPIKE	MS % RECOVERY	RPD
SAMPLE NUMBER	AR501025A	AR501036A	AR501047A	AR501069A	AR501069A	AR501069A	AR501069A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	11	11	11	11	11	11	11
BROMOFORM							
BROMOMETHANE	11 U	10 U	11 U	12 U	12 U		
CARBON DISULFIDE	22 U	20 U	22 U	23 U	23 U		
CARBON TETRACHLORIDE	11 U	10 U	11 U	12 U	12 U		
CHLOROBENZENE	11 U	10 U	11 U	12 U	12 U		
CHLOROETHANE	11 U	10 U	11 U	12 U	12 U		
CHLOROFORM	22 U	20 U	22 U	23 U	160 MS	107	11
CHLOROMETHANE	10 J	10 U	11 U	12 U	12 U		
CIS-1,3-DICHLOROPROPENE	22 U	20 U	22 U	23 U	23 U		
DIBROMOCHLOROMETHANE	11 U	10 U	11 U	12 U	12 U		
ETHYLBENZENE	11 U	10 U	11 U	12 U	12 U		
METHYLENE CHLORIDE	11 U	10 U	11 U	12 U	12 U		
STYRENE	5800 BE	5900 BE	5800 BE	7300 BE	6800 BE		
TETRACHLOROETHENE	11 U	10 U	11 U	12 U	12 U		
TOLUENE	11 U	10 U	11 U	12 U	12 U		
TOLUENE-D8	11 U	10 U	11 U	12 U	95 U	62	84 *
TRANS-1,3-DICHLOROPROPENE							
TRICHLOROETHENE	11 U	10 U	11 U	12 U	12 U		
VINYL ACETATE	11 U	10 U	11 U	12 U	110 U	67	39 *
VINYL CHLORIDE	22 U	20 U	22 U	23 U	23 U		
XYLENE (TOTAL)	22 U	20 U	22 U	23 U	23 U		
1,1-DICHLOROETHANE	11 U	10 U	11 U	12 U	12 U		
1,1-DICHLOROETHENE	11 U	10 U	11 U	12 U	12 U		
1,1,1-TRICHLOROETHANE	11 U	10 U	11 U	12 U	140 U	99	45 *
1,1,2-TRICHLOROETHANE	11 U	10 U	11 U	12 U	12 U		
1,1,2,2-TETRACHLOROETHANE	11 U	10 U	11 U	12 U	12 U		
1,2-DICHLOROETHANE	11 U	10 U	11 U	12 U	12 U		
1,2-DICHLOROETHANE-D4	11 U	10 U	11 U	12 U	12 U		
1,2-DICHLOROETHENE (TOTAL)							
1,2-DICHLOROPROPANE	11 U	10 U	11 U	12 U	12 U		
1,4-BROMOFLUOROBENZENE	11 U	10 U	11 U	12 U	12 U		
2-BUTANONE	22 U	20 U	22 U	23 U	23 U		
2-HEXANONE	22 U	20 U	22 U	23 U	23 U		
4-METHYL-2-PENTANONE	22 U	20 U	22 U	23 U	23 U		
SURR 1(TOL) %RECOVERY	145 *	136 *	112	830 *	165 *		
SURR 2(BFB) %RECOVERY	120	118	86	470 *	83		
SURR 3(DCE) %RECOVERY	103	107	104	310 *	103		
M/E 50							

TABLE D.8.13 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN22 DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	DRYING BED	DRYING BED	DRYING BED	DRYING BED	MATRIX	MS %	RPD
TYPE OF LOCATION	SLUDGE	SLUDGE	SLUDGE	SLUDGE	SPIKE	RECOVERY	
SAMPLE NUMBER	AR501025A	AR501036A	AR501047A	AR501069A	AR501069A	AR501069A	AR501069A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	11	11	11	11	11	11	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)	741000	584000	774000	721000	716000		
INTERNAL STD AREA(CBZ)	850000	941000	1150000	736000	637000		
INTERNAL STD AREA(DFB)	2080000	2020000	2480000	1910000	1860000		
DILUTION FACTOR	2.3	2	2.2	2.3	2.3		
PERCENT MOISTURE	55.5	50	54.2	56.6	56.6		
ACTUAL(ALLOWED) HOLD TIME	11(14 D)	11(14 D)	11(14 D)	11(14 D)	11(14 D)		

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR501069A	AR501069A
MATRIX	SOIL	SOIL
UNITS	UG/KG	%
ENV PROBLEM NO	11	11
ACETONE	43 B	
BENZENE	170 U	122
BROMODICHLOROMETHANE	12 U	
BROMOFORM	12 U	
BROMOMETHANE	23 U	
CARBON DISULFIDE	12 U	
CARBON TETRACHLORIDE	12 U	

TABLE D.8.13 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN22

DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR501069A	AR501069A
MATRIX	SOIL	SOIL
UNITS	UG/KG	%
ENV PROBLEM NO	11	11
CHLOROBENZENE	180 MS	120
CHLOROETHANE	23 U	
CHLOROFORM	12 U	
CHLOROMETHANE	23 U	
CIS-1,3-DICHLOROPROPENE	12 U	
DIBROMOCHLOROMETHANE	12 U	
ETHYLBENZENE	12 U	
METHYLENE CHLORIDE	6000 BE	
STYRENE	12 U	
TETRACHLOROETHENE	12 U	
TOLUENE	230 U	152 *
TOLUENE-D8		
TRANS-1,3-DICHLOROPROPENE	12 U	
TRICHLOROETHENE	160 U	100
VINYL ACETATE	23 U	
VINYL CHLORIDE	23 U	
XYLENE (TOTAL)	12 U	
1,1-DICHLOROETHANE	12 U	
1,1-DICHLOROETHENE	230 U	158
1,1,1-TRICHLOROETHANE	12 U	
1,1,2-TRICHLOROETHANE	12 U	
1,1,2,2-TETRACHLOROETHANE	12 U	
1,2-DICHLOROETHANE	12 U	
1,2-DICHLOROETHANE-D4		
1,2-DICHLOROETHENE (TOTAL)	12 U	
1,2-DICHLOROPROPANE	12 U	
1,4-BROMOFLUOROBENZENE		
2-BUTANONE	23 U	
2-HEXANONE	23 U	
4-METHYL-2-PENTANONE	23 U	
SURR 1(TOL) %RECOVERY	125 *	
SURR 2(BFB) %RECOVERY	89	
SURR 3(DCE) %RECOVERY	96	
M/E 50		
M/E 75		
M/E 95		
M/E 96		

TABLE D.8.13 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN22

DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR501069A	AR501069A
MATRIX	SOIL	SOIL
UNITS	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)	821000	
INTERNAL STD AREA(CBZ)	1370000	
INTERNAL STD AREA(DFB)	2750000	
DILUTION FACTOR	2.3	
PERCENT MOISTURE	56.6	
ACTUAL(ALLOWED) HOLD TIME	11(14 D)	

TABLE D.8.14 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN23 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	570 WTP	570 WTP
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LAGOON	LAGOON
SAMPLE NUMBER	AR1123875	AR1123877	AR1123877	AR1123878	VBKGN23	AR806078A	AR806089A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						20	20
ACETONE		0.521	19.8		21	14 B	19 B
BENZENE		0.729	0.7		5 U	7 U	8 U
BROMODICHLOROMETHANE		0.744	8.6		5 U	7 U	8 U
BROMOFORM		0.438	6.9		5 U	7 U	8 U
BROMOMETHANE		1.063	18.5		10 U	13 U	15 U
CARBON DISULFIDE		2.233	25.7		5 U	7 U	8 U
CARBON TETRACHLORIDE		0.793	9.9		5 U	7 U	8 U
CHLOROBENZENE		0.996	5.4		5 U	7 U	8 U
CHLOROETHANE		0.597	46.6		10 U	13 U	15 U
CHLOROFORM		2.972	15.6		5 U	7 U	8 U
CHLOROMETHANE		0.422	70.1		10 U	13 U	15 U
CIS-1,3-DICHLOROPROPENE		0.425	18.3		5 U	7 U	8 U
DIBROMOCHLOROMETHANE		0.604	11		5 U	7 U	8 U
ETHYLBENZENE		0.499	2.9		5 U	7 U	8 U
METHYLENE CHLORIDE		1.349	18.2		4 J	110 B	120 B
STYRENE		1.032	1.5		5 U	7 U	8 U
TETRACHLOROETHENE		0.515	11.7		5 U	7 U	8 U
TOLUENE		0.723	0.5		5 U	7 U	8 U
TOLUENE-D8		1.071	3.6				
TRANS-1,3-DICHLOROPROPENE		0.696	11.9		5 U	7 U	8 U
TRICHLOROETHENE		0.406	8.2		5 U	7 U	8 U
VINYL ACETATE		0.336	38.2		10 U	13 U	15 U
VINYL CHLORIDE		0.766	56.6		10 U	13 U	15 U
XYLENE (TOTAL)		0.618	4.4		5 U	7 U	8 U
1,1-DICHLOROETHANE		1.692	15.5		5 U	7 U	8 U
1,1-DICHLOROETHENE		1.005	10.2		5 U	7 U	8 U
1,1,1-TRICHLOROETHANE		0.813	1.8		5 U	7 U	8 U
1,1,2-TRICHLOROETHANE		0.312	11.4		5 U	7 U	8 U
1,1,2,2-TETRACHLOROETHANE		0.473	1.1		5 U	7 U	8 U
1,2-DICHLOROETHANE		2.832	7.6		5 U	7 U	8 U
1,2-DICHLOROETHANE-D4		2.292	11.9				
1,2-DICHLOROETHENE (TOTAL)		0.974	20.2		5 U	7 U	8 U
1,2-DICHLOROPROPANE		0.208	3.4		5 U	7 U	8 U
1,4-BROMOFLUOROBENZENE		0.705	2.7				
2-BUTANONE		0.025	34.6		10 U	13 U	15 U
2-HEXANONE		0.249	48.7		10 U	13 U	15 U
4-METHYL-2-PENTANONE		0.245	8.4		10 U	13 U	15 U
SURR 1(TOL) %RECOVERY					101	101	127 *

TABLE D.8.14 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN23 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	570 WTP	570 WTP
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LAGOON	LAGOON
SAMPLE NUMBER	AR1123875	AR1123877	AR1123877	AR1123878	VBKGN23	AR806078A	AR806089A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						20	20
SURR 2(BFB) %RECOVERY					106	81	88
SURR 3(DCE) %RECOVERY					95	105	110
M/E 50	24						
M/E 75	49						
M/E 95	100						
M/E 96	7						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	88						
M/E 175-1	7.7						
M/E 175-2	8.8						
M/E 176-1	86						
M/E 176-2	98						
M/E 177-1	5.9						
M/E 177-2	6.9						
INTERNAL STD AREA(BCM)				2610000	2470000	1730000	1720000
INTERNAL STD AREA(CBZ)				8000000	7420000	4880000	3910000
INTERNAL STD AREA(DFB)				9510000	9040000	7040000	6450000
DILUTION FACTOR					1	1.35	1.5
PERCENT MOISTURE						25.8	34.8
ACTUAL(ALLOWED) HOLD TIME						10(14 D)	10(14 D)

AREA							
LOCATION	BLDG 19/34	BLDG 19/34	BLDG 19/34	BLDG 19/34	BLDG 19/34	BLDG 19/34	
TYPE OF LOCATION	D&D	D&D	D&D	D&D	D&D	D&D	
SAMPLE NUMBER	AR810018A	AR810029A	AR810030A	AR810041A	AR810052A	AR810063A	
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
ENV PROBLEM NO	23	23	23	23	23	23	
ACETONE	30 B	30 B	30 B	27 B	30 B	35 B	
BENZENE	6 U	6 U	6 U	6 U	6 U	6 U	
BROMODICHLOROMETHANE	6 U	6 U	6 U	6 U	6 U	6 U	

TABLE D.8.14 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN23 DRAFT DO NOT CITE

AREA

LOCATION	BLDG 19/34	BLDG 19/34	BLDG 19/34	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	D&D	D&D	D&D	D&D	D&D	D&D
SAMPLE NUMBER	AR810018A	AR810029A	AR810030A	AR810041A	AR810052A	AR810063A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	23	23	23	23	23	23
BROMOFORM	6 U	6 U	6 U	6 U	6 U	6 U
BROMOMETHANE	12 U	12 U	12 U	12 U	12 U	12 U
CARBON DISULFIDE	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
CHLOROBENZENE	6 U	6 U	6 U	6 U	6 U	6 U
CHLOROETHANE	12 U	12 U	12 U	12 U	12 U	12 U
CHLOROFORM	6 U	6 U	6 U	6 U	6 U	6 U
CHLOROMETHANE	12 U	12 U	12 U	12 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	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
ETHYLBENZENE	6 U	6 U	6 U	6 U	6 U	6 U
METHYLENE CHLORIDE	2000 BE	2200 BE	2600 BE	2500 BE	1600 BE	2300 BE
STYRENE	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
TOLUENE	12	7	10	10	6	6 J
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	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
VINYL ACETATE	12 U	12 U	12 U	12 U	12 U	12 U
VINYL CHLORIDE	12 U	12 U	12 U	12 U	12 U	12 U
XYLENE (TOTAL)	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
1,1-DICHLOROETHENE	6 U	6 U	6 U	6 U	6 U	6 U
1,1,1-TRICHLOROETHANE	3 J	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
1,1,2,2-TETRACHLOROETHANE	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
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE (TOTAL)	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
1,4-BROMOFLUOROBENZENE						
2-BUTANONE	12 U	12 U	12 U	12 U	12 U	12 U
2-HEXANONE	12 U	12 U	12 U	12 U	12 U	12 U
4-METHYL-2-PENTANONE	12 U	12 U	12 U	12 U	12 U	12 U
SURR 1(TOL) %RECOVERY	122 *	127 *	122 *	128 *	131 *	131 *
SURR 2(BFB) %RECOVERY	94	90	92	90	91	91
SURR 3(DCE) %RECOVERY	96	99	94	89	88	96

M/E 50

TABLE D.8.14 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN23

DRAFT DO NOT CITE

AREA

LOCATION	BLDG 19/34	BLDG 19/34	BLDG 19/34	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	D&D	D&D	D&D	D&D	D&D	D&D
SAMPLE NUMBER	AR810018A	AR810029A	AR810030A	AR810041A	AR810052A	AR810063A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	23	23	23	23	23	23
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)	1960000	1880000	1800000	1900000	1930000	1820000
INTERNAL STD AREA(CBZ)	3390000	3180000	3240000	3080000	2700000	3110000
INTERNAL STD AREA(DFB)	5620000	5630000	5520000	5520000	5240000	5840000
DILUTION FACTOR	1.2	1.2	1.2	1.2	1.2	1.2
PERCENT MOISTURE	16	17.1	15	16	16	16.4
ACTUAL(ALLOWED) HOLD TIME	9(14 D)	9(14 D)	9(14 D)	9(14 D)	9(14 D)	9(14 D)

TABLE D.8.15 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN24 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA		QA	
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	NIKE SITE	METHOD	NIKE SITE
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DRAINS	BLANK	DRAINS
SAMPLE NUMBER	AR1124875	AR1124877	AR1124877	AR1124878	AR807046A	VBKGN24	AR807024A
MATRIX	WATER	WATER	WATER	WATER	SOIL	WATER	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/L	UG/KG
ENV PROBLEM NO					21		21
ACETONE		0.712	63.9		20 B	13	14 B
BENZENE		0.772	5.3		6 U	5 U	7 U
BROMODICHLOROMETHANE		0.707	3.1		6 U	5 U	7 U
BROMOFORM		0.394	3.8		6 U	5 U	7 U
BROMOMETHANE		1.022	21.6		12 U	10 U	13 U
CARBON DISULFIDE		1.657	44.9		6 U	5 U	7 U
CARBON TETRACHLORIDE		0.725	0.5		6 U	5 U	7 U
CHLOROBENZENE		0.928	1.7		6 U	5 U	7 U
CHLOROETHANE		0.588	47.4		12 U	10 U	13 U
CHLOROFORM		3.073	12.7		6 U	5 U	7 U
CHLOROMETHANE		0.318	77.4		12 U	10 U	13 U
CIS-1,3-DICHLOROPROPENE		0.415	15.6		6 U	5 U	7 U
DIBROMOCHLOROMETHANE		0.56	3		6 U	5 U	7 U
ETHYLBENZENE		0.477	1.5		6 U	5 U	7 U
METHYLENE CHLORIDE		1.418	14		120 B	3 J	1100 BE
STYRENE		0.964	5.2		6 U	5 U	7 U
TETRACHLOROETHENE		0.471	2.1		6 U	5 U	7 U
TOLUENE		0.67	6.8		9	5 U	7 U
TOLUENE-D8		1.079	2.9				
TRANS-1,3-DICHLOROPROPENE		0.625	0.6		6 U	5 U	7 U
TRICHLOROETHENE		0.381	1.6		6 U	5 U	7 U
VINYL ACETATE		0.278	14.5		12 U	10 U	13 U
VINYL CHLORIDE		0.712	59.8		12 U	10 U	13 U
XYLENE (TOTAL)		0.597	0.6		6 U	5 U	7 U
1,1-DICHLOROETHANE		1.719	14.2		6 U	5 U	7 U
1,1-DICHLOROETHENE		0.81	27.6		6 U	5 U	7 U
1,1,1-TRICHLOROETHANE		0.767	4.1		6 U	5 U	7 U
1,1,2-TRICHLOROETHANE		0.301	7.6		6 U	5 U	7 U
1,1,2,2-TETRACHLOROETHANE		0.454	2.9		6 U	5 U	7 U
1,2-DICHLOROETHANE		2.976	2.9		6 U	5 U	7 U
1,2-DICHLOROETHANE-D4		2.548	3.5				
1,2-DICHLOROETHENE (TOTAL)		0.985	19.3		6 U	5 U	7 U
1,2-DICHLOROPROPANE		0.201	0.1		6 U	5 U	7 U
1,4-BROMOFLUOROBENZENE		0.719	2.7				
2-BUTANONE		0.026	37.6		12 U	10 U	13 U
2-HEXANONE		0.247	47.2		12 U	10 U	13 U
4-METHYL-2-PENTANONE		0.232	2.6		12 U	10 U	13 U
SURR 1(TOL) %RECOVERY					117	98	110

TABLE D.8.15 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN24

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA		QA	
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	NIKE SITE	METHOD	NIKE SITE
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DRAINS	BLANK	DRAINS
SAMPLE NUMBER	AR1124875	AR1124877	AR1124877	AR1124878	AR807046A	VBKGN24	AR807024A
MATRIX	WATER	WATER	WATER	WATER	SOIL	WATER	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/L	UG/KG
ENV PROBLEM NO					21		21
SURR 2(BFB) %RECOVERY					90	104	94
SURR 3(DCE) %RECOVERY					88	94	86
M/E 50	22						
M/E 75	60						
M/E 95	100						
M/E 96	6.5						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	83						
M/E 175-1	7.5						
M/E 175-2	9						
M/E 176-1	82						
M/E 176-2	100						
M/E 177-1	5.8						
M/E 177-2	7						
INTERNAL STD AREA(BCM)				2150000	2120000	2160000	1620000
INTERNAL STD AREA(CBZ)				7250000	4500000	7400000	3090000
INTERNAL STD AREA(DFB)				8480000	7420000	9020000	5220000
DILUTION FACTOR					1.22	1	1.35
PERCENT MOISTURE					18.2		25.8
ACTUAL(ALLOWED) HOLD TIME					8(14 D)		8(14 D)

AREA				QA	QA	QA	QA
LOCATION	NIKE SITE	NIKE SITE	NIKE SITE	MATRIX	MS %	RPD	MATRIX SPIKE
TYPE OF LOCATION	DRAINS	DRAINS	DRAINS	SPIKE	RECOVERY		DUPLICATE
SAMPLE NUMBER	AR807035A	AR807057A	AR807068A	AR807068A	AR807068A	AR807068A	AR807068A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	%	%	UG/KG
ENV PROBLEM NO	21	21	21	21	21	21	21
ACETONE	10 JB	19 B	14 B	5 JB			5 JB
BENZENE	6 U	6 U	6 U	70 U	91	12	79 U
BROMODICHLOROMETHANE	6 U	6 U	6 U	6 U			6 U

TABLE D.8.15 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN24 DRAFT DO NOT CITE

AREA				QA	QA	QA	QA
LOCATION	NIKE SITE	NIKE SITE	NIKE SITE	MATRIX	MS %	RPD	MATRIX SPIKE
TYPE OF LOCATION	DRAINS	DRAINS	DRAINS	SPIKE	RECOVERY		DUPLICATE
SAMPLE NUMBER	AR807035A	AR807057A	AR807068A	AR807068A	AR807068A	AR807068A	AR807068A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	%	%	UG/KG
ENV PROBLEM NO	21	21	21	21	21	21	21
BROMOFORM	6 U	6 U	6 U	6 U			6 U
BROMOMETHANE	13 U	12 U	13 U	13 U			13 U
CARBON DISULFIDE	6 U	6 U	6 U	6 U			6 U
CARBON TETRACHLORIDE	6 U	6 U	6 U	6 U			6 U
CHLOROBENZENE	6 U	6 U	6 U	74 MS	91	17	88 MS
CHLOROETHANE	13 U	12 U	13 U	13 U			13 U
CHLOROFORM	6 U	6 U	6 U	6 U			6 U
CHLOROMETHANE	13 U	12 U	13 U	13 U			13 U
CIS-1,3-DICHLOROPROPENE	6 U	6 U	6 U	6 U			6 U
DIBROMOCHLOROMETHANE	6 U	6 U	6 U	6 U			6 U
ETHYLBENZENE	6 U	6 U	6 U	6 U			6 U
METHYLENE CHLORIDE	230 B	200 B	140 B	160 B			160 B
STYRENE	6 U	6 U	6 U	6 U			6 U
TETRACHLOROETHENE	6 U	6 U	6 U	6 U			6 U
TOLUENE	6 U	6 U	4 J	110 U	121	15	120 U
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	6 U	6 U	6 U	6 U			6 U
TRICHLOROETHENE	6 U	6 U	6 U	87 U	98	10	97 U
VINYL ACETATE	13 U	12 U	13 U	13 U			13 U
VINYL CHLORIDE	13 U	12 U	13 U	13 U			13 U
XYLENE (TOTAL)	6 U	6 U	6 U	6 U			6 U
1,1-DICHLOROETHANE	6 U	6 U	6 U	6 U			6 U
1,1-DICHLOROETHENE	6 U	6 U	6 U	130 U	161	11	140 U
1,1,1-TRICHLOROETHANE	6 U	6 U	6 U	6 U			6 U
1,1,2-TRICHLOROETHANE	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
1,2-DICHLOROETHANE	6 U	6 U	6 U	6 U			6 U
1,2-DICHLOROETHANE-D4							
1,2-DICHLOROETHENE (TOTAL)	6 U	6 U	6 U	6 U			6 U
1,2-DICHLOROPROPANE	6 U	6 U	6 U	6 U			6 U
1,4-BROMOFLUOROBENZENE							
2-BUTANONE	13 U	12 U	13 U	13 U			13 U
2-HEXANONE	13 U	12 U	13 U	13 U			13 U
4-METHYL-2-PENTANONE	13 U	12 U	13 U	13 U			13 U
SURR 1(TOL) %RECOVERY	108	123 *	128 *	130 *			126 *
SURR 2(BFB) %RECOVERY	92	85	85	78			77
SURR 3(DCE) %RECOVERY	83	89	85	94			97

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TABLE D.8.15 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN24

DRAFT DO NOT CITE

AREA				QA	QA	QA	QA
LOCATION	NIKE SITE	NIKE SITE	NIKE SITE	MATRIX	MS %	RPD	MATRIX SPIKE
TYPE OF LOCATION	DRAINS	DRAINS	DRAINS	SPIKE	RECOVERY		DUPLICATE
SAMPLE NUMBER	AR807035A	AR807057A	AR807068A	AR807068A	AR807068A	AR807068A	AR807068A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	%	%	UG/KG
ENV PROBLEM NO	21	21	21	21	21	21	21
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)	1990000	2150000	2520000	2130000			2010000
INTERNAL STD AREA(CBZ)	3920000	4500000	5100000	4940000			4750000
INTERNAL STD AREA(DFB)	6300000	7500000	8790000	8400000			8000000
DILUTION FACTOR	1.3	1.24	1.27	1.27			1.27
PERCENT MOISTURE	22.9	19.5	21.3	21.3			21.3
ACTUAL(ALLOWED) HOLD TIME	8(14 D)	7(14 D)	8(14 D)	8(14 D)			9(14 D)

AREA	QA
LOCATION	MSD %
TYPE OF LOCATION	RECOVERY
SAMPLE NUMBER	AR807068A
MATRIX	SOIL
UNITS	%
ENV PROBLEM NO	21
ACETONE	
BENZENE	
BROMODICHLOROMETHANE	103
BROMOFORM	
BROMOMETHANE	
CARBON DISULFIDE	
CARBON TETRACHLORIDE	

TABLE D.8.15 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN24 DRAFT DO NOT CITE

AREA	QA
LOCATION	MSD %
TYPE OF LOCATION	RECOVERY
SAMPLE NUMBER	AR807068A
MATRIX	SOIL
UNITS	%
ENV PROBLEM NO	21
CHLOROBENZENE	108
CHLOROETHANE	
CHLOROFORM	
CHLOROMETHANE	
CIS-1,3-DICHLOROPROPENE	
DIBROMOCHLOROMETHANE	
ETHYLBENZENE	
METHYLENE CHLORIDE	
STYRENE	
TETRACHLOROETHENE	
TOLUENE	141 *
TOLUENE-D8	
TRANS-1,3-DICHLOROPROPENE	
TRICHLOROETHENE	109
VINYL ACETATE	
VINYL CHLORIDE	
XYLENE (TOTAL)	
1,1-DICHLOROETHANE	
1,1-DICHLOROETHENE	180 *
1,1,1-TRICHLOROETHANE	
1,1,2-TRICHLOROETHANE	
1,1,2,2-TETRACHLOROETHANE	
1,2-DICHLOROETHANE	
1,2-DICHLOROETHANE-D4	
1,2-DICHLOROETHENE (TOTAL)	
1,2-DICHLOROPROPANE	
1,4-BROMOFLUOROBENZENE	
2-BUTANONE	
2-HEXANONE	
4-METHYL-2-PENTANONE	
SURR 1(TOL) %RECOVERY	
SURR 2(BFB) %RECOVERY	
SURR 3(DCE) %RECOVERY	
M/E 50	
M/E 75	
M/E 95	
M/E 96	

TABLE D.8.15 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN24

DRAFT DO NOT CITE

AREA	QA
LOCATION	MSD %
TYPE OF LOCATION	RECOVERY
SAMPLE NUMBER	AR807068A
MATRIX	SOIL
UNITS	%
ENV PROBLEM NO	21
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)	
INTERNAL STD AREA(CBZ)	
INTERNAL STD AREA(DFB)	
DILUTION FACTOR	
PERCENT MOISTURE	
ACTUAL(ALLOWED) HOLD TIME	

TABLE D.8.16 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN25 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	319 LNDF-S	319 LNDF-S
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LANDFILL	LANDFILL
SAMPLE NUMBER	AR1125875	AR1125877	AR1125877	AR1125878	VBKGN25	AR801028A	AR801039A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						17	17
ACETONE		0.701	61.3		15	30 B	38 B
BENZENE		0.775	5.7		5 U	6 U	6 U
BROMODICHLOROMETHANE		0.802	17		5 U	6 U	6 U
BROMOFORM		0.456	11.3		5 U	6 U	6 U
BROMOMETHANE		1.035	20.6		10 U	12 U	12 U
CARBON DISULFIDE		2.021	32.8		5 U	6 U	6 U
CARBON TETRACHLORIDE		0.819	13.5		5 U	6 U	6 U
CHLOROBENZENE		1.11	17.6		5 U	6 U	6 U
CHLOROETHANE		0.592	47		10 U	12 U	12 U
CHLOROFORM		3.323	5.6		5 U	6 U	6 U
CHLOROMETHANE		0.433	69.3		10 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE		0.459	27.7		5 U	6 U	6 U
DIBROMOCHLOROMETHANE		0.618	13.8		5 U	6 U	6 U
ETHYLBENZENE		0.56	15.5		5 U	6 U	6 U
METHYLENE CHLORIDE		1.382	16.2		2 J	1800 BE	1200 BE
STYRENE		1.133	11.4		5 U	6 U	6 U
TETRACHLOROETHENE		0.558	21		5 U	6 U	6 U
TOLUENE		0.794	10.4		5 U	6 U	6 U
TOLUENE-D8		1.112	0.2				
TRANS-1,3-DICHLOROPROPENE		0.722	16		5 U	6 U	6 U
TRICHLOROETHENE		0.436	16.2		5 U	6 U	6 U
VINYL ACETATE		0.303	24.5		10 U	12 U	12 U
VINYL CHLORIDE		0.642	63.7		10 U	12 U	12 U
XYLENE (TOTAL)		0.701	18.2		5 U	6 U	6 U
1,1-DICHLOROETHANE		1.864	6.9		5 U	6 U	6 U
1,1-DICHLOROETHENE		1.026	8.3		5 U	6 U	6 U
1,1,1-TRICHLOROETHANE		0.859	7.4		5 U	6 U	6 U
1,1,2-TRICHLOROETHANE		0.333	19		5 U	6 U	6 U
1,1,2,2-TETRACHLOROETHANE		0.498	6.4		5 U	6 U	6 U
1,2-DICHLOROETHANE		3.119	1.7		5 U	6 U	6 U
1,2-DICHLOROETHANE-D4		2.321	12.1				
1,2-DICHLOROETHENE (TOTAL)		1.051	14		5 U	6 U	6 U
1,2-DICHLOROPROPANE		0.223	10.7		5 U	6 U	6 U
1,4-BROMOFLUOROBENZENE		0.709	4				
2-BUTANONE		0.032	72.4		10 U	12 U	12 U
2-HEXANONE		0.282	67.9		10 U	12 U	12 U
4-METHYL-2-PENTANONE		0.273	20.9		10 U	12 U	12 U
SURR 1(TOL) %RECOVERY					100	120 *	101

TABLE D.8.16 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN25

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	319 LNDF-S	319 LNDF-S
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LANDFILL	LANDFILL
SAMPLE NUMBER	AR1125875	AR1125877	AR1125877	AR1125878	VBKGN25	AR801028A	AR801039A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						17	17
SURR 2(BFB) %RECOVERY					76 *	66 *	72 *
SURR 3(DCE) %RECOVERY					85	88	90
M/E 50	18						
M/E 75	57						
M/E 95	100						
M/E 96	6.5						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	76						
M/E 175-1	7.8						
M/E 175-2	10						
M/E 176-1	76						
M/E 176-2	100						
M/E 177-1	6.3						
M/E 177-2	8.3						
INTERNAL STD AREA(BCM)				2480000	2540000	1900000	1380000
INTERNAL STD AREA(CBZ)				7610000	8010000	3730000	3600000
INTERNAL STD AREA(DFB)				9090000	8770000	5830000	4790000
DILUTION FACTOR					1	1.22	1.23
PERCENT MOISTURE						17.9	18.8
ACTUAL(ALLOWED) HOLD TIME						9(14 D)	9(14 D)

AREA			
LOCATION	317 AREA	317 AREA	317 AREA
TYPE OF LOCATION	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR803019A	AR803020A	AR803031A
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	18	18	18
ACETONE	19 B	26 B	12 U
BENZENE	6 U	6 U	6 U
BROMODICHLOROMETHANE	6 U	6 U	6 U

TABLE D.8.16 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN25 DRAFT DO NOT CITE

AREA

LOCATION	317 AREA	317 AREA	317 AREA
TYPE OF LOCATION	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR803019A	AR803020A	AR803031A
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	18	18	18
BROMOFORM	6 U	6 U	6 U
BROMOMETHANE	11 U	12 U	12 U
CARBON DISULFIDE	6 U	6 U	6 U
CARBON TETRACHLORIDE	6 U	6 U	46 J
CHLOROBENZENE	6 U	6 U	6 U
CHLOROETHANE	11 U	12 U	12 U
CHLOROFORM	6 U	6 U	2 J
CHLOROMETHANE	11 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	6 U	6 U	6 U
DIBROMOCHLOROMETHANE	6 U	6 U	6 U
ETHYLBENZENE	6 U	6 U	6 U
METHYLENE CHLORIDE	1700 BE	1100 BE	16 JB
STYRENE	6 U	6 U	6 U
TETRACHLOROETHENE	6 U	6 U	10 J
TOLUENE	4 U	6 U	6 U
TOLUENE-D8			
TRANS-1,3-DICHLOROPROPENE	6 U	6 U	6 U
TRICHLOROETHENE	6 U	8 U	22 J
VINYL ACETATE	11 U	12 U	12 U
VINYL CHLORIDE	11 U	12 U	12 U
XYLENE (TOTAL)	6 U	6 U	6 U
1,1-DICHLOROETHANE	6 U	6 U	9 J
1,1-DICHLOROETHENE	6 U	6 U	6 U
1,1,1-TRICHLOROETHANE	3 J	5 J	450 JE
1,1,2-TRICHLOROETHANE	6 U	6 U	6 U
1,1,2,2-TETRACHLOROETHANE	6 U	6 U	6 U
1,2-DICHLOROETHANE	6 U	6 U	6 U
1,2-DICHLOROETHANE-D4			
1,2-DICHLOROETHENE (TOTAL)	6 U	6 U	6 U
1,2-DICHLOROPROPANE	6 U	6 U	6 U
1,4-BROMOFLUOROBENZENE			
2-BUTANONE	11 U	12 U	12 U
2-HEXANONE	11 U	12 U	12 U
4-METHYL-2-PENTANONE	11 U	12 U	12 U
SURR 1(TOL) %RECOVERY	110	118 *	0 *
SURR 2(BFB) %RECOVERY	69 *	65 *	0 *
SURR 3(DCE) %RECOVERY	87	89	0 *

M/E 50

TABLE D.8.16 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN25

DRAFT DO NOT CITE

AREA

LOCATION	317 AREA	317 AREA	317 AREA
TYPE OF LOCATION	DRAINAGE	DRAINAGE	DRAINAGE
SAMPLE NUMBER	AR803019A	AR803020A	AR803031A
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	18	18	18
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)	2040000	2110000	0
INTERNAL STD AREA(CBZ)	4500000	4830000	0
INTERNAL STD AREA(DFB)	6970000	7490000	0
DILUTION FACTOR	1.13	1.18	1.24
PERCENT MOISTURE	11.7	15	19.2
ACTUAL(ALLOWED) HOLD TIME	15(14 D)	13(14 D)	13(14 D)

TABLE D.8.17 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN30 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	800 LANDFI	800 LANDFI
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WELL	WELL
SAMPLE NUMBER	AR1130875	AR1130877	AR1130877	AR1130878	VBKGN30	AR411015A	AR411026A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						9	9
ACETONE		0.521	20		24	3 JB	4 JB
BENZENE		0.707	3.6		5 U	5 U	5 U
BROMODICHLOROMETHANE		0.853	24.5		5 U	5 U	5 U
BROMOFORM		0.407	0.6		5 U	5 U	5 U
BROMOMETHANE		1.489	14.2		10 U	10 U	10 U
CARBON DISULFIDE		2.893	3.8		5 U	5 U	5 U
CARBON TETRACHLORIDE		0.879	21.9		5 U	5 U	5 U
CHLOROBENZENE		1.003	6.2		5 U	5 U	5 U
CHLOROETHANE		1.037	7.2		10 U	10 U	10 U
CHLOROFORM		3.31	6		5 U	5 U	5 U
CHLOROMETHANE		0.677	51.9		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.386	7.6		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.656	20.7		5 U	5 U	5 U
ETHYLBENZENE		0.548	13.2		5 U	5 U	5 U
METHYLENE CHLORIDE		1.34	18.8		1 J	23 B	15 B
STYRENE		1.077	5.8		5 U	5 U	5 U
TETRACHLOROETHENE		0.498	7.9		5 U	5 U	5 U
TOLUENE		0.688	4.4		5 U	5 U	5 U
TOLUENE-D8		1.068	3.8				
TRANS-1,3-DICHLOROPROPENE		0.652	4.8		5 U	5 U	5 U
TRICHLOROETHENE		0.413	10.1		5 U	5 U	5 U
VINYL ACETATE		0.306	26.1		10 U	10 U	10 U
VINYL CHLORIDE		1.487	15.9		10 U	10 U	10 U
XYLENE (TOTAL)		0.683	15.2		5 U	5 U	5 U
1,1-DICHLOROETHANE		1.869	6.7		5 U	5 U	5 U
1,1-DICHLOROETHENE		1.125	0.4		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.998	24.8		5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		0.289	3.5		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.437	6.4		5 U	5 U	5 U
1,2-DICHLOROETHANE		3.118	1.7		5 U	5 U	5 U
1,2-DICHLOROETHANE-D4		2.558	3.1				
1,2-DICHLOROETHENE (TOTAL)		1.181	3.3		5 U	5 U	5 U
1,2-DICHLOROPROPANE		0.228	13.5		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.897	21.3				
2-BUTANONE		0.033	73.3		10 U	10 U	10 U
2-HEXANONE		0.189	12.5		10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.241	6.4		10 U	10 U	10 U
SURR 1(TOL) %RECOVERY					99	99	100

TABLE D.8.17 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN30

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	800 LANDFI	800 LANDFI
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WELL	WELL
SAMPLE NUMBER	AR1130875	AR1130877	AR1130877	AR1130878	VBKGN30	AR411015A	AR411026A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						9	9
SURR 2(BFB) %RECOVERY					85 *	90	87
SURR 3(DCE) %RECOVERY					110	115 *	110
M/E 50	21						
M/E 75	60						
M/E 95	100						
M/E 96	6.6						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	82						
M/E 175-1	6.8						
M/E 175-2	8.4						
M/E 176-1	80						
M/E 176-2	98						
M/E 177-1	7.4						
M/E 177-2	9.2						
INTERNAL STD AREA(BCM)				1850000	1660000	1580000	1700000
INTERNAL STD AREA(CBZ)				5360000	5710000	5560000	5780000
INTERNAL STD AREA(DFB)				6110000	6680000	6680000	7140000
DILUTION FACTOR					1	1	1
ACTUAL(ALLOWED) HOLD TIME						13(14 D)	13(14 D)

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	MATRIX	MS %	RPD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	SPIKE	RECOVERY	
SAMPLE NUMBER	AR500160A	AR500046A	AR500273A	AR500397A	AR500397A	AR500397A	AR500397A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	10	10	10	10	10	10	10
ACETONE	6100 BE	7500 BE	7700 BE	8700 BE	7500 BE		
BENZENE	3 J	4 J	6	53	120 U	106	8
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U		
BROMOFORM	5 U	5 U	5 U	5 U	5 U		

TABLE D.8.17 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN30 DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	MATRIX	MS %	RPD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	SPIKE	RECOVERY	
SAMPLE NUMBER	AR500160A	AR500046A	AR500273A	AR500397A	AR500397A	AR500397A	AR500397A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	10	10	10	10	10	10	10
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	59 MS	92	9
CHLOROETHANE	10 U	10 U	10 U	10 U	10 U		
CHLOROFORM	13	10	7	17	17		
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		
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U		
ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U		
METHYLENE CHLORIDE	750 BE	810 BE	720 BE	1100 BE	1000 BE		
STYRENE	5 U	5 U	5 U	5 U	5 U		
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U		
TOLUENE	5 U	5 U	5 U	7	72 U	99	6
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	68 U	97	6
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	70 U	112	6
1,1,1-TRICHLOROETHANE	5 U	5 U	2 J	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							
1,2-DICHLOROETHENE (TOTAL)	5 U	5 U	5 U	5 U	5 U		
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U		
1,4-BROMOFLUOROBENZENE							
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 J	8 J	12	11	12		
SURR 1(TOL) %RECOVERY	98	90	91	91	94		
SURR 2(BFB) %RECOVERY	90	84 *	91	86	86		
SURR 3(DCE) %RECOVERY	117 *	109	108	112	106		

M/E 50

TABLE D.8.17 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN30 DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	MATRIX	MS %	RPD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	SPIKE	RECOVERY	
SAMPLE NUMBER	AR500160A	AR500046A	AR500273A	AR500397A	AR500397A	AR500397A	AR500397A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	10	10	10	10	10	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							
INTERNAL STD AREA(BCM)	1670000	1700000	1740000	1690000	1770000		
INTERNAL STD AREA(CBZ)	5790000	5890000	5950000	5730000	6370000		
INTERNAL STD AREA(DFB)	7090000	7320000	7510000	7010000	7740000		
DILUTION FACTOR	1	1	1	1	1		
ACTUAL(ALLOWED) HOLD TIME	12(14 D)	12(14 D)	12(14 D)	13(14 D)	13(14 D)		

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR500397A	AR500397A
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	10	10
ACETONE	7700 BE	
BENZENE	120 U	115
BROMODICHLOROMETHANE	5 U	
BROMOFORM	5 U	
BROMOMETHANE	10 U	
CARBON DISULFIDE	5 U	
CARBON TETRACHLORIDE	5 U	
CHLOROBENZENE	65 MS	101

TABLE D.8.17 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN30 DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR500397A	AR500397A
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	10	10
CHLOROETHANE	10 U	
CHLOROFORM	17	
CHLOROMETHANE	10 U	
CIS-1,3-DICHLOROPROPENE	5 U	
DIBROMOCHLOROMETHANE	5 U	
ETHYLBENZENE	5 U	
METHYLENE CHLORIDE	1000 BE	
STYRENE	5 U	
TETRACHLOROETHENE	5 U	
TOLUENE	77 U	106
TOLUENE-D8		
TRANS-1,3-DICHLOROPROPENE	5 U	
TRICHLOROETHENE	73 U	103
VINYL ACETATE	10 U	
VINYL CHLORIDE	10 U	
XYLENE (TOTAL)	5 U	
1,1-DICHLOROETHANE	5 U	
1,1-DICHLOROETHENE	75 U	120
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		
1,2-DICHLOROETHENE (TOTAL)	5 U	
1,2-DICHLOROPROPANE	5 U	
1,4-BROMOFLUOROBENZENE		
2-BUTANONE	10 U	
2-HEXANONE	10 U	
4-METHYL-2-PENTANONE	11	
SURR 1(TOL) %RECOVERY	98	
SURR 2(BFB) %RECOVERY	82 *	
SURR 3(DCE) %RECOVERY	108	
M/E 50		
M/E 75		
M/E 95		
M/E 96		
M/E 173-1		

TABLE D.8.17 ARGONNE VOLATILE ORGANICS - SDG NUMBER: GN30

DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR500397A	AR500397A
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	10	10
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)	1750000	
INTERNAL STD AREA(CBZ)	6250000	
INTERNAL STD AREA(DFB)	7550000	
DILUTION FACTOR	1	
ACTUAL(ALLOWED) HOLD TIME	13(14 D)	

TABLE D.8.18 ARGONNE VOLATILE ORGANICS - SDG NUMBER: G030 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA
LOCATION	TUNED	INITIAL CAL	INITIAL CAL	ISTD RET TIM
TYPE OF LOCATION	CALIBRATION	RRF	% RSD	SHIFT
SAMPLE NUMBER	AR1030875	AR1030876	AR1030876	AR1030878
MATRIX	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA
ENV PROBLEM NO				
ACETONE		0.434	21.5	
BENZENE		0.733	9.4	
BROMODICHLOROMETHANE		0.686	8.2	
BROMOFORM		0.41	18.5	
BROMOMETHANE		1.304	40.8	
CARBON DISULFIDE		3.006	14.7	
CARBON TETRACHLORIDE		0.721	8.9	
CHLOROBENZENE		0.944	7.9	
CHLOROETHANE		1.118	9.3	
CHLOROFORM		3.52	9	
CHLOROMETHANE		1.408	19.2	
CIS-1,3-DICHLOROPROPENE		0.359	13.1	
DIBROMOCHLOROMETHANE		0.543	10.8	
ETHYLBENZENE		0.484	5.4	
METHYLENE CHLORIDE		1.649	14.4	
STYRENE		1.017	6.5	
TETRACHLOROETHENE		0.461	8.2	
TOLUENE		0.719	7.9	
TOLUENE-D8		1.111	4.4	
TRANS-1,3-DICHLOROPROPENE		0.622	10.7	
TRICHLOROETHENE		0.375	9.5	
VINYL ACETATE		0.243	9.7	
VINYL CHLORIDE		1.769	10.1	
XYLENE (TOTAL)		0.593	3.3	
1,1-DICHLOROETHANE		2.003	10.4	
1,1-DICHLOROETHENE		1.12	8.2	
1,1,1-TRICHLOROETHANE		0.8	7.2	
1,1,2-TRICHLOROETHANE		0.28	10.9	
1,1,2,2-TETRACHLOROETHANE		0.467	10.6	
1,2-DICHLOROETHANE		3.066	7.8	
1,2-DICHLOROETHANE-D4		2.641	2.5	
1,2-DICHLOROETHENE (TOTAL)		1.222	12	
1,2-DICHLOROPROPANE		0.201	9.9	
1,4-BROMOFLUOROBENZENE		0.739	2.6	
2-BUTANONE		0.019	21.9	
2-HEXANONE		0.168	13.1	
4-METHYL-2-PENTANONE		0.226	7.4	

TABLE D.8.18 ARGONNE VOLATILE ORGANICS - SDG NUMBER: G030 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA
LOCATION	TUNED	INITIAL CAL	INITIAL CAL	ISTD RET TIM
TYPE OF LOCATION	CALIBRATION	RRF	% RSD	SHIFT
SAMPLE NUMBER	AR1030875	AR1030876	AR1030876	AR1030878
MATRIX	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA
ENV PROBLEM NO				
M/E 75	56			
M/E 95	100			
M/E 96	5.4			
M/E 173-1	1.5			
M/E 173-2	2			
M/E 174	79			
M/E 175-1	5.7			
M/E 175-2	7.3			
M/E 176-1	78			
M/E 176-2	99			
M/E 177-1	4.1			
M/E 177-2	5.2			
INTERNAL STD AREA(BCM)				3690000
INTERNAL STD AREA(CBZ)				1E+07
INTERNAL STD AREA(DFB)				2E+07
DILUTION FACTOR				
ACTUAL(ALLOWED) HOLD TIME				

TABLE D.8.19 ARGONNE VOLATILE ORGANICS - SDG NUMBER: OD01

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA		QA	
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	317 AREA	METHOD	CP-3 AREA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DRAINAGE	BLANK	SITE A
SAMPLE NUMBER	AR1201875	AR1201877	AR1201877	AR1201878	AR803064A	VBKOD01	AR812054A
MATRIX	WATER	WATER	WATER	WATER	SOIL	WATER	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/L	UG/KG
ENV PROBLEM NO					18		25
ACETONE		0.54	3.6		586 B	15	35 B
BENZENE		0.97	5.4		155 U	5 U	5 U
BROMODICHLOROMETHANE		0.54	12.5		155 U	5 U	5 U
BROMOFORM		0.37	2.8		155 U	5 U	5 U
BROMOMETHANE		1.17	102		310 U	10 U	10 U
CARBON DISULFIDE		4.12	9		155 U	5 U	5 U
CARBON TETRACHLORIDE		0.5	11.1		155 U	5 U	5 U
CHLOROBENZENE		1	2		155 U	5 U	5 U
CHLOROETHANE		0.79	11.3		310 U	10 U	10 U
CHLOROFORM		3.09	16.6		155 U	5 U	5 U
CHLOROMETHANE		1.15	3.6		310 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.7	119		155 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.5	16.3		155 U	5 U	5 U
ETHYLBENZENE		0.52	2		310	5 U	6
METHYLENE CHLORIDE		1.51	7.1		189	5 U	148
STYRENE		1.02	0		155 U	5 U	5 U
TETRACHLOROETHENE		0.45	2.2		155 U	5 U	5 U
TOLUENE		0.77	3.8		155 U	5 U	5 U
TOLUENE-D8		1	9.9				
TRANS-1,3-DICHLOROPROPENE		0.36	44.6		155 U	5 U	5 U
TRICHLOROETHENE		0.41	17.1		368	5 U	5 U
VINYL ACETATE		0.36	2.7		310 U	5 U	5 U
VINYL CHLORIDE		1.37	39.8		310 U	10 U	10 U
XYLENE (TOTAL)		0.61	1.7		204	5 U	5 U
1,1-DICHLOROETHANE		2.54	4.1		394	5 U	5 U
1,1-DICHLOROETHENE		1.4	21.7		343 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.55	17		10700 E	5 U	5 U
1,1,2-TRICHLOROETHANE		0.29	7.4		155 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.45	13.5		155 U	5 U	5 U
1,2-DICHLOROETHANE		2.49	10.2		308	5 U	5 U
1,2-DICHLOROETHANE-D4		1.85	0				
1,2-DICHLOROETHENE (TOTAL)		1.54	17.6		155 U	5 U	5 U
1,2-DICHLOROPROPANE		0.29	3.3		155 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.53	19.7				
2-BUTANONE		0.03	0		310 U	10 U	10 U
2-HEXANONE		0.18	35.7		310 U	10 U	10 U
4-METHYL-2-PENTANONE		0.28	28.2		5930	10 U	10 U
SURR 1(TOL) %RECOVERY					106	106	120 *

TABLE D.8.19 ARGONNE VOLATILE ORGANICS - SDG NUMBER: OD01 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA		QA	
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	317 AREA	METHOD	CP-3 AREA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	DRAINAGE	BLANK	SITE A
SAMPLE NUMBER	AR1201875	AR1201877	AR1201877	AR1201878	AR803064A	VBKOD01	AR812054A
MATRIX	WATER	WATER	WATER	WATER	SOIL	WATER	SOIL
UNITS	%	RRF	%	AREA	UG/KG	UG/L	UG/KG
ENV PROBLEM NO					18		25
SURR 2(BFB) %RECOVERY					113	111	112
SURR 3(DCE) %RECOVERY					97	97	92
M/E 50	18						
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	88						
M/E 175-1	7.7						
M/E 175-2	8.7						
M/E 176-1	87						
M/E 176-2	98						
M/E 177-1	5.5						
M/E 177-2	6.4						
INTERNAL STD AREA(BCM)				4E+07	4E+07	4E+07	3E+07
INTERNAL STD AREA(CBZ)				2E+08	2E+08	2E+08	1E+08
INTERNAL STD AREA(DFB)				2E+08	2E+08	2E+08	2E+08
DILUTION FACTOR					31.25	1	1.2
PERCENT MOISTURE					20		17
ACTUAL(ALLOWED) HOLD TIME					19(14 D)		18(14 D)

AREA							
LOCATION	CP-3 AREA	319 LNDF-S	RET. TANKS	RET. TANKS	RET. TANKS		
TYPE OF LOCATION	SITE A	LANDFILL	WASTEWATER	WASTEWATER	WASTEWATER		
SAMPLE NUMBER	AR812065A	AR801017A	AR500502A	AR500626A	AR500693A		
MATRIX	SOIL	SOIL	WATER	WATER	WATER		
UNITS	UG/KG	UG/KG	UG/L	UG/L	UG/L		
ENV PROBLEM NO	25	17	10	10	10		
ACETONE	18 B	18 B	293 B	297 B	1420 B		
BENZENE	5 U	5 U	5 U	7	5 U		
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U		

TABLE D.8.19 ARGONNE VOLATILE ORGANICS - SDG NUMBER: OD01 DRAFT DO NOT CITE

AREA

LOCATION	CP-3 AREA	319 LNDF-S	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	SITE A	LANDFILL	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR812065A	AR801017A	AR500502A	AR500626A	AR500693A
MATRIX	SOIL	SOIL	WATER	WATER	WATER
UNITS	UG/KG	UG/KG	UG/L	UG/L	UG/L
ENV PROBLEM NO	25	17	10	10	10
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	5 U	5 U	5 U	16	89
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
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	5 U	5	5 U	5 U	5 U
METHYLENE CHLORIDE	900 E	203 E	400	664 E	71
STYRENE	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	611 E
TOLUENE	5 U	5 U	5 U	5 U	16
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	26 U
VINYL ACETATE	5 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	9	5 U	5 U	12
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	39	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	9
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4					
1,2-DICHLOROETHENE (TOTAL)	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE					
2-BUTANONE	10 U	10 U	10 U	10 U	53
2-HEXANONE	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	36	11	10	54
SURR 1(TOL) %RECOVERY	122 *	135 *	105	108	104
SURR 2(BFB) %RECOVERY	101	88	112	117 *	109
SURR 3(DCE) %RECOVERY	96	94	95	99	91

M/E 50

TABLE D.8.19 ARGONNE VOLATILE ORGANICS - SDG NUMBER: OD01 DRAFT DO NOT CITE

AREA

LOCATION	CP-3 AREA	319 LNDF-S	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	SITE A	LANDFILL	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR812065A	AR801017A	AR500502A	AR500626A	AR500693A
MATRIX	SOIL	SOIL	WATER	WATER	WATER
UNITS	UG/KG	UG/KG	UG/L	UG/L	UG/L
ENV PROBLEM NO	25	17	10	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					
INTERNAL STD AREA(BCM)	3E+07	3E+07	4E+07	4E+07	4E+07
INTERNAL STD AREA(CBZ)	1E+08	6E+07	2E+08	1E+08	2E+08
INTERNAL STD AREA(DFB)	2E+08	1E+08	2E+08	2E+08	2E+08
DILUTION FACTOR	1.2	1.22	1	1	1
PERCENT MOISTURE	17	18			
ACTUAL(ALLOWED) HOLD TIME	18(14 D)	15(14 D)	13(14 D)	13(14 D)	14(14 D)

TABLE D.8.20 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON13 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1113875	AR1113877	AR1113877	AR1113878	VBKON13	AR500068A	AR500080A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	10
ACETONE		0.667	18.8		18	170 B	4 JB
BENZENE		0.859	6.3		5 U	2 U	5 U
BROMODICHLOROMETHANE		0.477	1		5 U	5 U	5 U
BROMOFORM		0.345	4.8		5 U	5 U	5 U
BROMOMETHANE		1.018	76.4		10 U	10 U	10 U
CARBON DISULFIDE		3.326	11.9		0.8 J	1 JB	0.9 JB
CARBON TETRACHLORIDE		0.456	1.8		5 U	2 J	5 U
CHLOROBENZENE		0.986	0.8		5 U	5 U	5 U
CHLOROETHANE		0.761	7.2		10 U	10 U	10 U
CHLOROFORM		2.758	4.2		5 U	310 E	5 U
CHLOROMETHANE		0.981	11.4		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.322	1.8		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.424	0.7		5 U	5 U	5 U
ETHYLBENZENE		0.499	2.1		5 U	6	5 U
METHYLENE CHLORIDE		1.363	3.1		2 J	48 B	3 JB
STYRENE		0.974	4.6		5 U	5 U	5 U
TETRACHLOROETHENE		0.45	1.8		5 U	5 U	5 U
TOLUENE		0.764	4.4		5 U	14 U	8 U
TOLUENE-D8		1.039	6.7				
TRANS-1,3-DICHLOROPROPENE		0.6	6.9		5 U	5 U	5 U
TRICHLOROETHENE		0.368	4.1		5 U	5 U	140 U
VINYL ACETATE		0.483	31.7		10 U	10 U	10 U
VINYL CHLORIDE		1.103	12.8		10 U	10 U	10 U
XYLENE (TOTAL)		0.578	3.4		5 U	35	5 U
1,1-DICHLOROETHANE		2.299	5.8		5 U	5 U	5 U
1,1-DICHLOROETHENE		1.221	6.4		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.438	6.7		5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		0.276	3.9		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.517	0.1		5 U	5 U	5 U
1,2-DICHLOROETHANE		2.341	3.5		5 U	5 U	5 U
1,2-DICHLOROETHANE-D4		1.843	0.2				
1,2-DICHLOROETHENE (TOTAL)		1.335	1.6		5 U	5 U	7
1,2-DICHLOROPROPANE		0.253	15.5		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.585	11.5				
2-BUTANONE		0.034	10.8		10 U	10 U	10 U
2-HEXANONE		0.264	3.8		10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.349	11.1		10 U	10 U	10 U
SURR 1(TOL) %RECOVERY					102	94	99

TABLE D.8.20 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON13 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1113875	AR1113877	AR1113877	AR1113878	VBKON13	AR500068A	AR500080A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	10
SURR 2(BFB) %RECOVERY					103	120 *	98
SURR 3(DCE) %RECOVERY					101	93	94
M/E 50	19						
M/E 75	51						
M/E 95	100						
M/E 96	8.4						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	90						
M/E 175-1	6.9						
M/E 175-2	7.7						
M/E 176-1	89						
M/E 176-2	99						
M/E 177-1	5.5						
M/E 177-2	6.2						
INTERNAL STD AREA(BCM)				4080000	4020000	4220000	3960000
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	1
ACTUAL(ALLOWED) HOLD TIME						8(14 D)	8(14 D)

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	BLDG 108	MATRIX	MS %	RPD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	SILT	SPIKE	RECOVERY	
SAMPLE NUMBER	AR500182A	AR500206A	AR500717A	AR508011A	AR508011A	AR508011A	AR508011A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	10	10	10	16	16	16	16
ACETONE	230 BE	6 JB	10 JB	7 JB	6 JB		
BENZENE	2 U	5 U	5 U	5 U	61 U	102	3
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U		
BROMOFORM	5 U	5 U	5 U	5 U	5 U		

TABLE D.8.20 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON13 DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	BLDG 108	MATRIX	MS %	RPD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	SILT	SPIKE	RECOVERY	
SAMPLE NUMBER	AR500182A	AR500206A	AR500717A	AR508011A	AR508011A	AR508011A	AR508011A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	10	10	10	16	16	16	16
BROMOMETHANE	10 U	10 U	10 U	10 U	10 U		
CARBON DISULFIDE	3 JB	5 U	5 U	5 U	1 JB		
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	5 U		
CHLOROBENZENE	5 U	5 U	5 U	5 U	65 MS	102	4
CHLOROETHANE	10 U	10 U	10 U	10 U	10 U		
CHLOROFORM	260 E	5 U	5 U	5 U	5 U		
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		
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U		
ETHYLBENZENE	4 J	5 U	5 U	5 U	5 U		
METHYLENE CHLORIDE	38 B	3 JB	2 JB	3 JB	3 JB		
STYRENE	5 U	5 U	5 U	5 U	5 U		
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	5 U		
TOLUENE	14	7	19	9	71 U	94	6
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U		
TRICHLOROETHENE	5 U	180 U	5 U	5 U	71 U	101	6
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)	23	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	73 U	117	3
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							
1,2-DICHLOROETHENE (TOTAL)	5 U	9	5 U	5 U	5 U		
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U		
1,4-BROMOFLUOROBENZENE							
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	104	103	101	99	103		
SURR 2(BFB) %RECOVERY	105	100	98	96	103		
SURR 3(DCE) %RECOVERY	95	96	96	94	95		

M/E 50

TABLE D.8.20 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON13

DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	BLDG 108	MATRIX	MS %	RPD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	SILT	SPIKE	RECOVERY	
SAMPLE NUMBER	AR500182A	AR500206A	AR500717A	AR508011A	AR508011A	AR508011A	AR508011A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	10	10	10	16	16	16	16
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	3980000	3890000	3960000	4050000		
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	8(14 D)	8(14 D)	9(14 D)	8(14 D)	8(14 D)		

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR508011A	AR508011A
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	16	16
ACETONE	7 JB	
BENZENE	63 U	105
BROMODICHLOROMETHANE	5 U	
BROMOFORM	5 U	
BROMOMETHANE	10 U	
CARBON DISULFIDE	4 JB	
CARBON TETRACHLORIDE	5 U	
CHLOROBENZENE	68 MS	106

TABLE D.8.20 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON13

DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR508011A	AR508011A
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	16	16
CHLOROETHANE	10 U	
CHLOROFORM	5 U	
CHLOROMETHANE	10 U	
CIS-1,3-DICHLOROPROPENE	5 U	
DIBROMOCHLOROMETHANE	5 U	
ETHYLBENZENE	5 U	
METHYLENE CHLORIDE	3 JB	
STYRENE	5 U	
TETRACHLOROETHENE	5 U	
TOLUENE	75 U	100
TOLUENE-D8		
TRANS-1,3-DICHLOROPROPENE	5 U	
TRICHLOROETHENE	75 U	107
VINYL ACETATE	10 U	
VINYL CHLORIDE	10 U	
XYLENE (TOTAL)	5 U	
1,1-DICHLOROETHANE	5 U	
1,1-DICHLOROETHENE	75 U	121
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		
1,2-DICHLOROETHENE (TOTAL)	5 U	
1,2-DICHLOROPROPANE	5 U	
1,4-BROMOFLUOROBENZENE		
2-BUTANONE	10 U	
2-HEXANONE	10 U	
4-METHYL-2-PENTANONE	10 U	
SURR 1(TOL) %RECOVERY	102	
SURR 2(BFB) %RECOVERY	101	
SURR 3(DCE) %RECOVERY	93	

M/E 50
M/E 75
M/E 95
M/E 96
M/E 173-1

TABLE D.8.20 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON13 DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR508011A	AR508011A
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	16	16
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)	3980000	
INTERNAL STD AREA(CBZ)	2E+07	
INTERNAL STD AREA(DFB)	2E+07	
DILUTION FACTOR	1	
ACTUAL(ALLOWED) HOLD TIME	8(14 D)	

TABLE D.8.21 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON14 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1114875	AR1114877	AR1114877	AR1114878	VBKON14	AR500024A	AR500137A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	10
ACETONE		0.769	37		13	2400 BE	2600 BE
BENZENE		0.883	3.7		5 U	110	5 U
BROMODICHLOROMETHANE		0.501	3.9		5 U	5 U	5 U
BROMOFORM		0.331	8.7		5 U	5 U	5 U
BROMOMETHANE		1.319	128.5		10 U	10 U	10 U
CARBON DISULFIDE		3.855	2.1		5 U	2 J	1 J
CARBON TETRACHLORIDE		0.519	15.9		5 U	5 U	5 U
CHLOROBENZENE		1.046	6.9		5 U	5 U	5 U
CHLOROETHANE		0.876	23.5		10 U	10 U	10 U
CHLOROFORM		3.112	17.6		5 U	41	11
CHLOROMETHANE		0.955	13.7		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.342	7.8		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.431	0.9		5 U	5 U	5 U
ETHYLBENZENE		0.532	4.3		5 U	5 U	3 J
METHYLENE CHLORIDE		1.52	8.1		2 J	450 BE	1500 BE
STYRENE		1.042	2.1		5 U	5 U	5 U
TETRACHLOROETHENE		0.48	4.9		5 U	5 U	5 U
TOLUENE		0.812	1.8		0.9 J	12 B	18 B
TOLUENE-D8		1.062	4.7				
TRANS-1,3-DICHLOROPROPENE		0.645	0		5 U	5 U	5 U
TRICHLOROETHENE		0.392	10.9		5 U	5 U	110
VINYL ACETATE		0.462	25.8		10 U	10 U	10 U
VINYL CHLORIDE		1.323	35.3		10 U	10 U	10 U
XYLENE (TOTAL)		0.616	2.8		5 U	5 U	10
1,1-DICHLOROETHANE		2.569	5.2		5 U	5 U	5 U
1,1-DICHLOROETHENE		1.376	19.9		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.515	9.7		5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		0.268	0.8		5 U	5 U	3 J
1,1,2,2-TETRACHLOROETHANE		0.458	11.5		5 U	5 U	5 U
1,2-DICHLOROETHANE		2.555	12.9		5 U	5 U	1 J
1,2-DICHLOROETHANE-D4		1.866	1.1				
1,2-DICHLOROETHENE (TOTAL)		1.546	17.6		5 U	5 U	97
1,2-DICHLOROPROPANE		0.264	12		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.603	8.8				
2-BUTANONE		0.033	6.6		10 U	27	17
2-HEXANONE		0.26	5.2		10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.295	24.8		10 U	23	10 U
SURR 1(TOL) %RECOVERY					94	91	91

TABLE D.8.21 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON14

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1114875	AR1114877	AR1114877	AR1114878	VBKON14	AR500024A	AR500137A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	10
SURR 2(BFB) %RECOVERY					96	93	94
SURR 3(DCE) %RECOVERY					96	92	92
M/E 50	18						
M/E 75	50						
M/E 95	100						
M/E 96	7.8						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	91						
M/E 175-1	7.6						
M/E 175-2	8.3						
M/E 176-1	90						
M/E 176-2	99						
M/E 177-1	5.9						
M/E 177-2	6.5						
INTERNAL STD AREA(BCM)				3810000	3810000	3820000	3930000
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
ACTUAL(ALLOWED) HOLD TIME						5(14 D)	5(14 D)

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	MATRIX	MS %	RPD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	SPIKE	RECOVERY	
SAMPLE NUMBER	AR500148A	AR500217A	AR500319A	AR500433A	AR500433A	AR500433A	AR500433A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	10	10	10	10	10	10	10
ACETONE	2400 BE	250 BE	4 JB	3 JB	3 JB		
BENZENE	130	5 U	5 U	5 U	67 U	111	1
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U		
BROMOFORM	5 U	5 U	5 U	5 U	5 U		

TABLE D.8.21 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON14 DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	MATRIX	MS %	RPD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	SPIKE	RECOVERY	
SAMPLE NUMBER	AR500148A	AR500217A	AR500319A	AR500433A	AR500433A	AR500433A	AR500433A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	10	10	10	10	10	10	10
BROMOMETHANE	10 U	10 U	10 U	10 U	10 U		
CARBON DISULFIDE	1 J	5 U	5 U	5 U	5 U		
CARBON TETRACHLORIDE	5 U	2 J	5 U	5 U	5 U		
CHLOROBENZENE	5 U	5 U	5 U	5 U	66 MS	103	1
CHLOROETHANE	10 U	10 U	10 U	10 U	10 U		
CHLOROFORM	35	9	5 U	5 U	5 U		
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		
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U		
ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U		
METHYLENE CHLORIDE	330 BE	120 B	2 JB	2 JB	2 JB		
STYRENE	5 U	5 U	5 U	5 U	5 U		
TETRACHLOROETHENE	2 J	5 U	5 U	5 U	5 U		
TOLUENE	16 B	2 JB	9 B	10 B	74 U	112	0
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	5 U		
TRICHLOROETHENE	3 U	5 U	200 E	200 E	280 U	114	0
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	75 U	121	0
1,1,1-TRICHLOROETHANE	5 U	1 J	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							
1,2-DICHLOROETHENE (TOTAL)	5 U	5 U	8	8	8		
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U		
1,4-BROMOFLUOROBENZENE							
2-BUTANONE	24	10 U	10 U	10 U	10 U		
2-HEXANONE	10 U	10 U	10 U	10 U	10 U		
4-METHYL-2-PENTANONE	23	10 U	10 U	10 U	10 U		
SURR 1(TOL) %RECOVERY	95	94	95	96	96		
SURR 2(BFB) %RECOVERY	98	97	105	99	99		
SURR 3(DCE) %RECOVERY	94	93	95	95	95		

M/E 50

TABLE D.8.21 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON14

DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	MATRIX	MS %	RPD
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	SPIKE	RECOVERY	
SAMPLE NUMBER	AR500148A	AR500217A	AR500319A	AR500433A	AR500433A	AR500433A	AR500433A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	%	%
ENV PROBLEM NO	10	10	10	10	10	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							
INTERNAL STD AREA(BCM)	3660000	3710000	3570000	3640000	3470000		
INTERNAL STD AREA(CBZ)	2E+07	2E+07	2E+07	2E+07	1E+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	5(14 D)	5(14 D)	5(14 D)	5(14 D)	6(14 D)		

AREA	QA	QA					
LOCATION	MATRIX SPIKE	MSD %					
TYPE OF LOCATION	DUPLICATE	RECOVERY					
SAMPLE NUMBER	AR500433A	AR500433A					
MATRIX	WATER	WATER					
UNITS	UG/L	%					
ENV PROBLEM NO	10	10					
ACETONE	3 JB						
BENZENE	66 U	110					
BROMODICHLOROMETHANE	5 U						
BROMOFORM	5 U						
BROMOMETHANE	10 U						
CARBON DISULFIDE	2 J						
CARBON TETRACHLORIDE	5 U						
CHLOROBENZENE	65 MS	101					

TABLE D.8.21 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON14 DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR500433A	AR500433A
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	10	10
CHLOROETHANE	10 U	
CHLOROFORM	5 U	
CHLOROMETHANE	10 U	
CIS-1,3-DICHLOROPROPENE	5 U	
DIBROMOCHLOROMETHANE	5 U	
ETHYLBENZENE	5 U	
METHYLENE CHLORIDE	2 JB	
STYRENE	5 U	
TETRACHLOROETHENE	5 U	
TOLUENE	74 U	112
TOLUENE-D8		
TRANS-1,3-DICHLOROPROPENE	5 U	
TRICHLOROETHENE	280 U	114
VINYL ACETATE	10 U	
VINYL CHLORIDE	10 U	
XYLENE (TOTAL)	5 U	
1,1-DICHLOROETHANE	5 U	
1,1-DICHLOROETHENE	75 U	121
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		
1,2-DICHLOROETHENE (TOTAL)	9	
1,2-DICHLOROPROPANE	5 U	
1,4-BROMOFLUOROBENZENE		
2-BUTANONE	10 U	
2-HEXANONE	10 U	
4-METHYL-2-PENTANONE	10 U	
SURR 1(TOL) %RECOVERY	96	
SURR 2(BFB) %RECOVERY	101	
SURR 3(DCE) %RECOVERY	95	

M/E 50
M/E 75
M/E 95
M/E 96
M/E 173-1

TABLE D.8.21 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON14

DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR500433A	AR500433A
MATRIX	WATER	WATER
UNITS	UG/L	%
ENV PROBLEM NO	10	10
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)	3520000	
INTERNAL STD AREA(CBZ)	1E+07	
INTERNAL STD AREA(DFB)	2E+07	
DILUTION FACTOR	1	
ACTUAL(ALLOWED) HOLD TIME	6(14 D)	

TABLE D.8.22 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON15 DRAFT DO NOT CITE

AREA	QA				QA	QA	QA
LOCATION	TUNED	COAL PILE	COAL PILE	COAL PILE	CONTINUING	CONTINUING	METHOD
TYPE OF LOCATION	CALIBRATION	RUNOFF	RUNOFF	RUNOFF	CALIBRATION	CAL %D	BLANK
SAMPLE NUMBER	AR1115875	AR308019A	AR308020A	AR308031A	AR1115877	AR1115877	VBKON15
MATRIX	WATER	SOIL	SOIL	SOIL	WATER	WATER	WATER
UNITS	%	UG/KG	UG/KG	UG/KG	RRF	%	UG/L
ENV PROBLEM NO		4	4	4			
ACETONE		39 B	28 B	23 B	0.801	42.7	11
BENZENE		8 U	7 U	7 U	0.989	7.9	5 U
BROMODICHLOROMETHANE		8 U	7 U	7 U	0.571	18.4	5 U
BROMOFORM		8 U	7 U	7 U	0.36	0.7	5 U
BROMOMETHANE		16 U	15 U	14 U	1.209	109.5	10 U
CARBON DISULFIDE		8 U	7 U	7 U	3.91	3.6	5 U
CARBON TETRACHLORIDE		8 U	7 U	7 U	0.565	26	5 U
CHLOROBENZENE		8 U	7 U	7 U	1.141	16.6	5 U
CHLOROETHANE		16 U	15 U	14 U	0.841	18.5	10 U
CHLOROFORM		8 U	7 U	7 U	3.207	21.2	5 U
CHLOROMETHANE		16 U	15 U	14 U	0.934	15.6	10 U
CIS-1,3-DICHLOROPROPENE		8 U	7 U	7 U	0.358	13	5 U
DIBROMOCHLOROMETHANE		8 U	7 U	7 U	0.478	12.1	5 U
ETHYLBENZENE		8 U	7 U	7 U	0.606	18.8	5 U
METHYLENE CHLORIDE		10 B	32 B	390 BE	1.469	4.4	2 J
STYRENE		8 U	7 U	7 U	1.197	17.3	5 U
TETRACHLOROETHENE		64	70	5 J	0.511	11.6	5 U
TOLUENE		8 U	7 U	2 U	0.905	13.4	0.8 J
TOLUENE-D8					1.144	2.7	
TRANS-1,3-DICHLOROPROPENE		8 U	7 U	7 U	0.678	5	5 U
TRICHLOROETHENE		8 U	7 U	7 U	0.426	20.5	5 U
VINYL ACETATE		16 U	15 U	14 U	0.509	38.8	10 U
VINYL CHLORIDE		16 U	15 U	14 U	1.235	26.2	10 U
XYLENE (TOTAL)		8 U	7 U	7 U	0.7	16.9	5 U
1,1-DICHLOROETHANE		8 U	7 U	7 U	2.499	2.3	5 U
1,1-DICHLOROETHENE		8 U	7 U	7 U	1.372	19.5	5 U
1,1,1-TRICHLOROETHANE		8 U	7 U	7 U	0.574	22.1	5 U
1,1,2-TRICHLOROETHANE		8 U	7 U	7 U	0.305	14.8	5 U
1,1,2,2-TETRACHLOROETHANE		8 U	7 U	7 U	0.522	0.9	5 U
1,2-DICHLOROETHANE		8 U	7 U	7 U	2.457	8.6	5 U
1,2-DICHLOROETHANE-D4					1.885	2.1	
1,2-DICHLOROETHENE (TOTAL)		8 U	7 U	7 U	1.545	17.6	5 U
1,2-DICHLOROPROPANE		8 U	7 U	7 U	0.289	3.6	5 U
1,4-BROMOFLUOROBENZENE					0.618	6.5	
2-BUTANONE		16 U	15 U	14 U	0.036	17.7	10 U
2-HEXANONE		16 U	15 U	14 U	0.284	3.3	10 U
4-METHYL-2-PENTANONE		16 U	15 U	14 U	0.341	13.2	10 U
SURR 1(TOL) %RECOVERY		127 *	120 *	103			94

TABLE D.8.22 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON15

DRAFT DO NOT CITE

AREA	QA				QA	QA	QA
LOCATION	TUNED	COAL PILE	COAL PILE	COAL PILE	CONTINUING	CONTINUING	METHOD
TYPE OF LOCATION	CALIBRATION	RUNOFF	RUNOFF	RUNOFF	CALIBRATION	CAL %D	BLANK
SAMPLE NUMBER	AR1115875	AR308019A	AR308020A	AR308031A	AR1115877	AR1115877	VBKON15
MATRIX	WATER	SOIL	SOIL	SOIL	WATER	WATER	WATER
UNITS	%	UG/KG	UG/KG	UG/KG	RRF	%	UG/L
ENV PROBLEM NO		4	4	4			
SURR 2(BFB) %RECOVERY		64 *	69 *	68 *			102
SURR 3(DCE) %RECOVERY		92	93	91			91
M/E 50	19						
M/E 75	53						
M/E 95	100						
M/E 96	7.1						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	96						
M/E 175-1	7						
M/E 175-2	7.4						
M/E 176-1	93						
M/E 176-2	98						
M/E 177-1	6.5						
M/E 177-2	6.8						
INTERNAL STD AREA(BCM)		3330000	2880000	3380000			3880000
INTERNAL STD AREA(CBZ)		8430000	6910000	8460000			1E+07
INTERNAL STD AREA(DFB)		2E+07	1E+07	1E+07			2E+07
DILUTION FACTOR		1.58	1.47	1.39			1
PERCENT MOISTURE		36.6	31.9	28			
ACTUAL(ALLOWED) HOLD TIME		11(14 D)	11(14 D)	11(14 D)			

AREA							
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS		B145 DRUM	B145 DRUM	B31 TAP WA
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	TRIP BLANK	DRUM	DRUM	WELLS
SAMPLE NUMBER	AR500126A	AR500295A	AR500411A	ARN12016A	AR817015A	AR817026A	AR400012A
MATRIX	WATER	WATER	WATER	WATER	SOIL	SOIL	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/L
ENV PROBLEM NO	10	10	10	99	27	27	7
ACETONE	1200 BE	1300 BE	810 BE	13 B	32 B	15 B	0.9 JB
BENZENE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
BROMODICHLOROMETHANE	2 J	5 U	5 U	5 U	6 U	5 U	5 U

TABLE D.8.22 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON15

DRAFT DO NOT CITE

AREA

LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	TRIP BLANK	B145 DRUM	B145 DRUM	B31 TAP WA
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER		DRUM	DRUM	WELLS
SAMPLE NUMBER	AR500126A	AR500295A	AR500411A	ARN12016A	AR817015A	AR817026A	AR400012A
MATRIX	WATER	WATER	WATER	WATER	SOIL	SOIL	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/L
ENV PROBLEM NO	10	10	10	99	27	27	7
BROMOFORM	5 U	5 U	5 U	5 U	6 U	5 U	5 U
BROMOMETHANE	10 U	10 U	10 U	10 U	11 U	11 U	10 U
CARBON DISULFIDE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
CARBON TETRACHLORIDE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
CHLOROBENZENE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
CHLOROETHANE	10 U	10 U	10 U	10 U	11 U	11 U	10 U
CHLOROFORM	3 J	130	120	2 J	6 U	5 U	5 U
CHLOROMETHANE	10 U	10 U	10 U	10 U	11 U	11 U	10 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
DIBROMOCHLOROMETHANE	3 J	5 U	5 U	5 U	6 U	5 U	5 U
ETHYLBENZENE	5 U	1 J	5 U	5 U	6 U	5 U	5 U
METHYLENE CHLORIDE	500 BE	11 B	8 B	3 JB	370 BE	730 BE	4 JB
STYRENE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
TOLUENE	5 B	14 B	11 B	5 U	6 U	5 JB	4 JB
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
TRICHLOROETHENE	2 J	5 U	5 U	5 U	6 U	5 U	5 U
VINYL ACETATE	10 U	10 U	10 U	10 U	11 U	11 U	10 U
VINYL CHLORIDE	10 U	10 U	10 U	10 U	11 U	11 U	10 U
XYLENE (TOTAL)	5 U	10	9	5 U	6 U	5 U	5 U
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,1,2-TRICHLOROETHANE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,2-DICHLOROETHANE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,2-DICHLOROETHANE-D4							
1,2-DICHLOROETHENE (TOTAL)	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,4-BROMOFLUOROBENZENE							
2-BUTANONE	10 U	10 U	10 U	10 U	11 U	11 U	10 U
2-HEXANONE	10 U	10 U	10 U	10 U	11 U	11 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	11 U	11 U	10 U
SURR 1(TOL) %RECOVERY	95	96	94	92	124 *	113	95
SURR 2(BFB) %RECOVERY	99	104	100	95	75	73 *	98
SURR 3(DCE) %RECOVERY	94	94	92	92	96	90	92

M/E 50

TABLE D.8.22 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON15

DRAFT DO NOT CITE

AREA

LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	TRIP BLANK	B145 DRUM	B145 DRUM	B31 TAP WA
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER		DRUM	DRUM	WELLS
SAMPLE NUMBER	AR500126A	AR500295A	AR500411A	ARN12016A	AR817015A	AR817026A	AR400012A
MATRIX	WATER	WATER	WATER	WATER	SOIL	SOIL	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/L
ENV PROBLEM NO	10	10	10	99	27	27	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)	3940000	3960000	3940000	3830000	2240000	3180000	3920000
INTERNAL STD AREA(CBZ)	1E+07	1E+07	1E+07	1E+07	4430000	5650000	1E+07
INTERNAL STD AREA(DFB)	2E+07	2E+07	2E+07	2E+07	9750000	1E+07	2E+07
DILUTION FACTOR	1	1	1	1	1.13	1.08	1
PERCENT MOISTURE					11.4	7.1	
ACTUAL(ALLOWED) HOLD TIME	6(14 D)	6(14 D)	6(14 D)	5(14 D)	6(14 D)	6(14 D)	5(14 D)
AREA		QA	QA	QA	QA		

LOCATION	B32 TAP WA	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	SAWMILL CR	SAWMILL CR
TYPE OF LOCATION	WELLS	CALIBRATION	CAL %D	SHIFT	BLANK	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR401013A	AR1115877	AR1115877	AR1115878	VBKON152	AR302024A	AR302035A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	UG/L	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO	7					2	2
ACETONE	0.7 JB	0.44	21		15	39 B	22 B
BENZENE	5 U	0.88 U	3.6 U		5 U	7 U	6 U
BROMODICHLOROMETHANE	5 U	0.46	3.6		5 U	7 U	6 U
BROMOFORM	5 U	0.23	37		5 U	7 U	6 U
BROMOMETHANE	10 U	1.4	145		10 U	13 U	12 U
CARBON DISULFIDE	0.9 J	4.1	8		5 U	7 U	6 U
CARBON TETRACHLORIDE	5 U	0.52	16		5 U	7 U	6 U

TABLE D.8.22 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON15 DRAFT DO NOT CITE

AREA		QA	QA	QA	QA		
LOCATION	B32 TAP WA	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	SAWMILL CR	SAWMILL CR
TYPE OF LOCATION	WELLS	CALIBRATION	CAL %D	SHIFT	BLANK	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR401013A	AR1115877	AR1115877	AR1115878	VBKON152	AR302024A	AR302035A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	UG/L	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO	7					2	2
CHLOROBENZENE	5 U	1.1	10		5 U	7 U	6 U
CHLOROETHANE	10 U	0.9	26		10 U	13 U	12 U
CHLOROFORM	5 U	3.2	22		5 U	7 U	6 U
CHLOROMETHANE	10 U	1.1	4		10 U	13 U	12 U
CIS-1,3-DICHLOROPROPENE	5 U	0.27	16		5 U	7 U	6 U
DIBROMOCHLOROMETHANE	5 U	0.35	18		5 U	7 U	6 U
ETHYLBENZENE	5 U	0.56	9.9		5 U	7 U	6 U
METHYLENE CHLORIDE	2 JB	1.6	13		2 J	3 JB	620 BE
STYRENE	5 U	1.1	4.1		5 U	7 U	6 U
TETRACHLOROETHENE	5 U				5 U	7 U	6 U
TOLUENE	10 B	0.85 U	5.8 U		0.9 J	7 U	6 U
TOLUENE-D8		1.1	1.6				
TRANS-1,3-DICHLOROPROPENE	5 U	0.59	8.7		5 U	7 U	6 U
TRICHLOROETHENE	5 U	0.39 U	10 U		5 U	7 U	6 U
VINYL ACETATE	10 U	0.3	17		10 U	13 U	12 U
VINYL CHLORIDE	10 U	1.4	38		10 U	13 U	12 U
XYLENE (TOTAL)	5 U	0.63	5.8		5 U	7 U	6 U
1,1-DICHLOROETHANE	5 U	2.7	12		5 U	7 U	6 U
1,1-DICHLOROETHENE	5 U	1.5 U	28 U		5 U	7 U	6 U
1,1,1-TRICHLOROETHANE	5 U	0.52	9.8		5 U	7 U	6 U
1,1,2-TRICHLOROETHANE	5 U	0.21	20		2 J	7 U	6 U
1,1,2,2-TETRACHLOROETHANE	5 U	0.33	36		1 J	7 U	6 U
1,2-DICHLOROETHANE	5 U	2.2	0.8		1 J	7 U	6 U
1,2-DICHLOROETHANE-D4		1.7	8.7				
1,2-DICHLOROETHENE (TOTAL)	5 U	1.7	27		5 U	7 U	6 U
1,2-DICHLOROPROPANE	5 U	0.25	16		5 U	7 U	6 U
1,4-BROMOFLUOROBENZENE		0.55	17				
2-BUTANONE	10 U	0.019	39		10 U	13 U	12 U
2-HEXANONE	10 U	0.16	40		10 U	13 U	12 U
4-METHYL-2-PENTANONE	10 U	0.18	53		10 U	13 U	12 U
SURR 1(TOL) %RECOVERY	97				98	114	103
SURR 2(BFB) %RECOVERY	94				88	81	75
SURR 3(DCE) %RECOVERY	92				97	96	91

M/E 50
M/E 75
M/E 95
M/E 96

TABLE D.8.22 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON15

DRAFT DO NOT CITE

AREA		QA	QA	QA	QA		
LOCATION	B32 TAP WA	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	SAWMILL CR	SAWMILL CR
TYPE OF LOCATION	WELLS	CALIBRATION	CAL %D	SHIFT	BLANK	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR401013A	AR1115877	AR1115877	AR1115878	VBKON152	AR302024A	AR302035A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	UG/L	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO	7					2	2
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)	4430000			3770000	4370000	3320000	3490000
INTERNAL STD AREA(CBZ)	2E+07			2E+07	2E+07	1E+07	1E+07
INTERNAL STD AREA(DFB)	2E+07			2E+07	2E+07	2E+07	2E+07
DILUTION FACTOR	1				1	1.34	1.23
PERCENT MOISTURE						25.4	18.5
ACTUAL(ALLOWED) HOLD TIME	5(14 D)					11(14 D)	11(14 D)

AREA	QA	QA	QA	QA	QA		
LOCATION	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %		
TYPE OF LOCATION	SPIKE	RECOVERY		DUPLICATE	RECOVERY		
SAMPLE NUMBER	AR308020A	AR308020A	AR308020A	AR308020A	AR308020A		
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL		
UNITS	UG/KG	%	%	UG/KG	%		
ENV PROBLEM NO	4	4	4	4	4		
ACETONE	26 B			36 B			
BENZENE	92 U	104	1	91 U	102		
BROMODICHLOROMETHANE	7 U			7 U			
BROMOFORM	7 U			7 U			
BROMOMETHANE	15 U			15 U			
CARBON DISULFIDE	7 U			7 U			
CARBON TETRACHLORIDE	7 U			7 U			
CHLOROBENZENE	100 MS	106	3	97 MS	102		
CHLOROETHANE	15 U			15 U			
CHLOROFORM	7 U			7 U			

TABLE D.8.22 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON15 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA
LOCATION	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %
TYPE OF LOCATION	SPIKE	RECOVERY		DUPLICATE	RECOVERY
SAMPLE NUMBER	AR308020A	AR308020A	AR308020A	AR308020A	AR308020A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	%	%	UG/KG	%
ENV PROBLEM NO	4	4	4	4	4
CHLOROMETHANE	15 U			15 U	
CIS-1,3-DICHLOROPROPENE	7 U			7 U	
DIBROMOCHLOROMETHANE	7 U			7 U	
ETHYLBENZENE	7 U			7 U	
METHYLENE CHLORIDE	29 B			21 B	
STYRENE	7 U			7 U	
TETRACHLOROETHENE	94			58	
TOLUENE	130 U	130	7	120 U	121
TOLUENE-D8					
TRANS-1,3-DICHLOROPROPENE	7 U			7 U	
TRICHLOROETHENE	100 U	99	0	100 U	99
VINYL ACETATE	15 U			15 U	
VINYL CHLORIDE	15 U			15 U	
XYLENE (TOTAL)	7 U			7 U	
1,1-DICHLOROETHANE	7 U			7 U	
1,1-DICHLOROETHENE	120 U	127	3	110 U	123
1,1,1-TRICHLOROETHANE	7 U			7 U	
1,1,2-TRICHLOROETHANE	7 U			7 U	
1,1,2,2-TETRACHLOROETHANE	7 U			7 U	
1,2-DICHLOROETHANE	7 U			7 U	
1,2-DICHLOROETHANE-D4					
1,2-DICHLOROETHENE (TOTAL)	7 U			7 U	
1,2-DICHLOROPROPANE	7 U			7 U	
1,4-BROMOFLUOROBENZENE					
2-BUTANONE	15 U			15 U	
2-HEXANONE	15 U			15 U	
4-METHYL-2-PENTANONE	15 U			15 U	
SURR 1(TOL) %RECOVERY	127 *			121 *	
SURR 2(BFB) %RECOVERY	61 *			64 *	
SURR 3(DCE) %RECOVERY	93			94	
M/E 50					
M/E 75					
M/E 95					
M/E 96					
M/E 173-1					
M/E 173-2					
M/E 174					

TABLE D.8.22 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON15

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA
LOCATION	MATRIX	MS %	RPD	MATRIX SPIKE	MSD %
TYPE OF LOCATION	SPIKE	RECOVERY		DUPLICATE	RECOVERY
SAMPLE NUMBER	AR308020A	AR308020A	AR308020A	AR308020A	AR308020A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	%	%	UG/KG	%
ENV PROBLEM NO	4	4	4	4	4
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)	2920000			2870000	
INTERNAL STD AREA(CBZ)	5840000			6840000	
INTERNAL STD AREA(DFB)	1E+07			1E+07	
DILUTION FACTOR	1.47			1.47	
PERCENT MOISTURE	31.9			31.9	
ACTUAL(ALLOWED) HOLD TIME	12(14 D)			12(14 D)	

TABLE D.8.23 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON16

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	319 LANDF	319 LANDF
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	STREAM	STREAM
SAMPLE NUMBER	AR1116875	AR1116877	AR1116877	AR1116878	VBKON16	AR800016A	AR800027A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						17	17
ACETONE		0.696	24.1		12	11 JB	20 B
BENZENE		0.875	4.5		5 U	6 U	6 U
BROMODICHLOROMETHANE		0.497	3.1		5 U	6 U	6 U
BROMOFORM		0.335	7.7		5 U	6 U	6 U
BROMOMETHANE		1.054	82.6		10 U	12 U	12 U
CARBON DISULFIDE		3.467	8.2		5 U	6 U	6 U
CARBON TETRACHLORIDE		0.496	10.7		5 U	6 U	6 U
CHLOROBENZENE		1.057	8		5 U	6 U	6 U
CHLOROETHANE		0.752	6		10 U	12 U	12 U
CHLOROFORM		2.886	9.1		5 U	6 U	6 U
CHLOROMETHANE		0.908	18		10 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE		0.336	6		5 U	6 U	6 U
DIBROMOCHLOROMETHANE		0.419	1.7		5 U	6 U	6 U
ETHYLBENZENE		0.539	5.7		5 U	6 U	6 U
METHYLENE CHLORIDE		1.436	2.1		2 J	460 BE	270 BE
STYRENE		1.075	5.3		5 U	6 U	6 U
TETRACHLOROETHENE		0.479	4.8		5 U	6 U	6 U
TOLUENE		0.827	3.6		0.9 J	6 U	6 U
TOLUENE-D8		1.099	1.4				
TRANS-1,3-DICHLOROPROPENE		0.645	0		5 U	6 U	6 U
TRICHLOROETHENE		0.379	7.3		5 U	6 U	6 U
VINYL ACETATE		0.46	25.4		10 U	12 U	12 U
VINYL CHLORIDE		1.096	12		10 U	12 U	12 U
XYLENE (TOTAL)		0.623	4.1		5 U	6 U	6 U
1,1-DICHLOROETHANE		2.333	4.4		5 U	6 U	6 U
1,1-DICHLOROETHENE		1.252	9.1		5 U	6 U	6 U
1,1,1-TRICHLOROETHANE		0.489	4		5 U	6 U	6 U
1,1,2-TRICHLOROETHANE		0.271	2		5 U	6 U	6 U
1,1,2,2-TETRACHLOROETHANE		0.5	3.4		5 U	6 U	6 U
1,2-DICHLOROETHANE		2.346	3.7		5 U	6 U	6 U
1,2-DICHLOROETHANE-D4		1.81	2				
1,2-DICHLOROETHENE (TOTAL)		1.441	9.6		5 U	6 U	6 U
1,2-DICHLOROPROPANE		0.259	13.4		5 U	6 U	6 U
1,4-BROMOFLUOROBENZENE		0.572	13.6				
2-BUTANONE		0.033	7.5		10 U	12 U	12 U
2-HEXANONE		0.244	11.2		10 U	12 U	12 U
4-METHYL-2-PENTANONE		0.305	22.4		10 U	12 U	12 U
SURR 1(TOL) %RECOVERY					100	106	109

TABLE D.8.23 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON16

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	319 LANDF	319 LANDF
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	STREAM	STREAM
SAMPLE NUMBER	AR1116875	AR1116877	AR1116877	AR1116878	VBKON16	AR800016A	AR800027A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						17	17
SURR 2(BFB) %RECOVERY					103	94	99
SURR 3(DCE) %RECOVERY					95	96	101
M/E 50	19						
M/E 75	53						
M/E 95	100						
M/E 96	7.5						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	96						
M/E 175-1	8						
M/E 175-2	8.3						
M/E 176-1	95						
M/E 176-2	95						
M/E 177-1	5.8						
M/E 177-2	6.1						
INTERNAL STD AREA(BCM)				4070000	4080000	3790000	3470000
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	1.3	1.2
PERCENT MOISTURE						18.6	18.7
ACTUAL(ALLOWED) HOLD TIME						10(14 D)	10(14 D)

AREA					QA	QA	QA
LOCATION	319 LANDF	319 LANDF	319 LANDF	319 LANDF	MATRIX	MS %	RPD
TYPE OF LOCATION	STREAM	STREAM	STREAM	STREAM	SPIKE	RECOVERY	
SAMPLE NUMBER	AR800038A	AR800049A	AR800050A	AR800061A	AR800061A	AR800061A	AR800061A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	17	17	17	17	17	17	17
ACETONE	29 B	11 JB	35 B	10 JB	15 B		
BENZENE	7 U	6 U	7 U	6 U	81 U	107	2
BROMODICHLOROMETHANE	7 U	6 U	7 U	6 U	6 U		

TABLE D.8.23 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON16 DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	319 LANDF	319 LANDF	319 LANDF	319 LANDF	MATRIX	MS %	RPD
TYPE OF LOCATION	STREAM	STREAM	STREAM	STREAM	SPIKE	RECOVERY	
SAMPLE NUMBER	AR800038A	AR800049A	AR800050A	AR800061A	AR800061A	AR800061A	AR800061A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	17	17	17	17	17	17	17
BROMOFORM	7 U	6 U	7 U	6 U	6 U		
BROMOMETHANE	14 U	12 U	14 U	13 U	13 U		
CARBON DISULFIDE	1 J	6 U	2 J	2 J	2 J		
CARBON TETRACHLORIDE	7 U	6 U	7 U	6 U	6 U		
CHLOROBENZENE	7 U	6 U	7 U	6 U	81 MS	100	0
CHLOROETHANE	14 U	12 U	14 U	13 U	13 U		
CHLOROFORM	7 U	6 U	7 U	6 U	6 U		
CHLOROMETHANE	14 U	12 U	14 U	13 U	13 U		
CIS-1,3-DICHLOROPROPENE	7 U	6 U	7 U	6 U	6 U		
DIBROMOCHLOROMETHANE	7 U	6 U	7 U	6 U	6 U		
ETHYLBENZENE	7 U	6 U	7 U	6 U	6 U		
METHYLENE CHLORIDE	780 BE	22 B	770 BE	110 B	86 B		
STYRENE	7 U	6 U	7 U	6 U	6 U		
TETRACHLOROETHENE	7 U	6 U	7 U	6 U	6 U		
TOLUENE	7 U	6 U	2 JB	2 JB	88 U	102	4
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	7 U	6 U	7 U	6 U	6 U		
TRICHLOROETHENE	7 U	6 U	7 U	6 U	91 U	102	1
VINYL ACETATE	14 U	12 U	14 U	13 U	13 U		
VINYL CHLORIDE	14 U	12 U	14 U	13 U	13 U		
XYLENE (TOTAL)	7 U	6 U	7 U	6 U	6 U		
1,1-DICHLOROETHANE	7 U	6 U	7 U	6 U	6 U		
1,1-DICHLOROETHENE	7 U	6 U	7 U	6 U	100 U	129	0
1,1,1-TRICHLOROETHANE	7 U	6 U	7 U	6 U	6 U		
1,1,2-TRICHLOROETHANE	7 U	6 U	7 U	6 U	6 U		
1,1,2,2-TETRACHLOROETHANE	7 U	6 U	7 U	6 U	6 U		
1,2-DICHLOROETHANE	7 U	6 U	7 U	6 U	6 U		
1,2-DICHLOROETHANE-D4							
1,2-DICHLOROETHENE (TOTAL)	7 U	6 U	7 U	6 U	6 U		
1,2-DICHLOROPROPANE	7 U	6 U	7 U	6 U	6 U		
1,4-BROMOFLUOROBENZENE							
2-BUTANONE	14 U	12 U	14 U	13 U	13 U		
2-HEXANONE	14 U	12 U	14 U	13 U	13 U		
4-METHYL-2-PENTANONE	14 U	12 U	14 U	13 U	13 U		
SURR 1(TOL) %RECOVERY	103	97	111	90	108		
SURR 2(BFB) %RECOVERY	97	98	95	95	93		
SURR 3(DCE) %RECOVERY	100	99	107	99	101		

M/E 50

TABLE D.8.23 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON16 DRAFT DO NOT CITE

AREA					QA	QA	QA
LOCATION	319 LANDF	319 LANDF	319 LANDF	319 LANDF	MATRIX	MS %	RPD
TYPE OF LOCATION	STREAM	STREAM	STREAM	STREAM	SPIKE	RECOVERY	
SAMPLE NUMBER	AR800038A	AR800049A	AR800050A	AR800061A	AR800061A	AR800061A	AR800061A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	%	%
ENV PROBLEM NO	17	17	17	17	17	17	17
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	3790000	3140000	3410000	3200000		
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	2E+07		
DILUTION FACTOR	1.4	1.2	1.4	1.3	1.3		
PERCENT MOISTURE	26.3	14.4	30.8	20.5	20.5		
ACTUAL(ALLOWED) HOLD TIME	10(14 D)	10(14 D)	11(14 D)	11(14 D)	11(14 D)		

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR800061A	AR800061A
MATRIX	SOIL	SOIL
UNITS	UG/KG	%
ENV PROBLEM NO	17	17
ACETONE	18 B	
BENZENE	84 U	110
BROMODICHLOROMETHANE	6 U	
BROMOFORM	6 U	
BROMOMETHANE	13 U	
CARBON DISULFIDE	2 J	
CARBON TETRACHLORIDE	6 U	

TABLE D.8.23 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON16

DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR800061A	AR800061A
MATRIX	SOIL	SOIL
UNITS	UG/KG	%
ENV PROBLEM NO	17	17
CHLOROBENZENE	81 MS	100
CHLOROETHANE	13 U	
CHLOROFORM	6 U	
CHLOROMETHANE	13 U	
CIS-1,3-DICHLOROPROPENE	6 U	
DIBROMOCHLOROMETHANE	6 U	
ETHYLBENZENE	6 U	
METHYLENE CHLORIDE	85 B	
STYRENE	6 U	
TETRACHLOROETHENE	6 U	
TOLUENE	92 U	107
TOLUENE-D8		
TRANS-1,3-DICHLOROPROPENE	6 U	
TRICHLOROETHENE	92 U	104
VINYL ACETATE	13 U	
VINYL CHLORIDE	13 U	
XYLENE (TOTAL)	6 U	
1,1-DICHLOROETHANE	6 U	
1,1-DICHLOROETHENE	100 U	130
1,1,1-TRICHLOROETHANE	6 U	
1,1,2-TRICHLOROETHANE	6 U	
1,1,2,2-TETRACHLOROETHANE	6 U	
1,2-DICHLOROETHANE	6 U	
1,2-DICHLOROETHANE-D4		
1,2-DICHLOROETHENE (TOTAL)	6 U	
1,2-DICHLOROPROPANE	6 U	
1,4-BROMOFLUOROBENZENE		
2-BUTANONE	13 U	
2-HEXANONE	13 U	
4-METHYL-2-PENTANONE	13 U	
SURR 1(TOL) %RECOVERY	110	
SURR 2(BFB) %RECOVERY	92	
SURR 3(DCE) %RECOVERY	98	
M/E 50		
M/E 75		
M/E 95		
M/E 96		

TABLE D.8.23 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON16

DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR800061A	AR800061A
MATRIX	SOIL	SOIL
UNITS	UG/KG	%
ENV PROBLEM NO	17	17
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)	3300000	
INTERNAL STD AREA(CBZ)	1E+07	
INTERNAL STD AREA(DFB)	2E+07	
DILUTION FACTOR	1.3	
PERCENT MOISTURE	20.5	
ACTUAL(ALLOWED) HOLD TIME	11(14 D)	

TABLE D.8.24 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON17

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED CALIBRATION	CONTINUING CALIBRATION	CONTINUING CAL %D	ISTD RET TIM SHIFT	METHOD BLANK	PLOT M SEEP	PLOT M SEEP
TYPE OF LOCATION	AR1117875	AR1117877	AR1117877	AR1117878	VBKON17	AR819017A	AR819028A
SAMPLE NUMBER	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
MATRIX	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
UNITS						28	28
ENV PROBLEM NO							
ACETONE		0.696	24.1		14	14 JB	11 JB
BENZENE		0.933	1.8		5 U	7 U	7 U
BROMODICHLOROMETHANE		0.545	13		5 U	7 U	7 U
BROMOFORM		0.393	8.4		5 U	7 U	7 U
BROMOMETHANE		1.054	82.6		10 U	15 U	14 U
CARBON DISULFIDE		3.467	8.2		5 U	7 U	7 U
CARBON TETRACHLORIDE		0.522	16.5		5 U	7 U	7 U
CHLOROBENZENE		1.061	8.4		5 U	7 U	7 U
CHLOROETHANE		0.752	6		10 U	15 U	14 U
CHLOROFORM		2.886	9		5 U	7 U	7 U
CHLOROMETHANE		0.908	18		10 U	15 U	14 U
CIS-1,3-DICHLOROPROPENE		0.343	8.1		5 U	7 U	7 U
DIBROMOCHLOROMETHANE		0.469	9.9		5 U	7 U	7 U
ETHYLBENZENE		0.559	9.5		5 U	7 U	7 U
METHYLENE CHLORIDE		1.436	2.1		2 J	970 BE	7 JB
STYRENE		1.085	6.3		5 U	7 U	7 U
TETRACHLOROETHENE		0.482	5.3		5 U	7 U	7 U
TOLUENE		0.845	5.8		1 J	7 U	7 U
TOLUENE-D8		1.102	1.1				
TRANS-1,3-DICHLOROPROPENE		0.665	3		5 U	7 U	7 U
TRICHLOROETHENE		0.405	14.8		5 U	7 U	7 U
VINYL ACETATE		0.5	36.2		10 U	15 U	14 U
VINYL CHLORIDE		1.096	12		10 U	15 U	14 U
XYLENE (TOTAL)		0.642	7.3		5 U	7 U	7 U
1,1-DICHLOROETHANE		2.333	4.5		5 U	7 U	7 U
1,1-DICHLOROETHENE		1.252	9.1		5 U	7 U	7 U
1,1,1-TRICHLOROETHANE		0.529	12.6		5 U	7 U	7 U
1,1,2-TRICHLOROETHANE		0.315	18.6		5 U	7 U	7 U
1,1,2,2-TETRACHLOROETHANE		0.578	11.6		5 U	7 U	7 U
1,2-DICHLOROETHANE		2.346	3.7		5 U	7 U	7 U
1,2-DICHLOROETHANE-D4		1.81	2		5 U	7 U	7 U
1,2-DICHLOROETHENE (TOTAL)		1.441	9.7				
1,2-DICHLOROPROPANE		0.266	11.3		5 U	7 U	7 U
1,4-BROMOFLUOROBENZENE		0.588	11.1		5 U	7 U	7 U
2-BUTANONE		0.04	31				
2-HEXANONE		0.276	0.4		10 U	15 U	14 U
4-METHYL-2-PENTANONE		0.366	6.8		10 U	15 U	14 U
					10 U	15 U	14 U
SURR 1(TOL) %RECOVERY					100	118 *	107

TABLE D.8.24 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON17 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	PLOT M	PLOT M
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	SEEP	SEEP
SAMPLE NUMBER	AR1117875	AR1117877	AR1117877	AR1117878	VBKON17	AR819017A	AR819028A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						28	28
SURR 2(BFB) %RECOVERY					102	90	85
SURR 3(DCE) %RECOVERY					97	94	91
M/E 50	18						
M/E 75	54						
M/E 95	100						
M/E 96	8.5						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	89						
M/E 175-1	6.9						
M/E 175-2	7.8						
M/E 176-1	86						
M/E 176-2	96						
M/E 177-1	6.1						
M/E 177-2	7.1						
INTERNAL STD AREA(BCM)					3920000	3160000	3230000
INTERNAL STD AREA(CBZ)				2E+07	2E+07	8290000	8330000
INTERNAL STD AREA(DFB)				2E+07	2E+07	1E+07	1E+07
DILUTION FACTOR					1	1.5	1.4
PERCENT MOISTURE						32	29
ACTUAL(ALLOWED) HOLD TIME						13(14 D)	13(14 D)

AREA						
LOCATION	REANALYSIS	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW
TYPE OF LOCATION		BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR819039A	AR802030A	AR802041A	AR802052A	AR802063A	AR802074A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	28	17	17	17	17	17
ACETONE	7 JB	5 JB	18 B	14 B	17 B	11 JB
BENZENE	7 U	8 U	7 U	7 U	7 U	6 U
BROMODICHLOROMETHANE	7 U	8 U	7 U	7 U	7 U	6 U

TABLE D.8.24 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON17 DRAFT DO NOT CITE

AREA

LOCATION	REANALYSIS	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW
TYPE OF LOCATION		BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR819039A	AR802030A	AR802041A	AR802052A	AR802063A	AR802074A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	28	17	17	17	17	17
BROMOFORM	7 U	8 U	7 U	7 U	7 U	6 U
BROMOMETHANE	15 U	15 U	13 U	13 U	13 U	12 U
CARBON DISULFIDE	7 U	8 U	7 U	7 U	7 U	6 U
CARBON TETRACHLORIDE	7 U	8 U	7 U	7 U	7 U	6 U
CHLOROBENZENE	7 U	8 U	7 U	7 U	7 U	6 U
CHLOROETHANE	15 U	15 U	13 U	13 U	13 U	12 U
CHLOROFORM	7 U	8 U	7 U	7 U	7 U	6 U
CHLOROMETHANE	15 U	15 U	13 U	13 U	13 U	12 U
CIS-1,3-DICHLOROPROPENE	7 U	8 U	7 U	7 U	7 U	6 U
DIBROMOCHLOROMETHANE	7 U	8 U	7 U	7 U	7 U	6 U
ETHYLBENZENE	7 U	8 U	7 U	7 U	7 U	6 U
METHYLENE CHLORIDE	2300 BE	1500 BE	550 BE	980 BE	1100 BE	360 BE
STYRENE	7 U	8 U	7 U	7 U	7 U	6 U
TETRACHLOROETHENE	7 U	8 U	7 U	7 U	7 U	6 U
TOLUENE	7 U	8 U	7 U	2 JB	2 JB	6 U
TOLUENE-D8						
TRANS-1,3-DICHLOROPROPENE	7 U	8 U	7 U	7 U	7 U	6 U
TRICHLOROETHENE	7 U	8 U	7 U	7 U	7 U	6 U
VINYL ACETATE	15 U	15 U	13 U	13 U	13 U	12 U
VINYL CHLORIDE	15 U	15 U	13 U	13 U	13 U	12 U
XYLENE (TOTAL)	7 U	8 U	7 U	7 U	7 U	6 U
1,1-DICHLOROETHANE	7 U	8 U	7 U	7 U	7 U	6 U
1,1-DICHLOROETHENE	7 U	8 U	7 U	7 U	7 U	6 U
1,1,1-TRICHLOROETHANE	7 U	8 U	7 U	7 U	7 U	6 U
1,1,2-TRICHLOROETHANE	7 U	8 U	7 U	7 U	7 U	6 U
1,1,2,2-TETRACHLOROETHANE	7 U	8 U	7 U	7 U	7 U	6 U
1,2-DICHLOROETHANE	7 U	8 U	7 U	7 U	7 U	6 U
1,2-DICHLOROETHANE-D4						
1,2-DICHLOROETHENE (TOTAL)	7 U	8 U	7 U	7 U	7 U	6 U
1,2-DICHLOROPROPANE	7 U	8 U	7 U	7 U	7 U	6 U
1,4-BROMOFLUOROBENZENE						
2-BUTANONE	15 U	15 U	13 U	13 U	13 U	12 U
2-HEXANONE	15 U	15 U	13 U	13 U	13 U	12 U
4-METHYL-2-PENTANONE	15 U	15 U	13 U	13 U	13 U	12 U
SURR 1(TOL) %RECOVERY	111	111	95	97	102	93
SURR 2(BFB) %RECOVERY	81	75	80	86	81	86
SURR 3(DCE) %RECOVERY	94	95	95	96	95	97

M/E 50

TABLE D.8.24 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON17 DRAFT DO NOT CITE

AREA

LOCATION	REANALYSIS	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW	319 LDF-NW
TYPE OF LOCATION		BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR819039A	AR802030A	AR802041A	AR802052A	AR802063A	AR802074A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	28	17	17	17	17	17
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)	2910000	3110000	3150000	3340000	3270000	3560000
INTERNAL STD AREA(CBZ)	6380000	7510000	8830000	9990000	9070000	1E+07
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	2E+07	1E+07	2E+07
DILUTION FACTOR	1.5	1.5	1.3	1.3	1.3	1.2
PERCENT MOISTURE	31	34	25.4	22.1	25.7	19.5
ACTUAL(ALLOWED) HOLD TIME	13(14 D)	8(14 D)	8(14 D)	8(14 D)	9(14 D)	9(14 D)

TABLE D.8.25 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON19 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	319 LDF-NW	319 LDF-NW
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR1119875	AR1119877	AR1119877	AR1119878	VBKON19	AR802085A	AR802096A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						17	17
ACETONE		0.73	30.1		12	21 B	21 B
BENZENE		0.854	6.9		5 U	6 U	6 U
BROMODICHLOROMETHANE		0.477	1.1		5 U	6 U	6 U
BROMOFORM		0.336	7.4		5 U	6 U	6 U
BROMOMETHANE		0.933	61.7		10 U	13 U	13 U
CARBON DISULFIDE		3.037	19.5		5 U	6 U	6 U
CARBON TETRACHLORIDE		0.477	6.4		5 U	6 U	6 U
CHLOROBENZENE		1.021	4.3		5 U	6 U	6 U
CHLOROETHANE		0.658	7.3		10 U	13 U	13 U
CHLOROFORM		2.745	3.7		5 U	6 U	6 U
CHLOROMETHANE		0.684	38.2		10 U	13 U	13 U
CIS-1,3-DICHLOROPROPENE		0.328	3.6		5 U	6 U	6 U
DIBROMOCHLOROMETHANE		0.418	2.1		5 U	6 U	6 U
ETHYLBENZENE		0.572	12.1		4 J	6 JB	6 JB
METHYLENE CHLORIDE		1.343	4.6		2 J	1200 BE	1200 BE
STYRENE		1.033	1.2		5 U	6 U	6 U
TETRACHLOROETHENE		0.459	0.2		5 U	6 U	6 U
TOLUENE		0.79	1		0.9 J	2 JB	2 JB
TOLUENE-D8		0.861	22.7				
TRANS-1,3-DICHLOROPROPENE		0.614	4.8		5 U	6 U	6 U
TRICHLOROETHENE		0.373	5.5		5 U	6 U	6 U
VINYL ACETATE		0.393	7.1		10 U	13 U	13 U
VINYL CHLORIDE		0.872	10.8		10 U	13 U	13 U
XYLENE (TOTAL)		0.608	1.6		5 U	6 U	6 U
1,1-DICHLOROETHANE		2.205	9.7		5 U	6 U	6 U
1,1-DICHLOROETHENE		1.151	0.3		5 U	6 U	6 U
1,1,1-TRICHLOROETHANE		0.477	1.6		5 U	6 U	6 U
1,1,2-TRICHLOROETHANE		0.275	3.4		5 U	6 U	6 U
1,1,2,2-TETRACHLOROETHANE		0.49	5.4		5 U	6 U	6 U
1,2-DICHLOROETHANE		2.22	1.9		5 U	6 U	6 U
1,2-DICHLOROETHANE-D4		1.432	22.4				
1,2-DICHLOROETHENE (TOTAL)		1.333	1.4		5 U	6 U	6 U
1,2-DICHLOROPROPANE		0.253	15.7		5 U	6 U	6 U
1,4-BROMOFLUOROBENZENE		0.487	26.3				
2-BUTANONE		0.034	8.8		10 U	13 U	13 U
2-HEXANONE		0.273	0.8		10 U	13 U	13 U
4-METHYL-2-PENTANONE		0.304	22.5		10 U	13 U	13 U
SURR 1(TOL) %RECOVERY					125 *	131 *	132 *

TABLE D.8.25 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON19 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	319 LDF-NW	319 LDF-NW
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	BACKGROUND	BACKGROUND
SAMPLE NUMBER	AR1119875	AR1119877	AR1119877	AR1119878	VBKON19	AR802085A	AR802096A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						17	17
SURR 2(BFB) %RECOVERY					126 *	108	112
SURR 3(DCE) %RECOVERY					121 *	122 *	117
M/E 50	19						
M/E 75	51						
M/E 95	100						
M/E 96	8.9						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	93						
M/E 175-1	7						
M/E 175-2	7.5						
M/E 176-1	90						
M/E 176-2	96						
M/E 177-1	7.7						
M/E 177-2	8.7						
INTERNAL STD AREA(BCM)				3900000	3820000	3470000	3510000
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	1.26	1.29
PERCENT MOISTURE						20.5	22.4
ACTUAL(ALLOWED) HOLD TIME						10(14 D)	10(14 D)

AREA							
LOCATION	NPDESOUTF1	NPDES10WTP	DRYING BED			RET. TANKS	
TYPE OF LOCATION	EFFLUENT	DISCHARGES	SLUDGE	TRIP BLANK	TRIP BLANK	WASTEWATER	
SAMPLE NUMBER	AR300022A	AR311025A	AR501070A	ARN21017A	ARN24010A	AR500240A	
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
ENV PROBLEM NO	1	6	11	99	99	10	
ACETONE	64 B	99 B	12 B	2 JB	5 JB	2700 BE	
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.8.25 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON19 DRAFT DO NOT CITE

AREA

LOCATION	NPDESOUTF1	NPDES10WTP	DRYING BED	TRIP BLANK	TRIP BLANK	RET. TANKS
TYPE OF LOCATION	EFFLUENT	DISCHARGES	SLUDGE	ARN21017A	ARN24010A	WASTEWATER
SAMPLE NUMBER	AR300022A	AR311025A	AR501070A	WATER	WATER	AR500240A
MATRIX	WATER	WATER	WATER	UG/L	UG/L	WATER
UNITS	UG/L	UG/L	UG/L	99	99	UG/L
ENV PROBLEM NO	1	6	11			10
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	5 U	5 U	5 U	0.9 J	5 U	5 U
CARBON TETRACHLORIDE	5 U	2 J	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	10 U	10 U	10 U	10 U
CHLOROFORM	4 J	6	5 U	2 J	2 J	3 J
CHLOROMETHANE	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
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	4 JB	4 JB	3 JB	5 U	2 JB	2 JB
METHYLENE CHLORIDE	44 B	54 B	4 JB	19 B	5 JB	88 B
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	6 B	13 B	6 B	0.9 JB	1 B	8 B
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	9
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)	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	2 J	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 (TOTAL)	5 U	5 U	5 U	5 U	5 U	9
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE						
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	125 *	126 *	120 *	121 *	122 *	121 *
SURR 2(BFB) %RECOVERY	119 *	120 *	115	120 *	116 *	124 *
SURR 3(DCE) %RECOVERY	122 *	125 *	120 *	121 *	122 *	122 *

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TABLE D.8.25 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON19 DRAFT DO NOT CITE

AREA

LOCATION	NPDESOUTF1	NPDES10WTP	DRYING BED			RET. TANKS
TYPE OF LOCATION	EFFLUENT	DISCHARGES	SLUDGE	TRIP BLANK	TRIP BLANK	WASTEWATER
SAMPLE NUMBER	AR300022A	AR311025A	AR501070A	ARN21017A	ARN24010A	AR500240A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	1	6	11	99	99	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)	3770000	3770000	3910000	4050000	3760000	3840000
INTERNAL STD AREA(CBZ)	2E+07	2E+07	2E+07	2E+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	9(14 D)	9(14 D)	8(14 D)	7(14 D)	7(14 D)	8(14 D)

TABLE D.8.26 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON20 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	SAWMILL CR	B815 SEWER
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	BACKGROUND	DRAINAGE
SAMPLE NUMBER	AR1120875	AR1120877	AR1120877	AR1120878	VBKON20	AR302013A	AR310013A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						2	5
ACETONE		0.847	51		10	13 JB	12 JB
BENZENE		0.931	1.6		5 U	7 U	7 U
BROMODICHLOROMETHANE		0.53	10		5 U	7 U	7 U
BROMOFORM		0.388	7		5 U	7 U	7 U
BROMOMETHANE		1.008	74.6		10 U	14 U	13 U
CARBON DISULFIDE		3.27	13.4		5 U	7 U	7 U
CARBON TETRACHLORIDE		0.518	15.5		5 U	7 U	7 U
CHLOROBENZENE		1.102	12.6		5 U	7 U	7 U
CHLOROETHANE		0.713	0.4		10 U	14 U	13 U
CHLOROFORM		3.056	15.5		5 U	7 U	7 U
CHLOROMETHANE		0.679	38.7		10 U	14 U	13 U
CIS-1,3-DICHLOROPROPENE		0.366	15.4		5 U	7 U	7 U
DIBROMOCHLOROMETHANE		0.467	9.6		5 U	7 U	7 U
ETHYLBENZENE		0.577	13.2		5 U	7 J	6 J
METHYLENE CHLORIDE		1.524	8.3		4 J	7 B	9 B
STYRENE		1.122	9.9		5 U	7 U	7 U
TETRACHLOROETHENE		0.503	10		5 U	7 U	7 U
TOLUENE		0.86	7.7		0.9 JB	1 JB	1 JB
TOLUENE-D8		1.088	2.4				
TRANS-1,3-DICHLOROPROPENE		0.686	6.4		5 U	7 U	7 U
TRICHLOROETHENE		0.415	17.5		5 U	7 U	7 U
VINYL ACETATE		0.446	21.5		10 U	14 U	13 U
VINYL CHLORIDE		0.923	5.6		10 U	14 U	13 U
XYLENE (TOTAL)		0.665	11		5 U	9	9
1,1-DICHLOROETHANE		2.457	0.6		5 U	7 U	7 U
1,1-DICHLOROETHENE		1.258	9.6		5 U	7 U	7 U
1,1,1-TRICHLOROETHANE		0.523	11.3		5 U	7 U	7 U
1,1,2-TRICHLOROETHANE		0.306	14.9		5 U	7 U	7 U
1,1,2,2-TETRACHLOROETHANE		0.555	7.3		5 U	7 U	7 U
1,2-DICHLOROETHANE		2.522	11.5		5 U	7 U	7 U
1,2-DICHLOROETHANE-D4		1.853	0.4				
1,2-DICHLOROETHENE (TOTAL)		1.47	11.9		5 U	7 U	7 U
1,2-DICHLOROPROPANE		0.279	7		5 U	7 U	7 U
1,4-BROMOFLUOROBENZENE		0.62	6.3				
2-BUTANONE		0.038	23.2		10 U	14 U	13 U
2-HEXANONE		0.269	2.3		10 U	14 U	13 U
4-METHYL-2-PENTANONE		0.348	11.5		10 U	14 U	13 U
SURR 1(TOL) %RECOVERY					97	98	95

TABLE D.8.26 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON20 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	SAWMILL CR	B815 SEWER
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	BACKGROUND	DRAINAGE
SAMPLE NUMBER	AR1120875	AR1120877	AR1120877	AR1120878	VBKON20	AR302013A	AR310013A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						2	5
SURR 2(BFB) %RECOVERY					92	96	93
SURR 3(DCE) %RECOVERY					93	95	97
M/E 50	19						
M/E 75	49						
M/E 95	100						
M/E 96	7.2						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	87						
M/E 175-1	7.2						
M/E 175-2	8.2						
M/E 176-1	85						
M/E 176-2	97						
M/E 177-1	5.8						
M/E 177-2	6.9						
INTERNAL STD AREA(BCM)				3770000	3910000	3900000	3880000
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	1.4	1.3
PERCENT MOISTURE						28.6	23.1
ACTUAL(ALLOWED) HOLD TIME						16(14 D)	16(14 D)

AREA		QA	QA	QA			
LOCATION	B815 SEWER	MATRIX	MS %	RPD	BLDG 108	BLDG 108	BLDG 108
TYPE OF LOCATION	DRAINAGE	SPIKE	RECOVERY		SILT	SILT	SILT
SAMPLE NUMBER	AR310024A	AR507032A	AR507032A	AR507032A	AR507010A	AR507021A	AR507032A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	%	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	5	16	16	16	16	16	16
ACETONE	15 B	25 B			18 B	23 B	22 B
BENZENE	7 U	120 U	97	1	8 U	10 U	10 U
BROMODICHLOROMETHANE	7 U	10 U			8 U	10 U	10 U

TABLE D.8.26 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON20 DRAFT DO NOT CITE

AREA		QA	QA	QA			
LOCATION	B815 SEWER	MATRIX	MS %	RPD	BLDG 108	BLDG 108	BLDG 108
TYPE OF LOCATION	DRAINAGE	SPIKE	RECOVERY		SILT	SILT	SILT
SAMPLE NUMBER	AR310024A	AR507032A	AR507032A	AR507032A	AR507010A	AR507021A	AR507032A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	%	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	5	16	16	16	16	16	16
BROMOFORM	7 U	10 U			8 U	10 U	10 U
BROMOMETHANE	15 U	21 U			17 U	20 U	21 U
CARBON DISULFIDE	7 U	10 U			8 U	10 U	10 U
CARBON TETRACHLORIDE	7 U	10 U			8 U	10 U	10 U
CHLOROBENZENE	7 U	130 MS	96	3	8 U	10 U	10 U
CHLOROETHANE	15 U	21 U			17 U	20 U	21 U
CHLOROFORM	7 U	10 U			8 U	10 U	10 U
CHLOROMETHANE	15 U	21 U			17 U	20 U	21 U
CIS-1,3-DICHLOROPROPENE	7 U	10 U			8 U	10 U	10 U
DIBROMOCHLOROMETHANE	7 U	10 U			8 U	10 U	10 U
ETHYLBENZENE	8	10 J			8	11	9 J
METHYLENE CHLORIDE	17 B	12 B			8 JB	11 B	9 JB
STYRENE	7 U	10 U			8 U	10 U	10 U
TETRACHLOROETHENE	7 U	3 J			8 U	3 J	10 U
TOLUENE	2 JB	130 U	92	5	3 JB	3 JB	3 JB
TOLUENE-D8							
TRANS-1,3-DICHLOROPROPENE	7 U	10 U			8 U	10 U	10 U
TRICHLOROETHENE	7 U	140 U	93	1	8 U	10 U	10 U
VINYL ACETATE	15 U	21 U			17 U	20 U	21 U
VINYL CHLORIDE	15 U	21 U			17 U	20 U	21 U
XYLENE (TOTAL)	11	18			14	18	19
1,1-DICHLOROETHANE	7 U	10 U			8 U	10 U	10 U
1,1-DICHLOROETHENE	7 U	160 U	123	4	8 U	10 U	10 U
1,1,1-TRICHLOROETHANE	7 U	10 U			8 U	10 U	10 U
1,1,2-TRICHLOROETHANE	7 U	10 U			8 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	7 U	10 U			8 U	10 U	10 U
1,2-DICHLOROETHANE	7 U	10 U			8 U	10 U	10 U
1,2-DICHLOROETHANE-D4							
1,2-DICHLOROETHENE (TOTAL)	7 U	10 U			8 U	10 U	10 U
1,2-DICHLOROPROPANE	7 U	10 U			8 U	10 U	10 U
1,4-BROMOFLUOROBENZENE							
2-BUTANONE	15 U	21 U			17 U	20 U	21 U
2-HEXANONE	15 U	21 U			17 U	20 U	21 U
4-METHYL-2-PENTANONE	15 U	21 U			17 U	20 U	21 U
SURR 1(TOL) %RECOVERY	97	117			94	98	97
SURR 2(BFB) %RECOVERY	92	115			91	95	95
SURR 3(DCE) %RECOVERY	94	116			96	101	97

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TABLE D.8.26 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON20 DRAFT DO NOT CITE

AREA		QA	QA	QA			
LOCATION	B815 SEWER	MATRIX	MS %	RPD	BLDG 108	BLDG 108	BLDG 108
TYPE OF LOCATION	DRAINAGE	SPIKE	RECOVERY		SILT	SILT	SILT
SAMPLE NUMBER	AR310024A	AR507032A	AR507032A	AR507032A	AR507010A	AR507021A	AR507032A
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	%	%	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	5	16	16	16	16	16	16
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)	3800000	3720000			3850000	3650000	3840000
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	1.46	2.07			1.66	2.03	2.07
PERCENT MOISTURE	31.3	51.7			39.9	50.7	51.7
ACTUAL(ALLOWED) HOLD TIME	16(14 D)	14(14 D)			14(14 D)	14(14 D)	14(14 D)

AREA	QA	QA					
LOCATION	MATRIX SPIKE	MSD %					
TYPE OF LOCATION	DUPLICATE	RECOVERY					
SAMPLE NUMBER	AR507032A	AR507032A					
MATRIX	SOIL	SOIL					
UNITS	UG/KG	%					
ENV PROBLEM NO	16	16					
ACETONE	32 B						
BENZENE	120 U	96					
BROMODICHLOROMETHANE	10 U						
BROMOFORM	10 U						
BROMOMETHANE	21 U						
CARBON DISULFIDE	10 U						
CARBON TETRACHLORIDE	10 U						

TABLE D.8.26 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON20 DRAFT DO NOT CITE

AREA	QA	QA
LOCATION	MATRIX SPIKE	MSD %
TYPE OF LOCATION	DUPLICATE	RECOVERY
SAMPLE NUMBER	AR507032A	AR507032A
MATRIX	SOIL	SOIL
UNITS	UG/KG	%
ENV PROBLEM NO	16	16
CHLOROBENZENE	120 MS	93
CHLOROETHANE	21 U	
CHLOROFORM	10 U	
CHLOROMETHANE	21 U	
CIS-1,3-DICHLOROPROPENE	10 U	
DIBROMOCHLOROMETHANE	10 U	
ETHYLBENZENE	11	
METHYLENE CHLORIDE	11 B	
STYRENE	10 U	
TETRACHLOROETHENE	3 J	
TOLUENE	120 U	87
TOLUENE-D8		
TRANS-1,3-DICHLOROPROPENE	10 U	
TRICHLOROETHENE	130 U	92
VINYL ACETATE	21 U	
VINYL CHLORIDE	21 U	
XYLENE (TOTAL)	19	
1,1-DICHLOROETHANE	10 U	
1,1-DICHLOROETHENE	150 U	118
1,1,1-TRICHLOROETHANE	10 U	
1,1,2-TRICHLOROETHANE	10 U	
1,1,2,2-TETRACHLOROETHANE	10 U	
1,2-DICHLOROETHANE	10 U	
1,2-DICHLOROETHANE-D4		
1,2-DICHLOROETHENE (TOTAL)	10 U	
1,2-DICHLOROPROPANE	10 U	
1,4-BROMOFLUOROBENZENE		
2-BUTANONE	21 U	
2-HEXANONE	21 U	
4-METHYL-2-PENTANONE	21 U	
SURR 1(TOL) %RECOVERY	97	
SURR 2(BFB) %RECOVERY	94	
SURR 3(DCE) %RECOVERY	99	

M/E 50
M/E 75
M/E 95
M/E 96

TABLE D.8.26 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON20

DRAFT DO NOT CITE

AREA	QA	QA					
LOCATION	MATRIX SPIKE	MSD %					
TYPE OF LOCATION	DUPLICATE	RECOVERY					
SAMPLE NUMBER	AR507032A	AR507032A					
MATRIX	SOIL	SOIL					
UNITS	UG/KG	%					
ENV PROBLEM NO	16	16					
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)	3830000						
INTERNAL STD AREA(CBZ)	2E+07						
INTERNAL STD AREA(DFB)	2E+07						
DILUTION FACTOR	2.07						
PERCENT MOISTURE	51.7						
ACTUAL(ALLOWED) HOLD TIME	14(14 D)						

TABLE D.8.27 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON21 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	NPDESOUTF1	NPDESOUTF1
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	EFFLUENT	EFFLUENT
SAMPLE NUMBER	AR1120875	AR1120877	AR1120877	AR1120878	VBKON21	AR300033A	AR300088A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						1	1
ACETONE		0.722	28.7		12	26 B	8 JB
BENZENE		0.875	4.5		5 U	5 U	5 U
BROMODICHLOROMETHANE		0.501	4		5 U	5 U	5 U
BROMOFORM		0.376	3.6		5 U	5 U	5 U
BROMOMETHANE		0.88	52.5		10 U	10 U	10 U
CARBON DISULFIDE		3.013	20.2		5 U	5 U	5 U
CARBON TETRACHLORIDE		0.485	8.3		5 U	5 U	5 U
CHLOROBENZENE		1.055	7.8		5 U	5 U	5 U
CHLOROETHANE		0.628	11.5		10 U	10 U	10 U
CHLOROFORM		2.922	10.4		5 U	2 J	5 U
CHLOROMETHANE		0.605	45.3		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.35	10.5		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.454	6.4		5 U	5 U	5 U
ETHYLBENZENE		0.551	8		5 U	5 U	5 U
METHYLENE CHLORIDE		1.56	10.9		7	23 B	10 B
STYRENE		1.059	3.7		5 U	5 U	5 U
TETRACHLOROETHENE		0.479	4.6		5 U	5 U	5 U
TOLUENE		0.805	0.8		1 J	3 JB	5 JB
TOLUENE-D8		1.057	5.2				
TRANS-1,3-DICHLOROPROPENE		0.661	2.5		5 U	5 U	5 U
TRICHLOROETHENE		0.39	10.3		5 U	5 U	5 U
VINYL ACETATE		0.425	15.9		10 U	10 U	10 U
VINYL CHLORIDE		0.791	19.1		10 U	10 U	10 U
XYLENE (TOTAL)		0.633	5.8		5 U	5 U	5 U
1,1-DICHLOROETHANE		2.328	4.7		5 U	5 U	5 U
1,1-DICHLOROETHENE		1.176	2.4		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.48	2.1		5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		0.29	8.9		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.533	3		5 U	5 U	5 U
1,2-DICHLOROETHANE		2.455	8.5		5 U	5 U	5 U
1,2-DICHLOROETHANE-D4		1.806	2.2				
1,2-DICHLOROETHENE (TOTAL)		1.398	6.3		5 U	5 U	5 U
1,2-DICHLOROPROPANE		0.264	12		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.58	12.4				
2-BUTANONE		0.035	14.4		10 U	10 U	10 U
2-HEXANONE		0.262	4.7		10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.339	13.7		10 U	10 U	10 U
SURR 1(TOL) %RECOVERY					103	96	98

TABLE D.8.27 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON21 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	NPDESOUTF1	NPDESOUTF1
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	EFFLUENT	EFFLUENT
SAMPLE NUMBER	AR1120875	AR1120877	AR1120877	AR1120878	VBKON21	AR300033A	AR300088A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						1	1
SURR 2(BFB) %RECOVERY					104	98	102
SURR 3(DCE) %RECOVERY					100	99	101
M/E 50	17						
M/E 75	50						
M/E 95	100						
M/E 96	8.3						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	89						
M/E 175-1	7.9						
M/E 175-2	8.8						
M/E 176-1	90						
M/E 176-2	101						
M/E 177-1	6.9						
M/E 177-2	7.7						
INTERNAL STD AREA(BCM)				3820000	3730000	3770000	3720000
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
ACTUAL(ALLOWED) HOLD TIME						9(14 D)	9(14 D)

AREA							
LOCATION	NPDES10WTP	317-319 LF	317-319 LF	317-319 LF	RET. TANKS		
TYPE OF LOCATION	DISCHARGES	WELL	WELL	WELL	WASTEWATER		
SAMPLE NUMBER	AR311036A	AR420016A	AR420027A	AR420038A	AR500331A		
MATRIX	WATER	WATER	WATER	WATER	WATER		
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L		
ENV PROBLEM NO	6	9	9	9	10		
ACETONE	360 BE	7 JB	10 U	4 JB	1600 BE		
BENZENE	0.8 J	5 U	5 U	1 J	2 J		
BROMODICHLOROMETHANE	3 J	5 U	5 U	5 U	5 U		
BROMOFORM	2 J	5 U	5 U	5 U	5 U		

TABLE D.8.27 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON21 DRAFT DO NOT CITE

AREA

LOCATION	NPDES10WTP	317-319 LF	317-319 LF	317-319 LF	RET. TANKS
TYPE OF LOCATION	DISCHARGES	WELL	WELL	WELL	WASTEWATER
SAMPLE NUMBER	AR311036A	AR420016A	AR420027A	AR420038A	AR500331A
MATRIX	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	6	9	9	9	10
BROMOMETHANE	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	5 U	5 U	5 U	5 U	3 J
CARBON TETRACHLORIDE	8	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	10	5 U	5 U	5 U	120
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
DIBROMOCHLOROMETHANE	4 J	5 U	5 U	5 U	5 U
ETHYLBENZENE	5 U	5 U	5 U	2 J	3 J
METHYLENE CHLORIDE	160 B	10 B	8 B	8 B	230 BE
STYRENE	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	5 U	5 U	5 U	860 E
TOLUENE	8 B	1 JB	0.8 JB	18 B	38 B
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	54
VINYL ACETATE	10 U	10 U	10 U	10 U	6 J
VINYL CHLORIDE	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	5 U	5 U	5 U	5 U	19
1,1-DICHLOROETHANE	5 U	5 U	5 U	5 U	2 J
1,1-DICHLOROETHENE	5 U	5 U	5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	3 J	5 U	5 U	5 U	3 J
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					
1,2-DICHLOROETHENE (TOTAL)	5 U	5 U	5 U	5 U	7
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE					
2-BUTANONE	10 U	10 U	10 U	10 U	60
2-HEXANONE	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	74
SURR 1(TOL) %RECOVERY	96	96	98	98	102
SURR 2(BFB) %RECOVERY	101	100	101	100	102
SURR 3(DCE) %RECOVERY	100	99	103	102	105

M/E 50

TABLE D.8.27 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON21

DRAFT DO NOT CITE

AREA

LOCATION	NPDES10WTP	317-319 LF	317-319 LF	317-319 LF	RET. TANKS
TYPE OF LOCATION	DISCHARGES	WELL	WELL	WELL	WASTEWATER
SAMPLE NUMBER	AR311036A	AR420016A	AR420027A	AR420038A	AR500331A
MATRIX	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	6	9	9	9	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)	3780000	3720000	3680000	3580000	3350000
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	9(14 D)	15(14 D)	15(14 D)	10(14 D)	9(14 D)

TABLE D.8.28 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON22 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	570 WTP	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LAGOON	TRIP BLANK
SAMPLE NUMBER	AR1122875	AR1122877	AR1122877	AR1122878	VBKON22	AR806090A	ARN26012A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						20	99
ACETONE		0.763	35.9		13	5 JB	10 U
BENZENE		0.902	1.6		5 U	5 U	5 U
BROMODICHLOROMETHANE		0.513	6.3		5 U	5 U	5 U
BROMOFORM		0.363	0.1		5 U	5 U	5 U
BROMOMETHANE		0.993	72		10 U	10 U	10 U
CARBON DISULFIDE		3.326	11.9		1 J	5 U	5 U
CARBON TETRACHLORIDE		0.488	8.8		5 U	5 U	5 U
CHLOROBENZENE		1.076	9.9		5 U	5 U	5 U
CHLOROETHANE		0.709	0.1		10 U	10 U	10 U
CHLOROFORM		3.163	19.5		5 U	5 U	1 J
CHLOROMETHANE		0.66	40.3		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.361	14		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.46	7.9		5 U	5 U	5 U
ETHYLBENZENE		0.556	9.1		5 U	5 U	5 U
METHYLENE CHLORIDE		2.121	50.8		16	5 JB	3 JB
STYRENE		1.118	9.6		5 U	5 U	5 U
TETRACHLOROETHENE		0.483	5.5		5 U	5 U	5 U
TOLUENE		0.816	2.2		5 U	10	5 U
TOLUENE-D8		1.067	4.2				
TRANS-1,3-DICHLOROPROPENE		0.679	5.3		5 U	5 U	5 U
TRICHLOROETHENE		0.402	13.8		5 U	5 U	5 U
VINYL ACETATE		0.383	4.3		10 U	10 U	10 U
VINYL CHLORIDE		0.867	11.4		10 U	10 U	10 U
XYLENE (TOTAL)		0.643	7.4		5 U	5 U	5 U
1,1-DICHLOROETHANE		2.563	5		5 U	5 U	5 U
1,1-DICHLOROETHENE		1.269	10.6		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.509	8.4		5 U	5 U	5 U
1,1,2-TRICHLOROETHANE		0.288	8.2		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.469	9.4		5 U	5 U	5 U
1,2-DICHLOROETHANE		2.644	16.8		5 U	5 U	5 U
1,2-DICHLOROETHANE-D4		1.898	2.8				
1,2-DICHLOROETHENE (TOTAL)		1.516	15.4		5 U	5 U	5 U
1,2-DICHLOROPROPANE		0.272	9.3		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.61	7.8				
2-BUTANONE		0.032	2.9		10 U	10 U	10 U
2-HEXANONE		0.232	15.6		10 U	10 U	10 U
4-METHYL-2-PENTANONE		0.29	26.1		10 U	10 U	10 U
SURR 1(TOL) %RECOVERY					97	100	103

TABLE D.8.28 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON22

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	570 WTP	
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	LAGOON	TRIP BLANK
SAMPLE NUMBER	AR1122875	AR1122877	AR1122877	AR1122878	VBKON22	AR806090A	ARN26012A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						20	99
SURR 2(BFB) %RECOVERY					96	92	103
SURR 3(DCE) %RECOVERY					95	91	91
M/E 50	16						
M/E 75	46						
M/E 95	100						
M/E 96	6.7						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	86						
M/E 175-1	7.6						
M/E 175-2	8.8						
M/E 176-1	85						
M/E 176-2	98						
M/E 177-1	6.6						
M/E 177-2	7.8						
INTERNAL STD AREA(BCM)				3380000	3480000	3900000	3910000
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)	6(14 D)

AREA							
LOCATION			570 WTP	570 WTP	570 WTP		
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	LAGOON	LAGOON	LAGOON		
SAMPLE NUMBER	ARN28014A	ARN29026A	AR806023A	AR806045A	AR806056A		
MATRIX	WATER	WATER	SOIL	SOIL	SOIL		
UNITS	UG/L	UG/L	UG/KG	UG/KG	UG/KG		
ENV PROBLEM NO	99	99	20	20	20		
ACETONE	4 JB	2 JB	15 B	13 U	7 JB		
BENZENE	5 U	5 U	7 U	6 U	1 J		
BROMODICHLOROMETHANE	5 U	5 U	7 U	6 U	6 U		

TABLE D.8.28 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON22 DRAFT DO NOT CITE

AREA

LOCATION			570 WTP	570 WTP	570 WTP
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	LAGOON	LAGOON	LAGOON
SAMPLE NUMBER	ARN28014A	ARN29026A	AR806023A	AR806045A	AR806056A
MATRIX	WATER	WATER	SOIL	SOIL	SOIL
UNITS	UG/L	UG/L	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	99	99	20	20	20
BROMOFORM	5 U	5 U	7 U	6 U	6 U
BROMOMETHANE	10 U	10 U	14 U	13 U	12 U
CARBON DISULFIDE	5 U	5 U	7 U	6 U	2 JB
CARBON TETRACHLORIDE	5 U	5 U	7 U	6 U	6 U
CHLOROBENZENE	5 U	5 U	7 U	6 U	6 U
CHLOROETHANE	10 U	10 U	14 U	13 U	12 U
CHLOROFORM	1 J	1 J	7 U	6 U	6 U
CHLOROMETHANE	10 U	10 U	14 U	13 U	12 U
CIS-1,3-DICHLOROPROPENE	5 U	5 U	7 U	6 U	6 U
DIBROMOCHLOROMETHANE	5 U	5 U	7 U	6 U	6 U
ETHYLBENZENE	5 U	5 U	7 U	6 U	6 U
METHYLENE CHLORIDE	2 JB	4 JB	150 B	710 BE	910 BE
STYRENE	5 U	5 U	7 U	6 U	6 U
TETRACHLOROETHENE	5 U	5 U	7 U	6 U	6 U
TOLUENE	1 U	0.6 U	7 U	6 U	9
TOLUENE-D8					
TRANS-1,3-DICHLOROPROPENE	5 U	5 U	7 U	6 U	6 U
TRICHLOROETHENE	5 U	5 U	7 U	6 U	3 J
VINYL ACETATE	10 U	10 U	14 U	13 U	12 U
VINYL CHLORIDE	10 U	10 U	14 U	13 U	12 U
XYLENE (TOTAL)	5 U	5 U	7 U	6 U	6 U
1,1-DICHLOROETHANE	5 U	5 U	7 U	6 U	6 U
1,1-DICHLOROETHENE	5 U	5 U	7 U	6 U	6 U
1,1,1-TRICHLOROETHANE	5 U	5 U	5 J	6 U	5 J
1,1,2-TRICHLOROETHANE	5 U	5 U	7 U	6 U	6 U
1,1,2,2-TETRACHLOROETHANE	5 U	5 U	7 U	6 U	6 U
1,2-DICHLOROETHANE	5 U	5 U	7 U	6 U	6 U
1,2-DICHLOROETHANE-D4					
1,2-DICHLOROETHENE (TOTAL)	5 U	5 U	7 U	6 U	6 U
1,2-DICHLOROPROPANE	5 U	5 U	7 U	6 U	6 U
1,4-BROMOFLUOROBENZENE					
2-BUTANONE	10 U	10 U	14 U	13 U	12 U
2-HEXANONE	10 U	10 U	14 U	13 U	12 U
4-METHYL-2-PENTANONE	10 U	10 U	14 U	13 U	12 U
SURR 1(TOL) %RECOVERY	102	104	114	120 *	136 *
SURR 2(BFB) %RECOVERY	101	96	88	67 *	70 *
SURR 3(DCE) %RECOVERY	89	89	86	98	88

M/E 50

TABLE D.8.28 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON22 DRAFT DO NOT CITE

AREA

LOCATION			570 WTP	570 WTP	570 WTP		
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	LAGOON	LAGOON	LAGOON		
SAMPLE NUMBER	ARN28014A	ARN29026A	AR806023A	AR806045A	AR806056A		
MATRIX	WATER	WATER	SOIL	SOIL	SOIL		
UNITS	UG/L	UG/L	UG/KG	UG/KG	UG/KG		
ENV PROBLEM NO	99	99	20	20	20		
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	4950000	2980000	288000	3250000		
INTERNAL STD AREA(CBZ)	1E+07	2E+07	1E+07	1610000	7080000		
INTERNAL STD AREA(DFB)	2E+07	3E+07	2E+07	2870000	1E+07		
DILUTION FACTOR	1	1	1.36	1.27	1.18		
PERCENT MOISTURE			26.4	21.1	15.6		
ACTUAL(ALLOWED) HOLD TIME	6(14 D)	6(14 D)	9(14 D)	9(14 D)	9(14 D)		

TABLE D.8.29 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON23 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	REANALYSIS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		WASTEWATER
SAMPLE NUMBER	AR1123875	AR1123877	AR1123877	AR1123878	VBKON23	AR500342A	AR500455A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	10
ACETONE		0.535	4.7		16	5600 BE	1900 BE
BENZENE		0.778	15.1		5 U	13 U	3 J
BROMODICHLOROMETHANE		0.439	8.9		5 U	13 U	13 U
BROMOFORM		0.291	19.9		5 U	13 U	13 U
BROMOMETHANE		0.804	39.2		10 U	25 U	25 U
CARBON DISULFIDE		2.645	29.9		5 U	3 J	4 J
CARBON TETRACHLORIDE		0.421	6.1		5 U	13 U	13 U
CHLOROBENZENE		0.98	0.2		5 U	13 U	13 U
CHLOROETHANE		0.567	20.1		10 U	25 U	25 U
CHLOROFORM		2.597	1.9		5 U	140	120
CHLOROMETHANE		0.498	55		10 U	25 U	25 U
CIS-1,3-DICHLOROPROPENE		0.304	4.2		5 U	13 U	13 U
DIBROMOCHLOROMETHANE		0.39	8.6		5 U	13 U	13 U
ETHYLBENZENE		0.508	0.4		5 U	7 J	6 J
METHYLENE CHLORIDE		1.36	3.3		0.9 J	190 B	230 BE
STYRENE		0.991	2.9		5 U	13 U	13 U
TETRACHLOROETHENE		0.443	3.1		5 U	380 E	1400 E
TOLUENE		0.752	5.7		0.9 J	13 B	48 B
TOLUENE-D8		1.053	5.5				
TRANS-1,3-DICHLOROPROPENE		0.581	9.9		5 U	13 U	13 U
TRICHLOROETHENE		0.344	2.6		5 U	21	68
VINYL ACETATE		0.322	12.1		10 U	25 U	15 J
VINYL CHLORIDE		0.685	29.9		10 U	25 U	25 U
XYLENE (TOTAL)		0.575	4		5 U	13 U	36
1,1-DICHLOROETHANE		2.06	15.6		5 U	13 U	13 U
1,1-DICHLOROETHENE		1.035	9.9		5 U	13 U	13 U
1,1,1-TRICHLOROETHANE		0.432	8.1		5 U	13 U	13 U
1,1,2-TRICHLOROETHANE		0.244	8.2		5 U	13 U	13 U
1,1,2,2-TETRACHLOROETHANE		0.424	18.1		5 U	13 U	13 U
1,2-DICHLOROETHANE		2.111	6.7		5 U	13 U	13 U
1,2-DICHLOROETHANE-D4		1.696	8.1				
1,2-DICHLOROETHENE (TOTAL)		1.232	6.2		5 U	13 U	7 J
1,2-DICHLOROPROPANE		0.236	21.3		5 U	13 U	13 U
1,4-BROMOFLUOROBENZENE		0.556	15.9				
2-BUTANONE		0.026	14.3		10 U	83	120
2-HEXANONE		0.211	23.2		10 U	25 U	25 U
4-METHYL-2-PENTANONE		0.265	32.6		10 U	65	110
SURR 1(TOL) %RECOVERY					104	109	97

TABLE D.8.29 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON23

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	REANALYSIS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK		WASTEWATER
SAMPLE NUMBER	AR1123875	AR1123877	AR1123877	AR1123878	VBKON23	AR500342A	AR500455A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	10
SURR 2(BFB) %RECOVERY					102	105	105
SURR 3(DCE) %RECOVERY					102	105	96
M/E 50	16						
M/E 75	49						
M/E 95	100						
M/E 96	7.6						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	93						
M/E 175-1	7.3						
M/E 175-2	7.8						
M/E 176-1	88						
M/E 176-2	95						
M/E 177-1	5.9						
M/E 177-2	6.7						
INTERNAL STD AREA(BCM)				3930000	3830000	3240000	3720000
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	2.5	2.5
ACTUAL(ALLOWED) HOLD TIME						11(14 D)	11(14 D)

AREA	
LOCATION	RET. TANKS
TYPE OF LOCATION	WASTEWATER
SAMPLE NUMBER	AR500466A
MATRIX	WATER
UNITS	UG/L
ENV PROBLEM NO	10
ACETONE	2700 BE
BENZENE	2 J
BROMODICHLOROMETHANE	13 U
BROMOFORM	13 U

TABLE D.8.29 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON23 DRAFT DO NOT CITE

AREA

LOCATION	RET. TANKS	
TYPE OF LOCATION	WASTEWATER	
SAMPLE NUMBER	AR500466A	
MATRIX	WATER	
UNITS	UG/L	
ENV PROBLEM NO	10	
BROMOMETHANE	25	U
CARBON DISULFIDE	13	U
CARBON TETRACHLORIDE	13	U
CHLOROBENZENE	13	U
CHLOROETHANE	25	U
CHLOROFORM	140	
CHLOROMETHANE	25	U
CIS-1,3-DICHLOROPROPENE	13	U
DIBROMOCHLOROMETHANE	13	U
ETHYLBENZENE	13	U
METHYLENE CHLORIDE	370	BE
STYRENE	13	U
TETRACHLOROETHENE	530	E
TOLUENE	24	B
TOLUENE-D8		
TRANS-1,3-DICHLOROPROPENE	13	U
TRICHLOROETHENE	66	U
VINYL ACETATE	25	U
VINYL CHLORIDE	25	U
XYLENE (TOTAL)	30	
1,1-DICHLOROETHANE	13	U
1,1-DICHLOROETHENE	13	U
1,1,1-TRICHLOROETHANE	13	U
1,1,2-TRICHLOROETHANE	13	U
1,1,2,2-TETRACHLOROETHANE	13	U
1,2-DICHLOROETHANE	13	U
1,2-DICHLOROETHANE-D4		
1,2-DICHLOROETHENE (TOTAL)	6	J
1,2-DICHLOROPROPANE	13	U
1,4-BROMOFLUOROBENZENE		
2-BUTANONE	71	
2-HEXANONE	25	U
4-METHYL-2-PENTANONE	100	
SURR 1(TOL) %RECOVERY	104	
SURR 2(BFB) %RECOVERY	107	
SURR 3(DCE) %RECOVERY	101	

M/E 50

TABLE D.8.29 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON23 DRAFT DO NOT CITE

AREA

LOCATION	RET. TANKS
TYPE OF LOCATION	WASTEWATER
SAMPLE NUMBER	AR500466A
MATRIX	WATER
UNITS	UG/L
ENV PROBLEM NO	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)	3620000
INTERNAL STD AREA(CBZ)	1E+07
INTERNAL STD AREA(DFB)	2E+07
DILUTION FACTOR	2.5
ACTUAL(ALLOWED) HOLD TIME	11(14 D)

TABLE D.8.30 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON24

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	NIKE SITE	REANALYSIS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	DRAINS	
SAMPLE NUMBER	AR1124875	AR1124877	AR1124877	AR1124878	VBKON24	AR807079A	AR806034A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						21	20
ACETONE		0.563	0.4		17	35 B	17 B
BENZENE		0.865	5.6		5 U	3 J	6 U
BROMODICHLOROMETHANE		0.483	0.2		5 U	6 U	6 U
BROMOFORM		0.309	14.8		5 U	6 U	6 U
BROMOMETHANE		0.863	49.4		10 U	13 U	12 U
CARBON DISULFIDE		2.85	24.5		5 U	6 U	6 U
CARBON TETRACHLORIDE		0.463	3.3		5 U	4 J	6 U
CHLOROBENZENE		1.078	10.2		5 U	6 U	6 U
CHLOROETHANE		0.628	11.5		10 U	13 U	12 U
CHLOROFORM		2.922	10.4		5 U	3 J	6 U
CHLOROMETHANE		0.515	53.5		10 U	13 U	12 U
CIS-1,3-DICHLOROPROPENE		0.334	5.3		5 U	6 U	6 U
DIBROMOCHLOROMETHANE		0.417	2.2		5 U	6 U	6 U
ETHYLBENZENE		0.563	10.4		5 U	6 U	6 U
METHYLENE CHLORIDE		1.374	2.3		1 J	650 BE	620 BE
STYRENE		1.085	6.3		5 U	6 U	6 U
TETRACHLOROETHENE		0.483	5.6		5 U	2 J	6 U
TOLUENE		0.827	3.6		5 U	5 J	1 U
TOLUENE-D8		1.092	2				
TRANS-1,3-DICHLOROPROPENE		0.648	0.4		5 U	6 U	6 U
TRICHLOROETHENE		0.378	6.9		5 U	6 U	6 U
VINYL ACETATE		0.325	11.5		10 U	13 U	12 U
VINYL CHLORIDE		0.723	26.1		10 U	13 U	12 U
XYLENE (TOTAL)		0.652	8.9		5 U	6 U	3 J
1,1-DICHLOROETHANE		2.407	1.4		5 U	3 J	6 U
1,1-DICHLOROETHENE		1.134	1.2		5 U	6 U	6 U
1,1,1-TRICHLOROETHANE		0.474	0.9		5 U	6 U	6 U
1,1,2-TRICHLOROETHANE		0.262	1.5		5 U	6 U	6 U
1,1,2,2-TETRACHLOROETHANE		0.449	13.2		5 U	6 U	6 U
1,2-DICHLOROETHANE		2.341	3.4		5 U	6 U	6 U
1,2-DICHLOROETHANE-D4		1.813	1.8				
1,2-DICHLOROETHENE (TOTAL)		1.39	5.8		5 U	6 U	6 U
1,2-DICHLOROPROPANE		0.261	12.9		5 U	6 U	6 U
1,4-BROMOFLUOROBENZENE		0.564	14.8				
2-BUTANONE		0.026	15.4		10 U	13 U	12 U
2-HEXANONE		0.228	17.1		10 U	13 U	12 U
4-METHYL-2-PENTANONE		0.28	28.7		3 J	13 U	12 U
SURR 1(TOL) %RECOVERY					100	210 *	110

TABLE D.8.30 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON24 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	NIKE SITE	REANALYSIS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	DRAINS	
SAMPLE NUMBER	AR1124875	AR1124877	AR1124877	AR1124878	VBKON24	AR807079A	AR806034A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						21	20
SURR 2(BFB) %RECOVERY					102	185 *	91
SURR 3(DCE) %RECOVERY					100	195 *	98
M/E 50	17						
M/E 75	50						
M/E 95	100						
M/E 96	7.2						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	92						
M/E 175-1	7.5						
M/E 175-2	8.1						
M/E 176-1	91						
M/E 176-2	98						
M/E 177-1	6						
M/E 177-2	6.5						
INTERNAL STD AREA(BCM)				4E+07	3690000	1760000	3430000
INTERNAL STD AREA(CBZ)				2E+07	2E+07	6710000	1E+07
INTERNAL STD AREA(DFB)				2E+08	2E+07	9090000	2E+07
DILUTION FACTOR					1	1.3	1.2
PERCENT MOISTURE						20.8	19.2
ACTUAL(ALLOWED) HOLD TIME						8(14 D)	11(14 D)

AREA							
LOCATION	BLDG 19/34	BLDG 19/34	BLDG 19/34				
TYPE OF LOCATION	D&D	D&D	D&D				
SAMPLE NUMBER	AR810074A	AR810085A	AR810096A				
MATRIX	SOIL	SOIL	SOIL				
UNITS	UG/KG	UG/KG	UG/KG				
ENV PROBLEM NO	23	23	23				
ACETONE	24 B	31 B	33 B				
BENZENE	6 U	6 U	6 U				
BROMODICHLOROMETHANE	6 U	6 U	6 U				

TABLE D.8.30 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON24

DRAFT DO NOT CITE

AREA

LOCATION	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	D&D	D&D	D&D
SAMPLE NUMBER	AR810074A	AR810085A	AR810096A
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	23	23	23
BROMOFORM			
BROMOMETHANE	6 U	6 U	6 U
CARBON DISULFIDE	12 U	12 U	12 U
CARBON TETRACHLORIDE	6 U	6 U	6 U
CHLOROBENZENE	6 U	6 U	6 U
CHLOROETHANE	6 U	6 U	6 U
CHLOROFORM	12 U	12 U	12 U
CHLOROMETHANE	6 U	6 U	6 U
CIS-1,3-DICHLOROPROPENE	12 U	12 U	12 U
DIBROMOCHLOROMETHANE	6 U	6 U	6 U
ETHYLBENZENE	6 U	6 U	6 U
METHYLENE CHLORIDE	6 U	6 U	6 U
STYRENE	1000 BE	149 B	170 B
TETRACHLOROETHENE	6 U	6 U	6 U
TOLUENE	6 U	5 J	6 U
TOLUENE-D8	8	13	10
TRANS-1,3-DICHLOROPROPENE			
TRICHLOROETHENE	6 U	6 U	6 U
VINYL ACETATE	6 U	6 U	6 U
VINYL CHLORIDE	12 U	12 U	12 U
XYLENE (TOTAL)	12 U	12 U	12 U
1,1-DICHLOROETHANE	6 J	8	12
1,1-DICHLOROETHENE	6 U	6 U	6 U
1,1,1-TRICHLOROETHANE	6 U	6 U	6 U
1,1,2-TRICHLOROETHANE	6 U	4 J	6 U
1,1,2,2-TETRACHLOROETHANE	6 U	6 U	6 U
1,2-DICHLOROETHANE	6 U	6 U	6 U
1,2-DICHLOROETHANE-D4	6 U	6 U	6 U
1,2-DICHLOROETHENE (TOTAL)			
1,2-DICHLOROPROPANE	6 U	6 U	6 U
1,4-BROMOFLUOROBENZENE	6 U	6 U	6 U
2-BUTANONE			
2-HEXANONE	6 J	6 U	12 U
4-METHYL-2-PENTANONE	12 U	12 U	12 U
SURR 1(TOL) %RECOVERY	118 *	126 *	133 *
SURR 2(BFB) %RECOVERY	84	80	77
SURR 3(DCE) %RECOVERY	95	95	87

M/E 50

TABLE D.8.30 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON24

DRAFT DO NOT CITE

AREA

LOCATION	BLDG 19/34	BLDG 19/34	BLDG 19/34
TYPE OF LOCATION	D&D	D&D	D&D
SAMPLE NUMBER	AR810074A	AR810085A	AR810096A
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	23	23	23
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)	3E+07	3E+07	3E+07
INTERNAL STD AREA(CBZ)	9E+07	7E+07	5E+07
INTERNAL STD AREA(DFB)	1E+08	1E+08	1E+08
DILUTION FACTOR	1.18	1.17	1.19
PERCENT MOISTURE	15.1	14.2	16.2
ACTUAL(ALLOWED) HOLD TIME	10(14 D)	10(14 D)	10(14 D)

TABLE D.8.31 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON25 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	NIKE SITE	CP-3 AREA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	DRAINS	SITE A
SAMPLE NUMBER	AR1125875	AR1125877	AR1125877	AR1125878	VBKON25	AR807080A	AR812010A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						21	25
ACETONE		0.66	-20.5		12	19 B	19 B
BENZENE		0.89	3.1		5 U	7 U	6 U
BROMODICHLOROMETHANE		0.48	0.9		5 U	7 U	6 U
BROMOFORM		0.33	9.4		5 U	7 U	6 U
BROMOMETHANE		0.57	-3.5		10 U	12 U	12 U
CARBON DISULFIDE		2.36	36.9		5 U	7 U	6 U
CARBON TETRACHLORIDE		0.5	-13.2		5 U	7 U	6 U
CHLOROBENZENE		1.05	-7.2		5 U	7 U	6 U
CHLOROETHANE		0.56	21.5		10 U	12 U	12 U
CHLOROFORM		2.98	-12.6		5 U	7 U	6 U
CHLOROMETHANE		0.36	66.9		10 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE		0.61	3.7		5 U	7 U	6 U
DIBROMOCHLOROMETHANE		0.4	6.1		5 U	7 U	6 U
ETHYLBENZENE		0.54	-6.1		5 U	7 U	6 U
METHYLENE CHLORIDE		1.63	-15.9		5 U	118	726 E
STYRENE		1.05	-2.6		5 U	7 U	6 U
TETRACHLOROETHENE		0.47	-3.6		5 U	7 U	6 U
TOLUENE		0.85	-6.2		5 U	8	6 U
TOLUENE-D8		1.13	3.6				
TRANS-1,3-DICHLOROPROPENE		0.32	-4.7		5 U	7 U	6 U
TRICHLOROETHENE		0.38	-5.6		5 U	7 U	6 U
VINYL ACETATE		0.31	14.6		10 U	12 U	12 U
VINYL CHLORIDE		0.52	46.4		10 U	12 U	12 U
XYLENE (TOTAL)		0.67	-13.5		5 U	8	6 U
1,1-DICHLOROETHANE		2.34	3.7		5 U	7 U	6 U
1,1-DICHLOROETHENE		1.11	3.7		5 U	7 U	6 U
1,1,1-TRICHLOROETHANE		0.44	6.7		5 U	7 U	6 U
1,1,2-TRICHLOROETHANE		0.28	-3		5 U	7 U	6 U
1,1,2,2-TETRACHLOROETHANE		0.5	3.3		5 U	7 U	6 U
1,2-DICHLOROETHANE		2.2	2.6		5 U	7 U	6 U
1,2-DICHLOROETHANE-D4		1.79	7.4				
1,2-DICHLOROETHENE (TOTAL)		1.25	5.1		5 U	7 U	6 U
1,2-DICHLOROPROPANE		0.26	13		5 U	7 U	6 U
1,4-BROMOFLUOROBENZENE		0.58	18.9				
2-BUTANONE		0.03	-9.1		10 U	12 U	12 U
2-HEXANONE		0.24	-6.4		10 U	12 U	12 U
4-METHYL-2-PENTANONE		0.3	22.9		10 U	12 U	12 U
SURR 1(TOL) %RECOVERY					96	110	102

TABLE D.8.31 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON25 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	NIKE SITE	CP-3 AREA
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	DRAINS	SITE A
SAMPLE NUMBER	AR1125875	AR1125877	AR1125877	AR1125878	VBKON25	AR807080A	AR812010A
MATRIX	WATER	WATER	WATER	WATER	WATER	SOIL	SOIL
UNITS	%	RRF	%	AREA	UG/L	UG/KG	UG/KG
ENV PROBLEM NO						21	25
SURR 2(BFB) %RECOVERY					100	82	92
SURR 3(DCE) %RECOVERY					96	93	97
M/E 50	18						
M/E 75	54						
M/E 95	100						
M/E 96	6.2						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	93						
M/E 175-1	7.4						
M/E 175-2	7.9						
M/E 176-1	93						
M/E 176-2	100						
M/E 177-1	7.6						
M/E 177-2	8.1						
INTERNAL STD AREA(BCM)				4E+07	4E+07	3E+07	3E+07
INTERNAL STD AREA(CBZ)				2E+08	1E+08	9E+07	1E+08
INTERNAL STD AREA(DFB)				2E+08	2E+08	1E+08	2E+08
DILUTION FACTOR					1	1.23	1.22
PERCENT MOISTURE						19	18
ACTUAL(ALLOWED) HOLD TIME						8(14 D)	12(14 D)

AREA

LOCATION	CP-3 AREA	CP-3 AREA	CP-3 AREA
TYPE OF LOCATION	SITE A	SITE A	SITE A
SAMPLE NUMBER	AR812021A	AR812032A	AR812043A
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	25	25	25
ACETONE	14 B	18 B	21 B
BENZENE	6 U	6 U	6 U
BROMODICHLOROMETHANE	6 U	6 U	6 U

TABLE D.8.31 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON25

DRAFT DO NOT CITE

AREA

LOCATION	CP-3 AREA	CP-3 AREA	CP-3 AREA
TYPE OF LOCATION	SITE A	SITE A	SITE A
SAMPLE NUMBER	AR812021A	AR812032A	AR812043A
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	25	25	25
BROMOFORM	6 U	6 U	6 U
BROMOMETHANE	12 U	12 U	12 U
CARBON DISULFIDE	6 U	6 U	6 U
CARBON TETRACHLORIDE	6 U	6 U	6 U
CHLOROBENZENE	6 U	6 U	6 U
CHLOROETHANE	12 U	12 U	12 U
CHLOROFORM	6 U	6 U	6 U
CHLOROMETHANE	12 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	6 U	6 U	6 U
DIBROMOCHLOROMETHANE	6 U	6 U	6 U
ETHYLBENZENE	6 U	6 U	6 U
METHYLENE CHLORIDE	969 E	942 E	353 E
STYRENE	6 U	6 U	6 U
TETRACHLOROETHENE	6 U	6 U	6 U
TOLUENE	6 U	6 U	6 U
TOLUENE-D8			
TRANS-1,3-DICHLOROPROPENE	6 U	6 U	6 U
TRICHLOROETHENE	6 U	6 U	6 U
VINYL ACETATE	12 U	12 U	12 U
VINYL CHLORIDE	12 U	12 U	12 U
XYLENE (TOTAL)	7	6 U	6 U
1,1-DICHLOROETHANE	6 U	6 U	6 U
1,1-DICHLOROETHENE	6 U	6 U	6 U
1,1,1-TRICHLOROETHANE	6 U	6 U	6 U
1,1,2-TRICHLOROETHANE	6 U	6 U	6 U
1,1,2,2-TETRACHLOROETHANE	6 U	6 U	6 U
1,2-DICHLOROETHANE	6 U	6 U	6 U
1,2-DICHLOROETHANE-D4			
1,2-DICHLOROETHENE (TOTAL)	6 U	6 U	6 U
1,2-DICHLOROPROPANE	6 U	6 U	6 U
1,4-BROMOFLUOROBENZENE			
2-BUTANONE	* 12 U	12 U	12 U
2-HEXANONE	12 U	12 U	12 U
4-METHYL-2-PENTANONE	12 U	12 U	12 U
SURR 1(TOL) %RECOVERY	106	104	103
SURR 2(BFB) %RECOVERY	90	85	88
SURR 3(DCE) %RECOVERY	100	96	99

M/E 50

TABLE D.8.31 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON25

DRAFT DO NOT CITE

AREA

LOCATION	CP-3 AREA	CP-3 AREA	CP-3 AREA
TYPE OF LOCATION	SITE A	SITE A	SITE A
SAMPLE NUMBER	AR812021A	AR812032A	AR812043A
MATRIX	SOIL	SOIL	SOIL
UNITS	UG/KG	UG/KG	UG/KG
ENV PROBLEM NO	25	25	25
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)	3E+07	3E+07	4E+07
INTERNAL STD AREA(CBZ)	8E+07	10E+07	1E+08
INTERNAL STD AREA(DFB)	1E+08	1E+08	2E+08
DILUTION FACTOR	1.23	1.23	1.19
PERCENT MOISTURE	19	19	16
ACTUAL(ALLOWED) HOLD TIME	12(14 D)	12(14 D)	12(14 D)

TABLE D.8.32 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON30 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1130875	AR1130877	AR1130877	AR1130878	VBKON30	AR500477A	AR500488A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	10
ACETONE		0.45	19.6		15	416 BE	389 BE
BENZENE		0.89	3.3		5 U	5 U	15
BROMODICHLOROMETHANE		0.49	2.1		5 U	5 U	5 U
BROMOFORM		0.32	11.1		5 U	5 U	5 U
BROMOMETHANE		1.13	94.8		10 U	10 U	10 U
CARBON DISULFIDE		3.93	3.9		5 U	5 U	5 U
CARBON TETRACHLORIDE		0.5	11.1		5 U	18	5 U
CHLOROBENZENE		1.05	7.1		5 U	5 U	5 U
CHLOROETHANE		0.84	18.3		10 U	10 U	10 U
CHLOROFORM		2.83	6.8		5 U	145	14
CHLOROMETHANE		1.17	5.4		10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE		0.64	100		5 U	5 U	5 U
DIBROMOCHLOROMETHANE		0.45	4.7		5 U	5 U	5 U
ETHYLBENZENE		0.56	9.8		5 U	15	5 U
METHYLENE CHLORIDE		1.58	12.1		5 U	63	316 E
STYRENE		1.04	2		5 U	5 U	5 U
TETRACHLOROETHENE		0.48	4.3		5 U	5 U	6
TOLUENE		0.82	2.5		5 U	5 U	5 U
TOLUENE-D8		1.08	2.7				
TRANS-1,3-DICHLOROPROPENE		0.33	49.2		5 U	5 U	5 U
TRICHLOROETHENE		0.38	8.6		5 U	12	5 U
VINYL ACETATE		0.31	16.2		5 U	5 U	5 U
VINYL CHLORIDE		1.41	43.9		10 U	10 U	10 U
XYLENE (TOTAL)		0.67	11.7		5 U	5 U	5 U
1,1-DICHLOROETHANE		2.37	2.9		5 U	5 U	5 U
1,1-DICHLOROETHENE		1.3	13		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE		0.52	10.6		5 U	136	5 U
1,1,2-TRICHLOROETHANE		0.26	3.7		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE		0.46	11.5		5 U	5 U	5 U
1,2-DICHLOROETHANE		2.28	13.3		5 U	15	5 U
1,2-DICHLOROETHANE-D4		1.77	4.3				
1,2-DICHLOROETHENE (TOTAL)		1.46	11.5		5 U	5 U	6 U
1,2-DICHLOROPROPANE		0.26	13.3		5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE		0.57	13.6				
2-BUTANONE		0.03	0		10 U	10 U	10 U
2-HEXANONE		0.19	32.1		10 U	10 U	5 U
4-METHYL-2-PENTANONE		0.26	33.3		10 U	178	10 U
SURR 1(TOL) %RECOVERY					98	101	98

TABLE D.8.32 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON30 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	CONTINUING	CONTINUING	ISTD RET TIM	METHOD	RET. TANKS	RET. TANKS
TYPE OF LOCATION	CALIBRATION	CALIBRATION	CAL %D	SHIFT	BLANK	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR1130875	AR1130877	AR1130877	AR1130878	VBKON30	AR500477A	AR500488A
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L	UG/L	UG/L
ENV PROBLEM NO						10	10
SURR 2(BFB) %RECOVERY					98	101	97
SURR 3(DCE) %RECOVERY					98	101	93
M/E 50	19						
M/E 75	49						
M/E 95	100						
M/E 96	7.1						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	88						
M/E 175-1	7.6						
M/E 175-2	8.6						
M/E 176-1	88						
M/E 176-2	100						
M/E 177-1	7.4						
M/E 177-2	8.5						
INTERNAL STD AREA(BCM)				4E+07	4E+07	4E+07	4E+07
INTERNAL STD AREA(CBZ)				2E+08	2E+08	2E+08	1E+08
INTERNAL STD AREA(DFB)				2E+08	2E+08	2E+08	2E+08
DILUTION FACTOR					1	1	1
ACTUAL(ALLOWED) HOLD TIME						17(14 D)	17(14 D)

AREA							
LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS		
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER		
SAMPLE NUMBER	AR500557A	AR500568A	AR500579A	AR500580A	AR500591A		
MATRIX	WATER	WATER	WATER	WATER	WATER		
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L		
ENV PROBLEM NO	10	10	10	10	10		
ACETONE	320 BE	302 BE	2840 BE	83 B	402 BE		
BENZENE	5 U	5 U	5 U	5 U	5 U		
BROMODICHLOROMETHANE	5 U	5 U	5 U	5 U	5 U		
BROMOFORM	5 U	5 U	5 U	5 U	5 U		

TABLE D.8.32 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON30 DRAFT DO NOT CITE

AREA

LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR500557A	AR500568A	AR500579A	AR500580A	AR500591A
MATRIX	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	10	10	10	10	10
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	11	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	5 U	122	51	5 U	134
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
DIBROMOCHLOROMETHANE	5 U	5 U	5 U	5 U	5 U
ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	13	17	37	16	50
STYRENE	5 U	5 U	5 U	5 U	5 U
TETRACHLOROETHENE	5 U	28	44	5 U	5 U
TOLUENE	8	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	5 U	17	5 U	5 U	5 U
VINYL CHLORIDE	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	5 U	5 U	14	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	21	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	10 U	5 U	5 U	5 U
1,2-DICHLOROETHANE-D4					
1,2-DICHLOROETHENE (TOTAL)	8	5 U	5 U	5 U	5 U
1,2-DICHLOROPROPANE	5 U	5 U	5 U	5 U	5 U
1,4-BROMOFLUOROBENZENE					
2-BUTANONE	12	14	69	10 U	10 U
2-HEXANONE	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	11	332	10 U	10 U
SURR 1(TOL) %RECOVERY	103	97	101	105	99
SURR 2(BFB) %RECOVERY	108	102	105	108	100
SURR 3(DCE) %RECOVERY	103	97	96	102	99

M/E 50

TABLE D.8.32 ARGONNE VOLATILE ORGANICS - SDG NUMBER: ON30 DRAFT DO NOT CITE

AREA

LOCATION	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS	RET. TANKS
TYPE OF LOCATION	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER
SAMPLE NUMBER	AR500557A	AR500568A	AR500579A	AR500580A	AR500591A
MATRIX	WATER	WATER	WATER	WATER	WATER
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L
ENV PROBLEM NO	10	10	10	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					
INTERNAL STD AREA(BCM)	4E+07	4E+07	4E+07	3E+07	4E+07
INTERNAL STD AREA(CBZ)	1E+08	1E+08	2E+08	1E+08	2E+08
INTERNAL STD AREA(DFB)	2E+08	2E+08	2E+08	2E+08	2E+08
DILUTION FACTOR	1	1	1	1	1
ACTUAL(ALLOWED) HOLD TIME	17(14 D)	13(14 D)	13(14 D)	17(14 D)	17(14 D)

TABLE D.8.33 ARGONNE VOLATILE ORGANICS - SDG NUMBER: 0030

DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA
LOCATION					
TYPE OF LOCATION	TUNED CALIBRATION	INITIAL CAL RRF	INITIAL CAL % RSD	ISTD RET TIM SHIFT	METHOD BLANK
SAMPLE NUMBER	AR1030875	AR1030876	AR1030876	AR1030878	AR103087
MATRIX	WATER	WATER	WATER	WATER	WATER
UNITS	%	RRF	%	AREA	UG/L
ENV PROBLEM NO					
ACETONE					
BENZENE		0.561	30.1		
BROMODICHLOROMETHANE		0.917	2.7		
BROMOFORM		0.482	3.9		
BROMOMETHANE		0.363	7.4		
CARBON DISULFIDE		0.577	36.1		
CARBON TETRACHLORIDE		3.775	4.6		
CHLOROBENZENE		0.448	5.2		
CHLOROETHANE		0.979	3.3		
CHLOROFORM		0.709	4.7		
CHLOROMETHANE		2.647	3.1		
CIS-1,3-DICHLOROPROPENE		1.107	6.2		
DIBROMOCHLOROMETHANE		0.317	7.1		
ETHYLBENZENE		0.427	4		
METHYLENE CHLORIDE		0.51	3.2		
STYRENE		1.407	3.4		
TETRACHLOROETHENE		1.021	3.2		
TOLUENE		0.458	3.6		
TOLUENE-D8		0.798	3.4		
TRANS-1,3-DICHLOROPROPENE		1.114	2.3		
TRICHLOROETHENE		0.645	3.5		
VINYL ACETATE		0.353	3.2		
VINYL CHLORIDE		0.367	8.5		
XYLENE (TOTAL)		0.978	16.2		
1,1-DICHLOROETHANE		0.599	3		
1,1-DICHLOROETHENE		2.442	3.3		
1,1,1-TRICHLOROETHANE		1.148	3.2		
1,1,2-TRICHLOROETHANE		0.47	3.5		
1,1,2,2-TETRACHLOROETHANE		0.266	3.8		
1,2-DICHLOROETHANE		0.518	2.5		
1,2-DICHLOROETHANE-D4		2.263	3.5		
1,2-DICHLOROETHENE (TOTAL)		1.846	1.3		
1,2-DICHLOROPROPANE		1.314	4		
1,4-BROMOFLUOROBENZENE		0.3	4.4		
2-BUTANONE		0.661	3.2		
2-HEXANONE		0.031	10.1		
4-METHYL-2-PENTANONE		0.275	3.2		
M/E 50		0.393	3.5		

TABLE D.8.33 ARGONNE VOLATILE ORGANICS - SDG NUMBER: 0030 DRAFT DO NOT CITE

AREA	QA	QA	QA	QA	QA		
LOCATION	TUNED	INITIAL CAL	INITIAL CAL	ISTD RET TIM	METHOD		
TYPE OF LOCATION	CALIBRATION	RRF	% RSD	SHIFT	BLANK		
SAMPLE NUMBER	AR1030875	AR1030876	AR1030876	AR1030878	AR103087		
MATRIX	WATER	WATER	WATER	WATER	WATER		
UNITS	%	RRF	%	AREA	UG/L		
ENV PROBLEM NO							
M/E 75	46						
M/E 95	100						
M/E 96	6						
M/E 173-1	0						
M/E 173-2	0						
M/E 174	84						
M/E 175-1	6.8						
M/E 175-2	8.1						
M/E 176-1	81						
M/E 176-2	96						
M/E 177-1	5.2						
M/E 177-2	6.3						
INTERNAL STD AREA(BCM)				2370000	2370000		
INTERNAL STD AREA(CBZ)				9210000	9370000		
INTERNAL STD AREA(DFB)				1E+07	1E+07		
DILUTION FACTOR							
ACTUAL(ALLOWED) HOLD TIME							

TABLE D 8.34 ARGONNE QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
AR406030D					
	AR407019B	109-99-9	TETRAHYDROFURAN	14 J	13.53
	AR407086A	109-99-9	TETRAHYDROFURAN	11 J	13.63
	AR407155D	109-99-9	TETRAHYDROFURAN	14 J	13.53
	AR417011B	109-99-9	TETRAHYDROFURAN	16 J	13.57
GD01					
	AR500604A		2-PROPANOL(8.78)	31 J	8.78
	AR500671A		FURAN, TETRAHYDRO(11.03)	4 J	11.03
	AR500671A		2-PROPANOL(8.79)	14 J	8.79
	AR500682A		UNKNOWN(4.80)	230 JE	4.80
GN11					
	AR307018A		2-PROPANOL(8.98)	18 J	8.98
GN14					
	AR500013A		FURAN, TETRAHYDO(11.20)	31 J	11.20
	AR500013A		2-PROPANOL(8.98)	22 J	8.98
GN15					
	AR500104A		UNKNOWN(4.17)	11 J	4.17
	AR500104A		UNKNOWN(4.87)	860 J	4.87
	AR500104A		UNKNOWN(9.58)	20 J	9.58
	AR500104A		UNKNOWN(13.66)	10 J	13.66
	AR500104A		UNKNOWN(14.46)	8 J	14.46
	AR500104A		UNKNOWN(24.67)	31 J	24.67
	AR500104A		2-PROPANOL(8.82)	8 J	8.82
	AR500115A		UNKNOWN(4.14)	3 J	4.14
	AR500115A		UNKNOWN(4.98)	380 J	4.98
	AR500115A		UNKNOWN(9.58)	4 J	9.58
	AR500115A		UNKNOWN(13.69)	4 J	13.69
	AR500115A		UNKNOWN(19.01)	10 J	19.01
	AR500115A		UNKNOWN(24.70)	16 J	24.70
	AR500228A		UNKNOWN(4.14)	320 J	4.14
	AR500228A		UNKNOWN(4.81)	500 J	4.81
	AR500228A		UNKNOWN(13.70)	7 J	13.70
	AR500228A		UNKNOWN(24.71)	24 J	24.71
GN16					
	AR804032A		UNKNOWN(9.56)	4 J	9.56
	AR805033A		METHANE, TRICHLOROFLUOR(9.11)	5 J	9.11
GN17					

TABLE D 8.34 ARGONNE QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
	AR500239A		BUTANOL(15.55)	5 J	15.55
	AR500239A		DIMETHYLHEXANE(24.67)	73 J	24.67
	AR500239A		ETHANOL(5.38)	47 J	5.38
	AR500239A		UNKNOWN(4.72)	100 J	4.72
	AR500239A		UNKNOWN(13.66)	6 J	13.66
GN19					
	AR500251A		ETHYL ETHER(12.13)	8 J	12.13
	AR500251A		FURAN, TETRAHYDRO-(11.18)	5 J	11.18
	AR500251A		2-PROPANOL(8.91)	50 J	8.91
	AR500320A		FURAN, TETRAHYDRO-(11.15)	5 J	11.15
	AR500375A		ETHYL ETHER(12.15)	9 J	12.15
	AR500375A		FURAN, TETRHYDRO-(11.19)	6 J	11.19
	AR500375A		2-PROPANOL(8.92)	50 J	8.92
	AR500375A		2-PROPANONE(8.23)	9 J	8.23
GN20					
	AR310035A		2-PROPANOL(8.90)	12 J	8.90
	AR500524A		UNKNOWN(4.81)	32 J	4.81
	AR500648A		ACETIC ACID, METHYL ACI(9.68)	6 J	9.68
	AR500648A		UNKNOWN(4.81)	34 J	4.81
GN23					
	AR810052A	75694	TRICHLOROFLUOROMETHANE(9.23)	7 J	9.23
GN30					
	AR500046A		FURAN, TETRAHYDRO-(11.16)	7 J	11.16
	AR500160A		FURAN,TETRAHYDRO-(11.17)	6 J	11.17
	AR500273A		FURAN, TETRAHYDRO-(11.20)	7 J	11.20
	AR500397A		FURAN,TETRAHYDRO-(11.17)	7 J	11.17
	AR500397A		2-PROPANOL(9.06)	10 J	9.06
OD01					
	AR500502A		FURAN, TETRAHYDRO-(11.16)	10 J	11.16
	AR500626A		FURAN, TETRAHYDRO(11.16)	11 J	11.16
	AR500693A		UNKNOWN(4.81)	590 J	4.81
	AR500693A		UNKNOWN(14.50)	8 J	14.50
	AR500693A		UNKNOWN(19.03)	8 J	19.03
ON13					
	AR500068A		ACETIC ACID,METHYL ESTE(9.80)	14 J	9.80
	AR500068A		ETHANOL(5.57)	240 J	5.57
	AR500068A		UNKNOWN(4.91)	350 J	4.91

TABLE D 8.34 ARGONNE QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
ON13					
	AR500068A		UNKNOWN(14.70)	7 J	14.70
	AR500182A		ETHANOL(5.52)	91 J	5.52
	AR500182A		UNKNOWN(4.86)	260 J	4.86
ON14					
	AR500024A		FURAN, TETRAHYDRO(11.30)	18 J	11.30
	AR500024A		UNKNOWN(12.20)	24 J	12.20
	AR500024A		UNKNOWN(14.68)	6 J	14.68
	AR500137A		FURAN, TETRAHYDRO(11.29)	50 J	11.29
	AR500137A		UNKNOWN(11.57)	9 J	11.57
	AR500148A		FURAN, TETRAHYDRO(11.30)	25 J	11.30
	AR500148A		UNKNOWN(9.16)	9 J	9.16
	AR500148A		UNKNOWN(12.20)	15 J	12.20
ON15					
	AR302035A		ACETIC ACID,METHYL ESTER	2 J	9.66
	AR308020A		METHANE, TRICHLOROFLUORO-	24 J	9.22
	AR308031A		ACETIC ACID,METHYL ESTER	2 J	9.70
	AR308031A		METHANE, TRICHLOROFLUORO-	2 J	9.22
	AR500126A		ETHYL ETHER	19 J	12.27
	AR500126A		2-PROPANOL	14 J	8.89
	AR500295A		TETRAHYDROFURAN	4 J	11.12
	AR500295A		2-PROPANOL	11 J	8.89
	AR500411A		UNKNOWN	13 J	4.19
	AR500411A		UNKNOWN	5 J	4.81
	AR500411A		2-PROPANOL	13 J	8.89
	AR817015A		ACETIC ACID, METHYL ESTER	14 J	9.75
	AR817015A		TRICHLOROFLUOROMETHANE	4 J	9.31
ON16					
	AR800061A	79209	ACETIC ACID, METHYL EST(9.70)	3 J	9.70
ON17					
	AR819028A		METHANE, TRICHLOROFLUOR(9.22)	19 J	9.22
ON19					
	AR500240A		FURAN, TETRAHYDRO(11.30)	19 J	11.30
	AR500240A		2-PROPANOL(8.97)	21 J	8.97
ON20					
	AR302013A		UNKNOWN(6.21)	4 J	6.21
	AR302013A		UNKNOWN(17.98)	1 J	17.98

TABLE D 8.34 ARGONNE QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
ON20					
	AR302013A		UNKNOWN(19.75)	6 J	19.75
	AR302013A		UNKNOWN(22.58)	4 J	22.58
	AR310013A		UNKNOWN(6.21)	3 J	6.21
	AR310013A		UNKNOWN(9.15)	2 J	9.15
	AR310013A		UNKNOWN(17.99)	2 J	17.99
	AR310013A		UNKNOWN(19.75)	5 J	19.75
	AR310013A		UNKNOWN(22.58)	3 J	22.58
	AR310024A		UNKNOWN(6.26)	3 J	6.26
	AR310024A		UNKNOWN(9.15)	2 J	9.15
	AR310024A		UNKNOWN(17.95)	2 J	17.95
	AR310024A		UNKNOWN(19.76)	6 J	19.76
	AR310024A		UNKNOWN(22.54)	4 J	22.54
	AR507010A		UNKNOWN(6.21)	4 J	6.21
	AR507010A		UNKNOWN(9.15)	2 J	9.15
	AR507010A		UNKNOWN(18.00)	2 J	18.00
	AR507010A		UNKNOWN(19.76)	7 J	19.76
	AR507010A		UNKNOWN(22.56)	4 J	22.56
	AR507021A		UNKNOWN(6.11)	4 J	6.11
	AR507021A		UNKNOWN(9.15)	2 J	9.15
	AR507021A		UNKNOWN(18.04)	3 J	18.04
	AR507021A		UNKNOWN(19.76)	7 J	19.76
	AR507021A		UNKNOWN(22.55)	4 J	22.55
	AR507032A		UNKNOWN(6.11)	5 J	6.11
	AR507032A		UNKNOWN(9.10)	2 J	9.10
	AR507032A		UNKNOWN(17.99)	5 J	17.99
	AR507032A		UNKNOWN(19.76)	8 J	19.76
	AR507032A		UNKNOWN(22.55)	4 J	22.55
ON21					
	AR311036A		UNKNOWN(11.27)	2 J	11.27
	AR311036A		UNKNOWN(12.31)	7 J	12.31
	AR311036A		UNKNOWN(17.69)	1 J	17.69
	AR500331A		DIMETHYLHEXANE(25.17)	99 J	25.17
	AR500331A		ETHANOL(5.57)	63 J	5.57
	AR500331A		UNKNOWN(5.05)	300 J	5.05
	AR500331A		UNKNOWN(9.80)	30 J	9.80
	AR500331A		UNKNOWN(15.65)	68 J	15.65
	AR500331A		UNKNOWN(19.13)	13 J	19.13
	AR500331A		UNKNOWN(31.44)	6 J	31.44
ON23					
	AR500342A		ACETIC ACID, METHYL EST(9.79)	120 J	9.79
	AR500342A		BUTANOL(15.69)	280 J	15.69
	AR500342A		DIMETHYLHEXANE(25.25)	14 J	25.25
	AR500342A		ETHANOL(5.80)	380 J	5.80
	AR500342A		FURAN, TETRAHYDRO-(11.31)	5 J	11.31

TABLE D 8.34 ARGONNE QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
ON23					
	AR500342A		METHYLDIOXOLANE(13.93)	10 J	13.93
	AR500342A		PYRIDINE(18.55)	20 J	18.55
	AR500342A		UNKNOWN(5.05)	570 J	5.05
	AR500342A		UNKNOWN(14.69)	76 J	14.69
	AR500342A		UNKNOWN(19.16)	190 J	19.16
	AR500342A		UNKNOWN(31.46)	41 J	31.46
	AR500455A		BUTANOL(15.69)	65 J	15.69
	AR500455A		DIMETHYLHEXANE(25.15)	38 J	25.15
	AR500455A		ETHANOL(5.57)	130 J	5.57
	AR500455A		UNKNOWN(4.86)	160 J	4.86
	AR500455A		UNKNOWN(9.84)	72 J	9.84
	AR500466A		ACETIC ACID,METHYL ESTE(9.80)	15 J	9.80
	AR500466A		BUTANOL(15.70)	35 J	15.70
	AR500466A		DIMETHYL HEXANE(25.16)	44 J	25.16
	AR500466A		ETHANOL(5.67)	600 J	5.67
	AR500466A		ETHYL ETHER(12.22)	61 J	12.22
	AR500466A		METHYL DIOXOLANE(13.94)	22 J	13.94
	AR500466A		UNKNOWN(5.05)	1900 J	5.05
	AR500466A		UNKNOWN(9.99)	19 J	9.99
	AR500466A		UNKNOWN(14.70)	13 J	14.70
	AR500466A		UNKNOWN(19.13)	43 J	19.13
	AR500466A		2-PROPANOL(8.99)	18 J	8.99
ON24					
	AR810096A		METHANE, TRICHLOROFLUORO-	7 J	9.30
ON30					
	AR500477A		FURAN, TETRAHYDRO(11.31)	153 J	11.31
	AR500477A		UNKNOWN(23.19)	28 J	23.19
	AR500477A		UNKNOWN(24.73)	81 J	24.73
	AR500477A		UNKNOWN(37.56)	47 J	37.56
	AR500477A		UNKNOWN(55.48)	27 J	55.48
	AR500488A		2-PROPANOL(8.97)	48 J	8.97
	AR500557A		2-PROPANOL(8.94)	20 J	8.94
	AR500568A		UNKNOWN(4.86)	247 J	4.86
	AR500568A		UNKNOWN(7.84)	80 J	7.84
	AR500579A		FURAN, TETRAHYDRO-(11.31)	24 J	11.31
	AR500579A		UNKNOWN(4.95)	1250 J	4.95
	AR500579A		UNKNOWN(6.08)	1500 J	6.08
	AR500579A		UNKNOWN(7.93)	1520 J	7.93
	AR500579A		UNKNOWN(9.84)	354 J	9.84
	AR500579A		UNKNOWN(14.68)	210 J	14.68
	AR500579A		UNKNOWN(15.74)	780 J	15.74
	AR500579A		UNKNOWN(18.53)	23 J	18.53
	AR500579A		UNKNOWN(19.16)	190 J	19.16
	AR500579A		UNKNOWN(25.39)	29 J	25.39

TABLE D 8.34 ARGONNE QC TIC VOLATILE ORGANICS BY SDG NUM

SDG NUM	SMP ID	CAS NUM	ANALYSIS	RESULTS & PREFIX	RETENTION TIME
ON30					
	AR500580A		UNKNOWN(4.91)	139 J	4.91
	AR500580A		UNKNOWN(5.44)	81 J	5.44
	AR500580A		UNKNOWN(14.70)	13 J	14.70
	AR500580A		UNKNOWN(15.70)	48 J	15.70
	AR500591A		FURAN, TETRAHYDRO-(11.30)	158 J	11.30

TABLE D.9 ANALYTICAL DATA SUMMARY FOR TRAVEL BLANKS

AREA

LOCATION							
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	ARN01013A	ARN05017A	ARN07019A	ARN08010A	ARN11015A	ARN12016A	ARN15019A
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	99	99	99	99	99	99	99
INTERNAL STD AREA(CBZ)	8590000	8470000	8580000	8640000	8270000	1E+07	9180000
INTERNAL STD AREA(DFB)	1E+07	1E+07	1E+07	1E+07	1E+07	2E+07	1E+07
DILUTION FACTOR	1	1	1	1	1	1	1
ACTUAL(ALLOWED) HOLD TIME	8(14 D)	7(14 D)	7(14 D)	4(14 D)	4(14 D)	5(14 D)	5(14 D)

AREA

LOCATION							
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	ARN16010A	ARN19013A	ARN21017A	ARN24010A	ARN26012A	ARN28014A	ARN29026A
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	99	99	99	99	99	99	99
ACETONE	4 JB	4 JB	2 JB	5 JB	10 U	4 JB	2 JB
BENZENE	5 U	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	5 U
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	0.9 J	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	2 J	2 J	2 J	2 J	1 J	1 J	1 J
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
ETHYLBENZENE	4 J	5 U	5 U	2 JB	5 U	5 U	5 U
METHYLENE CHLORIDE	4 JB	4 JB	19 B	5 JB	3 JB	2 JB	4 JB
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	5 U	5 U	0.9 JB	1 B	5 U	1 U	0.6 U
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

TABLE D.9 ANALYTICAL DATA SUMMARY FOR TRAVEL BLANKS

AREA

LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
TYPE OF LOCATION							
SAMPLE NUMBER	ARN01013A	ARN05017A	ARN07019A	ARN08010A	ARN11015A	ARN12016A	ARN15019A
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	99	99	99	99	99	99	99
ACETONE	3 JB	3 JB	2 JB	2 JB	2 JB	13 B	4 JB
BENZENE	5 U	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	5 U
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	2 J	2 J	2 J	2 J	2 J	2 J	2 J
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
ETHYLBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	3 JB	4 JB	3 JB	3 JB	3 JB	3 JB	4 JB
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	5 U	5 U	5 U	5 U	5 U	5 U	5 U
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-DICHLOROETHENE (TOTAL)	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	101	99	97	98	99	92	100
SURR 2(BFB) %RECOVERY	102	104	99	100	99	95	94
SURR 3(DCE) %RECOVERY	101	99	100	101	100	92	91
INTERNAL STD AREA(BCM)	2450000	2370000	2370000	2370000	2280000	3830000	2760000

TABLE D.9 ANALYTICAL DATA SUMMARY FOR TRAVEL BLANKS

AREA

LOCATION							
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	ARN16010A	ARN19013A	ARN21017A	ARN24010A	ARN26012A	ARN28014A	ARN29026A
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	99	99	99	99	99	99	99
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-DICHLOROETHENE (TOTAL)	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	102	100	121 *	122 *	103	102	104
SURR 2(BFB) %RECOVERY	102	97	120 *	116 *	103	101	96
SURR 3(DCE) %RECOVERY	94	102	121 *	122 *	91	89	89
INTERNAL STD AREA(BCM)	2460000	2190000	4050000	3760000	3910000	3840000	4950000
INTERNAL STD AREA(CBZ)	7540000	7540000	2E+07	1E+07	2E+07	1E+07	2E+07
INTERNAL STD AREA(DFB)	9360000	9270000	2E+07	2E+07	2E+07	2E+07	3E+07
DILUTION FACTOR	1	1	1	1	1	1	1
ACTUAL(ALLOWED) HOLD TIME	6(14 D)	7(14 D)	7(14 D)	7(14 D)	6(14 D)	6(14 D)	6(14 D)

AREA

LOCATION							
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK				
SAMPLE NUMBER	ARN34012A	ARN36014A	AR406052B				
MATRIX	WATER	WATER	WATER				
UNITS	UG/L	UG/L	UG/L				
ENV PROBLEM NO	99	99	99				
ACETONE	17 B	12 B	10 U				
BENZENE	5 U	5 U	5 U				
BROMODICHLOROMETHANE	5 U	5 U	3 J				
BROMOFORM	5 U	5 U	5 U				

TABLE D.9 ANALYTICAL DATA SUMMARY FOR TRAVEL BLANKS

AREA

LOCATION			TRIP BLANK		
TYPE OF LOCATION	TRIP BLANK		TRIP BLANK		
SAMPLE NUMBER	ARN34012A		ARN36014A		AR406052B
MATRIX	WATER		WATER		WATER
UNITS	UG/L		UG/L		UG/L
ENV PROBLEM NO	99		99		99
BROMOMETHANE	10	U	10	U	10 U
CARBON DISULFIDE	5	U	5	U	5 U
CARBON TETRACHLORIDE	5	U	5	U	5 U
CHLOROBENZENE	5	U	5	U	5 U
CHLOROETHANE	10	U	10	U	10 U
CHLOROFORM	2	J	5	U	24
CHLOROMETHANE	10	U	10	U	10 U
CIS-1,3-DICHLOROPROPENE	5	U	5	U	5 U
DIBROMOCHLOROMETHANE	5	U	5	U	5 U
ETHYLBENZENE	5	U	5	U	5 U
METHYLENE CHLORIDE	8	B	12	B	5 U
STYRENE	5	U	5	U	5 U
TETRACHLOROETHENE	5	U	5	U	5 U
TOLUENE	5	U	5	U	1 J
TRANS-1,3-DICHLOROPROPENE	5	U	5	U	5 U
TRICHLOROETHENE	5	U	5	U	5 U
VINYL ACETATE	10	U	10	U	10 U
VINYL CHLORIDE	10	U	10	U	10 U
XYLENE (TOTAL)	5	U	5	U	5 U
1,1-DICHLOROETHANE	5	U	5	U	5 U
1,1-DICHLOROETHENE	5	U	5	U	5 U
1,1,1-TRICHLOROETHANE	5	U	5	U	5 U
1,1,2-TRICHLOROETHANE	5	U	5	U	5 U
1,1,2,2-TETRACHLOROETHANE	5	U	5	U	10 U
1,2-DICHLOROETHANE	5	U	5	U	5 U
1,2-DICHLOROETHENE (TOTAL)	5	U	5	U	5 U
1,2-DICHLOROPROPANE	5	U	5	U	5 U
2-BUTANONE	10	U	10	U	10 U
2-HEXANONE	10	U	10	U	10 U
4-METHYL-2-PENTANONE	10	U	10	U	10 U
SURR 1(TOL) %RECOVERY	99		98		103
SURR 2(BFB) %RECOVERY	112		112		108
SURR 3(DCE) %RECOVERY	116	*	119	*	87
INTERNAL STD AREA(BCM)	1910000		1890000		38400
INTERNAL STD AREA(CBZ)	6490000		6240000		151000
INTERNAL STD AREA(DFB)	8030000		7670000		166000
DILUTION FACTOR	1		1		1

TABLE D.9 ANALYTICAL DATA SUMMARY FOR TRAVEL BLANKS

AREA

LOCATION			TRIP BLANK				
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK					
SAMPLE NUMBER	ARN34012A	ARN36014A	AR406052B				
MATRIX	WATER	WATER	WATER				
UNITS	UG/L	UG/L	UG/L				
ENV PROBLEM NO	99	99	99				
ACTUAL(ALLOWED) HOLD TIME	12(14 D)	12(14 D)	64(14 D)				

Appendix E

RADIOLOGICAL QC DATA TABLES

Appendix E

The QC data for ORNL and Battelle radiological analysis are presented in this appendix.

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
AR400012L	H-3	6100.00	5530.00	10.20	PCI/L	PACKARD	04JAN1988	MS
AR400012L	H-3	6100.00	5530.00	10.20	PCI/L	PACKARD	04JAN1988	MS
AR400012L	H-3	6100.00	5530.00	10.20	PCI/L	PACKARD	04JAN1988	MS
AR400012L	H-3	6100.00	5530.00	10.20	PCI/L	PACKARD	04JAN1988	MS
AR400012L	H-3	6100.00	5530.00	10.20	PCI/L	PACKARD	04JAN1988	MS
AR400012L	H-3	6100.00	5530.00	10.20	PCI/L	PACKARD	04JAN1988	MS
AR400012L	H-3	6100.00	5530.00	10.20	PCI/L	PACKARD	04JAN1988	MS
AR400012L	H-3	6100.00	5530.00	10.20	PCI/L	PACKARD	04JAN1988	MS
AR400012L	H-3	6100.00	5530.00	10.20	PCI/L	PACKARD	04JAN1988	MS
AR400012L	H-3	6100.00	5530.00	10.20	PCI/L	PACKARD	04JAN1988	MS
AR400012L	H-3	6100.00	5530.00	10.20	PCI/L	PACKARD	04JAN1988	MS
AR401013J	GROSS BETA	0.00			PCI/L	LB4000	16DEC1987	DUP
AR401024D	CO-60	5.00			PCI/L	ND-9900	11DEC1987	DUP
AR401024D	CS-137	5.00			PCI/L	ND-9900	11DEC1987	DUP
AR401024D	GROSS ALPHA	9.00			PCI/L	LB4000	16DEC1987	DUP
AR401024D	GROSS BETA	2.40			PCI/L	LB4000	16DEC1987	DUP
AR401024D	PU-238	0.02			PCI/L	ND-9900	13JAN1988	DUP
AR401024D	PU-239	0.00			PCI/L	ND-9900	13JAN1988	DUP
AR413062J	GROSS BETA	-6.83			PCI/L	BETA-67	21DEC1987	DUP
AR415019I	H-3	610.00			PCI/L	PACKARD	04JAN1988	DUP
AR419024I	SR-90	1.90			PCI/L	TENNELEC	08DEC1987	DUP
AR419024J	CO-60	995.00	974.00	2.20	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CO-60	995.00	974.00	2.20	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CO-60	995.00	974.00	2.20	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CO-60	995.00	974.00	2.20	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CO-60	995.00	974.00	2.20	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CO-60	995.00	974.00	2.20	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CO-60	995.00	974.00	2.20	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CO-60	995.00	974.00	2.20	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CO-60	995.00	974.00	2.20	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CO-60	995.00	974.00	2.20	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CO-60	995.00	974.00	2.20	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	15DEC1987	MS
AR419024J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	15DEC1987	MS
AR420016J	CO-60	4.00			PCI/L	ND-9900	16DEC1987	DUP
AR420016J	CS-137	4.00			PCI/L	ND-9900	16DEC1987	DUP
AR420016J	GROSS ALPHA	0.00			PCI/L	LB4000	16DEC1987	DUP
AR420016J	GROSS BETA	0.00			PCI/L	LB4000	16DEC1987	DUP
AR420016J	PU-238	0.00			PCI/L	ND-9900	15JAN1988	DUP
AR420016J	PU-239	0.00			PCI/L	ND-9900	15JAN1988	DUP
AR420016J	U-234	0.00			UG/L	ND-9900	15JAN1988	DUP
AR420016J	U-235	0.01			UG/L	ND-9900	15JAN1988	DUP
AR420016J	U-238	4.29			UG/L	ND-9900	15JAN1988	DUP
AR420027J	CO-60	1000.00	974.00	2.70	PCI/L	ND-9900	16DEC1987	MS

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
AR420027J	CO-60	1000.00	974.00	2.70	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CO-60	1000.00	974.00	2.70	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CO-60	1000.00	974.00	2.70	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CO-60	1000.00	974.00	2.70	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CO-60	1000.00	974.00	2.70	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CO-60	1000.00	974.00	2.70	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CO-60	1000.00	974.00	2.70	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CO-60	1000.00	974.00	2.70	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CO-60	1000.00	974.00	2.70	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CO-60	1000.00	974.00	2.70	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	16DEC1987	MS
AR420027J	CS-137	862.00	781.00	10.40	PCI/L	ND-9900	16DEC1987	MS
AR420027J	GROSS ALPHA	5000.00	4900.00	2.00	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS ALPHA	5000.00	4900.00	2.00	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS ALPHA	5000.00	4900.00	2.00	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS ALPHA	5000.00	4900.00	2.00	PCI/KGD	LB4000	15DEC1987	MS
AR420027J	GROSS ALPHA	5000.00	4900.00	2.00	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS ALPHA	5000.00	4900.00	2.00	PCI/KGD	LB4000	15DEC1987	MS
AR420027J	GROSS ALPHA	5000.00	4900.00	2.00	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS ALPHA	5000.00	4900.00	2.00	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS ALPHA	5000.00	4900.00	2.00	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS BETA	6850.00	6100.00	12.20	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS BETA	6850.00	6100.00	12.20	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS BETA	6850.00	6100.00	12.20	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS BETA	6850.00	6100.00	12.20	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS BETA	6850.00	6100.00	12.20	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS BETA	6850.00	6100.00	12.20	PCI/L	LB4000	15DEC1987	MS
AR420027J	GROSS BETA	6850.00	6100.00	12.20	PCI/L	LB4000	15DEC1987	MS
AR420027J	PU-239	23.38	27.12	-13.80	PCI/L	ND-9900	12FEB1988	MS
AR420027J	PU-239	23.38	27.12	-13.80	PCI/L	ND-9900	12FEB1988	MS
AR420027J	PU-239	31.89	35.68	-10.60	PCI/L	ND-9900	13JAN1988	MS
AR420027J	PU-239	31.89	35.68	-10.60	PCI/L	ND-9900	13JAN1988	MS
AR420027J	U-234	21.90	21.55	1.62	PCI/L	ND-9900	15JAN1988	MS
AR420027J	U-235	0.95	0.90	5.09	PCI/L	ND-9900	15JAN1988	MS
AR420027J	U-238	21.60	21.28	1.50	PCI/L	ND-9900	15JAN1988	MS
AR501036G	GROSS ALPHA	563000.00	430000.00	31.00	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS ALPHA	563000.00	430000.00	31.00	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS ALPHA	563000.00	430000.00	31.00	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS ALPHA	563000.00	430000.00	31.00	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS ALPHA	563000.00	430000.00	31.00	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS ALPHA	563000.00	430000.00	31.00	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS ALPHA	563000.00	430000.00	31.00	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS ALPHA	563000.00	430000.00	31.00	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS BETA	506000.00	488000.00	3.70	PCI/KGD	LB4000	10DEC1987	MS

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
AR501036G	GROSS BETA	506000.00	488000.00	3.70	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS BETA	506000.00	488000.00	3.70	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS BETA	506000.00	488000.00	3.70	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS BETA	506000.00	488000.00	3.70	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS BETA	506000.00	488000.00	3.70	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS BETA	506000.00	488000.00	3.70	PCI/KGD	LB4000	10DEC1987	MS
AR501036G	GROSS BETA	506000.00	488000.00	3.70	PCI/KGD	LB4000	10DEC1987	MS
AR501047G	CO-60	8600.00			PCI/KGD	ND-9900	11JAN1988	DUP
AR501047G	CS-134	320.00			PCI/KGD	ND-9900	11JAN1988	DUP
AR501047G	CS-137	41000.00			PCI/KGD	ND-9900	11JAN1988	DUP
AR501047G	EU-152	2100.00			PCI/KGD	ND-9900	11JAN1988	DUP
AR501047G	EU-155	3400.00			PCI/KGD	ND-9900	11JAN1988	DUP
AR501047G	GROSS ALPHA	110000.00			PCI/KGD	LB4000	10DEC1987	DUP
AR501047G	GROSS BETA	64000.00			PCI/KGD	LB4000	10DEC1987	DUP
AR501047G	K-40	5900.00			PCI/KGD	ND-9900	11JAN1988	DUP
AR501047G	SB-125	1400.00			PCI/KGD	ND-9900	11JAN1988	DUP
AR501047G	GROSS BETA	6850.00	6100.00	12.20	PCI/L	LB4000	15DEC1987	MS
AR802018G	H-3	0.00			PCI/KGD	PACKARD	29JAN1988	DUP
AR802018H	CO-60	40.00			PCI/KGD	ND-9900	19JAN1988	DUP
AR802018H	CS-137	660.00			PCI/KGD	ND-9900	19JAN1988	DUP
AR802018H	K-40	20000.00			PCI/KGD	ND-9900	19JAN1988	DUP
AR802018H	PU-238	0.00			PCI/KGD	ND-9900	16DEC1987	DUP
AR802018H	PU-239	0.00			PCI/KGD	ND-9900	16DEC1987	DUP
AR802018H	SR-TOT	600.00			PCI/KGD	TENNELEC	15DEC1987	DUP
AR802029G	H-3	2000.00			PCI/KGD	PACKARD	29JAN1988	DUP
AR802029H	CO-60	30.00			PCI/KGD	ND-9900	20JAN1988	DUP
AR802029H	CS-137	460.00			PCI/KGD	ND-9900	20JAN1988	DUP
AR802029H	K-40	17000.00			PCI/KGD	ND-9900	20JAN1988	DUP
AR802029H	PU-238	1.60			PCI/KGD	ND-9900	16DEC1987	DUP
AR802029H	PU-239	3.00			PCI/KGD	ND-9900	16DEC1987	DUP
AR802029H	SR-TOT	0.00			PCI/KGD	TENNELEC	15DEC1987	DUP
AR802030G	H-3	22000.00			PCI/KGD	PACKARD	29JAN1988	DUP
AR802041G	H-3	4000.00			PCI/KGD	PACKARD	29JAN1988	DUP
AR802052G	H-3	9000.00			PCI/KGD	PACKARD	29JAN1988	DUP
AR802074G	PU-239	3946.00	4468.00	-11.70	PCI/KGD	ND-9900	16DEC1987	MS
AR802074G	PU-239	2265.00	2530.00	-10.50	PCI/KGD	ND-9900	12FEB1988	MS
AR802074G	PU-239	2265.00	2530.00	-10.50	PCI/KGD	ND-9900	12FEB1988	MS
AR802074G	PU-239	3946.00	4468.00	-11.70	PCI/KGD	ND-9900	16DEC1987	MS
AR802085H	SR-90	285000.00	299000.00	-4.70	PCI/KGD	TENNELEC	15DEC1987	MS
AR802085H	SR-TOT	285000.00	299000.00	-4.70	PCI/KGD	TENNELEC	15DEC1987	MS
AR802085H	SR-TOT	285000.00	299000.00	-4.70	PCI/KGD	TENNELEC	15DEC1987	MS
AR802085H	SR-TOT	285000.00	299000.00	-4.70	PCI/KGD	TENNELEC	15DEC1987	MS
AR802085H	SR-TOT	285000.00	299000.00	-4.70	PCI/KGD	TENNELEC	15DEC1987	MS
AR802085H	SR-TOT	285000.00	299000.00	-4.70	PCI/KGD	TENNELEC	15DEC1987	MS
AR802085H	SR-TOT	285000.00	299000.00	-4.70	PCI/KGD	TENNELEC	15DEC1987	MS
AR802085H	SR-TOT	285000.00	299000.00	-4.70	PCI/KGD	TENNELEC	15DEC1987	MS
AR802085H	SR-TOT	285000.00	299000.00	-4.70	PCI/KGD	TENNELEC	15DEC1987	MS
AR802085H	SR-TOT	285000.00	299000.00	-4.70	PCI/KGD	TENNELEC	15DEC1987	MS
AR802085K	SR-TOT	285000.00	299000.00	-4.70	PCI/KGD	TENNELEC	15DEC1987	MS
AR806012F	H-3	220000.00	234000.00	-6.00	PCI/KGD	PACKARD	01FEB1988	MS
AR806012G	CO-60	40.00			PCI/KGD	ND-9900	15JAN1988	DUP
AR806012G	CS-137	1300.00			PCI/KGD	ND-9900	15JAN1988	DUP

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
AR806012G	K-40	13000.00			PCI/KGD	ND-9900	15JAN1988	DUP
AR806012G	PU-238	27.00			PCI/KGD	ND-9900	16DEC1987	DUP
AR806012G	PU-239	2300.00			PCI/KGD	ND-9900	16DEC1987	DUP
AR806012G	SR-TOT	1400.00			PCI/KGD	TENNELEC	14DEC1987	DUP
AR806045F	H-3	12000.00			PCI/KGD	PACKARD	01JAN1988	DUP
AR806090K	SR-90	626.00	609.00	2.80	PCI/L	TENNELEC	11DEC1987	MS
AR806090K	SR-TOT	626.00	609.00	2.80	PCI/L	TENNELEC	11DEC1987	MS
AR806090K	SR-TOT	626.00	609.00	2.80	PCI/L	TENNELEC	11DEC1987	MS
AR806090K	SR-TOT	626.00	609.00	2.80	PCI/L	TENNELEC	11DEC1987	MS
AR806090K	SR-TOT	626.00	609.00	2.80	PCI/L	TENNELEC	11DEC1987	MS
AR806090K	SR-TOT	626.00	609.00	2.80	PCI/L	TENNELEC	11DEC1987	MS
AR806090K	SR-TOT	626.00	609.00	2.80	PCI/L	TENNELEC	11DEC1987	MS
AR806090K	SR-TOT	626.00	609.00	2.80	PCI/L	TENNELEC	11DEC1987	MS
AR806090K	SR-TOT	626.00	609.00	2.80	PCI/L	TENNELEC	11DEC1987	MS
AR806090K	SR-TOT	626.00	609.00	2.80	PCI/L	TENNELEC	11DEC1987	MS
AR806090K	SR-TOT	626.00	609.00	2.80	PCI/L	TENNELEC	11DEC1987	MS
AR811031A	H-3	3000.00			PCI/KGD	PACKARD	01FEB1988	DUP
AR811031B	CO-60	2100.00			PCI/KGD	ND-9900	17JAN1988	DUP
AR811031B	CS-137	8200.00			PCI/KGD	ND-9900	17JAN1988	DUP
AR811031B	K-40	16000.00			PCI/KGD	ND-9900	17JAN1988	DUP
AR811031B	PU-238	11.00			PCI/KGD	ND-9900	13JAN1988	DUP
AR811031B	PU-239	73.00			PCI/KGD	ND-9900	13JAN1988	DUP
AR811031B	SR-TOT	1800.00			PCI/KGD	TENNELEC	14DEC1987	DUP
BLANK	CO-60	2.90	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CO-60	2.90	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CO-60	2.90	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CO-60	2.90	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CO-60	2.90	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CO-60	2.90	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CO-60	2.90	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CO-60	2.90	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CO-60	2.90	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CO-60	2.90	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CO-60	2.90	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CS-137	2.70	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CS-137	2.70	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CS-137	2.70	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CS-137	2.70	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CS-137	2.70	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CS-137	2.70	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CS-137	2.70	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CS-137	2.70	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CS-137	2.70	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CS-137	2.70	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	CS-137	2.70	0.00		PCI/L	ND-9900	16DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS ALPHA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	5.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	5.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	5.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	5.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	5.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	5.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	0.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	5.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	GROSS BETA	5.00	0.00		PCI/L	LB4000	10DEC1987	MB
BLANK	H-3	7.88	0.00		CPM	PACKARD	04JAN1988	MB
BLANK	H-3	7.88	0.00		CPM	PACKARD	04JAN1988	MB
BLANK	H-3	7.88	0.00		CPM	PACKARD	04JAN1988	MB
BLANK	H-3	7.88	0.00		CPM	PACKARD	04JAN1988	MB
BLANK	H-3	7.88	0.00		CPM	PACKARD	04JAN1988	MB
BLANK	H-3	7.88	0.00		CPM	PACKARD	04JAN1988	MB
BLANK	H-3	7.88	0.00		CPM	PACKARD	04JAN1988	MB
BLANK	H-3	7.88	0.00		CPM	PACKARD	04JAN1988	MB
BLANK	H-3	7.88	0.00		CPM	PACKARD	04JAN1988	MB
BLANK	H-3	7.88	0.00		CPM	PACKARD	04JAN1988	MB
BLANK	H-3	7.88	0.00		CPM	PACKARD	04JAN1988	MB
BLANK	H-3	7.98	0.00		CPM	PACKARD	01FEB1988	MB
BLANK	H-3	7.98	0.00		CPM	PACKARD	01FEB1988	MB
BLANK	H-3	8.10	0.00		CPM	PACKARD	29JAN1988	MB
BLANK	PU-238	-0.10	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-238	0.00	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-238	-0.10	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-238	0.00	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-238	0.00	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-238	-0.10	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-238	0.00	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-238	-0.10	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-238	-0.10	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-238	0.00	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-238	0.00	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-238	0.00	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-238	0.00	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-238	-0.10	0.00		PCI/TOT	ND-9900	13JAN1988	MB

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
BLANK	PU-238	-0.10	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-238	0.00	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-238	-0.10	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-238	0.00	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-238	-0.10	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-238	-0.10	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	13JAN1988	MB
BLANK	PU-239	-0.01	0.00		PCI/TOT	ND-9900	16DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	-0.23	0.00		PCI/TOT	TENNELEC	14DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	-0.23	0.00		PCI/TOT	TENNELEC	14DEC1987	MB
BLANK	SR-90	-0.23	0.00		PCI/TOT	TENNELEC	14DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	-0.23	0.00		PCI/TOT	TENNELEC	14DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	-0.23	0.00		PCI/TOT	TENNELEC	14DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	-0.23	0.00		PCI/TOT	TENNELEC	14DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	-0.23	0.00		PCI/TOT	TENNELEC	14DEC1987	MB
BLANK	SR-90	-0.23	0.00		PCI/TOT	TENNELEC	14DEC1987	MB
BLANK	SR-90	-0.23	0.00		PCI/TOT	TENNELEC	14DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	-0.23	0.00		PCI/TOT	TENNELEC	14DEC1987	MB
BLANK	SR-90	0.05	0.00		PCI/TOT	TENNELEC	11DEC1987	MB
BLANK	SR-90	-0.23	0.00		PCI/TOT	TENNELEC	14DEC1987	MB
BLANK	SR-90	-0.23	0.00		PCI/TOT	TENNELEC	14DEC1987	MB
BLANK	U-234	-0.02	0.00		PCI/TOT	ND-9900	15JAN1988	MB
BLANK	U-235	-0.03	0.00		PCI/TOT	ND-9900	15JAN1988	MB

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
BLANK	U-238	-0.00	0.00		PCI/TOT	ND-9900	15JAN1988	MB
B11080	H-3	13.82	0.00		CPM	7804114	11DEC1987	MB
B11080	H-3	14.15	0.00		CPM	7804114	14JAN1988	MB
B11080	H-3	14.17	0.00		CPM	7804114	28DEC1987	MB
B11080	H-3	14.12	0.00		CPM	7804114	16DEC1987	MB
B11080	H-3	14.53	0.00		CPM	7804114	31DEC1987	MB
H277092	H-3	37918.00	38244.00	-0.90	CPM	7804114	14JAN1988	CNTRL
H277092	H-3	38241.00	38244.00		CPM	7804114	28DEC1987	CNTRL
H277092	H-3	38383.00	38244.00	0.40	CPM	7804114	31DEC1987	CNTRL
H277092	H-3	38080.00	38244.00	-0.40	CPM	7804114	16DEC1987	CNTRL
H277092	H-3	38244.00	38244.00		CPM	7804114	11DEC1987	CNTRL
PNL-11	SR-90	8720.00	8699.00	0.20	CPM	LOBETA-3	11DEC1987	CNTRL
PNL-11	SR-90	8699.00	8699.00		CPM	LOBETA-3	08DEC1987	CNTRL
PNL-11	SR-90	8637.00	8699.00	-0.70	CPM	LOBETA-3	08JAN1988	CNTRL
PNL-11	SR-90	8701.00	8699.00		CPM	LOBETA-3	22DEC1987	CNTRL
PNL-17	SR-90	8646.00	8677.00	-0.40	CPM	LOBETA-1	12JAN1988	CNTRL
PNL-17	SR-90	8677.00	8677.00		CPM	LOBETA-1	09DEC1987	CNTRL
PNL-17	SR-90	8674.00	8677.00		CPM	LOBETA-1	08JAN1988	CNTRL
PNL-17	SR-90	8676.00	8677.00		CPM	LOBETA-1	22DEC1987	CNTRL
PNL-17	SR-90	8701.00	8677.00	0.30	CPM	LOBETA-1	11DEC1987	CNTRL
PNL-2	GROSS BETA	8229.00	8291.00	-0.70	CPM	BETA-66	11JAN1988	CNTRL
PNL-2	GROSS BETA	8282.00	8291.00	-0.10	CPM	BETA-66	29DEC1987	CNTRL
PNL-2	GROSS BETA	8291.00	8291.00		CPM	BETA-66	11DEC1987	CNTRL
PNL-2	SR-90	8229.00	8291.00	-0.70	CPM	BETA-66	11JAN1988	CNTRL
PNL-2	SR-90	8282.00	8291.00	-0.10	CPM	BETA-66	29DEC1987	CNTRL
PNL-2	SR-90	8291.00	8291.00		CPM	BETA-66	11DEC1987	CNTRL
PNL-3	GROSS BETA	8412.00	8408.00		CPM	BETA-67	29DEC1987	CNTRL
PNL-3	GROSS BETA	8399.00	8408.00	-0.10	CPM	BETA-67	11JAN1988	CNTRL
PNL-3	GROSS BETA	8408.00	8408.00		CPM	BETA-67	11DEC1987	CNTRL
PNL-3	SR-90	8408.00	8408.00		CPM	BETA-67	11DEC1987	CNTRL
PNL-3	SR-90	8412.00	8408.00		CPM	BETA-67	29DEC1987	CNTRL
PNL-3	SR-90	8399.00	8408.00	-0.10	CPM	BETA-67	11JAN1988	CNTRL
RNS2-131A	H-3	560.10	544.40	2.90	PCI/ML	PACKARD	04JAN1988	CNTRL
RNS2-131A	H-3	560.10	544.40	2.90	PCI/ML	PACKARD	04JAN1988	CNTRL
RNS2-131A	H-3	560.10	544.40	2.90	PCI/ML	PACKARD	04JAN1988	CNTRL
RNS2-131A	H-3	560.10	544.40	2.90	PCI/ML	PACKARD	04JAN1988	CNTRL
RNS2-131A	H-3	560.10	544.40	2.90	PCI/ML	PACKARD	04JAN1988	CNTRL
RNS2-131A	H-3	560.10	544.40	2.90	PCI/ML	PACKARD	04JAN1988	CNTRL
RNS2-131A	H-3	560.10	544.40	2.90	PCI/ML	PACKARD	04JAN1988	CNTRL
RNS2-131A	H-3	560.10	544.40	2.90	PCI/ML	PACKARD	04JAN1988	CNTRL
RNS2-131A	H-3	560.10	544.40	2.90	PCI/ML	PACKARD	04JAN1988	CNTRL
RNS2-131A	H-3	560.10	544.40	2.90	PCI/ML	PACKARD	04JAN1988	CNTRL
RNS2-131A	H-3	538.60	549.50	-2.00	PCI/ML	PACKARD	29JAN1988	CNTRL
RNS2-131A	H-3	502.70	541.80	-7.20	PCI/ML	PACKARD	01FEB1988	CNTRL
RNS2-131A	H-3	506.40	541.80	-6.50	PCI/ML	PACKARD	01FEB1988	CNTRL
RNS2-20A	PU-239	4.54	6.78	-33.00	PCI/ML	ND-9900	16DEC1987	CNTRL
RNS2-20A	PU-239	5.30	6.78	-21.80	PCI/ML	ND-9900	13JAN1988	CNTRL
RNS2-20A	PU-239	6.00	6.78	-11.50	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.00	6.78	-11.50	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.31	6.78	-6.90	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	5.30	6.78	-21.80	PCI/ML	ND-9900	13JAN1988	CNTRL
RNS2-20A	PU-239	5.30	6.78	-21.80	PCI/ML	ND-9900	13JAN1988	CNTRL
RNS2-20A	PU-239	4.54	6.78	-33.00	PCI/ML	ND-9900	16DEC1987	CNTRL
RNS2-20A	PU-239	6.31	6.78	-6.90	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.00	6.78	-11.50	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	4.54	6.78	-33.00	PCI/ML	ND-9900	16DEC1987	CNTRL
RNS2-20A	PU-239	4.54	6.78	-33.00	PCI/ML	ND-9900	16DEC1987	CNTRL
RNS2-20A	PU-239	4.54	6.78	-33.00	PCI/ML	ND-9900	16DEC1987	CNTRL
RNS2-20A	PU-239	5.30	6.78	-21.80	PCI/ML	ND-9900	13JAN1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	6.00	6.78	-11.50	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.31	6.78	-6.90	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	5.30	6.78	-21.80	PCI/ML	ND-9900	13JAN1988	CNTRL
RNS2-20A	PU-239	6.31	6.78	-6.90	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	6.00	6.78	-11.50	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.00	6.78	-11.50	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	4.54	6.78	-33.00	PCI/ML	ND-9900	16DEC1987	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	5.30	6.78	-21.80	PCI/ML	ND-9900	13JAN1988	CNTRL
RNS2-20A	PU-239	6.31	6.78	-6.90	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.00	6.78	-11.50	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.00	6.78	-11.50	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	4.54	6.78	-33.00	PCI/ML	ND-9900	16DEC1987	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	5.30	6.78	-21.80	PCI/ML	ND-9900	13JAN1988	CNTRL
RNS2-20A	PU-239	6.31	6.78	-6.90	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	4.54	6.78	-33.00	PCI/ML	ND-9900	16DEC1987	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	6.31	6.78	-6.90	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	4.54	6.78	-33.00	PCI/ML	ND-9900	16DEC1987	CNTRL
RNS2-20A	PU-239	6.00	6.78	-11.50	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	5.30	6.78	-21.80	PCI/ML	ND-9900	13JAN1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	5.30	6.78	-21.80	PCI/ML	ND-9900	13JAN1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	6.00	6.78	-11.50	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.31	6.78	-6.90	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	6.00	6.78	-11.50	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL
RNS2-20A	PU-239	5.30	6.78	-21.80	PCI/ML	ND-9900	13JAN1988	CNTRL
RNS2-20A	PU-239	4.54	6.78	-33.00	PCI/ML	ND-9900	16DEC1987	CNTRL
RNS2-20A	PU-239	6.13	6.78	-9.60	PCI/ML	ND-9900	12FEB1988	CNTRL

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
RNS2-20A	PU-239	4.54	6.78	-33.00	PCI/ML	ND-9900	16DEC1987	CNTRL
RNS2-20A	PU-239	6.31	6.78	-6.90	PCI/ML	ND-9900	10FEB1988	CNTRL
RNS2-31B	GROSS ALPHA	54.70	49.00	11.60	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	44.60	49.00	-9.00	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	41.70	49.00	14.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	50.20	49.00	2.40	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	54.70	49.00	11.60	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	49.70	49.00	1.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	45.60	49.00	-6.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	49.70	49.00	1.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	54.70	49.00	11.60	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	45.60	49.00	-6.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	44.60	49.00	-9.00	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	41.70	49.00	14.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	49.70	49.00	1.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	50.20	49.00	2.40	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	54.70	49.00	11.60	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	50.20	49.00	2.40	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	50.20	49.00	2.40	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	44.60	49.00	-9.00	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	44.60	49.00	-9.00	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	41.70	49.00	14.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	49.70	49.00	1.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	45.60	49.00	-6.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	50.20	49.00	2.40	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	45.60	49.00	-6.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	45.60	49.00	-6.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	44.60	49.00	-9.00	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	41.70	49.00	14.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	49.70	49.00	1.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	41.70	49.00	14.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	54.70	49.00	11.60	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	54.70	49.00	11.60	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	50.20	49.00	2.40	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	50.20	49.00	2.40	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	44.60	49.00	-9.00	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	54.70	49.00	11.60	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	44.60	49.00	-9.00	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	54.70	49.00	11.60	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	45.60	49.00	-6.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	41.70	49.00	14.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	49.70	49.00	1.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	49.70	49.00	1.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	49.70	49.00	1.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	45.60	49.00	-6.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	45.60	49.00	-6.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	44.60	49.00	-9.00	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	41.70	49.00	14.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	41.70	49.00	14.90	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS ALPHA	50.20	49.00	2.40	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	56.50	61.00		PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	61.20	61.00	0.30	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	56.50	61.00	-7.40	PCI/ML	LB4000	16DEC1987	CNTRL

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
RNS2-31B	GROSS BETA	60.30	61.00	-1.10	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	56.50	61.00	-7.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	64.20	61.00	5.20	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	60.30	61.00		PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	64.20	61.00	5.20	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	66.60	61.00	9.20	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	60.30	61.00	-1.10	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	60.30	61.00	-1.10	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	66.60	61.00	9.20	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	61.20	61.00	0.30	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	64.20	61.00	5.20	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	65.90	61.00	8.00	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	60.30	61.00	-1.10	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	65.90	61.00	8.00	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	66.60	61.00	9.20	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	56.50	61.00	-7.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	66.60	61.00	9.20	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	56.50	61.00	-7.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	64.20	61.00	5.20	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	61.20	61.00	0.30	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	61.20	61.00	0.30	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	56.50	61.00	-7.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	64.20	61.00	5.20	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	61.20	61.00	0.30	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	65.90	61.00	8.00	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	10.30	61.00	-1.10	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	64.20	61.00		PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	66.60	61.00	9.20	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	65.90	61.00	8.00	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	61.20	61.00		PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	65.90	61.00		PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	66.60	61.00		PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	64.20	61.00	5.20	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	56.50	61.00	-7.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	61.20	61.00	0.30	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	60.30	61.00	-1.10	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	65.90	61.00	8.00	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	66.60	61.00	9.20	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	65.90	61.00	8.00	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	64.20	61.00	5.20	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	61.20	61.00	0.30	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	66.60	61.00	9.20	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	65.90	61.00	8.00	PCI/ML	LB4000	10DEC1987	CNTRL
RNS2-31B	GROSS BETA	60.30	61.00	-1.10	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-31B	GROSS BETA	56.50	61.00	-7.40	PCI/ML	LB4000	16DEC1987	CNTRL
RNS2-41A	SR-90	149.00	151.00	-1.30	PCI/ML	TENNELEC	08DEC1987	CNTRL
RNS2-41A	SR-90	145.00	151.00	-4.00	PCI/ML	TENNELEC	15DEC1987	CNTRL
RNS2-41A	SR-90	148.00	151.00	-2.00	PCI/ML	TENNELEC	14DEC1987	CNTRL
RNS2-41A	SR-90	148.00	151.00	-2.00	PCI/ML	TENNELEC	14DEC1987	CNTRL
RNS2-41A	SR-90	145.00	151.00	-4.00	PCI/ML	TENNELEC	15DEC1987	CNTRL
RNS2-41A	SR-90	154.00	151.00	2.00	PCI/ML	TENNELEC	11DEC1987	CNTRL
RNS2-41A	SR-90	149.00	151.00	-1.30	PCI/ML	TENNELEC	08DEC1987	CNTRL
RNS2-41A	SR-90	149.00	151.00	-1.30	PCI/ML	TENNELEC	08DEC1987	CNTRL

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
RNS2-41A	SR-90	154.00	151.00	2.00	PCI/ML	TENNELEC	11DEC1987	CNTRL
RNS2-41A	SR-90	148.00	151.00	-2.00	PCI/ML	TENNELEC	14DEC1987	CNTRL
RNS2-41A	SR-90	145.00	151.00	-4.00	PCI/ML	TENNELEC	15DEC1987	CNTRL
RNS2-41A	SR-90	154.00	151.00	2.00	PCI/ML	TENNELEC	11DEC1987	CNTRL
RNS2-41A	SR-90	148.00	151.00	-2.00	PCI/ML	TENNELEC	14DEC1987	CNTRL
RNS2-41A	SR-90	154.00	151.00	2.00	PCI/ML	TENNELEC	11DEC1987	CNTRL
RNS2-41A	SR-90	149.00	151.00	-1.30	PCI/ML	TENNELEC	08DEC1987	CNTRL
RNS2-41A	SR-90	145.00	151.00	-4.00	PCI/ML	TENNELEC	15DEC1987	CNTRL
RNS2-41A	SR-90	154.00	151.00	2.00	PCI/ML	TENNELEC	11DEC1987	CNTRL
RNS2-41A	SR-90	149.00	151.00	-1.30	PCI/ML	TENNELEC	08DEC1987	CNTRL
RNS2-41A	SR-90	148.00	151.00	-2.00	PCI/ML	TENNELEC	14DEC1987	CNTRL
RNS2-41A	SR-90	148.00	151.00	-2.00	PCI/ML	TENNELEC	14DEC1987	CNTRL
RNS2-41A	SR-90	148.00	151.00	-2.00	PCI/ML	TENNELEC	14DEC1987	CNTRL
RNS2-41A	SR-90	154.00	151.00	2.00	PCI/ML	TENNELEC	11DEC1987	CNTRL
RNS2-41A	SR-90	154.00	151.00	2.00	PCI/ML	TENNELEC	11DEC1987	CNTRL
RNS2-41A	SR-90	148.00	151.00	-2.00	PCI/ML	TENNELEC	14DEC1987	CNTRL
RNS2-41A	SR-90	145.00	151.00	-4.00	PCI/ML	TENNELEC	15DEC1987	CNTRL
RNS2-41A	SR-90	145.00	151.00	-4.00	PCI/ML	TENNELEC	15DEC1987	CNTRL
RNS2-41A	SR-90	145.00	151.00	-4.00	PCI/ML	TENNELEC	15DEC1987	CNTRL
RNS2-41A	SR-90	154.00	151.00	2.00	PCI/ML	TENNELEC	11DEC1987	CNTRL
RNS2-41A	SR-90	149.00	151.00	-1.30	PCI/ML	TENNELEC	08DEC1987	CNTRL
RNS2-41A	SR-90	149.00	151.00	-1.30	PCI/ML	TENNELEC	08DEC1987	CNTRL
RNS2-41A	SR-90	154.00	151.00	2.00	PCI/ML	TENNELEC	11DEC1987	CNTRL
RNS2-41A	SR-90	148.00	151.00	-2.00	PCI/ML	TENNELEC	14DEC1987	CNTRL
RNS2-41A	SR-90	149.00	151.00	-1.30	PCI/ML	TENNELEC	08DEC1987	CNTRL
RNS2-41A	SR-90	145.00	151.00	-4.00	PCI/ML	TENNELEC	15DEC1987	CNTRL
RNS2-41A	SR-90	149.00	151.00	-1.30	PCI/ML	TENNELEC	08DEC1987	CNTRL
RNS2-41A	SR-90	154.00	151.00	2.00	PCI/ML	TENNELEC	11DEC1987	CNTRL
RNS2-41A	SR-90	148.00	151.00	-2.00	PCI/ML	TENNELEC	14DEC1987	CNTRL
RNS2-41A	SR-90	154.00	151.00	2.00	PCI/ML	TENNELEC	11DEC1987	CNTRL
RNS2-41A	SR-90	145.00	151.00	-4.00	PCI/ML	TENNELEC	15DEC1987	CNTRL
RNS2-41A	SR-90	145.00	151.00	-4.00	PCI/ML	TENNELEC	15DEC1987	CNTRL
RNS2-41A	SR-90	149.00	151.00	-1.30	PCI/ML	TENNELEC	08DEC1987	CNTRL
RNS2-41A	SR-90	154.00	151.00	2.00	PCI/ML	TENNELEC	11DEC1987	CNTRL
RNS2-41A	SR-90	145.00	151.00	-4.00	PCI/ML	TENNELEC	15DEC1987	CNTRL
RNS2-41A	SR-90	149.00	151.00	-1.30	PCI/ML	TENNELEC	08DEC1987	CNTRL
RNS2-41A	SR-90	148.00	151.00	-2.00	PCI/ML	TENNELEC	14DEC1987	CNTRL
RNS2-41A	SR-90	148.00	151.00	-2.00	PCI/ML	TENNELEC	14DEC1987	CNTRL
RNS2-41A	SR-90	149.00	151.00	-1.30	PCI/ML	TENNELEC	08DEC1987	CNTRL
RNS2-41A	SR-90	145.00	151.00	-4.00	PCI/ML	TENNELEC	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	14DEC1987	CNTRL

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5000.00	5411.00	-7.60	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5000.00	5411.00	-7.60	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5000.00	5411.00	-7.60	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5000.00	5411.00	-7.60	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CO-60	5000.00	5411.00	-7.60	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5000.00	5411.00	-7.60	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CO-60	5000.00	5411.00	-7.60	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5000.00	5411.00	-7.60	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5000.00	5411.00	-7.60	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5000.00	5411.00	-7.60	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CO-60	5000.00	5411.00	-7.60	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

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CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8500.00	8769.00	-3.10	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	Y-88	8500.00	8769.00	-3.10	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8500.00	8769.00	-3.10	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	Y-88	8500.00	8769.00	-3.10	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	Y-88	8500.00	8769.00	-3.10	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8500.00	8769.00	-3.10	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	Y-88	8500.00	8769.00	-3.10	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8500.00	8769.00	-3.10	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	Y-88	8500.00	8769.00	-3.10	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	Y-88	8500.00	8769.00	-3.10	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-63C	Y-88	8500.00	8769.00	-3.10	PCI/L	ND-9900	14DEC1987	CNTRL
RNS2-63C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-64	CS-137	394.00	478.00	-17.60	PCI/KGD	ND-9900	12JAN1988	CNTRL
RNS2-64	CS-137	394.00	478.00	-17.60	PCI/KGD	ND-9900	12JAN1988	CNTRL
RNS2-64	CS-137	395.00	478.00	-17.40	PCI/KGD	ND-9900	20JAN1988	CNTRL
RNS2-64	CS-137	394.00	478.00	-17.60	PCI/KGD	ND-9900	12JAN1988	CNTRL
RNS2-64	CS-137	378.00	478.00	-20.10	PCI/KGD	ND-9900	21JAN1988	CNTRL
RNS2-64	CS-137	395.00	478.00	-17.40	PCI/KGD	ND-9900	20JAN1988	CNTRL
RNS2-64	CS-137	424.00	478.00	-11.30	PCI/KGD	ND-9900	22JAN1988	CNTRL
RNS2-64	CS-137	394.00	478.00	-17.60	PCI/KGD	ND-9900	12JAN1988	CNTRL
RNS2-64	CS-137	395.00	478.00	-17.40	PCI/KGD	ND-9900	20JAN1988	CNTRL
RNS2-64	CS-137	378.00	478.00	-20.10	PCI/KGD	ND-9900	21JAN1988	CNTRL
RNS2-64	CS-137	378.00	478.00	-20.10	PCI/KGD	ND-9900	21JAN1988	CNTRL
RNS2-64	CS-137	424.00	478.00	-11.30	PCI/KGD	ND-9900	22JAN1988	CNTRL
RNS2-64	CS-137	395.00	478.00	-17.40	PCI/KGD	ND-9900	20JAN1988	CNTRL
RNS2-64	CS-137	424.00	478.00	-11.30	PCI/KGD	ND-9900	22JAN1988	CNTRL
RNS2-64	CS-137	424.00	478.00	-11.30	PCI/KGD	ND-9900	22JAN1988	CNTRL
RNS2-64	CS-137	378.00	478.00	-20.10	PCI/KGD	ND-9900	21JAN1988	CNTRL
RNS2-64	K-40	1100.00	1051.00	4.70	PCI/KGD	ND-9900	21JAN1988	CNTRL
RNS2-64	K-40	1000.00	1051.00	-4.90	PCI/KGD	ND-9900	22JAN1988	CNTRL
RNS2-64	K-40	1200.00	1051.00	14.20	PCI/KGD	ND-9900	12JAN1988	CNTRL
RNS2-64	K-40	1100.00	1051.00	4.70	PCI/KGD	ND-9900	21JAN1988	CNTRL
RNS2-64	K-40	1000.00	1051.00	-4.90	PCI/KGD	ND-9900	22JAN1988	CNTRL
RNS2-64	K-40	1100.00	1051.00	4.70	PCI/KGD	ND-9900	21JAN1988	CNTRL
RNS2-64	K-40	1000.00	1051.00	-4.90	PCI/KGD	ND-9900	22JAN1988	CNTRL
RNS2-64	K-40	1100.00	1051.00	4.70	PCI/KGD	ND-9900	20JAN1988	CNTRL
RNS2-64	K-40	1100.00	1051.00	4.70	PCI/KGD	ND-9900	20JAN1988	CNTRL
RNS2-64	K-40	1100.00	1051.00	4.70	PCI/KGD	ND-9900	20JAN1988	CNTRL
RNS2-64	K-40	1200.00	1051.00	14.20	PCI/KGD	ND-9900	12JAN1988	CNTRL
RNS2-64	K-40	1100.00	1051.00	4.70	PCI/KGD	ND-9900	21JAN1988	CNTRL

TABLE E-1 QC RADIOLOGICAL SAMPLE DATA

DRAFT DO NOT CITE

CONTROL I.D. OR SAMPLE ID	RADIONUCLIDE	VALUE OBTAINED	KNOWN VALUE	"R" VALUE	UNIT OF MEASURE	INSTRUMENT USED	DATE ANALYZED	TYPE OF CONTROL
RNS2-64	K-40	1100.00	1051.00	4.70	PCI/KGD	ND-9900	20JAN1988	CNTRL
RNS2-64	K-40	1000.00	1051.00	-4.90	PCI/KGD	ND-9900	22JAN1988	CNTRL
RNS2-64	K-40	1200.00	1051.00	14.20	PCI/KGD	ND-9900	12JAN1988	CNTRL
RNS2-64	K-40	1200.00	1051.00	14.20	PCI/KGD	ND-9900	12JAN1988	CNTRL
RNS2-64C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-64C	CE-139	1200.00	1192.00	0.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-64C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-64C	CO-60	5300.00	5411.00	-2.10	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-64C	CS-137	4400.00	4341.00	1.40	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-64C	CS-137	4500.00	4341.00	3.70	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-64C	SN-113	4300.00	4284.00	0.40	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-64C	SN-113	4200.00	4284.00	-2.00	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-64C	Y-88	8700.00	8769.00	-0.80	PCI/L	ND-9900	16DEC1987	CNTRL
RNS2-64C	Y-88	8600.00	8769.00	-1.90	PCI/L	ND-9900	15DEC1987	CNTRL
RNS2-7	U-234	3.78	3.76	0.53	PCI/ML	ND-9900	15JAN1988	CNTRL
RNS2-7	U-235	0.19	0.17	11.76	PCI/ML	ND-9900	15JAN1988	CNTRL
RNS2-7	U-238	3.86	3.76	2.66	PCI/ML	ND-9900	15JAN1988	CNTRL
R443	GROSS ALPHA	1217.00	1217.00		CPM	ALPHA-1	01DEC1987	CNTRL
R443	GROSS ALPHA	1202.00	1217.00	-1.20	CPM	ALPHA-1	21DEC1987	CNTRL
R443	GROSS ALPHA	1202.00	1217.00	-1.20	CPM	ALPHA-1	21DEC1987	CNTRL
R443	GROSS ALPHA	1208.00	1217.00	-0.70	CPM	ALPHA-1	29DEC1987	CNTRL
R443	GROSS ALPHA	1217.00	1217.00		CPM	ALPHA-1	01DEC1987	CNTRL
R443	GROSS ALPHA	1208.00	1217.00	-0.70	CPM	ALPHA-1	29DEC1987	CNTRL
R443	GROSS ALPHA	1201.00	1203.00	-0.10	CPM	ALPHA-2	29DEC1987	CNTRL
R443	GROSS ALPHA	1203.00	1203.00		CPM	ALPHA-2	02DEC1987	CNTRL
R443	GROSS ALPHA	1195.00	1203.00	-0.60	CPM	ALPHA-2	21DEC1987	CNTRL
R443	GROSS ALPHA	1220.00	1231.00	-0.90	CPM	ALPHA-3	29DEC1987	CNTRL
R443	GROSS ALPHA	1231.00	1231.00		CPM	ALPHA-3	02DEC1987	CNTRL
R443	GROSS ALPHA	1221.00	1231.00	-0.80	CPM	ALPHA-3	21DEC1987	CNTRL
50690272	AM-241	964.50	972.50	-0.80	CPM	BNW	18DEC1987	CNTRL
50690272	AM-241	962.70	972.50	-1.00	CPM	BNW	22DEC1987	CNTRL
50690272	AM-241	955.20	972.50	-1.80	CPM	BNW	22DEC1987	CNTRL
50690272	CO-60	2199.00	2195.00	0.20	CPM	BNW	22DEC1987	CNTRL
50690272	CO-60	2514.00	2500.00	0.60	CPM	BNW	18DEC1987	CNTRL
50690272	CO-60	2510.00	2500.00	0.40	CPM	BNW	22DEC1987	CNTRL
50690272	CO-60	2222.00	2195.00	1.20	CPM	BNW	18DEC1987	CNTRL
50690272	CO-60	2199.00	2195.00	0.20	CPM	BNW	22DEC1987	CNTRL
50690272	CO-60	2520.00	2500.00	0.80	CPM	BNW	22DEC1987	CNTRL
50690272	CS-137	1397.00	1365.00	2.30	CPM	BNW	22DEC1987	CNTRL
50690272	CS-137	1377.00	1365.00	0.90	CPM	BNW	22DEC1987	CNTRL
50690272	CS-137	1344.00	1365.00	-1.50	CPM	BNW	18DEC1987	CNTRL
51195631	PU-238	5495.00	5495.00		KEV	PNL-C1	10FEB1988	CNTRL
51195631	PU-239	5147.00	5147.00		KEV	PNL-C1	10FEB1988	CNTRL
51195631	PU-242	4898.00	4898.00		KEV	PNL-C1	10FEB1988	CNTRL
51195631	URANIUM-TOT	315.20	315.00	0.10	CPM	PNL-C1	10FEB1988	CNTRL

Table E.2. ORNL LB-4000 Standard Results (beta counts only)

Detector	Results
1	2265 ± 47 cpm
2	2287 ± 37 cpm
3	2284 ± 38 cpm
4	2396 ± 49 cpm
5	2450 ± 33 cpm
6	2299 ± 21 cpm
7	2380 ± 50 cpm
8	2378 ± 49 cpm
9	2414 ± 23 cpm
10	2275 ± 24 cpm
11	2643 ± 18 cpm
12	2499 ± 31 cpm

Table E.3. ORNL LB-4000 Efficiencies and Backgrounds
(Efficiencies given are for betas only)

Detector 1

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff.(%)
12/8/87			34.8
12/15/87			34.7
12/22/87			33.9
12/29/87			34.4
12/31/87	0.03	1.22	
1/4/88	0.03	1.22	
1/5/88			33.3
1/8/88	0.03	1.16	
1/12/88			33.1
1/14/88	0.03	1.16	
1/19/88			33.3
1/25/88	0.02	1.16	
1/26/88			33.1
1/27/88	0	1.35	

Detector 2

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff.(%)
12/8/87			35.4
12/15/8			34.3
12/22/87			33.8
12/29/87			34.5
12/31/87	0.05	0.91	
1/4/88	0.05	0.91	
1/5/88			33.8
1/8/88	0.03	0.82	
1/12/88			33.8
1/14/88	0.03	0.82	
1/19/88			33.8
1/25/88	0.03	0.76	
1/26/88			34.0
1/27/88	0	0.80	

Table E.3. ORNL LB-4000 Efficiencies and Backgrounds (Efficiencies given are for betas only) (Continued)

Detector 3

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff.(%)
12/8/87			34.8
12/15/87			34.3
12/22/87			33.3
12/29/87			33.8
12/31/87	0.04	1.13	
1/4/88	0.04	1.13	
1/5/88			33.2
1/8/88	0.01	0.82	
1/12/88			34.6
1/14/88	0.01	0.82	
1/19/88			34.5
1/25/88	0.06	0.98	
1/26/88			34.5
1/27/88	0.05	0.95	

Detector 4

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff.(%)
12/8/87			36.8
12/15/87			36.4
12/22/87			35.2
12/29/87			35.6
12/31/87	0.04	1.01	
1/4/88	0.04	1.01	
1/5/88			36.2
1/8/88	0.03	0.88	
1/12/88			36.0
1/14/88	0.03	0.88	
1/19/88			35.0
1/25/88	0.03	0.67	
1/26/88			36.0
1/27/88	0	0.75	

Table E.3. ORNL LB-4000 Efficiencies and Backgrounds (Efficiencies given are for betas only) (Continued)

Detector 5

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff.(%)
12/8/87			37.2
12/15/87			37.3
12/22/87			36.4
12/29/87			36.7
12/31/87	0.04	0.93	
1/4/88	0.04	0.93	
1/5/88			36.3
1/8/88	0.02	0.78	
1/12/88			36.4
1/14/88	0.02	0.78	
1/19/88			36.6
1/25/88	0.03	0.91	
1/26/88			35.9
1/27/88	0	1.10	

Detector 6

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff.(%)
12/8/87			34.6
12/15/87			34.8
12/22/87			34.3
12/29/87			34.5
12/31/87	0.03	0.88	
1/4/88U	0.03	0.88	
1/5/88			34.0
1/8/88	0.02	0.81	
1/12/88			34.2
1/14/88	0.02	0.81	
1/19/88			34.2
1/25/88	0.04	0.79	
1/26/88			34.4
1/27/88	0	1.45	

Table E.3. ORNL LB-4000 Efficiencies and Backgrounds (Efficiencies given are for betas only) (Continued)

Detector 7

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff.(%)
12/8/87			34.6
12/15/87			35.5
12/22/87			35.4
12/29/87			34.8
12/31/87	0.03	0.76	
1/4/88	0.03	0.76	
1/5/88			36.5
1/8/88	0.01	0.75	
1/12/88			36.7
1/14/88	0.01	0.75	
1/19/88			36.3
1/25/88	0.03	0.95	
1/26/88			35.1
1/27/88	0.05	1.10	

Detector 8

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff.(%)
12/8/87			35.9
12/15/87			36.0
12/22/87			36.3
12/29/87			35.5
12/31/87	0.04	0.89	
1/4/88	0.04	0.89	
1/5/88			35.3
1/8/88	0.02	0.71	
1/12/88			35.2
1/14/88	0.02	0.71	
1/19/88			35.6
1/25/88	0.02	0.70	
1/26/88			35.8
1/27/88	0.05	0.80	

Table E.3. ORNL LB-4000 Efficiencies and Backgrounds (Efficiencies given are for betas only) (Continued)

Detector 9

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff.(%)
12/8/87			35.5
12/15/87			35.9
12/22/87			35.6
12/29/87			35.9
12/31/87	0.03	0.77	
1/4/88	0.03	0.77	
1/5/88			35.6
1/8/88	0.01	0.86	
1/12/88			36.5
1/14/88	0.01	0.86	
1/19/88			36.4
1/25/88	0.02	0.72	
1/26/88			36.6
1/27/88	0	0.90	

Detector 10

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff.(%)
12/8/87			34.3
12/15/87			34.2
12/22/87			33.4
12/29/87			34.2
12/31/87	0.04	0.93	
1/4/88	0.04	0.93	
1/5/88			33.8
1/8/88	0.02	0.62	
1/12/88			34.2
1/14/88	0.02	0.62	
1/19/88			34.1
1/25/88	0.03	0.76	
1/26/88			33.8
1/27/88	0	0.90	

Table E.3. ORNL LB-4000 Efficiencies and Backgrounds (Efficiencies given are for betas only) (Continued)

Detector 11

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff.(%)
12/8/87			39.4
12/15/87			39.6
12/22/87			39.6
12/29/87			39.8
12/31/87	0.04	0.98	
1/4/88	0.04	0.98	
1/5/88			36.6
1/8/88	0.02	0.85	
1/12/88			39.7
1/14/88	0.02	0.85	
1/19/88			39.6
1/25/88	0.03	0.86	
1/26/88			39.2
1/27/88	0	0.65	

Detector 12

Date	Alpha Bkg. (cpm)	Beta Bkg. (cpm)	Eff.(%)
12/8/87			37.5
12/15/87			37.3
12/22/87			36.8
12/29/87			37.7
12/31/87	0.03	1.04	
1/4/88	0.03	1.04	
1/5/88			36.6
1/8/88	0.02	0.68	
1/12/88			38.0
1/14/88	0.02	0.68	
1/19/88			37.5
1/25/88	0.03	0.73	
1/26/88			36.6
1/27/88	0	0.70	

Table E.4. ORNL Isotopic Alpha Measurements

ND-9900 Alpha Efficiencies and Backgrounds:
(backgrounds reported in counts per minute)

	12/87 Analysis		1/88 Analysis	
Detector	% Efficiency	Background	% Efficiency	Background
1	17	0.002	20	0.003
2	22	0.010	20	0.010
3	22	0.002	20	0.003
4	34	0.003	24	0.003
5	18	0.006	22	0.005
6	19	0.009	20	0.010
7	22	0.002	22	0.003
8	22	0.005	20	0.006
9	NA		NA	
10	NA		NA	
11	NA		NA	
12	NA		NA	
13	20	0.003	21	0.005
14	18	0.008	20	0.023
15	26	0.008	26	0.003
16	18	0.004	14	0.004

Table E.5. ORNL Isotopic Alpha Calibration on ND-9900

Detector	U-236	(4.50MeV)	Pu-239	(5.15MeV)	Cm-244	(5.80MeV)
1	446±0	(448)	514±0	(515)	580±0	(581)
2	1450±0	(1451)	1515±0	(1515)	1578±0	(1578)
3	2453±0	(2454)	2514±0	(2515)	2574±0	(2575)
4	3454±1	(3456)	3514±0	(3515)	3572±0	(3573)
5	444±0	(447)	513±0	(515)	580±0	(582)
6	1450±0	(1449)	1515±0	(1515)	1579±0	(1579)
7	2453±0	(2453)	2515±0	(2515)	2576±0	(2576)
8	3456±0	(3456)	3514±1	(3515)	3572±0	(3573)
9	NA					
10	NA					
11	NA					
12	NA					
13	446±0	(447)	514±0	(515)	581±0	(582)
14	1448±0	(1451)	1514±1	(1515)	1576±1	(1578)
15	2452±0	(2454)	2514±0	(2515)	2575±0	(2575)
16	3454±0	(3455)	3513±0	(3515)	3570±1	(3574)

The table above consists of channel numbers.
"NA" means not available during this time period.
Data is expressed in terms of actual results (known values).

Table E.6. ORNL Gamma Standard Results (August-October 1987)

Detector 1, Std. 1

Knowns decay corrected to 7/1/86 in Bq/L: Cs-137=3372; Co-60=5452.

Date	661 keV(Cs-137)	FWHM	1332 keV(Co-60)	FWHM
12/8/87	3305	1.76	5413	2.22
12/16/87	3362	1.71	5473	2.15
12/23/87	3352	1.80	5541	2.20
12/30/87	3402	1.80	5543	2.26
1/6/88	3319	1.78	5522	2.17
1/13/88	3368	1.79	5508	2.19
1/20/88	3348	1.82	5517	2.23
1/27/88	3379	1.80	5494	2.20

Detector 2, Std. 2

Knowns decay corrected to 7/1/86 in Bq/L: Cs-137=3357; Co-60=5306.

Date	661 keV(Cs-137)	FWHM	1332 keV(Co-60)	FWHM
12/8/87	3400	1.78	5374	2.27
12/16/87	3390	1.78	5361	2.36
12/23/87	3425	1.74	5319	2.25
12/30/87	3413	1.76	5393	2.25
1/6/88	3302	1.83	5392	2.22
1/13/88	3432	1.71	5288	2.26
1/20/88	3323	1.79	5266	2.29
1/27/88	3359	1.79	5344	2.31

Table E.6. ORNL Gamma Standard Results (August-October 1987) (Continued)

Detector 3, Std. 3

Knowns decay corrected to 7/1/86 in Bq/L: Cs-137=3298; Co-60=5249.

Date	661 keV(Cs-137)	FWHM	1332 keV(Co-60)	FWHM
12/8/87	3384	1.64	5354	1.97
12/16/87	3357	1.59	5398	1.93
12/23/87	3389	1.67	5394	1.95
12/30/87	3431	1.62	5373	1.91
1/6/88	3341	1.59	5319	2.02
1/13/88	3395	1.66	5376	2.01
1/20/88	3385	1.67	5446	1.97
1/27/88	3366	1.60	5386	1.98

Detector 4, Std. 4

Knowns decay corrected to 7/1/86 in Bq/L: Cs-137=3155; Co-60=5066.

Date	661 keV(Cs-137)	FWHM	1332 keV(Co-60)	FWHM
12/8/87	3145	1.61	5043	1.99
12/16/87	3052	1.49	5076	1.94
12/23/87	3141	1.57	5002	1.91
12/30/87	3132	1.56	5027	2.02
1/6/88	3199	1.63	5153	1.97
1/14/88	3210	1.62	5027	1.99
1/20/88	3206	1.62	5146	1.94
1/27/88	3169	1.65	5051	1.98

Table E.6. ORNL Gamma Standard Results (August-October 1987) (Continued)

Detector 5, Std. 4

Date	661 keV(Cs-137)	FWHM	1332 keV(Co-60)	FWHM
12/8/87	3088	1.57	4985	1.94
12/16/87	3186	1.60	5036	2.00
12/23/87	3154	1.59	5015	1.89
12/30/87	3170	1.56	5111	1.96
1/6/88	3156	1.55	5094	1.98
1/13/88	3185	1.58	5028	1.93
1/20/88	3198	1.63	5063	1.94
1/27/88	3149	1.60	5021	1.94

Detector 6, Std. 2

Date	661 keV(Cs-137)	FWHM	1332 keV(Co-60)	FWHM
12/8/87	3479	1.90	5406	2.18
12/16/87	3442	1.85	5471	2.15
12/23/87	3455	1.95	5426	2.15
12/30/87	3494	2.06	5449	2.25
1/6/88	3469	1.93	5439	2.20
1/13/88	3512	1.85	5447	2.18
1/20/88	3492	2.03	5417	2.28
1/27/88	3366	2.06	5296	2.32

Table E.7. ORNL Gamma Detector Backgrounds

Background for Gamma Detector 1

Peak Energy (keV)	Cts/Sec	%Error
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

Background for Gamma Detector 2

Peak Energy (keV)	Cts/Sec	%Error
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

Table E.7. ORNL Gamma Detector Backgrounds (Continued)

Background for Gamma Detector 3

Peak Energy (keV)	Cts/Sec	%Error
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

Background for Gamma Detector 4

Peak Energy (keV)	Cts/Sec	%Error
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

Table E.7. ORNL Gamma Detector Backgrounds (Continued)

Background for Gamma Detector 5

Peak Energy (keV)	Cts/Sec	%Error
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

Background for Gamma Detector 6

Peak Energy (keV)	Cts/Sec	%Error
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.8. ORNL Liquid Scintillation Counter Standard Counts, Efficiencies, and Backgrounds

Date	Standard Count (cpm)	Eff.(%)	Bkg.(cpm)
12/9/87	95117	58.4	17.0
12/16/87	95323	58.5	13.3
12/23/87	95287	58.7	13.9
12/30/87	94821	58.5	13.2
1/6/88	94535	58.3	11.9
1/13/88	94730	58.5	13.1
1/20/88	94588	58.5	12.3
1/27/88	94362	58.5	13.3

Average Standard Value = 94845 ±337 cpm
Actual Standard Value = 255200 dpm on 11/27/79
Standard is a Packard 3-H standard.

Efficiency = 58.5 ±0.1%
Range = 58.3 - 58.7%

Background = 13.5 ±1.4 cpm
Range = 11.9 - 17.0 cpm

Table E.9. ORNL Interlaboratory Comparison Sample Results

EML Sample Results:

No EML samples were run during the time period that the ANL Site samples were analyzed.

EPA QC (EMSL) Sample Results in pCi/L:

Isotope	Date	Found	Known
Sr-89	1/8/88	26.0	30.0
Sr-90	1/8/88	13.7	15.0
G-Alpha	1/22/88	4.6	4.0
G-Beta	1/22/88	6.0	8.0

Table E.10. Battelle Tritium Counting Efficiency for ANL Radiochemical Analysis

Date	CPM Standard	CPM Background Water	% Efficiency
16DEC87	20979.96	14.31	34.2
16DEC87	42369.52	14.65	34.5
28DEC87	19322.74	15.05	31.6
28DEC87	41757.60	14.19	34.1

Table E.11. Battelle Alpha Counting Efficiency for ANL Radiochemical Analysis

Date	CPM	% Efficiency	Instrument Identification
01DEC87	1217	46.4	Alpha-1
02DEC87	1203	45.9	Alpha-2
02DEC87	1231	46.9	Alpha-3
21DEC87	1202	45.8	Alpha-1
21DEC87	1195	45.6	Alpha-2
21DEC87	1221	46.6	Alpha-3

Table E.12. Battelle Alpha Counting Background for ANL Radiochemical Analysis

Date	Count Time Minutes	Alpha Background CPM	Instrument Identification
01DEC87	1000	0.546±0.023	Alpha-1
02DEC87	1000	0.373±0.019	Alpha-2
02DEC87	1000	1.885±0.043	Alpha-3
21DEC87	1000	0.632±0.025	Alpha-1
21DEC87	1000	0.343±0.019	Alpha-2
21DEC87	1000	1.949±0.044	Alpha-3
29DEC87	1000	0.632±0.025	Alpha-1
29DEC87	1000	0.343±0.019	Alpha-2
29DEC87	1000	1.863±0.043	Alpha-3

Table E.13. Battelle Beta Counting Efficiency for ANL Radiochemical Analysis

Date	CPM	% Efficiency	Instrument Identification
08DEC87	8699	55.2	Lobeta-3
09DEC87	8677	55.0	Lobeta-1
11DEC87	8291	52.6	Beta-66
11DEC87	8404	53.3	Beta-67
11DEC87	8701	55.2	Lobeta-1
11DEC87	8720	55.3	Lobeta-3
22DEC87	8676	55.0	Lobeta-1
22DEC87	8701	55.2	Lobeta-3
29DEC87	8282	52.5	Beta-66
29DEC87	8412	53.3	Beta-67
08JAN88	8674	55.0	Lobeta-1
08JAN88	8637	54.8	Lobeta-3
11JAN88	8229	52.2	Beta-66
11JAN88	8399	53.3	Beta-67
12JAN88	8646	54.8	Lobeta-1

Table E.14. Battelle Beta Counting Background for ANL Radiochemical Analysis

Date	Count Time Minutes	Beta Background CPM	Instrument Identification
08DEC87	1000	0.502±0.022	Lobeta-3
09DEC87	1000	0.503±0.022	Lobeta-1
11DEC87	1000	15.4±0.1	Beta-66
11DEC87	1000	15.1±0.1	Beta-67
11DEC87	1000	0.496±0.022	Lobeta-1
11DEC87	1000	0.508±0.023	Lobeta-3
22DEC87	1000	0.512±0.023	Lobeta-1
22DEC87	1000	0.514±0.023	Lobeta-3
29DEC87	1000	15.8±0.1	Beta-66
29DEC87	1000	15.5±0.1	Beta-67
08JAN88	1000	0.584±0.024	Lobeta-1
08JAN88	1000	0.588±0.024	Lobeta-3
11JAN88	1000	15.2±0.1	Beta-66
11JAN88	1000	14.9±0.1	Beta-67
12JAN88	1000	0.584±0.024	Lobeta-1

Table E.15. Battelle AEA Efficiency for ANL Radiochemical Analysis

Date	CPM	% Efficiency	Instrument Identification
10FEB88	315.2	31.9	PNL-C1

Table E.16. Battelle Detector Reliability System for ANL Radiochemical Analysis

-Detector BNW-

Date	CPM Am-241	FWHM#1	CPM Cs-137	CPM Co-60	CPM Co-60	FWHM#2
18DEC87	964.2	1.438	1344	2514	2222	2.330
21DEC87	973.1	1.323	1358	2510	2197	2.178
22DEC87	955.2	1.473	1397	2520	2200	2.465
29DEC87	962.7	1.721	1377	2510	2199	2.484
LONG TERM AUGUST	972.5	1.378	1365	2500	2195	2.247

Appendix F

BATTELLE ADDENDUM TO ANL SAMPLING AND ANALYSIS PLAN

ADDENDUM

DOE ENVIRONMENTAL SURVEY PLAN
FOR ARGONNE NATIONAL LAB
ENVIRONMENTAL PROBLEM 9
NOVEMBER 11, 1987

Prepared by:

DOE Environmental Survey

and

Battelle Memorial Institute

for the

U.S. Department of Energy
Office of Environmental Audit
U.S. DOE Contract No. DE-AC06-76RLO 1830

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ADDENDUM TO THE ARGONNE NATIONAL LABORATORY
DRAFT SAMPLING AND ANALYSIS PLAN

3.2.10 Environmental Problem No. 9: Plot M, 317-319 Area, and 800 Area Landfill Wells

- SAR Numbers: 406, 407, 408, 413, 414, 416, and 417
- Requester: F. H. Miller
- Finding and Basis for Finding

Undetected hazardous materials disposed of at Plot M, the 317-319 Area, and the 800 Area Landfill may be contaminating the soil and groundwater. Organic, inorganic, and radioactive waste have been disposed of at each of these sites. However, records indicating the amounts are not complete.

3.1.10.1 Sampling and Analysis Objectives

- Statement

To determine the presence, at method detection limits, of contaminants (i.e., organics, metals, radionuclides) that may have migrated from ANL landfills into surrounding soils and groundwater.

- Supporting Information

Current groundwater monitoring programs do not include the entire range of contaminants suspected at the site. In addition, wells are located in a manner that may not fully allow monitoring in all directions of contaminant movement and at all stratigraphic levels. At the 800 Area Landfill, wells are not located at depths that allow monitoring of potential vertical migration of the groundwater and contaminants. At Plot M, wells are not located in a manner that will intercept the phreatic surface of the groundwater table, which may contain floating organics. Existing wells at the 317-319 Area are not located in a manner that will allow monitoring of the surface of the dolomite aquifer and the potential for vertical migration of the groundwater.

3.2.10.2 Sampling and Analytical Design: SAR 406 - New Wells Adjacent to Existing No. 6 and No. 9 - Water

One new well will be located adjacent to existing well No. 6 along the east side of the 800 Area Landfill, approximately 10 feet north of the existing well. The second well will be located at the northwest corner of the Landfill adjacent to existing well No. 9. The new wells will aid in monitoring potential vertical migration of the groundwater. The locations have been chosen based on earlier monitoring results. The recommended parameters may reasonably be expected to be present, but some are not currently monitored.

3.2.10.2.1 Analytical Design

Field Measurements: pH, specific conductivity, and temperature. (Appendix A and DOE Environmental Survey Manual, Appendix E, section E4.5).

Laboratory Analyses: Volatiles, semivolatiles, Tritium oxide, pesticides/PCBs, ICP-metals, and cyanide.

3.2.10.2.2 Sampling Design

- Introduction

The new wells will be drilled to the following specifications: depth 75 feet; screen bottom 10 feet (from the 65-foot to 75-foot depth); 4-inch stainless steel casing; pea gravel for the filter pack with a bentonite seal 3 feet above the top of the screen; and a screen slot size of 0.02 inches. Placement of the wells will require appropriate permits (contact Norbert Golchert, ANL). The installation of a dedicated pump is preferable to bailing each time a sample is collected.

- Assumptions/Considerations (See Figures 3-19 and 3-20)

1. Two sets of samples will be collected from each well. Samples may be collected consecutively

for each parameter instead of sampling on separate days (i.e., volatiles for the first set of samples; then volatiles for the second set of samples; then semivolatiles, pesticides/PCBs, etc., for the first set of samples; then the remaining for the second set of samples).

2. The measurement of groundwater elevation will be made before sampling is initiated in order to determine the volume to be purged from the well.
3. The well will be purged before sampling. Three to five volumes will be removed either by pumping or by bailing the well. If purged dry, sampling will begin when the well recovers. If insufficient volume of sample is available, the Survey team and/or laboratory will be notified.
4. Measurements of temperature, pH, and specific conductivity will be made in the field before and after sample collection as a check on the stability of the water sampled over time.
5. Samples will be collected in the order of their sensitivity to volatilization, and interest of the DOE Survey team. In this case, the order will be:
   (a) volatiles
   (b) semivolatiles
   (c) tritium oxide
   (d) pesticides/PCBs
   (e) ICP-metals
   (f) cyanide
6. Each well will be considered its own population.

- Number, Type, and Location of Samples: Two grab water samples from the well location shown in Figure 3-19 (map reference: ANL Site Plan, p. 2-5) and two from the well shown in Figure 3-20.

- Sampling Method: DOE Environmental Survey Manual, Appendix E, section E4.4.4.1 (if submersible pump) or E4.4.4.4 (if bailer).

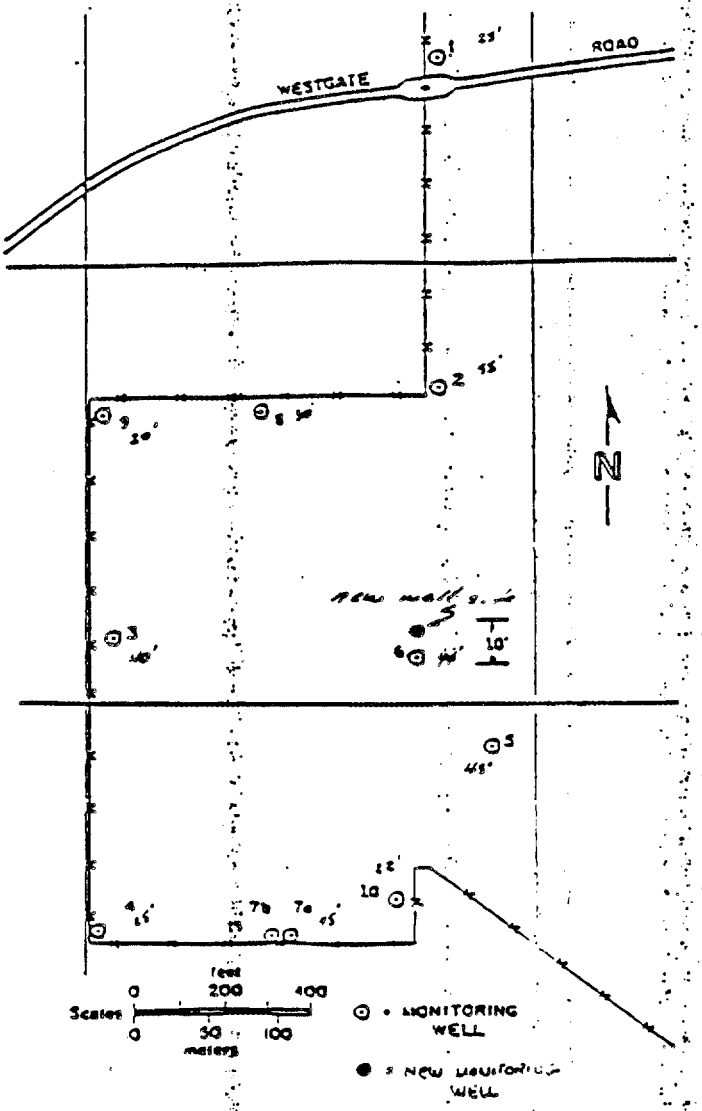

FIGURE 3-19. PROPOSED NEW WELL SITE IN THE 800 LANDFILL AREA TEN FEET NORTH OF EXISTING WELL NO. 6 (SAP 406).

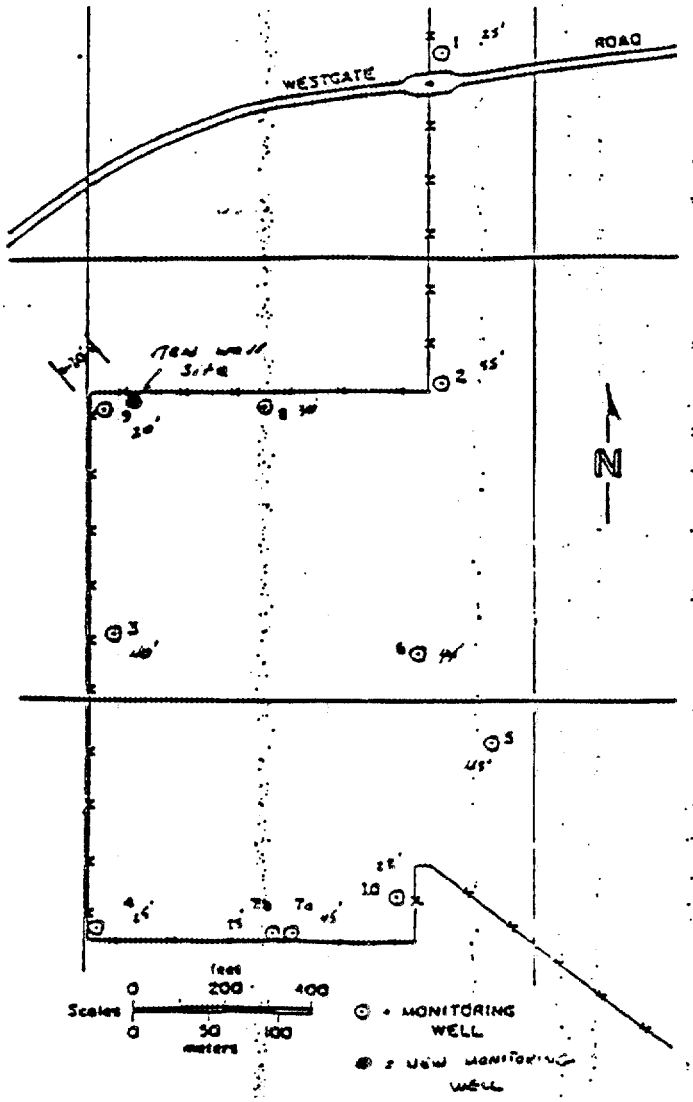

FIGURE 3-20. PROPOSED NEW WELL SITE IN THE 800 LANDFILL AREA TEN FEET NORTHEAST OF EXISTING WELL NO. 9 (SAR 406)

3.2.10.3 Sampling and Analytical Design: SAR 407 - Analysis of Wells No. 6 and No. 9 Identified in Request No. 406 - Soil

The analysis of soil samples will aid in understanding soil lithology, leachate flow, and contaminant attenuation.

3.2.10.3.1 Analytical Design

Field Measurements: Organic vapor using a photoionization detector (OVA)

Laboratory Analyses: Volatiles, semivolatiles, tritium oxide, pesticides/PCBs, ICP-metals, and cyanide.

3.2.10.3.2 Sampling Design

- Introduction

Split spoon samples will be collected at 10-foot intervals as the wells are drilled. The samples will be used to provide information on soil lithology, the presence of contaminants in the soil column, and as an indicator of potential groundwater migration. Field screening will be conducted using a photoionization or flame ionization detector (OVA or HNU) to indicate the presence of organic constituents.

- Assumptions/Considerations (See Figures 3-21 and 3-22)

1. Soil samples will be collected at every 10-foot interval to the bottom of the boring (75 feet) with a split-spoon sampler.
2. Triplicate samples will be collected for volatiles in each 10-foot interval. One sample container will be placed in the sun or a heated area for 15 or 20 minutes. After that time, the air in this container will be tested with an OVA or HNU. If levels are measurable, the

remaining two volatile samples will be retained, along with the rest of the samples for laboratory analysis. The heated volatile sample will be disposed of by ANL. Should the OVA or HNU indicate an absence of organic vapor, all samples will be discarded.

3. Samples will be collected in the order of their sensitivity to volatilization, and interest of the DOE Survey team. In this case, the order will be:
   (a) volatiles
   (b) semivolatiles
   (c) tritium oxide
   (d) pesticides/PCBs
   (e) ICP-metals
   (f) cyanide

   In case of insufficient sample recovery, the latter two parameters will not be collected.
4. Each well will be considered its own population.

- Number, Type, and Location of Samples: Approximately 7 grab soil samples collected during well drilling at each location specified in Figures 3-21 and 3-22 (map reference: ANL Site Plan, p. 2-5).
- Sampling Method: DOE Environmental Survey Manual, Appendix E, Section E5.2.1.

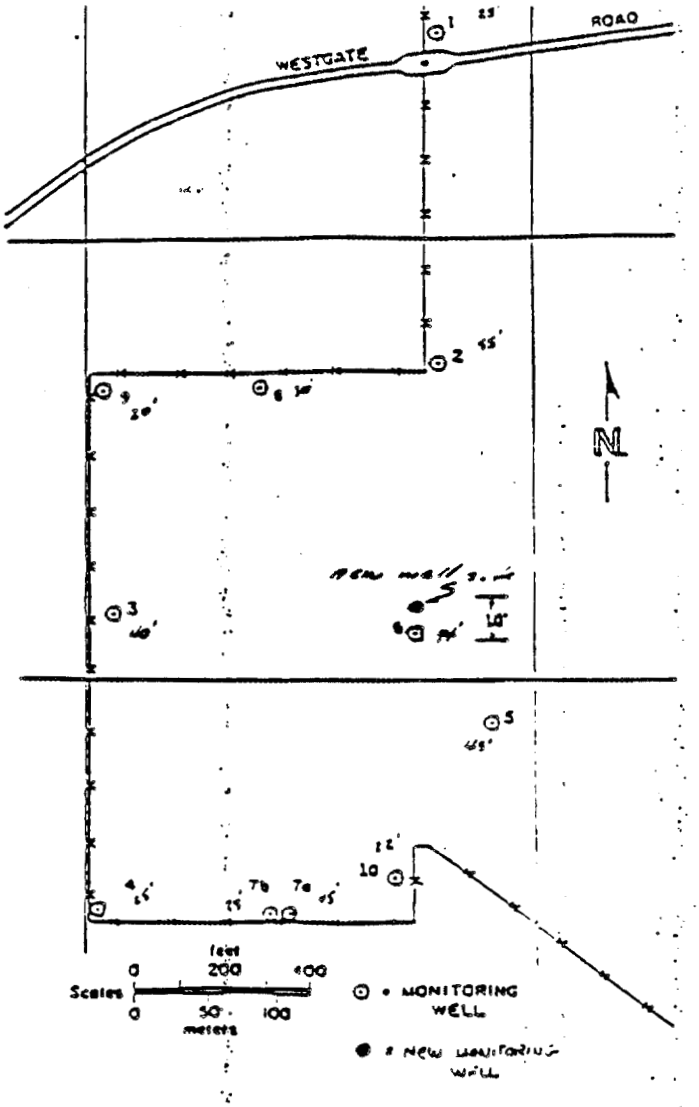

FIGURE 3-21. PROPOSED NEW WELL SITE IN THE 800 LANDFILL AREA TEN FEET NORTH OF EXISTING WELL NO. 6. (SAR 407).

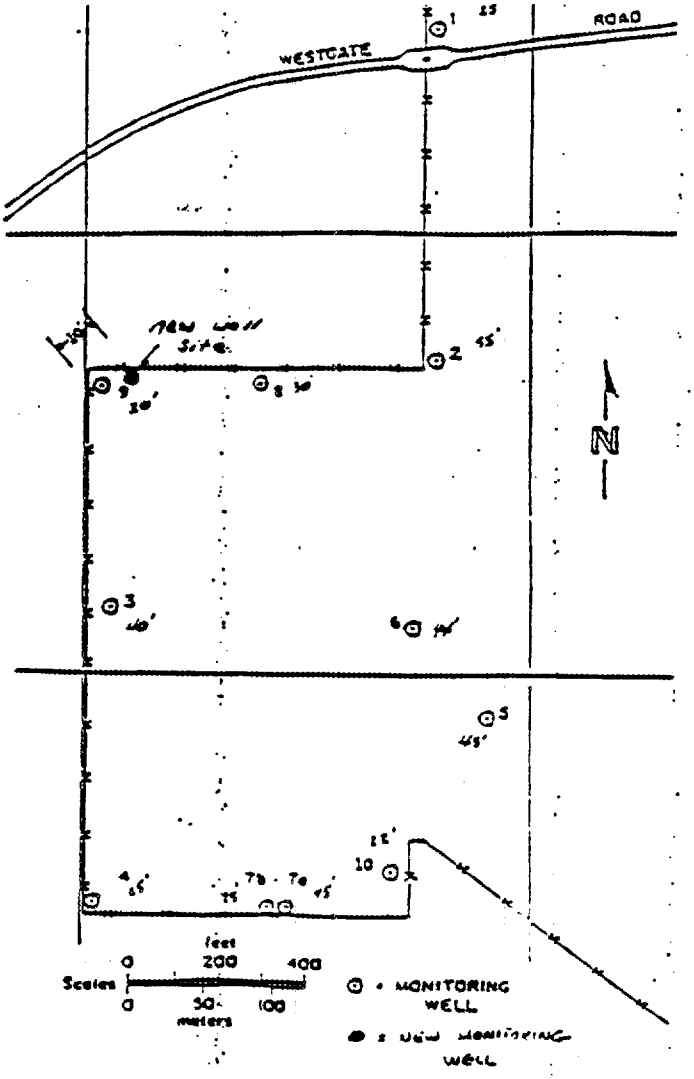

FIGURE 3-22. PROPOSED NEW WELL SITE IN THE 800 LANDFILL AREA TEN FEET NORTHEAST OF EXISTING WELL NO. 9 (SAR 407).

3.2.10.4 Sampling and Analytical Design: SAR 408 - New Well Adjacent to Existing Well No. 6 - Water

This is a new well that will be located adjacent to existing well No. 6 on the east side of the 800 Area Landfill 10 feet south of the existing well. This well will aid in monitoring shallow leachate contamination. In addition, three wells in a cluster at this location would allow monitoring of the change in hydraulic head with depth in the glacial deposits. The recommended parameters may reasonably be expected to be present, but some are not currently monitored.

3.2.10.4.1 Analytical Design

Field Measurements: pH, specific conductivity, and temperature. (Appendix A and the DOE Environmental Survey Manual, Appendix E, sections E4.4.4.1 and E4.4.4.4).

Laboratory Analyses: Volatiles, semivolatiles, tritium oxide, pesticides/PCBs, ICP-metals, and cyanide.

3.2.10.4.2 Sampling Design

- Introduction

This new well will be drilled to the following specifications: depth 28 feet; screen bottom 5 feet (from the 23- to 28-foot interval); 4-inch stainless steel casing; pea gravel for the filter pack with a bentonite seal 3 feet above the top of the screen; and a screen slot size of 0.02 inch. Placement of the well will require appropriate permits (contact Norbert Golchert, ANL). The installation of a dedicated pump is preferable to bailing each time a sample is collected.

- Assumptions/Considerations (See Figure 3-23)

1. Two sets of samples will be collected. Samples may be collected consecutively for each parameter instead of sampling on separate days (i.e., volatiles for the first set of samples; then volatiles for the second set of samples; then semivolatiles, pesticides/PCBs, etc., for the first set of samples; then the remaining for the second set of samples).
2. Groundwater elevation will be measured before sampling is initiated to determine the volume to be purged from the well.
3. The well will be purged before sampling. Three to five volumes should be removed either by pumping or by bailing the well. If purged dry, sampling will begin when the well recovers. If insufficient volume is available to complete sampling, the survey team and/or the laboratory will be notified.
4. Measurements of temperature, pH, and specific conductivity will be made in the field before and after sample collection as a check on the stability of the water sampled over time.
5. Samples will be collected in the order of their sensitivity to volatilization, and interest of the DOE survey team. In this case, the order will be:
   (a) volatiles
   (b) semivolatiles
   (c) tritium oxide
   (d) pesticides/PCBs
   (e) ICP-metals
   (f) cyanide

6. Each well will be considered its own population.

- Number, Type, Location of Samples: Two grab water samples from the well location shown in Figure 3-23 (map reference: ANL Site Plan, p. 2-5).

- Sampling Method: DOE Draft Environmental Survey Manual, Appendix E, Section E4.4.4.1 (if submersible pump), or E4.4.4.4 (if bailer).

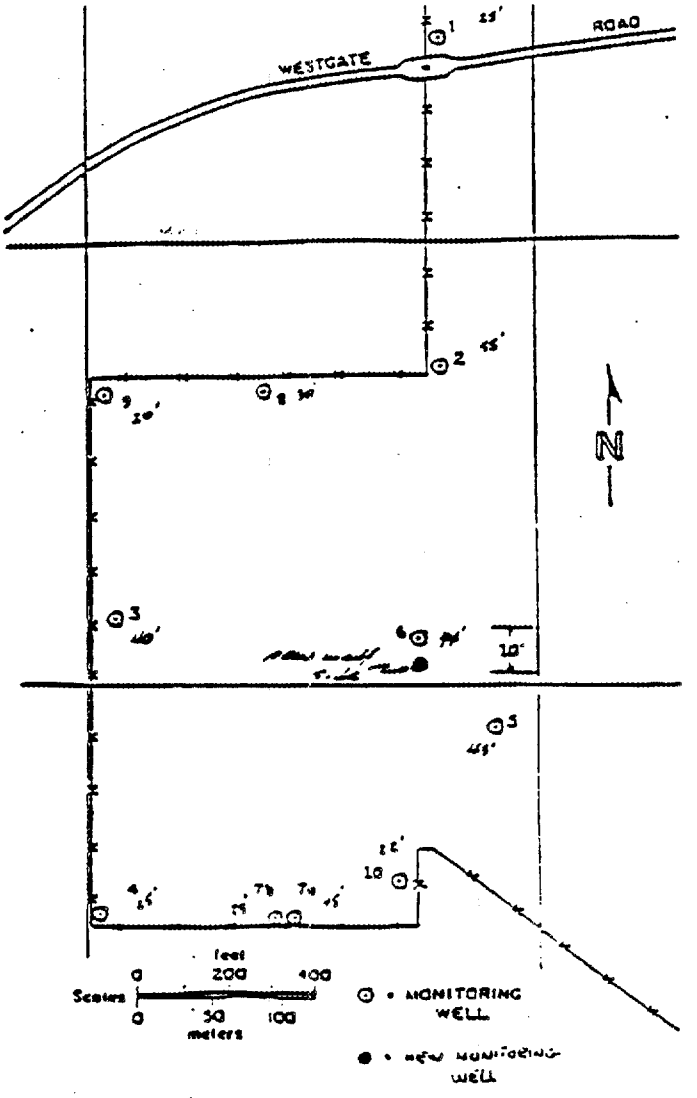

FIGURE 3-23. PROPOSED NEW SELL SITE IN THE 800 LANDFILL AREA TEN FEET SOUTH OF EXISTING WELL NO. 6 (SAR 408).

3.2.10.6 Sampling and Analytical Design: SAR 413 - New Well to be Located Between DH-3 and Borehole No. 4 - Water

This is a new well that will be located midway between existing DH-3 and Borehole 4, approximately 75 to 100 feet north of Plot M. This well is to intercept the phreatic surface to determine the presence of inorganics, radionuclides, and floating organics. In addition, this well, along with DH-3 and Borehole 4, will produce a cluster which will monitor hydraulic head drop with depth.

3.2.10.6.1 Analytical Design

Field Measurements: pH, specific conductivity, and temperature. (Appendix A and DOE Environmental Survey Manual, Appendix E, section E4.5).

Laboratory Analysis: Volatiles, semivolatiles, tritium oxide, pesticides/PCBs, ICP-metals, cyanide, gross alpha, gross beta, and gamma scan.

3.2.10.6.2 Sampling Design

- Introduction

This new well will be drilled to the following specifications: depth (please see Assumption/Consideration 1); screen bottom 10 feet; use 4-inch stainless steel casing; pea gravel for the filter pack with a bentonite seal 3 feet above the top of the screen; and a screen slot size of 0.02 inch. Placement of the well will require appropriate permits (contact Norbert Golchert, ANL). The primary sampling concern is the detection of any floating organics.

- Assumptions/Considerations (See Figure 3-25)

NOTE: After well development, the well will not be purged before sampling. Prior to conventional sampling, the team will determine if "floaters" are present. (Floaters are those relatively insoluble

organic liquids less dense than water which spread across the potentiometric surface.)

1. To determine the depth of the well, the water level in Borehole 4 will be measured. The new well will be drilled to a depth 4 feet below the water level measured in Borehole 4, but to a minimum depth of 21 feet.
2. The following procedures will be undertaken prior to the well being evacuated for conventional sampling:
   a. The air in the wellhead will be measured for organic vapors using the OVA. All measurements will be recorded.
   b. An interface probe will be lowered into the well to determine existence of any immiscible layer. The probe will register as it is exposed to an organic liquid and as it passes through the layer to the well water. The thickness of the layer will be registered.
   c. The immiscible layer will be collected, if it is present, as follows: if the thickness is 2 feet or greater, a bottom valve bailer (Teflon or stainless steel) will be used. The bailer will be lowered until contact with the floater layer, but above the immiscible/water interface. If the thickness is less than 2 feet, a peristaltic pump will be used to collect the samples.
3. Two sets of samples will be collected from each well. Samples may be collected consecutively for each parameter instead of sampling on separate

days (i.e . volatiles for the first set of samples; then volatiles for the second set of samples; then semivolatiles, pesticides/PCBs, etc., for the first set of samples; then the remaining for the second set of samples).

4. The measurement of groundwater elevation will be made before sampling is initiated in order to determine the volume to be purged from the well.
5. The well will be purged after floaters have been sampled and before conventional sampling. Three to five volumes will be removed either by pumping or by bailing the well. If purged dry, sampling will begin when the well recovers. If insufficient volume of sample is available the survey team and/or laboratory will be notified.
6. Measurements of temperature, pH, and specific conductivity will be made in the field before and after sample collection as a check on the stability of the water sampled over time.
7. Samples will be collected in the order of their sensitivity to volatilization, and interest of the DOE survey team. In this case, the order will be:
   (a) volatiles
   (b) semivolatiles
   (c) tritium oxide
   (d) pesticides/PCBs
   (e) ICP-metals
   (f) cyanide
   (g) gross alpha, beta
   (h) gamma scan
8. Each well will be considered its own population.

- Number, Type and Location of Samples: Two grab water samples from the well shown in Figure 3-25 (map reference: ANL Site Plan, p. 2-5).

- Sampling Methods: DOE Draft Environmental Survey Manual, Appendix E, Section E4.4.4.1 (if submersible pump), or E4.4.4.4 (if bailer).

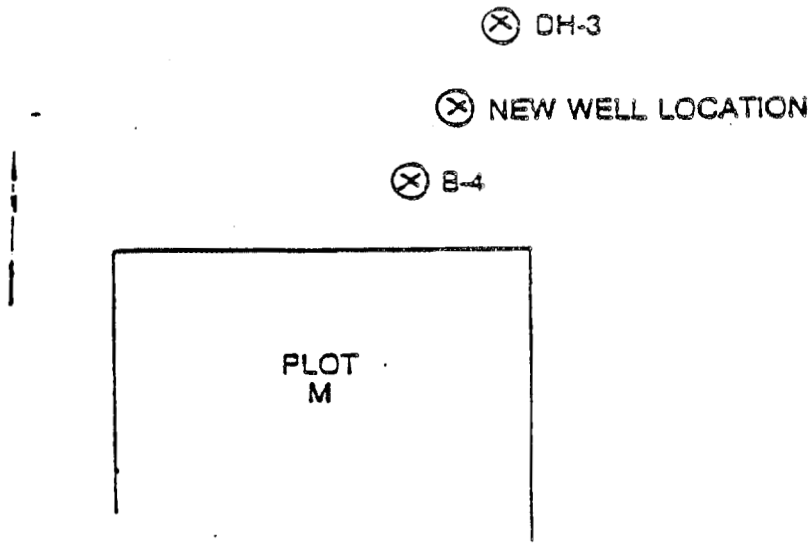

FIGURE 3-25. LOCATION OF PROPOSED NEW WELL BETWEEN DH-3 AND B-4 AT PLOT M (SAR 413)

3.2.10.7 Sampling and Analytical Design: SAR 414 - New Well to be Located Between DH-3 and Borehole No. 4 - Soil

The analysis of soil samples will aid in understanding soil lithology, leachate flow, and contaminant attenuation.

3.2.10.7.1 Analytical Design

Field Measurements: Organic vapor, with a photoionization or flame ionization detector (OVA or HNU)(Appendix D).

Laboratory Analyses: Volatiles, semivolatiles, tritium oxide, pesticides/PCBs, ICP-metals, cyanide, gross alpha, gross beta, and gamma scan.

3.2.10.7.2 Sampling Design

- Introduction: Split spoon soil samples will be collected as the well is drilled. Field screening will be conducted using an OVA to indicate the presence of organic constituents.

- Assumptions/Considerations (See Figure 3-26)

  1. Soil samples will be collected at every 10-foot interval to the bottom of the boring (a minimum depth of 21 feet) with split-spoon sampler.
  2. Triplicate samples will be collected for volatiles at each 10-foot interval. One sample container will be placed in the sun or a heated area for 15 or 20 minutes. After that time, the air in this container will be tested with a OVA or HNU. If levels are measurable, the remaining two volatiles samples will be retained, as well as the rest of the samples, for laboratory analysis. The heated volatile sample will be disposed of by ANL. Should the OVA or HNU indicate an absence of

organic vapor, the remaining two volatiles and full complement of samples will be discarded.

3. Samples will be collected in the order of their sensitivity to volatilization, and interest of the DOE Survey team. In this case, the order will be:
   (a) volatiles
   (b) semivolatiles
   (c) tritium oxide
   (d) pesticides/PCBs
   (e) ICP-metals
   (f) cyanide
   (g) gross alpha, beta and gamma scan

   In case of insufficient sample recovery, the latter two parameters will not be collected.
4. Each well will be considered its own population.

- Number, Type, and Location of Samples: Approximately 2 grab soil samples from the location shown in Figure 3-26 (map reference: ANL Site Plan, p. 2-5).

- Sampling Method: DOE Draft Environmental Survey Manual, Appendix E, Section E5.2.1.

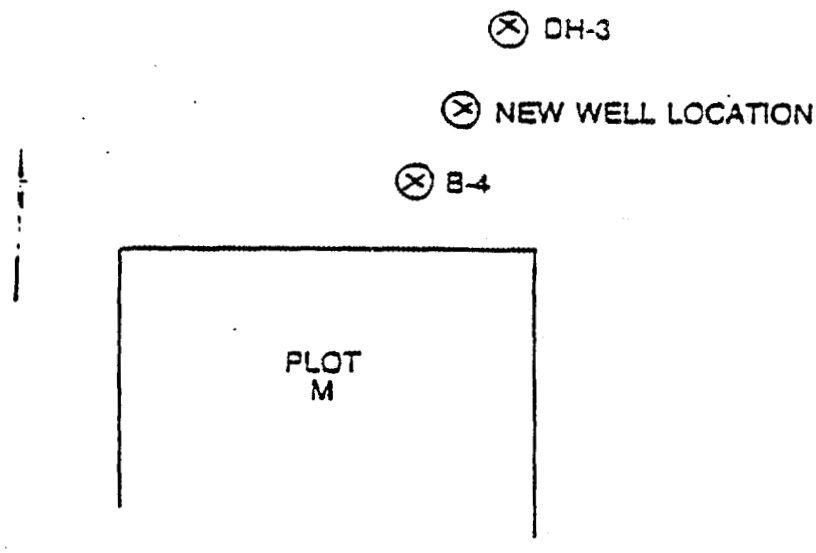

FIGURE 3-26. LOCATION OF PROPOSED NEW WELL BETWEEN DH-3 AND B-4 AT PLOT M.

3.2.10.9 Sampling and Analytical Design: SAR 416 - New Well Located Along South Edge of 319 Landfill Area - Water

This is a new well that will be located along the south edge of the 319 Landfill approximately 50 feet south of the base of the landfill slope and 200 feet east of the 317 Area fence. The well will aid in monitoring the potential vertical migration of contaminated groundwater into the dolomite aquifer. The recommended parameters may reasonably be expected to be present, but some are not currently monitored.

3.2.10.9.1 Analytical Design

Field Measurements: pH, specific conductivity, and temperature. (Appendix A and the DOE Environmental Survey Manual, Appendix E, section E4.5).

Laboratory Analyses: Volatiles, semivolatiles, tritium oxide, pesticides/PCBs, ICP-metals, cyanide, total uranium, strontium-90, gross alpha and beta, gamma scan, and plutonium.

3.2.10.9.2 Sampling Design

- Introduction

This new well will be drilled to the following specifications: depth to 10 feet below the top of the dolomite layer (this will require a 10-foot core into rock); screen bottom 5 feet; use 4-inch stainless steel casing; pea gravel for the filter pack with a bentonite seal 3 feet above the top of the screen; and a screen slot size of 0.02 inch. A total depth of the well is estimated to be 50 feet. Placement of the well will require appropriate permits (contact Norbert Golchert, ANL).

- Assumptions/Considerations (See Figure 3-28)

1. Two sets of samples will be collected from each well. Samples may be collected consecutively for each parameter instead of sampling on separate

days (i.e., volatiles for the first set of samples; then volatiles for the second set of samples; then semivolatiles, pesticides/PCBs, etc., for the first set of samples; then the remaining for the second set of samples).

2. The measurement of groundwater elevation will be made before sampling is initiated in order to determine the volume to be purged from the well.
3. The well will be purged before sampling. Three to five volumes will be removed either by pumping or by bailing the well. If purged dry, sampling will begin when the well recovers. If insufficient volume of sample is available, the survey team and/or laboratory will be notified.
4. Measurements of temperature, pH, and specific conductivity will be made in the field before and after sample collection as a check on the stability of the water sampled over time.
5. Samples will be collected in the order of their sensitivity to volatilization, and interest of the DOE Survey team. In this case, the order will be:
   (a) volatiles
   (b) semivolatiles
   (c) tritium oxide
   (d) pesticides/PCBs
   (e) ICP-metals
   (f) cyanide
   (g) uranium
   (h) strontium-90
   (i) gross alpha, beta
   (j) gamma scan
   (k) plutonium
6. Each well will be considered its own population.

- Number, Type, Location of Samples: Two grab water samples from the well location show in Figure 3-28 (Map Reference: ANL Site Map, p. 2-5).

- Sampling Method: DOE Draft Environmental Survey Manual, Appendix E, Section E4.4.4.1 (submersible pump), or section E4.4.4.4 (if bailer).

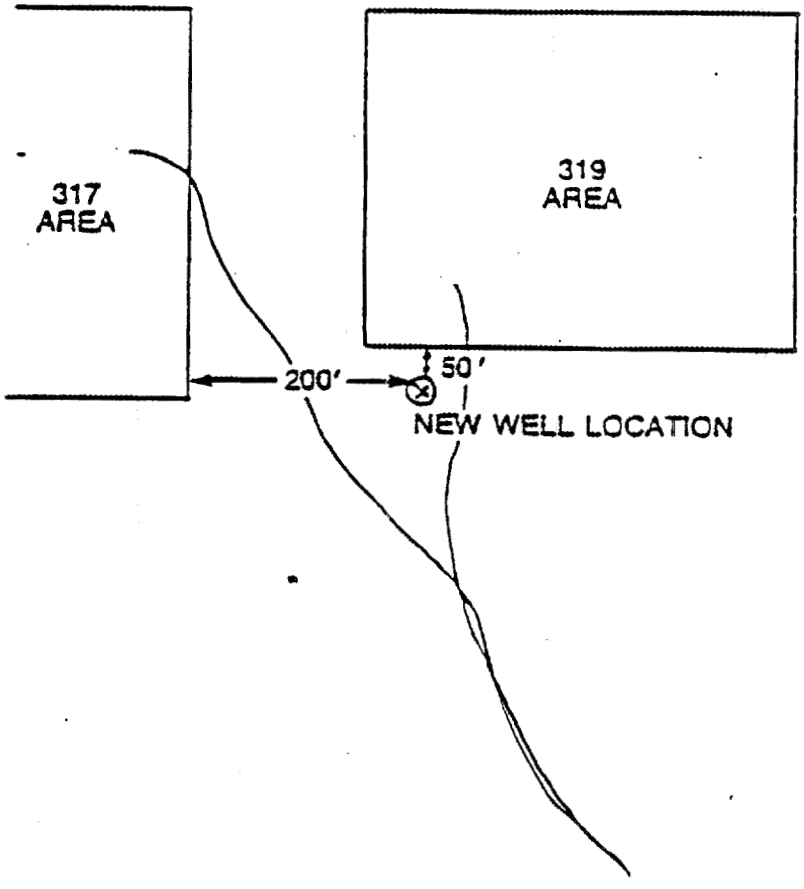

FIGURE 3-28. LOCATION OF PROPOSED NEW WELL SOUTH OF THE 319 AREA.

3.2.10.10 Sampling and Analytical Design: SAR 417 - New Well Located Along South Edge of 319 Landfill Area - Soil

The analysis of soil samples will aid in observing leachate flow and contaminant attenuation.

3.2.10.10.1 Analytical Design

Field Measurements: Organic vapor, with a photoionization or flame ionization detector (OVA or HNU)(Appendix D).

Laboratory Analyses: Volatiles, semivolatiles, tritium oxide, pesticides/PCBs, ICP-metals, and cyanide.

3.2.10.10.2 Sampling Design

- Introduction

Five split spoon soil samples will be collected as the well is drilled to provide information on soil lithology, the presence of contaminants in the soil column, and as an indicator of potential groundwater migration.

- Assumption/Considerations (See Figure 3-29)

1. Soil samples will be collected at every 10-foot interval to the top of the bedrock (estimated 40 feet) with a split-spoon sampler.
2. Triplicate samples will be collected for volatiles at each 10-foot interval. One sample container will be placed in the sun or a heated area for 15 or 20 minutes. After that time, the air in this container will be tested with an OVA or HNU. If levels are measurable, the remaining two volatile samples, as well as the rest of the samples will be retained for laboratory analysis. The heated

volatile sample will be disposed of by ANL. Should the OVA or HNU indicate an absence of organic vapor, discard the remaining two volatiles and full complement of samples will be discarded.

3. Samples will be collected in the order of their sensitivity to volatilization, and interest of the DOE Survey team. In this case, the order will be:
   (a) volatiles
   (b) semivolatiles
   (c) tritium oxide
   (d) pesticides/PCBs
   (e) ICP-metals
   (f) cyanide

   In case of insufficient sample recovery, the latter two parameters will not be collected.
4. Each well will be considered its own population.

- Number, Type, and Location of Samples: Approximately 5 grab soil samples from the location shown in Figure 3-29 (map reference: ANL Site Plan, p. 2-5).
- Sampling Method: DOE Draft Environmental Survey Plan, Appendix E, Section E5.2.1.

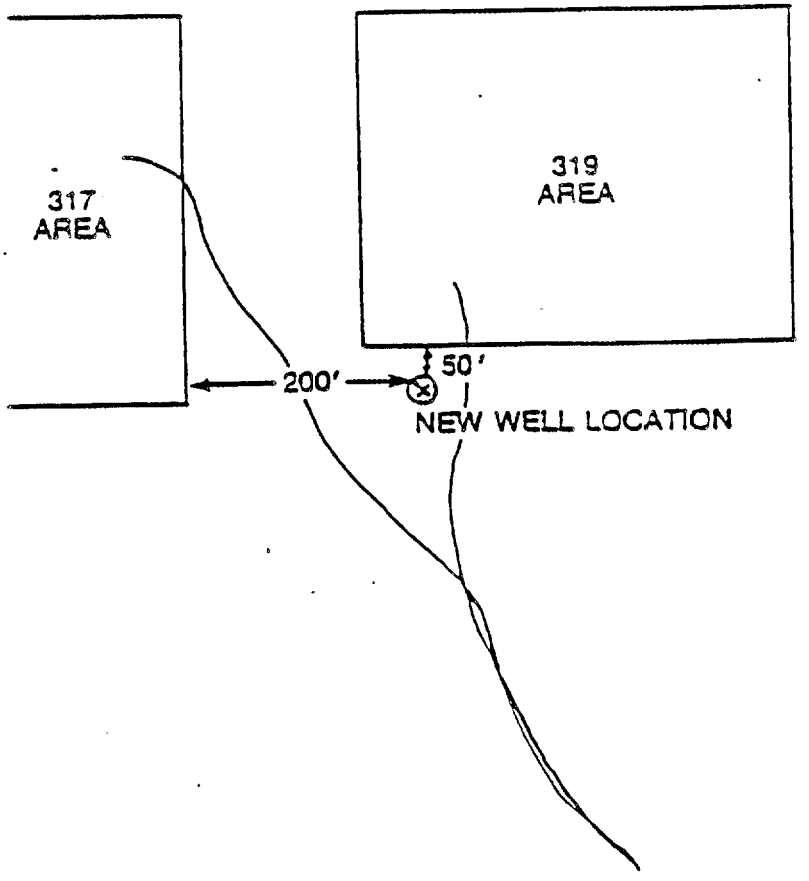

FIGURE 3-29. NEW WELL LOCATED ALONG SOUTH EDGE OF 319 LANDFILL AREA.

SAMPLE AND ANALYSIS REQUEST NUMBER: 406, new well adjacent to existing well #6.

SAMPLE LOCATION DESCRIPTION: East side of Area 800 landfill, 10 feet north of existing well #6, 75 foot depth.

SPECIAL HAZARDS: NA/Level D anticipated.

MEDIA: Water.

SAMPLE COLLECTION TECHNIQUE: Purge wells prior to sampling. Samples collected with Teflon bailer.

FIELD MEASUREMENTS: pH, specific conductivity, temperature.

TYPES AND NUMBERS OF SAMPLES: 2 grab samples. Sample identification codes; AR 406 01 through AR 406 02.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS PER SAMPLE:

4-40 ml VOA borosilicate w/Teflon septa; refrigerate; no headspace; volatiles
3-1L amber glass w/Teflon cap; refrigerate; semivolatiles
3-1L amber glass w/Teflon cap; refrigerate; pesticides/PCBs
1-1000 ml HDPE; HNO_3 to pH < 2; metals-ICP
1-1L HDPE w/Teflon cap; 10 N NaOH to pH > 12; refrigerate; 0.6g ascorbic acid if oxidizers are present; cyanide
1-1L HDPE; HNO_3 to pH < 2; tritium

DECONTAMINATION PROCEDURES: Sampling equipment will be washed with detergent, rinsed with water, rinsed with methanol and allowed to air dry or rinsed with distilled water.

AR406018 AR406019

Volatiles

Semivolatiles

Pesticides

ICP metals

Cyanide

Tritium

SAMPLE AND ANALYSIS REQUEST NUMBER: 406, new well adjacent to existing well #9.

SAMPLE LOCATION DESCRIPTION: Northwest corner of Area 300 landfill, 10 feet southwest of existing well #9, 75 foot depth.

SPECIAL HAZARDS: NA/Level D anticipated.

MEDIA: Water.

SAMPLE COLLECTION TECHNIQUE: Purge wells prior to sampling. Samples collected with Teflon bailer.

FIELD MEASUREMENTS: pH, specific conductivity, temperature.

TYPES AND NUMBERS OF SAMPLES: 2 grab samples. Sample identification codes; AR 406 03 through AR 406 04.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS PER SAMPLE:

4-40 ml VOA borosilicate w/Teflon septa; refrigerate; no headspace; volatiles
3-1L amber glass w/Teflon cap; refrigerate; semivolatiles
3-1L amber glass w/Teflon cap; refrigerate; pesticides/PCBs
1-1000 ml HDPE; HNO_3 to pH < 2; metals-ICP
1-1L HDPE w/Teflon cap; 10 N NaOH to pH > 12; refrigerate; 0.6g ascorbic acid if oxidizers are present; cyanide
1-1L HDPE; HNO_3 to pH < 2; tritium

DECONTAMINATION PROCEDURES: Sampling equipment will be washed with detergent, rinsed with water, rinsed with methanol, and allowed to air dry or rinsed with distilled water.

SAMPLE AND ANALYSIS REQUEST NUMBER: 407, new well adjacent to existing well #6.

SAMPLE LOCATION DESCRIPTION: East side of Area 800 Landfill, 10 feet north of existing well #6, 75 foot depth.

SPECIAL HAZARDS: NA/Level D anticipated.

MEDIA: Soil.

SAMPLE COLLECTION TECHNIQUE: Split spoon at 10 foot intervals. Volatiles collected directly from core before compositing and determinations made of presence of organic vapors. If vapors present a complement of samples will be sent for analysis.

FIELD MEASUREMENTS: Organic vapor (OVA).

TYPES AND NUMBERS OF SAMPLES: Up to 7 grab samples at 10 foot intervals. Sample identification codes AR 407 08 through AR 407 14.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS PER SAMPLE:

3-100 ml glass w/Teflon cap; refrigerate; volatiles
1-250 ml glass w/Teflon cap; refrigerate; semivolatiles
1-250 ml HDPE; refrigerate; metals-ICP
1-250 ml HDPE; refrigerate; cyanide
1-250 ml HDPE, no preservation; tritium

DECONTAMINATION PROCEDURES: Sampling equipment will be washed with detergent, rinsed with water, rinsed with methanol, and allowed to air dry or rinsed with distilled water.

SAMPLE AND ANALYSIS REQUEST NUMBER: 407, new well adjacent to existing well #9.

SAMPLE LOCATION DESCRIPTION: Northwest corner of Area 800 Landfill, 10 feet southwest of 9, 75 foot depth.

SPECIAL HAZARDS: NA/Level D anticipated.

MEDIA: Soil.

SAMPLE COLLECTION TECHNIQUE: Split spoon at 10-foot intervals. Volatiles collected directly from core before compositing and determinations made of presence of organic vapors. If vapors present a complement of samples will be sent for analysis.

FIELD MEASUREMENTS: Organic vapor (OVA).

TYPES AND NUMBERS OF SAMPLES: Up to 7 grab samples at 10-foot intervals. Sample identification codes: AR 407 01 through AR 407 07.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS PER SAMPLE:

3-100 ml glass w/Teflon cap; refrigerate; volatiles
1-250 ml glass w/Teflon cap; refrigerate; semivolatiles
1-250 ml HDPE; refrigerate; metals-ICP
1-250 ml HDPE; refrigerate; cyanide
1-250 ml HDPE, no preservation; tritium

DECONTAMINATION PROCEDURES: Sampling equipment will be washed with detergent, rinsed with water, rinsed with methanol, and allowed to air dry or rinsed with distilled water.

AR 407 01
02
03
04
05
06
07

Volatiles
Semivolatiles
ICP Metals
Cyanide
Tritium

SAMPLE AND ANALYSIS REQUEST NUMBER: 408, new well adjacent to existing well #6.

SAMPLE LOCATION DESCRIPTION: East side of Area 800 Landfill, 10 feet south of existing well #6, 28-foot depth.

SPECIAL HAZARDS: NA/Level D anticipated.

MEDIA: Water.

SAMPLE COLLECTION TECHNIQUE: Purge wells prior to sampling. Samples collected with Teflon bailer.

FIELD MEASUREMENTS: pH, specific conductivity, temperature.

TYPES AND NUMBERS OF SAMPLES: 2 grab samples, Sample identification codes: AR 408 01 through AR 408-02.

SAMPLE CONTAINERS PRESERVATIVES, ANALYSIS PER SAMPLE:

4-40 ml VOA borosilicate w/Teflon septa; refrigerate; no headspace; volatiles
3-1L amber glass w/Teflon cap; refrigerate; semivolatiles
3-1L amber glass w/Teflon cap; refrigerate; pesticides/PCBs
1-1000 ml HDPE; HNO_3 to pH < 2; metals-ICP
1-1L HDPE w/Teflon cap; 10 N NaOH to pH > 12; refrigerate; 0.6g ascorbic acid if oxidizers are present; cyanide
1-1L HDPE; HNO_3 to pH < 2; tritium

DECONTAMINATION PROCEDURES: Sampling equipment will be washed with detergent, rinsed with water, rinsed with methanol, and allowed to air dry or rinsed with distilled water.

AR408C1C
-1

Volatiles
"
"
"
Semivolatiles
"
"
PCBs/Pest
"
"
ICP Metals
Cyanide
Tritium

SAMPLE AND ANALYSIS REQUEST NUMBER: 413, new well located between DH 3 and Borehole 4.

SAMPLE LOCATION DESCRIPTION: 75-100 feet north of Plot M. Depth to be determined but at least 21 feet.

SPECIAL HAZARDS: NA/Level D anticipated.

MEDIA: Water.

SAMPLE COLLECTION TECHNIQUE: Purge well prior to sampling. Samples collected with Teflon bailer.

FIELD MEASUREMENTS: pH, specific conductivity, temperature.

TYPES AND NUMBERS OF SAMPLES: At least 2 grab samples. Sample identification codes: AR 413 01 through AR 413 02.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS PER SAMPLE:

4-40 ml VOA borosilicate w/Teflon septa; refrigerate; no headspace; volatiles
3-1L amber glass w/Teflon cap; refrigerate; semivolatiles
3-1L amber glass w/Teflon cap; refrigerate; pesticides/PCBs
1-1000 ml HDPE; HNO_3 to pH < 2; metals-ICP
1-1L HDPE w/Teflon cap; 10 N NaOH to pH > 12; refrigerate; 0.6g ascorbic acid if oxidizers are present; cyanide
1-1L HDPE; HNO_3 to pH < 2; tritium
1-250 ml HDPE; HNO_3 to pH < 2; gross alpha and beta
1-500 ml HDPE; HNO_3 to pH < 2; gamma scan

DECONTAMINATION PROCEDURES: Sampling equipment will be washed with detergent, rinsed with water, rinsed with methanol, and allowed to air dry or rinsed with distilled water.

SAMPLE AND ANALYSIS REQUEST NUMBER: 414, new well located between DH3 and Borehole 4.

SAMPLE LOCATION DESCRIPTION: 75 to 100 feet north of Plot M. Depth to be determined but at least 21 feet.

SPECIAL HAZARDS: NA/Level D anticipated.

MEDIA: Soil.

SAMPLE COLLECTION TECHNIQUE: Split spoon at 10-foot intervals. Volatiles collected directly from core before compositing and determinations made of presence of organic vapors. If vapors present, a complement of samples will be sent for analysis.

FIELD MEASUREMENTS: PID (OVA).

TYPES AND NUMBERS OF SAMPLES: Up to 2 grab samples at 10-foot intervals. Sample identification codes: AR 414 01 through AR 414 06.

SAMPLE CONTAINERS, PRESERVATIONS, ANALYSIS PER SAMPLE:

3-100 ml glass w/Teflon cap; refrigerate; volatiles
1-250 ml glass w/Teflon cap; refrigerate; semivolatiles
1-250 ml HDPE; refrigerate; metals-ICP
1-250 ml HDPE; refrigerate; cyanide
1-250 ml HDPE; no preservation; tritium
1-250 ml HDPE; no preservation; tritium oxide
1-250 ml HDPE; no preservation; gross alpha, beta; gamma scan

DECONTAMINATION PROCEDURES: Sampling equipment will be washed with detergent, rinsed with water, rinsed with methanol and allowed to air dry or rinsed with distilled water.

AR414 01 — A Volatiles
02 — B "
03 — C "
04 — D Semivols
05 — E ICP Metals
06 — F Cyanide
07 — G Tritium
08 — H Tritium Oxide
09 — I GA, GB, GS

SAMPLE AND ANALYSIS REQUEST NUMBER: 416, new well located along south edge of 319 Landfill Area.

SAMPLE LOCATION DESCRIPTION: Approximately 50 ft south of the base of the landfill slope and 200 ft east of the 317 Area fence. 50 foot depth.

SPECIAL HAZARDS: NA/Level D anticipated.

MEDIA: Water.

SAMPLE COLLECTION TECHNIQUE: Purge well prior to sampling. Samples collected with Teflon bailer.

FIELD MEASUREMENTS: pH, specific conductivity, temperature.

TYPES AND NUMBERS OF SAMPLES: 2 grab samples. Sample identification codes: AR 416 01 through AR 416 02.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS PER SAMPLE:

4-40 ml VOA borosilicate w/Teflon septa; refrigerate; no headspace; volatiles
3-1L amber glass w/Teflon cap; refrigerate; semivolatiles
3-1L amber glass w/Teflon cap; refrigerate; pesticides/PCBs
1-1000 ml HDPE; HNO_3 to pH < 2; metals-ICP
1-1L HDPE w/Teflon cap; 10 N NaOH to pH > 12; refrigerate; 0.6g ascorbic acid if oxidizers are present; cyanide
1-1L HDPE; HNO_3 to pH < 2; uranium
1-1L HDPE; HNO_3 to pH < 2; tritium oxide
1-500 ml HDPE; HNO_3 to pH < 2; strontium-90
1-250 ml HDPE; HNO_3 to pH < 2; gross alpha and beta
1-500 ml HDPE; HNO_3 to pH < 2; gamma scan
1-500 ml HDPE; HNO_3 to pH < 2; plutonium

DECONTAMINATION PROCEDURES: Sampling equipment will be washed with detergent, rinsed with water, rinsed with methanol and allowed to air dry or rinsed with distilled water.

AR416C14 #1

A Volatile
"
"
Semivols
"
"
PCBs, Pest
"
"
ICP Metals
Cyanide
Uranium
Tritium oxide
SR-90
GA, GB
GS

R Plutonium

SAMPLES AND ANALYSIS REQUEST NUMBER: 417, new well located along south edge of 319 Landfill Area.

SAMPLE LOCATION DESCRIPTION: Approximately 50 ft south of the base of the landfill slope and 200 ft east of the 317 Area fence. 50 feet deep.

SPECIAL HAZARDS: NA/Level D anticipated.

MEDIA: Soil.

SAMPLE COLLECTION TECHNIQUE: Split spoon at 10-foot intervals. VOA collected directly from core before compositing and determination made of presence of organic vapors. If vapors present, a complement of samples will be sent for analysis.

FIELD MEASUREMENTS: Organic vapor (OVA)

TYPES AND NUMBER OF SAMPLES: Up to 5 grab samples at 10-foot intervals. Sample identification codes; AR41701 through AR41705.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS PER SAMPLE:

3-100 ml glass w/Teflon cap; refrigerate; volatiles
1-250 ml glass w/Teflon cap; refrigerate; semivolatiles
1-250 ml HDPE; refrigerate; metals-ICP
1-250 ml HDPE; refrigerate; cyanide
1-250 ml HDPE, no preservation; tritium

DECONTAMINATION PROCEDURES: Sampling equipment will be washed with detergent, rinsed with water, rinsed with methanol and allowed to air dry or rinsed with distilled water.

AR41701
2
3
4
5

A Volatiles
B Volatiles
C Semivolatiles
D ICP Metals
E Cyanide
F Tritium

TABLE 5-1. SAMPLE CONTAINER TYPES, SAMPLE VOLUMES, PRESERVATION METHODS AND MAXIMUM HOLDING TIMES FOR AQUEOUS SAMPLES

Parameter	Container Material	Container Capacity	Sample Volume	Preservation	Holding Time	Comments
Volatiles	Glass vial with Teflon-Faced sepla	40 ml	160 ml (4-40 ml vials)	Refrigerate	7 days from receipt	No head space. Protect from light. Store inverted.
Semivolatiles	Glass, Amber Teflon-Lined Cap	3 x 1 liter	3 liters	Refrigerate	Extract 5 Days. Analyze 30 Days	Protect from light.
Pesticides/ PCBs	Glass, Amber Teflon-Lined Cap	3 x 1 liter	3 liters	Refrigerate (pH to 5.0-9.0 with $Na_2S_2O_3$)	Extract 5 Days. Analyze 30 Days.	Lab request for preservation.
Metals, ICP	HDPE, Ref. lined Cap NM	1000 ml (to allow for duplicate 500 ml samples)	1000 ml	HNO_3 to pH < 2	6 months	

TABLE 5-1. SAMPLE CONTAINER TYPES, SAMPLE VOLUMES, PRESERVATION METHODS AND MAXIMUM HOLDING TIMES FOR AQUEOUS SAMPLES (CONTINUED)

Parameter	Container Material	Container Capacity	Sample Volume	Preservation	Holding Time	Comments
Cyanide	HDPE, Tef. lined Cap, NM	1000 ml	1000 ml	10 N NaOH to pH > 12; 0.6 g ascorbic acid if oxidizers present		
Tritium Oxide	HDPE, Tef. lined Cap, NM	1000 ml	1000 ml	HNO_3 to pH < 2		
Gross Alpha & Beta	HDPE, Tef. lined Cap, NM	250 ml	250 ml	HNO_3 to pH < 2		
Uranium	HDPE, Tef. lined Cap, NM	1000 ml	1000 ml	HNO_3 to pH < 2		
Strontium 90	HDPE, Tef. Lined Cap	500 ml	500 ml	HNO_3 to pH < 2		
Gamma Scan	HDPE, Tef. Lined Cap	500 ml	500 ml	HNO_3 to pH < 2		
Plutonium	HDPE, Tef. Lined Cap	500 ml	500 ml	HNO_3 to pH < 2		

TABLE 5-2. SAMPLE CONTAINER TYPE, SAMPLE VOLUME, PRESERVATION METHOD AND MAXIMUM HOLDING TIMES FOR SOIL AND SEDIMENT SAMPLES

Parameter	Container Material	Container Capacity	Sample Volume	Preservation	Holding Time	Comments
Volatiles	Clear glass w/Teflon Cap WM	125 ml	100 gm (2 jars)	Ref	10 days from receipt	Minimum headspace
Semivol/ Pest/PCBs	Clear glass w/Teflon Cap WM	250 ml	100 gms	Ref	10 days	Leave head space for mixing
Metals, ICP	HDPE, Tef Lined cap WM	250 ml	100 gms	Ref	6 months	
Cyanide	HDPE, Tef lined cap, WM	250 ml	100 gms	Ref	28 days	
Tritium oxide	HDPE, Tef lined Cap	125 ml or 250 ml	50 gms	None		
Gross Alpha & Beta, Gamma Scan	HDPE, Tef lined cap	250 ml	50 gm (alpha/beta) 125 gm (gamma)	None		
Strontium 90	HDPE, Tef lined WM	250 ml	50 gm	None		