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Section 3
PCB Aroclor and Chlorinated Pesticide Results

QA/QC Narratives
Tree Swallow Tissue and QC Results

Section 3

SDMS DocID 48769

QA/QC Narratives

PCB Aroclor/Pesticide QA/QC Summary
QC Batch 01-380 – Tree Swallow Nestlings

PROJECT:	USACE NAE Delivery Order #01 Centredale
PARAMETER:	PCB Aroclor and Chlorinated Pesticides
LABORATORY:	Battelle, Duxbury, MA
MATRIX:	Tree swallow nestlings
SAMPLE CUSTODY:	Tree swallow nestlings were collected by USGS between May 30 and June 12, 2001. Samples were received for processing at Battelle MSL on July 11, 2001. Swallow nestling samples were freeze-dried, homogenized and a sub-sample shipped to Battelle Duxbury for PCB Aroclor and chlorinated pesticides analyses. Freeze-dried, nestling homogenates were received at Battelle Duxbury on August 31, 2001. Samples arrived after normal business hours and were not logged into the laboratory until September 3, 2001. The cooler was at room temperature upon login. Battelle does not believe that the samples were compromised since they had already been freeze-dried.

QA/QC MEASUREMENT PERFORMANCE CRITERIA:

	Reference Method	Blank	Surrogate Recovery	LCS/MS Recovery	SRM % Diff.	MS/MSD Replicate Relative Precision	Achieved RL (ng/g wet)	Project Goals * (ng/g wet)
PCB/ PEST	L-9 Battelle SOP 5-128	<QL[a]	40-125% Recovery	40-120% Recovery [b]	≤30% PD [c]	≤30% RPD [b,d]	Aroclor: 28.3 to 87.4 Pest: 2.26 to 6.99 Technical Chlordane: 283 to 873 Toxaphene: 73.7 to 175	Aroclor: 0.48 to 17 Pest. 0.0565 to 6020 Technical Chlordane: NA Toxaphene: 0.873

[a] Or associated samples >10× blank values.
[b] For 90% of analytes; Analyte concentration in MS/MSD must be >5× background to be used for data quality assessment
[c] From a range of certified values; using surrogate corrected data; certified values in SRM must be >3× the detection limit to be used for data quality assessment
[d] Sample duplicate – detected values must be >3× the detection limit to be used for data quality assessment
* Project detection limit goals vary by analyte – see Worksheet #9b in the project QAPP (Battelle, 2001) for detection limit goals by analyte.

METHOD: Freeze-dried nestling samples were prepared and analyzed for PCB Aroclor and chlorinated pesticides following methods described in Battelle's Quality Assurance Project Plan (Battelle, 2001). Briefly,

Sample Preparation – Tissues were extracted and cleaned following procedures in Battelle SOP 5-190, which are methods developed by Battelle in support of NOAA's National Status and Trends Mussel Watch Project (Peven and Uhler, 1993a). Approximately 2-g of freeze-dried nestling homogenate was weighed into a Teflon extraction jar, spiked with the appropriate surrogate internal standard (SIS) compounds, combined with 75 mL DCM and sodium sulfate, macerated with a Tissuemizer and centrifuged. The extract was decanted into an Erlenmeyer flask. This process was

METHOD (cont):

repeated a second time using an additional 75 mL DCM. A third extraction was performed on the sample using 50 mL DCM and shaking on a shaker table for approximately 30 minutes. The sample was then centrifuged a third time and the solvent decanted into the Erlenmeyer with the rest of the sample extract. The combined extract was dried over sodium sulfate and concentrated by Kuderna-Danish (KD) technique to approximately 10 mL. A measured aliquot of extract was removed for lipid determination (above). The remaining extract was concentrated to approximately 2 to 3 mLs and processed through an alumina column (40 g F20 2% deactivated) and HPLC cleanup.

The post-HPLC extract was concentrated under nitrogen, solvent exchanged into hexane to approximately 1 mL, and spiked with recovery internal standard (RIS) compounds. The extract was transferred to GC/ECD for chlorinated pesticides /PCB Aroclors analysis.

GC/ECD Analysis – PCB Aroclors and chlorinated pesticides were analyzed by GC/ECD (Hewlett Packard 5890 Series 2 GC) using a 60-m DB5 column and hydrogen as the carrier gas. A minimum of a five-point calibration curve was used for pesticide analysis ranging from approximately 0.008 to 0.3 µg/mL. A single point calibration at approximately 2 µg/mL was used for Technical Chlordane and PCB Aroclors analysis. And a single point calibration at approximately 4 µg/mL was used for Toxaphene analysis

GC/ECD Calibration Issues – One continuing calibration analyzed with the sequence failed for several pesticides. The failure was due to low argon/methane pressure and affected the continuing calibration and instrument control check only. No samples were affected. The next continuing calibration met criteria for all compounds except Endrin (30% PD from initial).

Estimated Pesticide Data – Most samples contained high levels of Aroclor 1254 and Technical Chlordane, resulting in co-elution with some chlorinated pesticides. Co-elution between high-level contaminants (e.g., PCB Aroclor) and relatively lower level contaminants such as chlorinated pesticides can lead to less accurate peak integrations for the affected pesticides. As a result, chlorinated pesticide results for the nestling samples should be considered estimates.

Total Aroclor – was determined as the most predominant Aroclor formulation, or mixture of two major Aroclor formulations. The predominant Aroclor formulation (>80%) was Aroclor 1254, with relatively lower levels of Aroclor 1268.

HOLDING TIMES:

Samples were prepared for analysis in one analytical batch. Samples were extracted within 5 months of collection and analyzed within 20 days of extraction.

Batch	Extraction Date	Analysis Date
01-380	10/16/2001	11/2 – 5/2001

DETECTION LIMITS:

PCB Aroclor and chlorinated pesticide results are reported relative to the sample-specific reporting limits (also referred to as QL in the QAPP) for that compound. The sample-specific RL is based on the low calibration standard and adjusted for sample specific processing factors and volumes, as follow:

RL = (Concentration in Low Std. × final extract volume × dilution factors)/ Sample size

Where,

Concentration in Low Std. = approximately 0.008 µg/mL for pesticides and PCB congeners; 1 µg/mL Technical Chlordane; 0.1 µg/mLfor Aroclor; and 0.2 µg/mL for Toxaphene**
Final Extract Volume = 1,100 µL
Dilution Factor = approximately 4 to 5
Sample Size = approximately 30-g wet

** Note that a mid-level, single point calibration was analyzed for Technical Chlordane (2 µg/mL), PCB Aroclor (2 µg/mL) and Toxaphene (4 µg/mL). However, the RL was based on the low range of the calibration curve, which was not analyzed with the samples. A full curve (for Technical Chlordane and Aroclor) had been analyzed within 11-weeks of the samples, thereby demonstrating that the instrument is sensitive at a lower level. Calculation of RLs is consistent with the methods specified in the QAPP (see Worksheet #9a).

Achieved RLs for most pesticides either met or were below the project detection limit goals. Achieved RLs for PCB Aroclor and Toxaphene did not meet the project detection limit goals. As noted in the QAPP, the project detection limit goals are provided for perspective rather than as a requirement for the analytical methods. If detection limits cannot be achieved, this will be addressed in the uncertainty discussions in the risk assessment.

BLANKS:

One laboratory procedural blank (PB) was prepared with the analytical batch. The blank was analyzed to ensure that the sample extraction and analysis methods were free of contamination.

01-380 – PCB Aroclors/chlorinated pesticides were undetected in the laboratory blank.

LABORATORY CONTROL SAMPLE

Two laboratory control samples (LCS) were prepared with the analytical batch. One LCS sample was fortified with PCB congeners and chlorinated pesticides. The other LCS was fortified with PCB Aroclor 1016 and 1260. The percent recoveries of PCB Aroclor and chlorinated pesticides were calculated to measure data quality in terms of accuracy.

01-380 – With the single exception of Endrin aldehyde, PCB Aroclor and chlorinated pesticides were recovered within the control limits specified in QAPP.

Recoveries ranged from:

	Pesticides	PCB Aroclor
ZL76LCS#1	39 – 79%	not spiked
ZL77LCS#2	not spiked	60 – 72%

Correction Action – Endrin aldehyde was recovered at 39%, just below the lower limit of the measurement performance criteria (MPC). Endrin aldehyde was likely lost on the alumina cleanup column. Sample data for Endrin aldehyde should be considered biased low.

MATRIX SPIKES:

A matrix spike (MS)/matrix spike duplicate (MSD) sample was prepared with the analytical batch. Chlorinated pesticides and PCB congeners were fortified into the MS/MSD, not Aroclor. Aroclor was only fortified into the LCS sample in accordance with the QAPP.

The percent recoveries of pesticides in the MS/MSD were calculated to measure data quality in terms of accuracy. The relative percent difference (RPD) between percent recoveries of pesticides in the MS and MSD were calculated to measure data quality in terms of precision.

01-380 – 15 out of 20 pesticides were recovered within the QC limits specified in the QAPP.

Recoveries ranged from:

	Pesticides
ZL78MS	4 – 71%
ZL79MSD	5 – 69%
RPDs	0.8 – 28.0%

QC exceedences included:

- Endosulfan I – 4% and 5% in the MS and MSD, respectively
- Endosulfan II – 36% and 27% in the MS and MSD, respectively
- Endrin aldehyde – 26% and 27% in the MS and MSD respectively
- Alpha-BHC – 40% in the MSD

Correction Action – The under-recovery of Endosulfan I appear to be sample related, and associated with a matrix interference that is causing low response of Endosulfan I in the MS/MSD. The chromatograms and peak integrations for Endosulfan II were reviewed, but no cause for the under-recovery was apparent. The under-recovery of Endrin aldehyde may be attributed to losses on the alumina cleanup column. Sample data should be biased low for these three pesticides. QC exceedences are flagged on the final report tables.

SURROGATES: Four PCB surrogate compounds were added to each sample prior to extraction, including PCBs 14, 34, 104, and 112. Recovery data for PCBs 34 and 112 were calculated to measure data quality in terms of accuracy (extraction efficiency). Recovery data for the other two PCB surrogate compounds are not reported, as these are used as alternative surrogates in cases of interferences.

01-380 – PCB112 was under-recovered in all but 4 study samples; PCB34 was recovered within the QC limits in all but 5 study samples.

Correction Action – The under-recovery of PCB112 appears to be sample related and associated with interferences from co-eluting PCBs and/or Technical Chlordane. Note that all laboratory QC samples (e.g, blank, LCS, SRM) had acceptable recoveries of both PCB surrogates.

Three samples had low recoveries of both PCB surrogate compounds, including:

- A-TS-35-N (Battelle ID W6488)
- A-TS-57-N (Battelle ID W6492)
- G-TS-02-N (Battelle ID W6493)
- L-TS-63-N (Battelle ID W6499)

These 4 samples will be re-extracted provide sufficient material is available for re-extraction. Samples were re-extracted with batch 01-672. Re-extract results reported. DMK-6/19/02

REPLICATES: A laboratory duplicate was prepared with the batch. The RPD between laboratory replicate analyses for PCB Aroclor and chlorinated pesticides was calculated to measure data quality in terms of precision.

01-380 – RPDs were within the control limits specified in the QAPP for all target compounds except 4,4'-DDT (30.5% RPD).

RPDs ranged from:

	Pesticides	PCB Aroclor
Duplicate	17.3 – 30.5%	22.4 – 23.5%

SRM: A standard reference material (SRM, NIST 1974a) was prepared with each analytical batch. The percent difference (PD) between detected concentrations and certified values (lower and upper range) was calculated to measure data quality in terms of accuracy. ***Note*** – if the detected value fell within the certified range, then the PD is 0.0%.

01-380 – All 5 certified pesticides had PD values < 30%.

PDs ranged from:

	Certified Pesticides
ZL80SRM	0.0 – 28.5%

REFERENCES: Battelle 2001. *Centredale Manor Restoration Project Superfund Site Baseline Risk Assessment, Initial Project Planning and Support*. Tasks 19-22 QAPP prepared under contract to USACE NAE. Delivery Order #59. May 23, 2001. 509pp + apps.

PCB Aroclor/Pesticide QA/QC Summary
QC Batch 01-568 -- Tree Swallow Eggs

PROJECT: USACE NAE Delivery Order #01 Centredale

PARAMETER: PCB Aroclor and Chlorinated Pesticides

LABORATORY: Battelle, Duxbury, MA

MATRIX: Tree swallow eggs

SAMPLE CUSTODY: Tree swallow egg samples were collected by USGS between May 21 and June 22, 2001. Swallow eggs were received at Battelle Duxbury on July 11, 2001. Samples were received in good condition and the cooler temperature upon receipt was -10.7 °C.

QA/QC MEASUREMENT PERFORMANCE CRITERIA:

	Reference Method	Blank	Surrogate Recovery	LCS/MS Recovery	SRM % Diff.	MS/MSD Replicate Relative Precision	Achieved RL (ng/g wet)	Project Goals * (ng/g wet)
PCB/ PEST	L-9 Battelle SOP 5-128	<QL[a]	40-125% Recovery	40-120% Recovery [b]	≤30% PD [c]	≤30% RPD [b,d]	Aroclor: 98.3 to 151 Pest: 2.90 to 12.0 Technical Chlordane: 983 to 1505 Toxaphene: 197 to 301	Aroclor: 0.48 to 17 Pest: 0.0565 to 6020 Technical Chlordane: NA Toxaphene: 0.873

[a] Or associated samples >10× blank values.
[b] For 90% of analytes; Analyte concentration in MS/MSD must be >5× background to be used for data quality assessment
[c] From a range of certified values; using surrogate corrected data; certified values in SRM must be >3× the detection limit to be used for data quality assessment
[d] Sample duplicate – detected values must be >3× the detection limit to be used for data quality assessment
* Project detection limit goals vary by analyte – see Worksheet #9b in the project QAPP (Battelle, 2001) for detection limit goals by analyte.

METHOD: Swallow egg samples were prepared and analyzed for PCB Aroclor and chlorinated pesticides following methods described in Battelle's Quality Assurance Project Plan (Battelle, 2001). Briefly,

Sample Preparation -- Tissues were extracted and cleaned following procedures in Battelle SOP 5-190, which are methods developed by Battelle in support of NOAA's National Status and Trends Mussel Watch Project (Peven and Uhler, 1993a). Approximately 2-g of well mixed, wet swallow egg was weighed into a Teflon extraction jar, spiked with the appropriate surrogate internal standard (SIS) compounds, combined with 75 mL DCM and sodium sulfate, macerated with a Tissuemizer and centrifuged. The extract was decanted into an Erlenmeyer flask. This process was repeated a second time using an additional 75 mL DCM. A third extraction was performed on the sample using 50 mL DCM and shaking on a shaker table for approximately 30 minutes. The sample was then centrifuged a third time and the solvent decanted into the Erlenmeyer with the rest of the sample extract. The combined extract was dried over sodium sulfate and concentrated by Kuderna-Danish (KD) technique to approximately 10 mL. A measured aliquot of extract was removed for

METHOD (cont):

lipid determination (above). The remaining extract was concentrated to approximately 2 to 3 mLs and processed through an alumina column (40 g F20 2% deactivated) and HPLC cleanup.

The post-HPLC extract was concentrated under nitrogen, solvent exchanged into hexane to approximately 1 mL, and spiked with recovery internal standard (RIS) compounds. The extract was transferred to GC/ECD for chlorinated pesticides /PCB Aroclors analysis.

GC/ECD Analysis – PCB Aroclors and chlorinated pesticides were analyzed by GC/ECD (Hewlett Packard 5890 Series 2 GC) using a 60-m DB5 column and hydrogen as the carrier gas. A minimum of a five-point calibration curve was used for pesticide analysis ranging from approximately 0.008 to 0.3 µg/mL. A single point calibration at approximately 2 µg/mL was used for Technical Chlordane and PCB Aroclors analysis. And a single point calibration at approximately 4 µg/mL was used for Toxaphene analysis

GC/ECD Calibration Issues – alpha-BHC over-responded slightly in the last continuing calibration analyzed with the sequence, resulting in a 33% PD from the initial calibration. Alpha-BHC was undetected in the study samples and the calibration exceedence is not expected to impact data quality as a result.

Estimated Pesticide Data – Most samples contained high levels of Aroclor 1254, resulting in co-elution with some chlorinated pesticides. Co-elution between high-level contaminants (e.g., PCB Aroclor) and relatively lower level contaminants such as chlorinated pesticides can lead to less accurate peak integrations for the affected pesticides. As a result, chlorinated pesticide results for the nestling samples should be considered estimates.

Total Aroclor – was determined as the most predominant Aroclor formulation, or mixture of two major Aroclor formulations. The predominant Aroclor formulation (>75%) was Aroclor 1254, with relatively lower levels of Aroclor 1268.

HOLDING TIMES:

Samples were prepared for analysis in one analytical batch. Samples were extracted within 5 months of collection and analyzed within 22 days of extraction.

Batch	Extraction Date	Analysis Date
01-568	10/23/2001	11/12 – 14/2001

DETECTION LIMITS:

PCB Aroclor and chlorinated pesticide results are reported relative to the sample-specific reporting limits (also referred to as QL in the QAPP) for that compound. The sample-specific RL is based on the low calibration standard and adjusted for sample specific processing factors and volumes, as follow:

RL = (Concentration in Low Std. × final extract volume × dilution factors)/ Sample size

Where,

Concentration in Low Std. = approximately 0.008 µg/mL for pesticides and PCB congeners; 1 µg/mL Technical Chlordane; 0.1 µg/mLfor Aroclor; and 0.2 µg/mL for Toxaphene**

Final Extract Volume = 1,100 µL

Dilution Factor = approximately 1.7

Sample Size = approximately 2-g wet (and 5.06 g for SRM)

** Note that a mid-level, single point calibration was analyzed for Technical Chlordane (2 µg/mL), PCB Aroclor (2 µg/mL) and Toxaphene (4 µg/mL). However, the RL was based on the low range of the calibration curve, which was not analyzed with the samples. A full curve (for Technical Chlordane and Aroclor) had been analyzed within 12-weeks of the samples, thereby demonstrating that the instrument is sensitive at a lower level. Calculation of RLs is consistent with the methods specified in the QAPP (see Worksheet #9a).

Achieved RLs for PCB Aroclor, Toxaphene, and approximately half the target pesticides did not meet the project detection limit goals, in part due to the small sample size available for extraction (2-g vs. 30-g wet target). As noted in the QAPP, the project detection limit goalls are provided for perspective rather than as a requirement for the analytical methods. If detection limits cannot be achieved, this will be addressed in the uncertainty discussions in the risk assessment.

BLANKS:

One laboratory procedural blank (PB) was prepared with the analytical batch. The blank was analyzed to ensure that the sample extraction and analysis methods were free of contamination.

01-568 – PCB Aroclors/chlorinated pesticides were undetected in the laboratory blank.

LABORATORY CONTROL SAMPLE

Two laboratory control samples (LCS) were prepared with the analytical batch. One LCS sample was fortified with PCB congeners and chlorinated pesticides. The other LCS was fortified with PCB Aroclor 1016 and 1260. The percent recoveries of PCB Aroclor and chlorinated pesticides were calculated to measure data quality in terms of accuracy.

01-568 – With the single exception of Endrin aldehyde, PCB Aroclor and chlorinated pesticides were recovered within the control limits specified in QAPP.

Recoveries ranged from:

	Pesticides	PCB Aroclor
ZM06LCS#1	38 – 80%	not spiked
ZM07LCS#2	not spiked	59 – 82%

Correction Action – Endrin aldehyde was recovered at 39%, just below the lower limit of the measurement performance criteria (MPC). Endrin aldehyde was likely lost on the alumina cleanup column. Sample data for Endrin aldehyde should be considered biased low.

MATRIX SPIKES: A matrix spike (MS) sample was prepared with the analytical batch. A matrix spike duplicate (MSD) was not prepared with the batch due to limited sample material available. Chlorinated pesticides and PCB congeners were fortified into the MS, not Aroclor. Aroclor was only fortified into the LCS sample in accordance with the QAPP.

The percent recoveries of pesticides in the MS were calculated to measure data quality in terms of accuracy.

01-568 – With the single exception of 4,4'-DDE, chlorinated pesticides were recovered within the control limits specified in QAPP.

Recoveries ranged from:

	Pesticides
ZM08MS	48 – 362%*

* Recoveries ranged from 48 – 105% excluding 4,4'-DDE.

Correction Action – The concentration of 4,4'-DDE in the MS was not above five times background levels, and as a result should not be used to assess data quality.

SURROGATES: Four PCB surrogate compounds were added to each sample prior to extraction, including PCBs 14, 34, 104, and 112. Recovery data for PCBs 34 and 112 were calculated to measure data quality in terms of accuracy (extraction efficiency). Recovery data for the other two PCB surrogate compounds are not reported, as these are used as alternative surrogates in cases of interferences.

01-568 – All PCB surrogates were recovered within the control limits specified in the QAPP for all study samples. Note that PCB surrogates were not recovered in the procedural blank prepared with the batch.

Correction Action – It appears that the blank was not fortified with surrogate compounds prior to extraction, as both PCB surrogates were recovered at 0% in the blank. The blank did not contain any target pesticides or PCBs, however this is unrelated to the failure to fortify the blank with surrogate compounds. Blank contamination for PCB/pesticide analysis is rare. As a result, Battelle believes that the target pesticide and PCB data for the blank is not impacted by the low PCB surrogate recoveries and the data are considered usable. No further corrective action was taken.

REPLICATES: A laboratory duplicate was prepared with the batch. The RPD between laboratory replicate analyses for PCB Aroclor and chlorinated pesticides was calculated to measure data quality in terms of precision.

01-568 – With the exception of Aroclor 1254, RPDs were within the control limits specified in the QAPP for all target compounds detected at levels above 3× the RL.

RPDs ranged from:

	Pesticides	PCB Aroclor
Duplicate	21.7 – 73.8%	7.9 – 31.5%

Correction Action – The RPD between concentrations of Aroclor 1254 in the laboratory duplicates just exceeded the RPD criteria (31.5% vs. 30% goal). The chromatograms were reviewed and a reason for the elevated RPD was not evident, beyond sample non-homogeneighty.

SRM: A standard reference material (SRM, NIST 1974a) was prepared with each analytical batch. The percent difference (PD) between detected concentrations and certified values (lower and upper range) was calculated to measure data quality in terms of accuracy. *Note* – if the detected value fell within the certified range, then the PD is 0.0%.

01-568 – All 5 certified pesticides had PD values < 30%.

PDs ranged from:

	Certified Pesticides
ZM09SRM	0.0 – 29.2%

REFERENCES:

Battelle 2001. *Centredale Manor Restoration Project Superfund Site Baseline Risk Assessment, Initial Project Planning and Support.* Tasks 19-22 QAPP prepared under contract to USACE NAE. Delivery Order #59. May 23, 2001. 509pp + apps.

Tree Swallow Tissue and QC Results

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IQL
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	4,4'-DDD	50-29-3		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	4,4'-DDE	72-54-8		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	4,4'-DDT	72-55-9		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Aldrin	309-00-2		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	alpha-BHC	319-84-6		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	beta-BHC	319-85-7		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	delta-BHC	319-86-8		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Dieldrin	60-57-1		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Endosulfan I	959-98-8		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Endosulfan II	33213-65-9		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Endrin	72-20-8		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Endrin Ketone	53494-70-5		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	gamma-BHC	58-89-9		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Heptachlor	76-44-8		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Methoxychlor	72-43-5		BATD_SOP_5_128	2.93	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Technical chlordane	57-74-9		BATD_SOP_5_128	365.97	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Toxaphene	8001-35-2		BATD_SOP_5_128	73.19	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Aroclor-1016	12674-11-2		BATD_SOP_5_128	36.60	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Aroclor-1221	11104-28-2		BATD_SOP_5_128	36.60	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Aroclor-1232	11141-16-5		BATD_SOP_5_128	36.60	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Aroclor-1242	53469-21-9		BATD_SOP_5_128	36.60	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Aroclor-1248	12672-29-6		BATD_SOP_5_128	36.60	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Aroclor-1254	11097-69-1		BATD_SOP_5_128	36.60	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Aroclor-1260	11096-82-5		BATD_SOP_5_128	36.60	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Aroclor-1268	11100-14-4		BATD_SOP_5_128	36.60	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	Total Aroclor			BATD_SOP_5_128	292.77	ng/g - wet wt	U	
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	CB(34)	37680-68-5		BATD_SOP_5_128	64	%RECOVERY		
NA	ZL75PB	BATD	P_BLANK	NA	10/16/01	11/02/01		01-360	CB(112)	74472-36-9		BATD_SOP_5_128	72	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	4,4'-DDD	50-29-3		BATD_SOP_5_128	73	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	4,4'-DDE	72-54-8		BATD_SOP_5_128	74	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	4,4'-DDT	72-55-9		BATD_SOP_5_128	77	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Aldrin	309-00-2		BATD_SOP_5_128	66	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	alpha-BHC	319-84-6		BATD_SOP_5_128	63	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	70	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	beta-BHC	319-85-7		BATD_SOP_5_128	66	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	delta-BHC	319-86-8		BATD_SOP_5_128	67	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Dieldrin	60-57-1		BATD_SOP_5_128	72	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Endosulfan I	959-98-8		BATD_SOP_5_128	52	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Endosulfan II	33213-65-9		BATD_SOP_5_128	51	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	72	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Endrin	72-20-8		BATD_SOP_5_128	72	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	39	%RECOVERY	B	
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Endrin Ketone	53494-70-5		BATD_SOP_5_128	73	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	gamma-BHC	58-89-9		BATD_SOP_5_128	65	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	78	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Heptachlor	76-44-8		BATD_SOP_5_128	64	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	57	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Methoxychlor	72-43-5		BATD_SOP_5_128	79	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Technical chlordane	57-74-9		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Toxaphene	8001-35-2		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZL76LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-360	Aroclor-1016	12674-11-2		BATD_SOP_5_128	NA	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	2.93		1.667	NA		5.08	G_WET				T
NA	ZL75PB	365.97		1.667	NA		5.08	G_WET				T
NA	ZL75PB	73.19		1.667	NA		5.08	G_WET				T
NA	ZL75PB	36.60		1.667	NA		5.08	G_WET				T
NA	ZL75PB	36.60		1.667	NA		5.08	G_WET				T
NA	ZL75PB	36.60		1.667	NA		5.08	G_WET				T
NA	ZL75PB	36.60		1.667	NA		5.08	G_WET				T
NA	ZL75PB	36.60		1.667	NA		5.08	G_WET				T
NA	ZL75PB	36.60		1.667	NA		5.08	G_WET				T
NA	ZL75PB	36.60		1.667	NA		5.08	G_WET				T
NA	ZL75PB	292.77		1.667	NA		5.08	G_WET				T
NA	ZL75PB				NA		5.08	G_WET				T
NA	ZL75PB				NA		5.08	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T
NA	ZL76LCS#1			1.667	NA		NA	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	ID
NA	ZL78LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1221	11104-28-2		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL78LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL78LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL78LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL78LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL78LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL78LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL78LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-380	Total Aroclor			BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL78LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-380	Cl3(34)	37680-68-5		BATD_SOP_5_126	61	%RECOVERY		
NA	ZL78LCS#1	BATD	LCS	NA	10/16/01	11/02/01		01-380	Cl5(112)	74472-36-9		BATD_SOP_5_126	72	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_126	82	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_126	71	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_126	59	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Aldrin	309-00-2		BATD_SOP_5_126	49	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_126	41	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_126	48	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_126	47	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_126	46	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_126	52	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_126	4	%RECOVERY	&	
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_126	36	%RECOVERY	&	
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_126	69	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Endrin	72-20-8		BATD_SOP_5_126	52	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_126	26	%RECOVERY	&	
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_126	57	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_126	49	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_126	55	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_126	45	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_126	38	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_126	51	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_126	NA	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_126	NA	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_126	NA	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Aroclor-1221	11104-28-2		BATD_SOP_5_126	NA	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_126	NA	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_126	NA	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_126	NA	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_126	NA	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_126	NA	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_126	NA	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Total Aroclor			BATD_SOP_5_126	NA	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Cl3(34)	37680-68-5		BATD_SOP_5_126	49	%RECOVERY		
L-TS-70-N	ZL78MS	BATD	MS	06/07/01	10/16/01	11/02/01		01-380	Cl5(112)	74472-36-9		BATD_SOP_5_126	34	%RECOVERY	&	
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_126	83	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_126	64	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_126	61	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	Aldrin	309-00-2		BATD_SOP_5_126	48	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_126	40	%RECOVERY	&	
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_126	44	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_126	47	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_126	42	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_126	51	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_126	6	%RECOVERY	&	
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_126	27	%RECOVERY	&	
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_126	69	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-380	Endrin	72-20-8		BATD_SOP_5_126	54	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
NA	ZL78LCS#1			1.667	NA		NA	G_WET				T
NA	ZL78LCS#1			1.667	NA		NA	G_WET				T
NA	ZL78LCS#1			1.667	NA		NA	G_WET				T
NA	ZL78LCS#1			1.667	NA		NA	G_WET				T
NA	ZL78LCS#1			1.667	NA		NA	G_WET				T
NA	ZL78LCS#1			1.667	NA		NA	G_WET				T
NA	ZL78LCS#1			1.667	NA		NA	G_WET				T
NA	ZL78LCS#1			1.667	NA		NA	G_WET				T
NA	ZL78LCS#1				NA		NA	G_WET				T
NA	ZL78LCS#1				NA		NA	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS			1.667	60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS				60.57		1.88	G_WET				T
L-TS-70-N	ZL78MS				60.57		1.88	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	27	%RECOVERY	&	
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Endrin Ketone	53494-70-5		BATD_SOP_5_128	53	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	gamma-BHC	58-89-9		BATD_SOP_5_128	50	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	53	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Heptachlor	76-44-8		BATD_SOP_5_128	44	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	36	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Methoxychlor	72-43-5		BATD_SOP_5_128	47	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Technical chlordane	57-74-9		BATD_SOP_5_128	NA	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Toxaphene	8001-35-2		BATD_SOP_5_128	NA	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Aroclor-1016	12674-11-2		BATD_SOP_5_128	NA	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Aroclor-1221	1104-28-2		BATD_SOP_5_128	NA	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Aroclor-1232	11141-16-5		BATD_SOP_5_128	NA	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Aroclor-1242	53469-21-9		BATD_SOP_5_128	NA	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Aroclor-1248	12672-29-6		BATD_SOP_5_128	NA	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Aroclor-1254	11097-69-1		BATD_SOP_5_128	NA	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Aroclor-1260	11096-82-5		BATD_SOP_5_128	NA	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Aroclor-1268	11100-14-4		BATD_SOP_5_128	NA	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	Total Aroclor			BATD_SOP_5_128	NA	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	CB(34)	37680-68-5		BATD_SOP_5_128	46	%RECOVERY		
L-TS-70-N	ZL79MSD	BATD	MSD	06/07/01	10/16/01	11/02/01		01-360	CB(112)	74472-36-9		BATD_SOP_5_128	29	%RECOVERY	&	
NA	ZL80SRM	BATD	SRM	NA	10/16/01	11/03/01		01-360	4,4'-DDD	50-29-3		BATD_SOP_5_128	7.1	%DIFFERENCE		
NA	ZL80SRM	BATD	SRM	NA	10/16/01	11/03/01		01-360	4,4'-DDE	72-54-8		BATD_SOP_5_128	0.0	%DIFFERENCE		
NA	ZL80SRM	BATD	SRM	NA	10/16/01	11/03/01		01-360	4,4'-DDT	72-55-9		BATD_SOP_5_128	0.0	%DIFFERENCE		
NA	ZL80SRM	BATD	SRM	NA	10/16/01	11/03/01		01-360	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	28.5	%DIFFERENCE		
NA	ZL80SRM	BATD	SRM	NA	10/16/01	11/03/01		01-360	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	15.7	%DIFFERENCE		
NA	ZL80SRM	BATD	SRM	NA	10/16/01	11/03/01		01-360	CB(34)	37680-68-5		BATD_SOP_5_128	64	%RECOVERY		
NA	ZL80SRM	BATD	SRM	NA	10/16/01	11/03/01		01-360	CB(112)	74472-36-9		BATD_SOP_5_128	70	%RECOVERY		
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	4,4'-DDD	50-29-3		BATD_SOP_5_128	4.90	ng/g - wet wt		
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	4,4'-DDE	72-54-8		BATD_SOP_5_128	37.70	ng/g - wet wt		
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	4,4'-DDT	72-55-9		BATD_SOP_5_128	0.64	ng/g - wet wt	J	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Aldrin	309-00-2		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	alpha-BHC	319-84-6		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	2.65	ng/g - wet wt	J	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	beta-BHC	319-85-7		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	delta-BHC	319-86-8		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Dieldrin	60-57-1		BATD_SOP_5_128	11.57	ng/g - wet wt		
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Endosulfan I	959-98-8		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Endosulfan II	33213-65-9		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Endrin	72-20-8		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Endrin Ketone	53494-70-5		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	gamma-BHC	58-89-9		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Heptachlor	76-44-8		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	3.81	ng/g - wet wt	J	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Methoxychlor	72-43-5		BATD_SOP_5_128	4.39	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Technical chlordane	57-74-9		BATD_SOP_5_128	228.07	ng/g - wet wt	J	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Toxaphene	8001-35-2		BATD_SOP_5_128	109.81	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Aroclor-1016	12674-11-2		BATD_SOP_5_128	54.90	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Aroclor-1221	1104-28-2		BATD_SOP_5_128	54.90	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Aroclor-1232	11141-16-5		BATD_SOP_5_128	54.90	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Aroclor-1242	53469-21-9		BATD_SOP_5_128	54.90	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Aroclor-1248	12672-29-6		BATD_SOP_5_128	54.90	ng/g - wet wt	U	
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Aroclor-1254	11097-69-1		BATD_SOP_5_128	508.72	ng/g - wet wt		
L-TS-89-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-360	Aroclor-1260	11096-82-5		BATD_SOP_5_128	54.90	ng/g - wet wt	U	

SAMPLE_NO	LAB_ID	MDL	ORDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD			1.667	60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD				60.57		1.95	G_WET				T
L-TS-70-N	ZL79MSD				60.57		1.95	G_WET				T
NA	ZL80SRM			1.667	88.61		4.27	G_WET				T
NA	ZL80SRM			1.667	88.61		4.27	G_WET				T
NA	ZL80SRM			1.667	88.61		4.27	G_WET				T
NA	ZL80SRM			1.667	88.61		4.27	G_WET				T
NA	ZL80SRM			1.667	88.61		4.27	G_WET				T
NA	ZL80SRM				88.61		4.27	G_WET				T
NA	ZL80SRM				88.61		4.27	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	4.39		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	549.04		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	109.81		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	54.90		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	54.90		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	54.90		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	54.90		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	54.90		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	54.90		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	54.90		1.724	60.91		3.45	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
L-TS-69-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	51.19	ng/g - wet wt	J	
L-TS-69-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-380	Total Aroclor			BATD_SOP_5_128	569.90	ng/g - wet wt		
L-TS-69-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-380	CI3(34)	37680-68-5		BATD_SOP_5_128	44	%RECOVERY		
L-TS-69-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	11/05/01		01-380	CI5(112)	74472-36-9		BATD_SOP_5_128	32	%RECOVERY	&	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	4.84	ng/g - wet wt		
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	67.28	ng/g - wet wt		
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	1.04	ng/g - wet wt	J	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	3.13	ng/g - wet wt	J	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	9.60	ng/g - wet wt		
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	7.97	ng/g - wet wt		
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	4.18	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	314.12	ng/g - wet wt	J	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	104.57	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	52.29	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1221	11104-28-2		BATD_SOP_5_128	52.29	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	52.29	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	52.29	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	52.29	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	798.12	ng/g - wet wt		
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	52.29	ng/g - wet wt	U	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	42.89	ng/g - wet wt	J	
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Total Aroclor			BATD_SOP_5_128	841.00	ng/g - wet wt		
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	CI3(34)	37680-68-5		BATD_SOP_5_128	45	%RECOVERY		
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	CI5(112)	74472-36-9		BATD_SOP_5_128	28	%RECOVERY	&	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	5.94	ng/g - wet wt		
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	49.35	ng/g - wet wt		
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	0.87	ng/g - wet wt	J	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	3.34	ng/g - wet wt	J	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	13.96	ng/g - wet wt		
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	4.54	ng/g - wet wt		

SAMPLE_NO	LAB_ID	MDL	CRQL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
L-TS-89-N	W6502DUP	54.90		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP	439.24		1.724	60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP				60.91		3.45	G_WET				T
L-TS-89-N	W6502DUP				60.91		3.45	G_WET				T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.84	J		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	67.28	J		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	1.04	J		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.18	UJ		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.18	UJ		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	3.13	J		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.18	UJ		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.18	UJ		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	9.6	J		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET		R		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.18	UJ		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.18	UJ		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.18	UJ		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.18	UJ		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.18	UJ		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.18	UJ		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.18	UJ		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	7.97	J		T
L-TS-70-N	W6500	4.18		1.724	60.57		3.63	G_WET	4.18	UJ		T
L-TS-70-N	W6500	522.86		1.724	60.57		3.63	G_WET	314.12	J		T
L-TS-70-N	W6500	104.57		1.724	60.57		3.63	G_WET	104.57	UJ		T
L-TS-70-N	W6500	52.29		1.724	60.57		3.63	G_WET	52.29	UJ		T
L-TS-70-N	W6500	52.29		1.724	60.57		3.63	G_WET	52.29	UJ		T
L-TS-70-N	W6500	52.29		1.724	60.57		3.63	G_WET	52.29	UJ		T
L-TS-70-N	W6500	52.29		1.724	60.57		3.63	G_WET	52.29	UJ		T
L-TS-70-N	W6500	52.29		1.724	60.57		3.63	G_WET	52.29	UJ		T
L-TS-70-N	W6500	52.29		1.724	60.57		3.63	G_WET	796.12	J		T
L-TS-70-N	W6500	52.29		1.724	60.57		3.63	G_WET	52.29	UJ		T
L-TS-70-N	W6500	52.29		1.724	60.57		3.63	G_WET	42.69	J		T
L-TS-70-N	W6500	418.29		1.724	60.57		3.63	G_WET	841.00	J		T
L-TS-70-N	W6500				60.57		3.63	G_WET				T
L-TS-70-N	W6500				60.57		3.63	G_WET				T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	5.94	J		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	49.35	J		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	0.87	J		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	3.34	J		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	13.96	J		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.54	J		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	4.03	ng/g - wet wt	U	
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	296.57	ng/g - wet wt	J	
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	100.85	ng/g - wet wt	U	
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	50.42	ng/g - wet wt	U	
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Aroclor-1221	1104-28-2		BATD_SOP_5_128	50.42	ng/g - wet wt	U	
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	50.42	ng/g - wet wt	U	
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	50.42	ng/g - wet wt	U	
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	50.42	ng/g - wet wt	U	
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	643.90	ng/g - wet wt		
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	50.42	ng/g - wet wt	U	
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	64.12	ng/g - wet wt		
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	Total Aroclor			BATD_SOP_5_128	708.03	ng/g - wet wt		
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	CB(34)	37680-68-5		BATD_SOP_5_128	52	%RECOVERY		
L-TS-89-N	W6502	BATD	NORMAL	06/12/01	10/16/01	11/05/01		01-380	CB(112)	74472-36-9		BATD_SOP_5_128	33	%RECOVERY	&	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	1.75	ng/g - wet wt	J	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	25.81	ng/g - wet wt		
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	2.50	ng/g - wet wt	J	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	4.38	ng/g - wet wt		
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	6.28	ng/g - wet wt		
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	7.78	ng/g - wet wt		
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	2.76	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	337.55	ng/g - wet wt	J	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	69.09	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	34.54	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1221	1104-28-2		BATD_SOP_5_128	34.54	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	34.54	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	34.54	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	34.54	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	258.53	ng/g - wet wt		
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	34.54	ng/g - wet wt	U	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	21.19	ng/g - wet wt	J	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Total Aroclor			BATD_SOP_5_128	279.72	ng/g - wet wt		
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	CB(34)	37680-68-5		BATD_SOP_5_128	33	%RECOVERY	&	
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	CB(112)	74472-36-9		BATD_SOP_5_128	34	%RECOVERY	&	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	4.26	ng/g - wet wt		
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	25.82	ng/g - wet wt		
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	3.06	ng/g - wet wt		
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	4.80	ng/g - wet wt		
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	8.28	ng/g - wet wt		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
L-TS-89-N	W6502	4.03		1.724	60.91		3.76	G_WET	4.03	UJ		T
L-TS-89-N	W6502	504.23		1.724	60.91		3.76	G_WET	286.87	J		T
L-TS-89-N	W6502	100.85		1.724	60.91		3.76	G_WET	100.85	UJ		T
L-TS-89-N	W6502	50.42		1.724	60.91		3.76	G_WET	50.42	UJ		T
L-TS-89-N	W6502	50.42		1.724	60.91		3.76	G_WET	50.42	UJ		T
L-TS-89-N	W6502	50.42		1.724	60.91		3.76	G_WET	50.42	UJ		T
L-TS-89-N	W6502	50.42		1.724	60.91		3.76	G_WET	50.42	UJ		T
L-TS-89-N	W6502	50.42		1.724	60.91		3.76	G_WET	50.42	UJ		T
L-TS-89-N	W6502	50.42		1.724	60.91		3.76	G_WET	643.90	J		T
L-TS-89-N	W6502	50.42		1.724	60.91		3.76	G_WET	50.42	UJ		T
L-TS-89-N	W6502	50.42		1.724	60.91		3.76	G_WET	64.12	J		T
L-TS-89-N	W6502	403.38		1.724	60.91		3.76	G_WET	708.03	J		T
L-TS-89-N	W6502				60.91		3.76	G_WET				T
L-TS-89-N	W6502				60.91		3.76	G_WET				T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	1.75	J		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	25.81	J		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.50	J		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	4.38	J		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	6.28	J		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	7.78	J		T
A-TS-35-N	W6488	2.76		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	2.76	UJ		T
A-TS-35-N	W6488	345.43		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	337.55	J		T
A-TS-35-N	W6488	69.09		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	69.09	UJ		T
A-TS-35-N	W6488	34.54		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	34.54	UJ		T
A-TS-35-N	W6488	34.54		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	34.54	UJ		T
A-TS-35-N	W6488	34.54		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	34.54	UJ		T
A-TS-35-N	W6488	34.54		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	34.54	UJ		T
A-TS-35-N	W6488	34.54		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	34.54	UJ		T
A-TS-35-N	W6488	34.54		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	258.53	J		T
A-TS-35-N	W6488	34.54		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	34.54	UJ		T
A-TS-35-N	W6488	34.54		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	21.19	J		T
A-TS-35-N	W6488	276.34		1.724	59.93	Sample re-extracted with batch 01-672	5.49	G_WET	279.72	J		T
A-TS-35-N	W6488				59.93	Sample re-extracted with batch 01-672	5.49	G_WET				T
A-TS-35-N	W6488				59.93	Sample re-extracted with batch 01-672	5.49	G_WET				T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	4.26	J		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	25.82	J		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	3.06	J		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	4.80	J		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	8.28	J		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	ID
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	13.57	ng/g - wet wt		
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	2.99	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	422.37	ng/g - wet wt		
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	74.75	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	37.37	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Aroclor-1221	1104-28-2		BATD_SOP_5_128	37.37	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	37.37	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	37.37	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	37.37	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	633.59	ng/g - wet wt		
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	37.37	ng/g - wet wt	U	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	36.18	ng/g - wet wt	J	
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Total Aroclor			BATD_SOP_5_128	669.78	ng/g - wet wt		
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Cl3(34)	37680-68-5		BATD_SOP_5_128	48	%RECOVERY		
A-TS-46-N	W6489	BATD	NORMAL	06/09/01	10/16/01	11/03/01		01-380	Cl5(112)	74472-36-9		BATD_SOP_5_128	33	%RECOVERY	&	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	3.58	ng/g - wet wt	J	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	25.20	ng/g - wet wt		
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	2.25	ng/g - wet wt	J	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	11.99	ng/g - wet wt		
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	11.40	ng/g - wet wt		
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	19.76	ng/g - wet wt		
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	6.99	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	626.06	ng/g - wet wt	J	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	174.75	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	87.38	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Aroclor-1221	1104-28-2		BATD_SOP_5_128	87.38	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	87.38	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	87.38	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	87.38	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	443.93	ng/g - wet wt		
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	87.38	ng/g - wet wt	U	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	21.04	ng/g - wet wt	J	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Total Aroclor			BATD_SOP_5_128	464.97	ng/g - wet wt	J	
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	Cl3(34)	37680-68-5		BATD_SOP_5_128	30	%RECOVERY	&	

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	13.57	J		T
A-TS-46-N	W6489	2.99		1.724	59.20		5.07	G_WET	2.99	UJ		T
A-TS-46-N	W6489	373.75		1.724	59.20		5.07	G_WET	422.37	J		T
A-TS-46-N	W6489	74.75		1.724	59.20		5.07	G_WET	74.75	UJ		T
A-TS-46-N	W6489	37.37		1.724	59.20		5.07	G_WET	37.37	UJ		T
A-TS-46-N	W6489	37.37		1.724	59.20		5.07	G_WET	37.37	UJ		T
A-TS-46-N	W6489	37.37		1.724	59.20		5.07	G_WET	37.37	UJ		T
A-TS-46-N	W6489	37.37		1.724	59.20		5.07	G_WET	37.37	UJ		T
A-TS-46-N	W6489	37.37		1.724	59.20		5.07	G_WET	37.37	UJ		T
A-TS-46-N	W6489	37.37		1.724	59.20		5.07	G_WET	633.59	J		T
A-TS-46-N	W6489	37.37		1.724	59.20		5.07	G_WET	37.37	UJ		T
A-TS-46-N	W6489	37.37		1.724	59.20		5.07	G_WET	36.18	J		T
A-TS-46-N	W6489	299.00		1.724	59.20		5.07	G_WET	669.79	J		T
A-TS-46-N	W6489				59.20		5.07	G_WET				T
A-TS-46-N	W6489				59.20		5.07	G_WET				T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	3.56	J		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	25.20	J		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	2.25	J		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	11.99	J		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	11.40	J		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	19.76	J		T
A-TS-48-N	W6490	6.99		4.167	62.64		5.25	G_WET	6.99	UJ		T
A-TS-48-N	W6490	873.75		4.167	62.64		5.25	G_WET	526.05	J		T
A-TS-48-N	W6490	174.75		4.167	62.64		5.25	G_WET	174.75	UJ		T
A-TS-48-N	W6490	87.38		4.167	62.64		5.25	G_WET	87.38	UJ		T
A-TS-48-N	W6490	87.38		4.167	62.64		5.25	G_WET	87.38	UJ		T
A-TS-48-N	W6490	87.38		4.167	62.64		5.25	G_WET	87.38	UJ		T
A-TS-48-N	W6490	87.38		4.167	62.64		5.25	G_WET	87.38	UJ		T
A-TS-48-N	W6490	87.38		4.167	62.64		5.25	G_WET	87.38	UJ		T
A-TS-48-N	W6490	87.38		4.167	62.64		5.25	G_WET	443.93	J		T
A-TS-48-N	W6490	87.38		4.167	62.64		5.25	G_WET	87.38	UJ		T
A-TS-48-N	W6490	87.38		4.167	62.64		5.25	G_WET	21.04	J		T
A-TS-48-N	W6490	699.00		4.167	62.64		5.25	G_WET	464.97	J		T
A-TS-48-N	W6490				62.64		5.25	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
A-TS-49-N	W6490	BATD	NORMAL	06/07/01	10/16/01	11/03/01		01-380	CI5(112)	74472-36-9		BATD_SOP_5_128	48	%RECOVERY		
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	3.83	ng/g - wet wt		
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	25.85	ng/g - wet wt		
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	1.95	ng/g - wet wt	J	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	3.16	ng/g - wet wt	J	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	6.35	ng/g - wet wt		
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	8.82	ng/g - wet wt		
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	3.82	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	425.56	ng/g - wet wt	J	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	95.47	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	47.74	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1221	1104-28-2		BATD_SOP_5_128	47.74	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	47.74	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	47.74	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	47.74	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	409.99	ng/g - wet wt		
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	47.74	ng/g - wet wt	U	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	30.71	ng/g - wet wt	J	
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	Total Aroclor			BATD_SOP_5_128	500.69	ng/g - wet wt		
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	CI3(34)	37680-68-5		BATD_SOP_5_128	45	%RECOVERY		
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	11/03/01		01-380	CI5(112)	74472-36-9		BATD_SOP_5_128	44	%RECOVERY		
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	3.91	ng/g - wet wt		
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	21.50	ng/g - wet wt		
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	3.64	ng/g - wet wt		
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	30.61	ng/g - wet wt		
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	8.61	ng/g - wet wt		
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	1.85	ng/g - wet wt	J	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	17.73	ng/g - wet wt		
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	2.82	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	835.88	ng/g - wet wt		
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	70.62	ng/g - wet wt	U	

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
A-TS-49-N	IW6490				62.54		5.25	G_WET				T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.83			T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	25.85			T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	1.98	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.82	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.82	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.18	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.82	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.82	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	6.35			T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.82	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.82	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.82	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.82	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.82	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.82	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.82	U		T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	8.62			T
A-TS-49-N	IW6491	3.82		3.449	57.09		4.34	G_WET	3.82	U		T
A-TS-49-N	IW6491	477.37		3.449	57.09		4.34	G_WET	425.56	J		T
A-TS-49-N	IW6491	95.47		3.449	57.09		4.34	G_WET	95.47	U		T
A-TS-49-N	IW6491	47.74		3.449	57.09		4.34	G_WET	47.74	U		T
A-TS-49-N	IW6491	47.74		3.449	57.09		4.34	G_WET	47.74	U		T
A-TS-49-N	IW6491	47.74		3.449	57.09		4.34	G_WET	47.74	U		T
A-TS-49-N	IW6491	47.74		3.449	57.09		4.34	G_WET	47.74	U		T
A-TS-49-N	IW6491	47.74		3.449	57.09		4.34	G_WET	469.99			T
A-TS-49-N	IW6491	47.74		3.449	57.09		4.34	G_WET	47.74	U		T
A-TS-49-N	IW6491	47.74		3.449	57.09		4.34	G_WET	30.71	J		T
A-TS-49-N	IW6491	381.90		3.449	57.09		4.34	G_WET	500.69	J		T
A-TS-49-N	IW6491				57.09		4.34	G_WET				T
A-TS-49-N	IW6491				57.09		4.34	G_WET				T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	3.91	J		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	21.50	J		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	3.64	J		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	2.82	UJ		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	2.82	UJ		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	30.61	J		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	2.82	UJ		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	2.82	UJ		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	8.61	J		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	2.82	UJ		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	2.82	UJ		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	2.82	UJ		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	2.82	UJ		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	2.82	UJ		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	2.82	UJ		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	1.65	J		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	2.82	UJ		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	17.73	J		T
A-TS-57-N	IW6492	2.82		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	2.82	UJ		T
A-TS-57-N	IW6492	353.08		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	635.65	J		T
A-TS-57-N	IW6492	70.62		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	70.62	UJ		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	35.31	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1221	11104-28-2		BATD_SOP_5_128	35.31	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	35.31	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	35.31	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	35.31	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	560.77	ng/g - wet wt		
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	35.31	ng/g - wet wt	U	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	27.39	ng/g - wet wt	J	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Total Aroclor			BATD_SOP_5_128	588.15	ng/g - wet wt		
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Cl3(34)	37680-68-5		BATD_SOP_5_128	29	%RECOVERY	&	
A-TS-57-N	W6492	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Cl5(112)	74472-36-9		BATD_SOP_5_128	34	%RECOVERY	&	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	2.60	ng/g - wet wt		
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	10.56	ng/g - wet wt		
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	1.03	ng/g - wet wt	J	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	6.71	ng/g - wet wt		
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	2.82	ng/g - wet wt		
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	0.68	ng/g - wet wt	J	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	5.49	ng/g - wet wt		
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	2.43	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	203.97	ng/g - wet wt	J	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	60.70	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor 1016	12674-11-2		BATD_SOP_5_128	30.35	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1221	11104-28-2		BATD_SOP_5_128	30.35	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	30.35	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	30.35	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	30.35	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	109.39	ng/g - wet wt		
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	30.35	ng/g - wet wt	U	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	24.01	ng/g - wet wt	J	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Total Aroclor			BATD_SOP_5_128	133.40	ng/g - wet wt	J	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Cl3(34)	37680-68-5		BATD_SOP_5_128	37	%RECOVERY	&	
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Cl5(112)	74472-36-9		BATD_SOP_5_128	33	%RECOVERY	&	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	2.05	ng/g - wet wt	J	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	17.63	ng/g - wet wt		
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	2.10	ng/g - wet wt	J	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	6.03	ng/g - wet wt		
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	6.69	ng/g - wet wt		
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	3.70	ng/g - wet wt	U	

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
A-TS-57-N	W6492	35.31		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	35.31	UJ		T
A-TS-57-N	W6492	35.31		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	35.31	UJ		T
A-TS-57-N	W6492	35.31		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	35.31	UJ		T
A-TS-57-N	W6492	35.31		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	35.31	UJ		T
A-TS-57-N	W6492	35.31		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	35.31	UJ		T
A-TS-57-N	W6492	35.31		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	560.77	J		T
A-TS-57-N	W6492	35.31		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	35.31	UJ		T
A-TS-57-N	W6492	35.31		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	27.39	J		T
A-TS-57-N	W6492	282.47		1.724	64.25	Sample re-extracted with batch 01-672	5.37	G_WET	588.15	J		T
A-TS-57-N	W6492				64.25	Sample re-extracted with batch 01-672	5.37	G_WET				T
A-TS-57-N	W6492				64.25	Sample re-extracted with batch 01-672	5.37	G_WET				T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.60	J		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	10.56	J		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	1.03	J		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	8.71	J		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.82	J		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	0.66	J		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	5.49	J		T
G-TS-02-N	W6493	2.43		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	2.43	UJ		T
G-TS-02-N	W6493	303.52		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	203.97	J		T
G-TS-02-N	W6493	60.70		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	60.70	UJ		T
G-TS-02-N	W6493	30.35		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	30.35	UJ		T
G-TS-02-N	W6493	30.35		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	30.35	UJ		T
G-TS-02-N	W6493	30.35		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	30.35	UJ		T
G-TS-02-N	W6493	30.35		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	30.35	UJ		T
G-TS-02-N	W6493	30.35		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	30.35	UJ		T
G-TS-02-N	W6493	30.35		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	109.39	J		T
G-TS-02-N	W6493	30.35		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	30.35	UJ		T
G-TS-02-N	W6493	30.35		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	24.01	J		T
G-TS-02-N	W6493	242.82		1.724	73.59	Sample re-extracted with batch 01-672	6.25	G_WET	133.40	J		T
G-TS-02-N	W6493				73.59	Sample re-extracted with batch 01-672	6.25	G_WET				T
G-TS-02-N	W6493				73.59	Sample re-extracted with batch 01-672	6.25	G_WET				T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	2.05	J		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	47.83			T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	2.10	J		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	6.03			T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	6.89			T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	7.51	ng/g - wet wt		
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	3.70	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	196.49	ng/g - wet wt	J	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	92.51	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	46.25	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Aroclor-1221	11104-28-2		BATD_SOP_5_128	46.25	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	46.25	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	46.25	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	46.25	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	134.45	ng/g - wet wt		
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	46.25	ng/g - wet wt	U	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	28.16	ng/g - wet wt	J	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	Total Aroclor			BATD_SOP_5_128	162.61	ng/g - wet wt	J	
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	CI3(34)	37680-68-5		BATD_SOP_5_128	41	%RECOVERY		
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	11/04/01		01-380	CI5(112)	74472-36-9		BATD_SOP_5_128	43	%RECOVERY		
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	3.10	ng/g - wet wt		
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	16.16	ng/g - wet wt		
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	1.39	ng/g - wet wt	J	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	23.04	ng/g - wet wt		
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	3.87	ng/g - wet wt		
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	1.01	ng/g - wet wt	J	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	15.87	ng/g - wet wt		
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	2.26	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	755.50	ng/g - wet wt		
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	56.56	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	28.28	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1221	11104-28-2		BATD_SOP_5_128	28.28	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	28.28	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	28.28	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	28.28	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	160.46	ng/g - wet wt		
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	28.28	ng/g - wet wt	U	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	41.35	ng/g - wet wt		
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	Total Aroclor			BATD_SOP_5_128	201.80	ng/g - wet wt	J	
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	CI3(34)	37680-68-5		BATD_SOP_5_128	57	%RECOVERY		
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	11/04/01		01-380	CI5(112)	74472-36-9		BATD_SOP_5_128	43	%RECOVERY		
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	3.22	ng/g - wet wt		
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	24.58	ng/g - wet wt		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	UJ		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	7.51			T
G-TS-04-N	W6494	3.70		1.724	62.44		4.10	G_WET	3.70	U		T
G-TS-04-N	W6494	462.54		1.724	62.44		4.10	G_WET	196.49	J		T
G-TS-04-N	W6494	92.51		1.724	62.44		4.10	G_WET	92.51	U		T
G-TS-04-N	W6494	46.25		1.724	62.44		4.10	G_WET	46.25	U		T
G-TS-04-N	W6494	46.25		1.724	62.44		4.10	G_WET	46.25	U		T
G-TS-04-N	W6494	46.25		1.724	62.44		4.10	G_WET	46.25	U		T
G-TS-04-N	W6494	46.25		1.724	62.44		4.10	G_WET	46.25	U		T
G-TS-04-N	W6494	46.25		1.724	62.44		4.10	G_WET	46.25	U		T
G-TS-04-N	W6494	46.25		1.724	62.44		4.10	G_WET	134.45			T
G-TS-04-N	W6494	46.25		1.724	62.44		4.10	G_WET	46.25	U		T
G-TS-04-N	W6494	46.25		1.724	62.44		4.10	G_WET	28.16	J		T
G-TS-04-N	W6494	370.03		1.724	62.44		4.10	G_WET	162.61	J		T
G-TS-04-N	W6494				62.44		4.10	G_WET				T
G-TS-04-N	W6494				62.44		4.10	G_WET				T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	3.10			T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	16.16			T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	1.39	J		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.26	U		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.26	U		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	23.04			T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.26	U		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.26	U		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	3.87			T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.26	U		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.26	U		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.26	U		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.26	U		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.28	UJ		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.26	U		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.26	U		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	1.01	J		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.26	U		T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	15.87			T
G-TS-07-N	W6495	2.26		1.724	71.52		6.71	G_WET	2.26	U		T
G-TS-07-N	W6495	282.79		1.724	71.52		6.71	G_WET	755.50			T
G-TS-07-N	W6495	56.56		1.724	71.52		6.71	G_WET	56.56	U		T
G-TS-07-N	W6495	28.28		1.724	71.52		6.71	G_WET	28.28	U		T
G-TS-07-N	W6495	28.28		1.724	71.52		6.71	G_WET	28.28	U		T
G-TS-07-N	W6495	28.28		1.724	71.52		6.71	G_WET	28.28	U		T
G-TS-07-N	W6495	28.28		1.724	71.52		6.71	G_WET	28.28	U		T
G-TS-07-N	W6495	28.28		1.724	71.52		6.71	G_WET	28.28	U		T
G-TS-07-N	W6495	28.28		1.724	71.52		6.71	G_WET	160.46			T
G-TS-07-N	W6495	28.28		1.724	71.52		6.71	G_WET	28.28	U		T
G-TS-07-N	W6495	28.28		1.724	71.52		6.71	G_WET	41.35			T
G-TS-07-N	W6495	226.23		1.724	71.52		6.71	G_WET	201.80	J		T
G-TS-07-N	W6495				71.52		6.71	G_WET				T
G-TS-07-N	W6495				71.52		6.71	G_WET				T
G-TS-22-N	W6496	2.95		1.724	61.70		5.14	G_WET	3.22	J		T
G-TS-22-N	W6496	2.95		1.724	61.70		5.14	G_WET	24.58	J		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	4.00	ng/g - wet wt		
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	3.55	ng/g - wet wt		
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	7.41	ng/g - wet wt		
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	6.91	ng/g - wet wt		
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	2.95	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	362.12	ng/g - wet wt	J	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	73.73	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	36.87	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1221	1104-28-2		BATD_SOP_5_128	36.87	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	36.87	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	36.87	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	36.87	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	235.85	ng/g - wet wt		
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	36.87	ng/g - wet wt	U	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	46.11	ng/g - wet wt		
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Total Aroclor			BATD_SOP_5_128	283.97	ng/g - wet wt	J	
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	CI3(34)	37680-68-5		BATD_SOP_5_128	54	%RECOVERY		
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	CI5(112)	74472-36-9		BATD_SOP_5_128	34	%RECOVERY	&	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	2.44	ng/g - wet wt	J	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	16.31	ng/g - wet wt		
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	0.58	ng/g - wet wt	J	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	1.99	ng/g - wet wt	J	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	8.85	ng/g - wet wt		
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	3.28	ng/g - wet wt		
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	2.71	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	156.17	ng/g - wet wt	J	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	67.72	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	33.86	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1221	1104-28-2		BATD_SOP_5_128	33.86	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	33.86	ng/g - wet wt	U	

SAMPLE_NO	LAB_ID	MDL	CRDL	CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	4.00	J		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	3.55	J		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	7.41	J		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	8.91	J		T
G-TS-22-N	W6496	2.95			1.724	61.70		5.14	G_WET	2.95	UJ		T
G-TS-22-N	W6496	368.66			1.724	61.70		5.14	G_WET	362.12	J		T
G-TS-22-N	W6496	73.73			1.724	61.70		5.14	G_WET	73.73	UJ		T
G-TS-22-N	W6496	36.87			1.724	61.70		5.14	G_WET	36.87	UJ		T
G-TS-22-N	W6496	36.87			1.724	61.70		5.14	G_WET	36.87	UJ		T
G-TS-22-N	W6496	36.87			1.724	61.70		5.14	G_WET	36.87	UJ		T
G-TS-22-N	W6496	36.87			1.724	61.70		5.14	G_WET	36.87	UJ		T
G-TS-22-N	W6496	36.87			1.724	61.70		5.14	G_WET	36.87	UJ		T
G-TS-22-N	W6496	36.87			1.724	61.70		5.14	G_WET	235.86	J		T
G-TS-22-N	W6496	36.87			1.724	61.70		5.14	G_WET	36.87	UJ		T
G-TS-22-N	W6496	36.87			1.724	61.70		5.14	G_WET	48.11	J		T
G-TS-22-N	W6496	294.93			1.724	61.70		5.14	G_WET	283.97	J		T
G-TS-22-N	W6496					61.70		5.14	G_WET				T
G-TS-22-N	W6496					61.70		5.14	G_WET				T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.44	J		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	18.31	J		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	0.58	J		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.71	UJ		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.71	UJ		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	1.98	J		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.71	UJ		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.71	UJ		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	8.85	J		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.71	UJ		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.71	UJ		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.71	UJ		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.71	UJ		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.71	UJ		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.71	UJ		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.71	UJ		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	3.28	J		T
G-TS-29-N	W6497	2.71			1.724	64.65		5.60	G_WET	2.71	UJ		T
G-TS-29-N	W6497	338.58			1.724	64.65		5.60	G_WET	156.17	J		T
G-TS-29-N	W6497	67.72			1.724	64.65		5.60	G_WET	67.72	UJ		T
G-TS-29-N	W6497	33.86			1.724	64.65		5.60	G_WET	33.86	UJ		T
G-TS-29-N	W6497	33.86			1.724	64.65		5.60	G_WET	33.86	UJ		T
G-TS-29-N	W6497	33.86			1.724	64.65		5.60	G_WET	33.86	UJ		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	33.86	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	33.86	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	165.93	ng/g - wet wt		
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	33.86	ng/g - wet wt	U	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	39.06	ng/g - wet wt		
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Total Aroclor			BATD_SOP_5_128	203.99	ng/g - wet wt	J	
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Cl3(34)	37680-68-5		BATD_SOP_5_128	41	%RECOVERY		
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	11/04/01		01-380	Cl5(112)	74472-36-9		BATD_SOP_5_128	33	%RECOVERY	&	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	3.83	ng/g - wet wt		
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	30.91	ng/g - wet wt		
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	0.45	ng/g - wet wt	J	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	4.26	ng/g - wet wt		
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	6.14	ng/g - wet wt		
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	5.06	ng/g - wet wt		
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	2.87	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	225.62	ng/g - wet wt	J	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	71.75	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	35.88	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1221	11104-28-2		BATD_SOP_5_128	35.88	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	35.88	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	35.88	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	35.88	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	754.29	ng/g - wet wt		
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	35.88	ng/g - wet wt	U	
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	46.64	ng/g - wet wt		
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Total Aroclor			BATD_SOP_5_128	800.93	ng/g - wet wt		
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Cl3(34)	37680-68-5		BATD_SOP_5_128	45	%RECOVERY		
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Cl5(112)	74472-36-9		BATD_SOP_5_128	27	%RECOVERY	&	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	3.61	ng/g - wet wt		
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	24.20	ng/g - wet wt		
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	1.24	ng/g - wet wt	J	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	2.92	ng/g - wet wt	J	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	5.24	ng/g - wet wt		
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	3.19	ng/g - wet wt	U	

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
G-TS-29-N	W6497	33.86		1.724	64.65		5.60	G_WET	33.86	UJ		T
G-TS-29-N	W6497	33.86		1.724	64.65		5.60	G_WET	33.86	UJ		T
G-TS-29-N	W6497	33.86		1.724	64.65		5.60	G_WET	165.93	J		T
G-TS-29-N	W6497	33.86		1.724	64.65		5.60	G_WET	33.86	UJ		T
G-TS-29-N	W6497	33.86		1.724	64.65		5.60	G_WET	38.06	J		T
G-TS-29-N	W6497	270.87		1.724	64.65		5.60	G_WET	203.99	J		T
G-TS-29-N	W6497				64.65		5.60	G_WET				T
G-TS-29-N	W6497				64.65		5.60	G_WET				T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	3.63	J		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	30.91	J		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	0.45	J		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	2.87	UJ		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	2.87	UJ		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	4.26	J		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	2.87	UJ		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	2.87	UJ		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	6.14	J		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	2.87	UJ		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	2.87	UJ		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	2.87	UJ		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	2.87	UJ		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	2.87	UJ		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	2.87	UJ		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	2.87	UJ		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	5.06	J		T
L-TS-62-N	W6495	2.87		1.724	61.60		5.29	G_WET	2.87	UJ		T
L-TS-62-N	W6495	358.76		1.724	61.60		5.29	G_WET	225.62	J		T
L-TS-62-N	W6495	71.75		1.724	61.60		5.29	G_WET	71.75	UJ		T
L-TS-62-N	W6495	35.88		1.724	61.60		5.29	G_WET	35.88	UJ		T
L-TS-62-N	W6495	35.88		1.724	61.60		5.29	G_WET	35.88	UJ		T
L-TS-62-N	W6495	35.88		1.724	61.60		5.29	G_WET	35.88	UJ		T
L-TS-62-N	W6495	35.88		1.724	61.60		5.29	G_WET	35.88	UJ		T
L-TS-62-N	W6495	35.88		1.724	61.60		5.29	G_WET	35.88	UJ		T
L-TS-62-N	W6495	35.88		1.724	61.60		5.29	G_WET	754.29	J		T
L-TS-62-N	W6495	35.88		1.724	61.60		5.29	G_WET	35.88	UJ		T
L-TS-62-N	W6495	35.88		1.724	61.60		5.29	G_WET	46.64	J		T
L-TS-62-N	W6495	287.01		1.724	61.60		5.29	G_WET	800.93	J		T
L-TS-62-N	W6495				61.60		5.29	G_WET				T
L-TS-62-N	W6495				61.60		5.29	G_WET				T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.61	J		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	24.20	J		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	1.24	J		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	2.92	J		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	5.24	J		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	4.65	ng/g - wet wt		
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	3.19	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	189.28	ng/g - wet wt	J	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	79.70	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	39.85	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1221	1104-28-2		BATD_SOP_5_128	39.85	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	39.85	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	39.85	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	39.85	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	521.62	ng/g - wet wt		
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	39.85	ng/g - wet wt	U	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	31.25	ng/g - wet wt	J	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Total Aroclor			BATD_SOP_5_128	552.87	ng/g - wet wt		
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Cl3(34)	37680-68-5		BATD_SOP_5_128	36	%RECOVERY	&	
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	11/04/01		01-380	Cl5(112)	74472-36-9		BATD_SOP_5_128	32	%RECOVERY	&	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	5.80	ng/g - wet wt		
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	24.79	ng/g - wet wt		
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	1.03	ng/g - wet wt	J	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	2.65	ng/g - wet wt	J	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_128	4.14	ng/g - wet wt		
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Endrin	72-20-8		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	4.54	ng/g - wet wt		
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_128	2.80	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_128	226.19	ng/g - wet wt	J	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_128	69.95	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_128	34.98	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Aroclor-1221	1104-28-2		BATD_SOP_5_128	34.98	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_128	34.98	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_128	34.98	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_128	34.98	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_128	480.58	ng/g - wet wt		
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_128	34.98	ng/g - wet wt	U	
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_128	49.32	ng/g - wet wt		
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Total Aroclor			BATD_SOP_5_128	529.90	ng/g - wet wt		
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Cl3(34)	37680-68-5		BATD_SOP_5_128	42	%RECOVERY		
L-TS-84-N	W6501	BATD	NORMAL	06/09/01	10/16/01	11/05/01		01-380	Cl5(112)	74472-36-9		BATD_SOP_5_128	24	%RECOVERY	&	
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	4,4'-DDD	50-29-3		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	4,4'-DDE	72-54-8		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	4,4'-DDT	72-55-9		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aldrin	309-00-2		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	alpha-BHC	319-84-6		BATD_SOP_5_128	NA	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	4.65	J		T
L-TS-63-N	W6499	3.19		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	3.19	UJ		T
L-TS-63-N	W6499	398.49		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	189.28	J		T
L-TS-63-N	W6499	79.70		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	79.70	UJ		T
L-TS-63-N	W6499	39.85		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	39.85	UJ		T
L-TS-63-N	W6499	39.85		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	39.85	UJ		T
L-TS-63-N	W6499	39.85		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	39.85	UJ		T
L-TS-63-N	W6499	39.85		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	39.85	UJ		T
L-TS-63-N	W6499	39.85		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	39.85	UJ		T
L-TS-63-N	W6499	39.85		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	521.62	J		T
L-TS-63-N	W6499	39.85		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	39.85	UJ		T
L-TS-63-N	W6499	39.85		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	31.25	J		T
L-TS-63-N	W6499	318.79		1.724	62.18	Sample re-extracted with batch 01-672	4.76	G_WET	552.87	J		T
L-TS-63-N	W6499				62.18	Sample re-extracted with batch 01-672	4.76	G_WET				T
L-TS-63-N	W6499				62.18	Sample re-extracted with batch 01-672	4.76	G_WET				T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	5.80	J		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	24.79	J		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	1.03	J		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.65	J		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	4.14	J		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	4.54	J		T
L-TS-84-N	W6501	2.80		1.724	63.30		5.42	G_WET	2.80	UJ		T
L-TS-84-N	W6501	349.76		1.724	63.30		5.42	G_WET	226.19	J		T
L-TS-84-N	W6501	69.95		1.724	63.30		5.42	G_WET	69.95	UJ		T
L-TS-84-N	W6501	34.98		1.724	63.30		5.42	G_WET	34.98	UJ		T
L-TS-84-N	W6501	34.98		1.724	63.30		5.42	G_WET	34.98	UJ		T
L-TS-84-N	W6501	34.98		1.724	63.30		5.42	G_WET	34.98	UJ		T
L-TS-84-N	W6501	34.98		1.724	63.30		5.42	G_WET	34.98	UJ		T
L-TS-84-N	W6501	34.98		1.724	63.30		5.42	G_WET	34.98	UJ		T
L-TS-84-N	W6501	34.98		1.724	63.30		5.42	G_WET	460.88	J		T
L-TS-84-N	W6501	34.98		1.724	63.30		5.42	G_WET	34.98	UJ		T
L-TS-84-N	W6501	34.98		1.724	63.30		5.42	G_WET	49.32	J		T
L-TS-84-N	W6501	279.81		1.724	63.30		5.42	G_WET	529.90	J		T
L-TS-84-N	W6501				63.30		5.42	G_WET				T
L-TS-84-N	W6501				63.30		5.42	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	ICL
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	alpha-Chlordane	5103-71-9		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	beta-BHC	319-85-7		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	delta-BHC	319-86-8		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Dieldrin	60-57-1		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Endosulfan I	959-98-8		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Endosulfan II	33213-65-9		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Endrin	72-20-8		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Endrin Aldehyde	7421-93-4		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Endrin Ketone	53494-70-5		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	gamma-BHC	58-89-9		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	gamma-Chlordane	5103-74-2		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Heptachlor	76-44-8		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Methoxychlor	72-43-5		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Technical chlordane	57-74-9		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Toxaphene	8001-35-2		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1016	12674-11-2		BATD_SOP_5_126	80	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1221	1104-28-2		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1232	11141-16-5		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1242	53469-21-9		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1248	12672-29-6		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1254	11097-69-1		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1260	11096-82-5		BATD_SOP_5_126	72	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Aroclor-1268	11100-14-4		BATD_SOP_5_126	NA	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Total Aroclor			BATD_SOP_5_126	66	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Cl3(34)	37680-68-5		BATD_SOP_5_126	62	%RECOVERY		
NA	ZL77LCS#2	BATD	LCS	NA	10/16/01	11/02/01		01-380	Cl5(112)	74472-36-9		BATD_SOP_5_126	65	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2			1.667	NA		NA	G_WET				T
NA	ZL77LCS#2				NA		NA	G_WET				T
NA	ZL77LCS#2				NA		NA	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	8.54	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	1067.35	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	213.47	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	106.73	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Aroclor-1221	11104-28-2		BATD_SOP_5_128	106.73	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	106.73	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	106.73	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	106.73	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	106.73	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	106.73	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	106.73	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Total Aroclor			BATD_SOP_5_128	853.88	ng/g - wet wt	U	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	0	%RECOVERY	&	
NA	ZM05PB	BATD	P_BLANK	NA	10/23/01	11/12/01		01-568	Cl5(112)	74472-36-9		BATD_SOP_5_128	0	%RECOVERY	&	
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	80	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	77	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	80	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	64	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	60	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	72	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	70	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	67	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	76	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	64	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	63	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	75	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	74	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	38	%RECOVERY	&	
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	75	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	63	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	75	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	67	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	55	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	76	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	NA	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	8.54		1.667	NA		1.72	G_WET				T
NA	ZM05PB	1067.35		1.667	NA		1.72	G_WET				T
NA	ZM05PB	213.47		1.667	NA		1.72	G_WET				T
NA	ZM05PB	106.73		1.667	NA		1.72	G_WET				T
NA	ZM05PB	106.73		1.667	NA		1.72	G_WET				T
NA	ZM05PB	106.73		1.667	NA		1.72	G_WET				T
NA	ZM05PB	106.73		1.667	NA		1.72	G_WET				T
NA	ZM05PB	106.73		1.667	NA		1.72	G_WET				T
NA	ZM05PB	106.73		1.667	NA		1.72	G_WET				T
NA	ZM05PB	106.73		1.667	NA		1.72	G_WET				T
NA	ZM05PB	106.73		1.667	NA		1.72	G_WET				T
NA	ZM05PB	853.88		1.667	NA		1.72	G_WET				T
NA	ZM05PB				NA		1.72	G_WET				T
NA	ZM05PB				NA		1.72	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T
NA	ZM06LCS#1			1.667	NA		NA	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1221	11104-28-2		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Total Aroclor			BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	65	%RECOVERY		
NA	ZM06LCS#1	BATD	LCS	NA	10/23/01	11/12/01		01-568	Cl5(112)	74472-36-9		BATD_SOP_5_128	74	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	87	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	362	%RECOVERY	-	
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	83	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	74	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	70	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	78	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	77	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	71	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	86	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	56	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	63	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	105	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	77	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	48	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	76	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	73	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	79	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	78	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	67	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	68	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	NA	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	NA	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	NA	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Aroclor-1221	11104-28-2		BATD_SOP_5_128	NA	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	NA	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	NA	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	NA	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	NA	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	NA	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	NA	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Total Aroclor			BATD_SOP_5_128	NA	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	69	%RECOVERY		
A-TS-33-P	ZM08MS	BATD	MS	06/09/01	10/23/01	11/12/01		01-568	Cl5(112)	74472-36-9		BATD_SOP_5_128	71	%RECOVERY		
NA	ZM09SRM	BATD	SRM	NA	10/23/01	11/13/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	0.0	%DIFFERENCE		
NA	ZM09SRM	BATD	SRM	NA	10/23/01	11/13/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	0.0	%DIFFERENCE		
NA	ZM09SRM	BATD	SRM	NA	10/23/01	11/13/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	29.2	%DIFFERENCE		
NA	ZM09SRM	BATD	SRM	NA	10/23/01	11/13/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	0.0	%DIFFERENCE		
NA	ZM09SRM	BATD	SRM	NA	10/23/01	11/13/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	4.0	%DIFFERENCE		
NA	ZM09SRM	BATD	SRM	NA	10/23/01	11/13/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	66	%RECOVERY		
NA	ZM09SRM	BATD	SRM	NA	10/23/01	11/13/01		01-568	Cl5(112)	74472-36-9		BATD_SOP_5_128	75	%RECOVERY		
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	4.55	ng/g - wet wt	J	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	195.10	ng/g - wet wt		
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	5.16	ng/g - wet wt	J	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	6.23	ng/g - wet wt	J	

SAMPLE_NO	LAB_ID	MDL	CRDL	CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
NA	ZM08LCS#1				1.667	NA		NA	G_WET				T
NA	ZM08LCS#1				1.667	NA		NA	G_WET				T
NA	ZM08LCS#1				1.667	NA		NA	G_WET				T
NA	ZM08LCS#1				1.667	NA		NA	G_WET				T
NA	ZM08LCS#1				1.667	NA		NA	G_WET				T
NA	ZM08LCS#1				1.667	NA		NA	G_WET				T
NA	ZM08LCS#1				1.667	NA		NA	G_WET				T
NA	ZM08LCS#1				1.667	NA		NA	G_WET				T
NA	ZM08LCS#1					NA		NA	G_WET				T
NA	ZM08LCS#1					NA		NA	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS				1.667	NA		0.87	G_WET				T
A-TS-33-P	ZM08MS					NA		0.87	G_WET				T
A-TS-33-P	ZM08MS					NA		0.87	G_WET				T
NA	ZM09SRM				1.667	1.25		5.06	G_WET				T
NA	ZM09SRM				1.667	1.25		5.06	G_WET				T
NA	ZM09SRM				1.667	1.25		5.06	G_WET				T
NA	ZM09SRM				1.667	1.25		5.06	G_WET				T
NA	ZM09SRM				1.667	1.25		5.06	G_WET				T
NA	ZM09SRM					1.25		5.06	G_WET				T
NA	ZM09SRM					1.25		5.06	G_WET				T
L-TS-73-P	W4947DUP	8.87			1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87			1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87			1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87			1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87			1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87			1.724	NA		1.71	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	ID_
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	13.01	ng/g - wet wt		
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	12.28	ng/g - wet wt		
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	8.87	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	312.31	ng/g - wet wt	J	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	221.80	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	110.90	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Aroclor-1221	1104-28-2		BATD_SOP_5_128	110.90	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	110.90	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	110.90	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	110.90	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	1287.06	ng/g - wet wt		
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	110.90	ng/g - wet wt	U	
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	133.97	ng/g - wet wt		
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Total Aroclor			BATD_SOP_5_128	1421.04	ng/g - wet wt		
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	74	%RECOVERY		
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	11/14/01		01-568	Cl5(112)	74472-36-9		BATD_SOP_5_128	77	%RECOVERY		
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	6.08	ng/g - wet wt	J	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	262.14	ng/g - wet wt		
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	2.62	ng/g - wet wt	J	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	4.43	ng/g - wet wt	J	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	14.60	ng/g - wet wt		
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	20.07	ng/g - wet wt		
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	12.04	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	393.21	ng/g - wet wt	J	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	301.02	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	150.51	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Aroclor-1221	1104-28-2		BATD_SOP_5_128	150.51	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	150.51	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	150.51	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	150.51	ng/g - wet wt	U	
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	1308.13	ng/g - wet wt		
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	150.51	ng/g - wet wt	U	

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	8.87		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	1109.01		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	221.80		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	110.90		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	110.90		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	110.90		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	110.90		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	110.90		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	110.90		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	110.90		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	110.90		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP	887.20		1.724	NA		1.71	G_WET				T
L-TS-73-P	W4947DUP				NA		1.71	G_WET				T
L-TS-73-P	W4947DUP				NA		1.71	G_WET				T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	6.08	J		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	262.14	J		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	2.62	J		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	12.04	U		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	12.04	U		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	4.43	J		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	12.04	U		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	12.04	U		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	14.80			T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	12.04	U		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	12.04	U		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	12.04	U		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	12.04	UJ		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	12.04	U		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	12.04	U		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	12.04	U		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	20.07	J		T
A-TS-33-P	W4941	12.04		1.724	NA		1.26	G_WET	12.04	U		T
A-TS-33-P	W4941	1505.08		1.724	NA		1.26	G_WET	393.21	J		T
A-TS-33-P	W4941	301.02		1.724	NA		1.26	G_WET	301.02	U		T
A-TS-33-P	W4941	150.51		1.724	NA		1.26	G_WET	150.51	U		T
A-TS-33-P	W4941	150.51		1.724	NA		1.26	G_WET	150.51	U		T
A-TS-33-P	W4941	150.51		1.724	NA		1.26	G_WET	150.51	U		T
A-TS-33-P	W4941	150.51		1.724	NA		1.26	G_WET	150.51	U		T
A-TS-33-P	W4941	150.51		1.724	NA		1.26	G_WET	150.51	U		T
A-TS-33-P	W4941	150.51		1.724	NA		1.26	G_WET	1308.13			T
A-TS-33-P	W4941	150.51		1.724	NA		1.26	G_WET	150.51	U		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	HDL
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	373.00	ng/g - wet wt		
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Total Aroclor			BATD_SOP_5_128	1681.13	ng/g - wet wt		
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	85	%RECOVERY		
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	11/13/01		01-568	Cl5(112)	74472-36-9		BATD_SOP_5_128	78	%RECOVERY		
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	3.86	ng/g - wet wt	J	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	151.76	ng/g - wet wt		
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	2.61	ng/g - wet wt	J	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	2.87	ng/g - wet wt	J	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	9.55	ng/g - wet wt		
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	8.96	ng/g - wet wt		
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	8.72	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	232.15	ng/g - wet wt	J	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	217.98	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	108.99	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Aroclor-1221	11104-28-2		BATD_SOP_5_128	108.99	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	108.99	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	108.99	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	108.99	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	936.74	ng/g - wet wt		
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	108.99	ng/g - wet wt	U	
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	123.83	ng/g - wet wt		
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Total Aroclor			BATD_SOP_5_128	1060.57	ng/g - wet wt		
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	68	%RECOVERY		
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	11/13/01		01-568	Cl5(112)	74472-36-9		BATD_SOP_5_128	79	%RECOVERY		
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	12.68	ng/g - wet wt		
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	480.85	ng/g - wet wt	D	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	4.49	ng/g - wet wt	J	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	32.92	ng/g - wet wt		
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	24.41	ng/g - wet wt		
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	40.61	ng/g - wet wt		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
A-TS-33-P	W4941	150.51		1.724	NA		1.26	G_WET	373.00			T
A-TS-33-P	W4941	1204.06		1.724	NA		1.26	G_WET	1681.13			T
A-TS-33-P	W4941				NA		1.26	G_WET	65			T
A-TS-33-P	W4941				NA		1.26	G_WET	78			T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	3.66	J		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	151.75			T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	2.61	J		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	U		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	U		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	2.67	J		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	U		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	U		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	9.55	J		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	U		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	U		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	U		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	U		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	UJ		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	U		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	U		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	U		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.96	J		T
L-TS-73-P	W4947	8.72		1.724	NA		1.74	G_WET	8.72	U		T
L-TS-73-P	W4947	1089.89		1.724	NA		1.74	G_WET	232.15	J		T
L-TS-73-P	W4947	217.98		1.724	NA		1.74	G_WET	217.98	U		T
L-TS-73-P	W4947	108.99		1.724	NA		1.74	G_WET	108.99	U		T
L-TS-73-P	W4947	108.99		1.724	NA		1.74	G_WET	108.99	U		T
L-TS-73-P	W4947	108.99		1.724	NA		1.74	G_WET	108.99	U		T
L-TS-73-P	W4947	108.99		1.724	NA		1.74	G_WET	108.99	U		T
L-TS-73-P	W4947	108.99		1.724	NA		1.74	G_WET	936.74	J		T
L-TS-73-P	W4947	108.99		1.724	NA		1.74	G_WET	108.99	U		T
L-TS-73-P	W4947	108.99		1.724	NA		1.74	G_WET	123.63			T
L-TS-73-P	W4947	871.91		1.724	NA		1.74	G_WET	1060.57	J		T
L-TS-73-P	W4947				NA		1.74	G_WET				T
L-TS-73-P	W4947				NA		1.74	G_WET				T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	12.68			T
A-TS-39-P	W4942	43.92		9.482	NA		1.90	G_WET	480.85			T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	4.49	J		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	U		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	U		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	32.92			T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	U		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	U		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	24.41			T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	U		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	U		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	U		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	U		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	UJ		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	U		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	U		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	U		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	7.98	U		T
A-TS-39-P	W4942	7.98		1.724	NA		1.90	G_WET	40.61	J		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	7.98	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	333.22	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	199.62	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	99.81	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Aroclor-1221	1104-28-2		BATD_SOP_5_128	99.81	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	99.81	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	99.81	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	99.81	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	1208.94	ng/g - wet wt		
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	99.81	ng/g - wet wt	U	
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	177.31	ng/g - wet wt		
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Total Aroclor			BATD_SOP_5_128	1386.25	ng/g - wet wt		
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	67	%RECOVERY		
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	11/13/01		01-568	Cl8(112)	74472-36-9		BATD_SOP_5_128	75	%RECOVERY		
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	4.70	ng/g - wet wt	J	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	152.94	ng/g - wet wt		
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	3.35	ng/g - wet wt	J	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	12.20	ng/g - wet wt		
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	14.94	ng/g - wet wt		
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	29.62	ng/g - wet wt		
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	7.86	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	681.41	ng/g - wet wt	J	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	196.52	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	98.26	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Aroclor-1221	1104-28-2		BATD_SOP_5_128	98.26	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	98.26	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	98.26	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	98.26	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	799.88	ng/g - wet wt		
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	98.26	ng/g - wet wt	U	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	92.30	ng/g - wet wt	J	
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Total Aroclor			BATD_SOP_5_128	892.18	ng/g - wet wt		
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	67	%RECOVERY		
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	11/13/01		01-568	Cl8(112)	74472-36-9		BATD_SOP_5_128	71	%RECOVERY		
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	3.60	ng/g - wet wt	J	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	236.99	ng/g - wet wt		
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	5.94	ng/g - wet wt	J	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	1.18	ng/g - wet wt	J	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	19.47	ng/g - wet wt		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
A-TS-39-P	W4942	7.99		1.724	NA		1.90	G_WET	7.99	U		T
A-TS-39-P	W4942	996.11		1.724	NA		1.90	G_WET	333.22	J		T
A-TS-39-P	W4942	199.62		1.724	NA		1.90	G_WET	199.62	U		T
A-TS-39-P	W4942	99.81		1.724	NA		1.90	G_WET	99.81	U		T
A-TS-39-P	W4942	99.81		1.724	NA		1.90	G_WET	99.81	U		T
A-TS-39-P	W4942	99.81		1.724	NA		1.90	G_WET	99.81	U		T
A-TS-39-P	W4942	99.81		1.724	NA		1.90	G_WET	99.81	U		T
A-TS-39-P	W4942	99.81		1.724	NA		1.90	G_WET	99.81	U		T
A-TS-39-P	W4942	99.81		1.724	NA		1.90	G_WET	1206.94			T
A-TS-39-P	W4942	99.81		1.724	NA		1.90	G_WET	99.81	U		T
A-TS-39-P	W4942	99.81		1.724	NA		1.90	G_WET	177.31			T
A-TS-39-P	W4942	798.46		1.724	NA		1.90	G_WET	1366.25			T
A-TS-39-P	W4942				NA		1.90	G_WET	57			T
A-TS-39-P	W4942				NA		1.90	G_WET	75			T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	4.70	J		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	152.94			T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	3.35	J		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	12.20			T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	14.94			T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	UJ		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	29.62	J		T
A-TS-42B-P	W4943	7.86		1.724	NA		1.93	G_WET	7.86	U		T
A-TS-42B-P	W4943	982.59		1.724	NA		1.93	G_WET	661.41	J		T
A-TS-42B-P	W4943	196.52		1.724	NA		1.93	G_WET	196.52	U		T
A-TS-42B-P	W4943	98.26		1.724	NA		1.93	G_WET	98.26	U		T
A-TS-42B-P	W4943	98.26		1.724	NA		1.93	G_WET	98.26	U		T
A-TS-42B-P	W4943	98.26		1.724	NA		1.93	G_WET	98.26	U		T
A-TS-42B-P	W4943	98.26		1.724	NA		1.93	G_WET	98.26	U		T
A-TS-42B-P	W4943	98.26		1.724	NA		1.93	G_WET	98.26	U		T
A-TS-42B-P	W4943	98.26		1.724	NA		1.93	G_WET	799.88			T
A-TS-42B-P	W4943	98.26		1.724	NA		1.93	G_WET	98.26	U		T
A-TS-42B-P	W4943	98.26		1.724	NA		1.93	G_WET	92.30	J		T
A-TS-42B-P	W4943	786.07		1.724	NA		1.93	G_WET	692.18	J		T
A-TS-42B-P	W4943				NA		1.93	G_WET	67			T
A-TS-42B-P	W4943				NA		1.93	G_WET	71			T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	3.60	J		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	236.99			T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	5.94	J		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	1.18	J		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	19.47			T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	7.42	ng/g - wet wt	J	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	8.67	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	187.41	ng/g - wet wt	J	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	216.73	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	108.37	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Aroclor-1221	1104-28-2		BATD_SOP_5_128	108.37	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	108.37	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	108.37	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	108.37	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	394.22	ng/g - wet wt		
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	108.37	ng/g - wet wt	U	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	108.12	ng/g - wet wt	J	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Total Aroclor			BATD_SOP_5_128	502.34	ng/g - wet wt	J	
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	73	%RECOVERY		
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	11/13/01		01-568	Cl5(112)	74472-36-9		BATD_SOP_5_128	63	%RECOVERY		
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	9.56	ng/g - wet wt		
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	653.15	ng/g - wet wt	D	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	22.30	ng/g - wet wt		
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	21.07	ng/g - wet wt		
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	40.76	ng/g - wet wt		
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	8.15	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	918.43	ng/g - wet wt	J	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	203.91	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	101.96	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Aroclor-1221	1104-28-2		BATD_SOP_5_128	101.96	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	101.96	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	101.96	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	101.96	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	1512.26	ng/g - wet wt		
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	101.96	ng/g - wet wt	U	
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	359.93	ng/g - wet wt		
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Total Aroclor			BATD_SOP_5_128	1872.18	ng/g - wet wt		
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	63	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	ORDL_ORG	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	UJ		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	7.42	J		T
G-TS-01-P	W4944	8.67		1.724	NA		1.75	G_WET	8.67	U		T
G-TS-01-P	W4944	1083.66		1.724	NA		1.75	G_WET	187.41	J		T
G-TS-01-P	W4944	216.73		1.724	NA		1.75	G_WET	216.73	U		T
G-TS-01-P	W4944	108.37		1.724	NA		1.75	G_WET	108.37	U		T
G-TS-01-P	W4944	108.37		1.724	NA		1.75	G_WET	108.37	U		T
G-TS-01-P	W4944	108.37		1.724	NA		1.75	G_WET	108.37	U		T
G-TS-01-P	W4944	108.37		1.724	NA		1.75	G_WET	108.37	U		T
G-TS-01-P	W4944	108.37		1.724	NA		1.75	G_WET	108.37	U		T
G-TS-01-P	W4944	108.37		1.724	NA		1.75	G_WET	394.22			T
G-TS-01-P	W4944	108.37		1.724	NA		1.75	G_WET	108.37	U		T
G-TS-01-P	W4944	108.37		1.724	NA		1.75	G_WET	108.12	J		T
G-TS-01-P	W4944	866.93		1.724	NA		1.75	G_WET	502.34	J		T
G-TS-01-P	W4944				NA		1.75	G_WET	73			T
G-TS-01-P	W4944				NA		1.75	G_WET	83			T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	9.56			T
G-TS-06-P	W4945	44.86		9.482	NA		1.66	G_WET	653.15			T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	22.30			T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	21.07			T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	UJ		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	40.76	J		T
G-TS-06-P	W4945	8.16		1.724	NA		1.66	G_WET	8.16	U		T
G-TS-06-P	W4945	1019.57		1.724	NA		1.66	G_WET	918.43	J		T
G-TS-06-P	W4945	203.91		1.724	NA		1.66	G_WET	203.91	U		T
G-TS-06-P	W4945	101.96		1.724	NA		1.66	G_WET	101.96	U		T
G-TS-06-P	W4945	101.96		1.724	NA		1.66	G_WET	101.96	U		T
G-TS-06-P	W4945	101.96		1.724	NA		1.66	G_WET	101.96	U		T
G-TS-06-P	W4945	101.96		1.724	NA		1.66	G_WET	101.96	U		T
G-TS-06-P	W4945	101.96		1.724	NA		1.66	G_WET	101.96	U		T
G-TS-06-P	W4945	101.96		1.724	NA		1.66	G_WET	1512.28			T
G-TS-06-P	W4945	101.96		1.724	NA		1.66	G_WET	101.96	U		T
G-TS-06-P	W4945	101.96		1.724	NA		1.66	G_WET	359.93			T
G-TS-06-P	W4945	815.66		1.724	NA		1.66	G_WET	1872.18			T
G-TS-06-P	W4945				NA		1.66	G_WET	63			T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
G-TS-19-P	W4945	BATD	NORMAL	05/31/01	10/23/01	11/13/01		01-568	CI5(112)	74472-36-9		BATD_SOP_5_128	65	%RECOVERY		
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	7.15	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	623.52	ng/g - wet wt	D	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	6.28	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	21.38	ng/g - wet wt		
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	28.59	ng/g - wet wt		
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	37.84	ng/g - wet wt		
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	9.03	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	747.25	ng/g - wet wt	J	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	225.76	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	112.88	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Aroclor-1221	1104-28-2		BATD_SOP_5_128	112.88	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	112.88	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	112.88	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	112.88	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	1331.64	ng/g - wet wt		
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	112.88	ng/g - wet wt	U	
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	346.44	ng/g - wet wt		
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	Total Aroclor			BATD_SOP_5_128	1678.09	ng/g - wet wt		
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	CI3(34)	37680-68-5		BATD_SOP_5_128	72	%RECOVERY		
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	11/13/01		01-568	CI5(112)	74472-36-9		BATD_SOP_5_128	71	%RECOVERY		
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	6.64	ng/g - wet wt	J	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	294.13	ng/g - wet wt		
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	6.93	ng/g - wet wt	J	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	18.50	ng/g - wet wt		
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	13.45	ng/g - wet wt		
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	30.08	ng/g - wet wt		
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	9.31	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	720.49	ng/g - wet wt	J	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	232.69	ng/g - wet wt	U	

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
G-TS-06-P	W4946				NA		1.66	G_WET	65			T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	7.15	J		T
G-TS-19-P	W4946	49.67		9.482	NA		1.66	G_WET	623.52			T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	6.28	J		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	21.38			T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	28.59			T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	UJ		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	37.64	J		T
G-TS-19-P	W4946	9.03		1.724	NA		1.66	G_WET	9.03	U		T
G-TS-19-P	W4946	1128.81		1.724	NA		1.66	G_WET	747.25	J		T
G-TS-19-P	W4946	225.76		1.724	NA		1.66	G_WET	225.76	U		T
G-TS-19-P	W4946	112.88		1.724	NA		1.66	G_WET	112.88	U		T
G-TS-19-P	W4946	112.88		1.724	NA		1.66	G_WET	112.88	U		T
G-TS-19-P	W4946	112.88		1.724	NA		1.66	G_WET	112.88	U		T
G-TS-19-P	W4946	112.88		1.724	NA		1.66	G_WET	112.88	U		T
G-TS-19-P	W4946	112.88		1.724	NA		1.66	G_WET	112.88	U		T
G-TS-19-P	W4946	112.88		1.724	NA		1.66	G_WET	1331.64			T
G-TS-19-P	W4946	112.88		1.724	NA		1.66	G_WET	112.88	U		T
G-TS-19-P	W4946	112.88		1.724	NA		1.66	G_WET	346.44			T
G-TS-19-P	W4946	903.05		1.724	NA		1.66	G_WET	1676.09			T
G-TS-19-P	W4946				NA		1.66	G_WET	72			T
G-TS-19-P	W4946				NA		1.66	G_WET	71			T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	6.84	J		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	294.13			T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	6.93	J		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	18.50			T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	13.45			T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	UJ		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	30.08	J		T
L-TS-65-P	W4946	9.31		1.724	NA		1.63	G_WET	9.31	U		T
L-TS-65-P	W4946	1163.44		1.724	NA		1.63	G_WET	720.49	J		T
L-TS-65-P	W4946	232.69		1.724	NA		1.63	G_WET	232.69	U		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	116.34	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Aroclor-1221	11104-28-2		BATD_SOP_5_128	116.34	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	116.34	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	116.34	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	116.34	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	1362.90	ng/g - wet wt		
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	116.34	ng/g - wet wt	U	
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	195.91	ng/g - wet wt		
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Total Aroclor			BATD_SOP_5_128	1558.81	ng/g - wet wt		
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	68	%RECOVERY		
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	11/13/01		01-568	Cl5(112)	74472-36-9		BATD_SOP_5_128	70	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	4,4'-DDD	50-29-3		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	4,4'-DDE	72-54-8		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	4,4'-DDT	72-55-9		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aldrin	309-00-2		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	alpha-BHC	319-84-6		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	alpha-Chlordane	5103-71-9		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	beta-BHC	319-85-7		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	delta-BHC	319-86-8		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Dieldrin	60-57-1		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Endosulfan I	959-98-8		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Endosulfan II	33213-65-9		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Endosulfan Sulfate	1031-07-8		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Endrin	72-20-8		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Endrin Aldehyde	7421-93-4		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Endrin Ketone	53494-70-5		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	gamma-BHC	58-89-9		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	gamma-Chlordane	5103-74-2		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Heptachlor	76-44-8		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Heptachlor Epoxide	1024-57-3		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Methoxychlor	72-43-5		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Technical chlordane	57-74-9		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Toxaphene	8001-35-2		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1016	12674-11-2		BATD_SOP_5_128	59	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1221	11104-28-2		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1232	11141-16-5		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1242	53469-21-9		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1248	12672-29-6		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1254	11097-69-1		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1260	11096-82-5		BATD_SOP_5_128	82	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Aroclor-1268	11100-14-4		BATD_SOP_5_128	NA	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Total Aroclor			BATD_SOP_5_128	71	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Cl3(34)	37680-68-5		BATD_SOP_5_128	63	%RECOVERY		
NA	ZM07LCS#2	BATD	LCS	NA	10/23/01	11/12/01		01-568	Cl5(112)	74472-36-9		BATD_SOP_5_128	73	%RECOVERY		

SAMPLE_NO	LAB_ID	MDL	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
L-TS-65-P	W4948	116.34		1.724	NA		1.63	G_WET	116.34	U		T
L-TS-65-P	W4948	116.34		1.724	NA		1.63	G_WET	116.34	U		T
L-TS-65-P	W4948	116.34		1.724	NA		1.63	G_WET	116.34	U		T
L-TS-65-P	W4948	116.34		1.724	NA		1.63	G_WET	116.34	U		T
L-TS-65-P	W4948	116.34		1.724	NA		1.63	G_WET	116.34	U		T
L-TS-65-P	W4948	116.34		1.724	NA		1.63	G_WET	1362.90			T
L-TS-65-P	W4948	116.34		1.724	NA		1.63	G_WET	116.34	U		T
L-TS-65-P	W4948	116.34		1.724	NA		1.63	G_WET	195.91			T
L-TS-65-P	W4948	930.75		1.724	NA		1.63	G_WET	1558.81			T
L-TS-65-P	W4948				NA		1.63	G_WET				T
L-TS-65-P	W4948				NA		1.63	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2			1.667	NA		NA	G_WET				T
NA	ZM07LCS#2				NA		NA	G_WET				T
NA	ZM07LCS#2				NA		NA	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	RL	MDL
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Aroclor-1221	11104-28-2	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_128	75.02	ng/g - wet wt	U		75.02
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	CI8(34)	37680-68-5	PEST/PCB	BATD_SOP_5_128	60.81	%RECOVERY			
NA	ZR02PB	BATD	P_Blank	NA	12/27/02	01/16/02		01-672	CI5(112)	74472-36-9	PEST/PCB	BATD_SOP_5_128	76.51	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	75.75	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_128	73.75	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_128	79.66	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_128	73.33	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_128	66.96	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_128	83.03	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_128	74.38	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_128	75.22	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_128	71.61	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_128	57.34	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_128	55.62	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_128	71.68	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_128	70.95	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_128	44.58	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_128	79.98	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_128	70.14	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_128	80.58	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_128	73.08	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_128	71.15	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_128	75.02	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Aroclor-1221	11104-28-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CROL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB		1.667	NA		8.00	G_WET				T
NA	ZR02PB			NA		8.00	G_WET				T
NA	ZR02PB			NA		8.00	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	CI3(34)	37680-68-5	PEST/PCB	BATD_SOP_5_128	61.91	%RECOVERY			
NA	ZR03LCS1	BATD	LCS	NA	12/27/02	01/16/02		01-672	CI5(112)	74472-36-9	PEST/PCB	BATD_SOP_5_128	72.96	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	67.80	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_128	101.75	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_128	69.83	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_128	78.21	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_128	72.75	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_128	79.55	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_128	73.77	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_128	69.05	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_128	72.19	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_128	59.57	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_128	45.56	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_128	79.64	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_128	69.08	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_128	35.66	%RECOVERY	&		
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_128	67.65	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_128	74.91	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_128	77.35	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_128	72.97	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_128	73.22	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_128	58.27	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Aroclor-1221	1104-28-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	CI3(34)	37680-68-5	PEST/PCB	BATD_SOP_5_128	61.84	%RECOVERY			
LPX-LB-4003-0000-01	ZR05MS1	BATD	MS	6/21/2001	12/27/02	01/16/02		01-672	CI5(112)	74472-36-9	PEST/PCB	BATD_SOP_5_128	59.12	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	69.88	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_128	109.77	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_128	74.58	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_128	81.60	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_128	80.15	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_128	88.19	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_128	75.76	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_128	77.81	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_128	72.68	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_128	66.77	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_128	52.39	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_128	65.47	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_128	71.16	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_128	35.60	%RECOVERY	&		
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_128	69.42	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_128	81.18	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_128	83.66	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_128	80.80	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_128	75.19	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_128	59.57	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/16/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			

SAMPLE_NO	LAB_ID	CROL_CROL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1		1.667	NA		NA	G_WET				T
NA	ZR03LCS1			NA		NA	G_WET				T
NA	ZR03LCS1			NA		NA	G_WET				T
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1		1.667	80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1			80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MS1			80.17	Matrix: Fish	5.08	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR03MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/18/02		01-672	Aroclor-1221	11104-28-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/18/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/18/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/18/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/18/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/18/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/18/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/18/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/18/02		01-672	Cl3(34)	37680-68-5	PEST/PCB	BATD_SOP_5_128	60.88	%RECOVERY			
LPX-LB-4003-0000-01	ZR06MSD1	BATD	MSD	6/21/2001	12/27/02	01/18/02		01-672	Cl5(112)	74472-36-9	PEST/PCB	BATD_SOP_5_128	56.74	%RECOVERY			
NA	ZR04SRM	BATD	SRM	NA	12/27/02	01/18/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	7.44	%DIFFERENCE			
NA	ZR04SRM	BATD	SRM	NA	12/27/02	01/18/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_128	1.34	%DIFFERENCE			
NA	ZR04SRM	BATD	SRM	NA	12/27/02	01/18/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_128	46.58	%DIFFERENCE			
NA	ZR04SRM	BATD	SRM	NA	12/27/02	01/18/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_128	11.06	%DIFFERENCE			
NA	ZR04SRM	BATD	SRM	NA	12/27/02	01/18/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_128	0.00	%DIFFERENCE			
NA	ZR04SRM	BATD	SRM	NA	12/27/02	01/18/02		01-672	Cl3(34)	37680-68-5	PEST/PCB	BATD_SOP_5_128	70.79	%RECOVERY			
NA	ZR04SRM	BATD	SRM	NA	12/27/02	01/18/02		01-672	Cl5(112)	74472-36-9	PEST/PCB	BATD_SOP_5_128	73.91	%RECOVERY			
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	3.13	ng/g - wet wt			1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_128	63.86	ng/g - wet wt			1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_128	3.34	ng/g - wet wt			1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_128	11.57	ng/g - wet wt			1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_128	11.00	ng/g - wet wt			1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_128	9.28	ng/g - wet wt			1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_128	19.66	ng/g - wet wt			1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_128	1.53	ng/g - wet wt	U		1.53
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_128	365.27	ng/g - wet wt			19.15
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_128	19.15	ng/g - wet wt	U		19.15
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_128	19.15	ng/g - wet wt	U		19.15
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Aroclor-1221	11104-28-2	PEST/PCB	BATD_SOP_5_128	19.15	ng/g - wet wt	U		19.15
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_128	19.15	ng/g - wet wt	U		19.15
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_128	19.15	ng/g - wet wt	U		19.15
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_128	19.15	ng/g - wet wt	U		19.15
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_128	420.47	ng/g - wet wt			19.15
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_128	19.15	ng/g - wet wt	U		19.15
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_128	35.29	ng/g - wet wt			19.15
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_128	455.76	ng/g - wet wt			153.17
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Cl3(34)	37680-68-5	PEST/PCB	BATD_SOP_5_128	59.20	%RECOVERY			
A-TS-35-N	W6488-1	BATD	Normal	06/12/01	12/27/02	01/22/02		01-672	Cl5(112)	74472-36-9	PEST/PCB	BATD_SOP_5_128	60.95	%RECOVERY			
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	6.07	ng/g - wet wt			2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_128	51.43	ng/g - wet wt			2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_128	5.59	ng/g - wet wt			2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_128	70.50	ng/g - wet wt			2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_128	16.42	ng/g - wet wt			2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41

SAMPLE_NO	LAB_ID	CRDL_CROL	DIL_FACTOR	POT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
LPX-LB-4003-0000-01	ZR06MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR06MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR06MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR06MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR06MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR06MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR06MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR06MSD1		1.667	80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR06MSD1			80.17	Matrix: Fish	5.02	G_WET				F
LPX-LB-4003-0000-01	ZR06MSD1			80.17	Matrix: Fish	5.02	G_WET				F
NA	ZR04SRM		1.667	89.40		7.94	G_WET				T
NA	ZR04SRM		1.667	89.40		7.94	G_WET				T
NA	ZR04SRM		1.667	89.40		7.94	G_WET				T
NA	ZR04SRM		1.667	89.40		7.94	G_WET				T
NA	ZR04SRM		1.667	89.40		7.94	G_WET				T
NA	ZR04SRM			89.40		7.94	G_WET				T
NA	ZR04SRM			89.40		7.94	G_WET				T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	3.13			T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	63.95			T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	3.34			T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	1.53	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	1.53	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	11.67			T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	1.53	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	1.53	UJ		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	11.00			T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	1.53	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	1.53	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	1.53	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	1.53	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	1.53	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	1.53	UJ		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	9.28			T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	1.53	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	19.66			T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	1.53	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	385.27			T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	19.15	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	19.15	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	19.15	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	19.15	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	19.15	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	19.15	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	420.47			T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	19.15	U		T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	35.29			T
A-TS-35-N	W6488-1		1.667	59.93	Re-extract result	3.92	G_WET	455.76			T
A-TS-35-N	W6488-1			59.93	Re-extract result	3.92	G_WET	59.20			T
A-TS-35-N	W6488-1			59.93	Re-extract result	3.92	G_WET	60.95			T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	6.07			T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	51.43			T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	5.59			T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	2.41	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	2.41	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	70.60			T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	2.41	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	2.41	UJ		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	18.42			T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	2.41	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	2.41	U		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	RDL	MDL
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_128	13.12	mg/g - wet wt			2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_128	2.41	mg/g - wet wt	U		2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_128	2.41	mg/g - wet wt	U		2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_128	2.41	mg/g - wet wt	U		2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_128	2.41	mg/g - wet wt	U		2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_128	18.60	mg/g - wet wt			2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_128	2.41	mg/g - wet wt	U		2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_128	42.16	mg/g - wet wt			2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_128	2.41	mg/g - wet wt	U		2.41
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_128	627.26	mg/g - wet wt			30.13
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_128	30.13	mg/g - wet wt	U		30.13
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_128	30.13	mg/g - wet wt	U		30.13
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1221	11104-28-2	PEST/PCB	BATD_SOP_5_128	30.13	mg/g - wet wt	U		30.13
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_128	30.13	mg/g - wet wt	U		30.13
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_128	30.13	mg/g - wet wt	U		30.13
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_128	30.13	mg/g - wet wt	U		30.13
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_128	984.06	mg/g - wet wt			30.13
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_128	30.13	mg/g - wet wt	U		30.13
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_128	36.45	mg/g - wet wt			30.13
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_128	1021.41	mg/g - wet wt			241.01
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Cl3(34)	37680-65-2	PEST/PCB	BATD_SOP_5_128	58.26	%RECOVERY			
A-TS-57-N	W6492-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Cl5(112)	74472-35-9	PEST/PCB	BATD_SOP_5_128	68.37	%RECOVERY			
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	2.24	mg/g - wet wt			2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_128	19.73	mg/g - wet wt			2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_128	17.40	mg/g - wet wt			2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_128	4.42	mg/g - wet wt			2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_128	2.01	mg/g - wet wt	U		2.01
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_128	194.65	mg/g - wet wt			25.09
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_128	25.09	mg/g - wet wt	U		25.09
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_128	25.09	mg/g - wet wt	U		25.09
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Aroclor-1221	11104-28-2	PEST/PCB	BATD_SOP_5_128	25.09	mg/g - wet wt	U		25.09
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_128	25.09	mg/g - wet wt	U		25.09
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_128	25.09	mg/g - wet wt	U		25.09
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_128	25.09	mg/g - wet wt	U		25.09
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_128	106.26	mg/g - wet wt			25.09
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_128	25.09	mg/g - wet wt	U		25.09
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_128	42.29	mg/g - wet wt			25.09
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_128	150.54	mg/g - wet wt	J		200.71
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Cl3(34)	37680-65-2	PEST/PCB	BATD_SOP_5_128	60.33	%RECOVERY			
G-TS-02-N	W6493-1	BATD	Normal	05/30/01	12/27/02	01/22/02		01-672	Cl5(112)	74472-35-9	PEST/PCB	BATD_SOP_5_128	68.21	%RECOVERY			
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	4.03	mg/g - wet wt			2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_128	44.58	mg/g - wet wt			2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_128	2.41	mg/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_128	2.41	mg/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_128	2.41	mg/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_128	9.82	mg/g - wet wt			2.41

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	13.12			T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	2.41	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	2.41	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	2.41	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	2.41	UJ		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	18.60			T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	2.41	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	42.18			T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	2.41	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	627.25			T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	30.13	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	30.13	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	30.13	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	30.13	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	30.13	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	30.13	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	984.96			T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	30.13	U		T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	36.45			T
A-TS-57-N	W6492-1		1.667	64.25	Re-extract result	2.49	G_WET	1021.41			T
A-TS-57-N	W6492-1			64.25	Re-extract result	2.49	G_WET	58.28			T
A-TS-57-N	W6492-1			64.25	Re-extract result	2.49	G_WET	68.37			T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.24			T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	19.73			T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	17.40			T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	UJ		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	4.42			T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	UJ		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	2.01	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	194.85			T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	25.09	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	25.09	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	25.09	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	25.09	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	25.09	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	25.09	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	108.28			T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	25.09	U		T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	42.29			T
G-TS-02-N	W6493-1		1.667	73.59	Re-extract result	2.99	G_WET	150.54	J		T
G-TS-02-N	W6493-1			73.59	Re-extract result	2.99	G_WET				T
G-TS-02-N	W6493-1			73.59	Re-extract result	2.99	G_WET				T
L-TS-63-N	W6499-1		1.667	62.18	Re-extract result	2.49	G_WET	4.03			T
L-TS-63-N	W6499-1		1.667	62.18	Re-extract result	2.49	G_WET	44.58			T
L-TS-63-N	W6499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	U		T
L-TS-63-N	W6499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	U		T
L-TS-63-N	W6499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	U		T
L-TS-63-N	W6499-1		1.667	62.18	Re-extract result	2.49	G_WET	9.82			T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_128	7.20	ng/g - wet wt			2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_128	10.22	ng/g - wet wt			2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_128	3.29	ng/g - wet wt			2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_128	2.41	ng/g - wet wt	U		2.41
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_128	160.68	ng/g - wet wt			30.19
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_128	30.19	ng/g - wet wt	U		30.19
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_128	30.19	ng/g - wet wt	U		30.19
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1221	1104-28-2	PEST/PCB	BATD_SOP_5_128	30.19	ng/g - wet wt	U		30.19
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_128	30.19	ng/g - wet wt	U		30.19
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_128	30.19	ng/g - wet wt	U		30.19
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_128	30.19	ng/g - wet wt	U		30.19
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_128	870.67	ng/g - wet wt			30.19
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_128	30.19	ng/g - wet wt	U		30.19
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_128	43.60	ng/g - wet wt			30.19
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_128	914.28	ng/g - wet wt			241.50
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	CB(34)	37680-68-5	PEST/PCB	BATD_SOP_5_128	66.53	%RECOVERY			
L-TS-63-N	W6499-1	BATD	Normal	06/08/01	12/27/02	01/22/02		01-672	CB(112)	74472-36-9	PEST/PCB	BATD_SOP_5_128	61.13	%RECOVERY			
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_128	0.75	ng/g - wet wt	U		0.75
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Aroclor-1221	1104-28-2	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_128	9.38	ng/g - wet wt	U		9.38
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_128	75.02	ng/g - wet wt	U		75.02
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	CB(34)	37680-68-5	PEST/PCB	BATD_SOP_5_128	67.41	%RECOVERY			
NA	ZR19PB2	BATD	P_Blank	NA	12/28/02	01/23/02		01-672	CB(112)	74472-36-9	PEST/PCB	BATD_SOP_5_128	67.44	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	UJ		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	7.20			T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	10.22			T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	UJ		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	3.29			T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	2.41	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	160.88			T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	30.19	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	30.19	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	30.19	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	30.19	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	30.19	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	30.19	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	870.67			T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	30.19	U		T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	43.60			T
L-TS-63-N	W5499-1		1.667	62.18	Re-extract result	2.49	G_WET	914.28			T
L-TS-63-N	W5499-1			62.18	Re-extract result	2.49	G_WET	66.53			T
L-TS-63-N	W5499-1			62.18	Re-extract result	2.49	G_WET	61.13			T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR19PB2		1.667	NA		8.00	G_WET				T
NA	ZR14L0S2		1.667	NA		NA	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	RDL	MDL
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_126	91.21	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Aroclor-1221	11104-28-2	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_126	76.84	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_126	89.01	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Cl5(34)	37680-68-5	PEST/PCB	BATD_SOP_5_126	62.56	%RECOVERY			
NA	ZR14LCS2	BATD	LCS	NA	12/27/02	01/21/02		01-672	Cl5(112)	74472-36-9	PEST/PCB	BATD_SOP_5_126	72.56	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_126	74.04	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_126	175.96	%RECOVERY	&		
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_126	73.97	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_126	73.71	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_126	66.82	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_126	85.95	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_126	69.23	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_126	65.83	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_126	71.95	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_126	34.08	%RECOVERY	&		
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_126	32.55	%RECOVERY	&		
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_126	66.03	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_126	70.89	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_126	32.57	%RECOVERY	&		
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_126	61.43	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_126	73.38	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_126	76.72	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_126	63.71	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_126	69.65	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_126	65.10	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Aroclor-1221	11104-28-2	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR08MS2	BATD	MS	6/25/2001	12/27/02	01/18/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2		1.667	NA		NA	G_WET				T
NA	ZR14LCS2			NA		NA	G_WET				T
NA	ZR14LCS2			NA		NA	G_WET				T
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix: Fish	8.69	G_WET				O

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	RL	MDL
GMP-LB-5005-0000-01	ZR09MS2	BATD	MS	6/25/2001	12/27/02	01/19/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MS2	BATD	MS	6/25/2001	12/27/02	01/19/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MS2	BATD	MS	6/25/2001	12/27/02	01/19/02		01-672	CI5(34)	37680-68-5	PEST/PCB	BATD_SOP_5_128	55.28	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MS2	BATD	MS	6/25/2001	12/27/02	01/19/02		01-672	CI5(112)	74472-36-9	PEST/PCB	BATD_SOP_5_128	58.45	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	76.73	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_128	143.28	%RECOVERY	&		
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_128	78.97	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_128	63.70	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_128	61.62	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_128	62.81	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_128	57.24	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_128	61.25	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_128	76.51	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_128	41.98	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_128	41.02	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_128	70.48	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_128	79.58	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_128	45.67	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_128	66.80	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_128	63.18	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_128	56.96	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_128	56.55	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_128	59.57	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_128	61.66	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Aroclor-1221	11104-28-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	CI5(34)	37680-68-5	PEST/PCB	BATD_SOP_5_128	51.31	%RECOVERY			
GMP-LB-5005-0000-01	ZR09MSD2	BATD	MSD	6/25/2001	12/27/02	01/19/02		01-672	CI5(112)	74472-36-9	PEST/PCB	BATD_SOP_5_128	65.22	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_128	58.16	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_128	66.85	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_128	74.47	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_128	62.07	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_128	74.35	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_128	78.39	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_128	67.62	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_128	74.21	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_128	66.81	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_128	62.95	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_128	29.68	%RECOVERY	&		
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_128	45.24	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_128	67.61	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_128	36.20	%RECOVERY	&		
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_128	53.57	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_128	60.93	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_128	54.68	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_128	71.50	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_128	73.79	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_128	60.38	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Aroclor-1221	11104-28-2	PEST/PCB	BATD_SOP_5_128	NA	%RECOVERY			

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2		1.667	74.90	Matrix Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2			74.90	Matrix Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MS2			74.90	Matrix Fish	8.69	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2		1.667	74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2			74.90	Matrix Fish	8.20	G_WET				O
GMP-LB-5005-0000-01	ZR09MSD2			74.90	Matrix Fish	8.20	G_WET				O
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix Earthworm	4.97	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	DL	MDL
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Cl3(34)	37680-68-5	PEST/PCB	BATD_SOP_5_126	66.57	%RECOVERY			
CMS-EW-4003-0000-01	ZR11MS3	BATD	MS	07/19/01	12/27/02	01/19/02		01-672	Cl5(112)	74472-36-9	PEST/PCB	BATD_SOP_5_126	52.34	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_126	58.40	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_126	69.76	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_126	75.27	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_126	74.05	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_126	66.40	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_126	71.23	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_126	60.57	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_126	68.86	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_126	68.06	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_126	58.09	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_126	37.49	%RECOVERY	E		
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_126	52.06	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_126	66.09	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_126	34.37	%RECOVERY	E		
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_126	58.57	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_126	70.18	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_126	75.59	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_126	57.51	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_126	57.98	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_126	60.61	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Aroclor-1221	11104-28-2	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_126	NA	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Cl3(34)	37680-68-5	PEST/PCB	BATD_SOP_5_126	54.65	%RECOVERY			
CMS-EW-4003-0000-01	ZR12MSD3	BATD	MSD	07/19/01	12/27/02	01/21/02		01-672	Cl5(112)	74472-36-9	PEST/PCB	BATD_SOP_5_126	58.64	%RECOVERY			
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	4,4'-DDD	50-29-3	PEST/PCB	BATD_SOP_5_126	1.96	ng/g - wet wt			0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	4,4'-DDE	72-54-8	PEST/PCB	BATD_SOP_5_126	1.97	ng/g - wet wt			0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	4,4'-DDT	72-55-9	PEST/PCB	BATD_SOP_5_126	4.49	ng/g - wet wt			0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Aldrin	309-00-2	PEST/PCB	BATD_SOP_5_126	0.60	ng/g - wet wt	U		0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	alpha-BHC	319-84-6	PEST/PCB	BATD_SOP_5_126	0.60	ng/g - wet wt	U		0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	alpha-Chlordane	5103-71-9	PEST/PCB	BATD_SOP_5_126	5.76	ng/g - wet wt			0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	beta-BHC	319-85-7	PEST/PCB	BATD_SOP_5_126	0.60	ng/g - wet wt	U		0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	delta-BHC	319-86-8	PEST/PCB	BATD_SOP_5_126	0.60	ng/g - wet wt	U		0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Dieldrin	60-57-1	PEST/PCB	BATD_SOP_5_126	2.78	ng/g - wet wt			0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Endosulfan I	959-98-8	PEST/PCB	BATD_SOP_5_126	0.60	ng/g - wet wt	U		0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Endosulfan II	33213-65-9	PEST/PCB	BATD_SOP_5_126	0.60	ng/g - wet wt	U		0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Endosulfan Sulfate	1031-07-8	PEST/PCB	BATD_SOP_5_126	1.79	ng/g - wet wt			0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Endrin	72-20-8	PEST/PCB	BATD_SOP_5_126	0.60	ng/g - wet wt	U		0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Endrin Aldehyde	7421-93-4	PEST/PCB	BATD_SOP_5_126	0.60	ng/g - wet wt	U		0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Endrin Ketone	53494-70-5	PEST/PCB	BATD_SOP_5_126	0.60	ng/g - wet wt	U		0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	gamma-BHC	58-89-9	PEST/PCB	BATD_SOP_5_126	0.60	ng/g - wet wt	U		0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	gamma-Chlordane	5103-74-2	PEST/PCB	BATD_SOP_5_126	4.58	ng/g - wet wt			0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Heptachlor	76-44-8	PEST/PCB	BATD_SOP_5_126	0.60	ng/g - wet wt	U		0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Heptachlor Epoxide	1024-57-3	PEST/PCB	BATD_SOP_5_126	0.60	ng/g - wet wt	U		0.60

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix: Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix: Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix: Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix: Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix: Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix: Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3		1.667	81.09	Matrix: Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3			81.09	Matrix: Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR11MS3			81.09	Matrix: Earthworm	4.97	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3		1.667	81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3			81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4003-0000-01	ZR12MSD3			81.09	Matrix: Earthworm	5.55	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WB546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	RL	MDL
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Methoxychlor	72-43-5	PEST/PCB	BATD_SOP_5_128	0.60	mg/g - wet wt	U		0.60
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Technical chlordane	57-74-9	PEST/PCB	BATD_SOP_5_128	149.65	mg/g - wet wt	DJ		151.09
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Toxaphene	8001-35-2	PEST/PCB	BATD_SOP_5_128	7.55	mg/g - wet wt	U		7.55
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Aroclor-1016	12674-11-2	PEST/PCB	BATD_SOP_5_128	7.55	mg/g - wet wt	U		7.55
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Aroclor-1221	11104-28-2	PEST/PCB	BATD_SOP_5_128	7.55	mg/g - wet wt	U		7.55
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Aroclor-1232	11141-16-5	PEST/PCB	BATD_SOP_5_128	7.55	mg/g - wet wt	U		7.55
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Aroclor-1242	53469-21-9	PEST/PCB	BATD_SOP_5_128	7.55	mg/g - wet wt	U		7.55
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Aroclor-1248	12672-29-6	PEST/PCB	BATD_SOP_5_128	7.55	mg/g - wet wt	U		7.55
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Aroclor-1254	11097-69-1	PEST/PCB	BATD_SOP_5_128	131.93	mg/g - wet wt	DJ		151.09
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Aroclor-1260	11096-82-5	PEST/PCB	BATD_SOP_5_128	7.55	mg/g - wet wt	U		7.55
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Aroclor-1268	11100-14-4	PEST/PCB	BATD_SOP_5_128	31.14	mg/g - wet wt	DJ		151.09
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Total Aroclor	NA	PEST/PCB	BATD_SOP_5_128	163.08	mg/g - wet wt			60.44
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Cl3(34)	37680-65-2	PEST/PCB	BATD_SOP_5_128	48.64	%RECOVERY			
CMS-EW-4005-0000-01	W6546DUP	BATD	Duplicate	07/20/01	12/27/02	01/23/02		01-672	Cl5(112)	74472-36-9	PEST/PCB	BATD_SOP_5_128	39.37	%RECOVERY	J		

SAMPLE_NO	LAB_ID	CRDL_CROL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
CMS-EW-4005-0000-01	WR546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP		33.340	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP		33.340	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP		33.340	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP		1.667	80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP			80.36	Matrix: Earthworm	9.93	G_WET				T
CMS-EW-4005-0000-01	WR546DUP			80.36	Matrix: Earthworm	9.93	G_WET				T

Section 4
Metal and Methyl Mercury Results

QA/QC Narrative
Tree Swallow Tissue and QC Results

QA/QC Narrative

METALS QA/QC SUMMARY
QC Batch 3 – Tree Swallow Nestling Liver

PROGRAM: Centredale Manor, Tissues

PARAMETER: Metals and Methyl Mercury

LABORATORY: Battelle/Marine Sciences Laboratory, Sequim, Washington

MATRIX: Tree Swallow Nestling Livers

SAMPLE CUSTODY: Nestlings were collected by USGS between May 30 and June 12, 2001. Samples (15) were received at Battelle MSL on July 11, 2001 and were logged into Battelle's sample tracking system. Samples were held frozen until processing and analysis.

QA/QC DATA QUALITY OBJECTIVES

	Reference Method	Range of Recovery	SRM Accuracy	Relative Precision	Quantitation Limit (µg/g dry)
Beryllium	ICP/MS	70-130%	±25%	±30%	0.016
Aluminum	ICP/AES	70-130%	±25%	±30%	4.0
Vanadium	ICP/AES	70-130%	±25%	±30%	0.64
Chromium	ICP/AES	70-130%	±25%	±30%	0.96
Manganese	ICP/AES	70-130%	±25%	±30%	0.064
Iron	ICP/AES	70-130%	±25%	±30%	1.12
Cobalt	ICP/MS	70-130%	±25%	±30%	1.34
Nickel	ICP/MS	70-130%	±25%	±30%	1.14
Copper	ICP/MS	70-130%	±25%	±30%	0.26
Zinc	ICP/AES	70-130%	±25%	±30%	0.384
Arsenic	ICP/MS	70-130%	±25%	±30%	0.12
Selenium	FIAS	70-130%	±25%	±30%	1.6
Molybdenum	ICP/MS	70-130%	±25%	±30%	1.152
Silver	ICP/AES	70-130%	±25%	±30%	0.22
Cadmium	ICP/MS	70-130%	±25%	±30%	0.712
Antimony	ICP/MS	70-130%	±25%	±30%	0.12
Barium	ICP/MS	70-130%	±25%	±30%	0.04
Thallium	ICP/MS	70-130%	±25%	±30%	0.08
Lead	ICP/MS	70-130%	±25%	±30%	0.08
Mercury	CVAA	70-130%	±25%	±30%	0.008
MeHg	CVAF	70-130%	±25%	±30%	0.01

METHOD Twenty metals were analyzed: aluminum (Al), vanadium (V), chromium (Cr), manganese (Mn), iron (Fe), zinc (Zn), and silver (Ag) by inductively coupled plasma atomic emission spectroscopy (ICP/AES) according to Method L-44; Selenium (Se) by FIAS by SOP MSL-I-001; beryllium (Be), cobalt (Co), nickel (Ni), copper (Cu), arsenic (As), molybdenum (Mo), cadmium (Cd), antimony (Sb), barium (Ba), thallium (Tl), and lead (Pb) by inductively

METHOD (continued)

coupled plasma mass spectrometry (ICP/MS) following method L-42; mercury (Hg) using cold-vapor atomic absorption (CVAF) according Method L-41. Methyl mercury (MeHg) was also analyzed according to Method L-40.

To prepare tissue samples for analysis, each was frozen then freeze-dried and homogenized using a Spex mixer-mill.

Approximately 0.3 gram aliquots of dried homogenous sample were digested for metals using SOP MSL-I-024, where concentrated nitric and hydroflouric acids were used. Samples for MeHg were digested following method L-40.

All data were initially reported on a dry weight basis and converted to wet weight in spreadsheet. Dry weight results are included in the project file. Results for all study samples and laboratory duplicates are reported in the electronic data deliverable (EDD) on a µg/g wet weight basis. Results for other laboratory QC (e.g., MS, SRM) are reported in the project file on a dry weight basis, and provided in the EDD on a percent recovery or percent difference basis. Blank data are also reported on a dry weight basis, as reporting these data on a wet weight basis is not appropriate given that there is no applicable percent dry weight for the blank. A percent dry weight is necessary to convert data from a dry to wet weight basis.

HOLDING TIMES

Samples were held frozen until freeze-dried, followed by digestion and analysis. All samples were digested and analyzed within the six month holding time for metals and the 28-day holding time for Hg (defined as beginning from the time that tissue samples were removed from the freezer for processing and ending once tissue homogenates were placed in the freeze-dryer). The following list summarizes all drying, digestion and analysis dates:

Task	Date Digested	Date Analyzed
HF:HNO3	8/27/01	
Hg		8/30/01
ICP-MS		8/31/01
ICP/AES		11/10/01
FIAS-Se		11/7/01
MeHg	8/30/01	9/4-5/01

METALS QA/QC SUMMARY
QC Batch 3 – Tree Swallow Nestling Liver

DETECTION LIMITS

The target quantitation limit was met for all metals. The MDL was determined by multiplying the standard deviation of the results of a minimum of 7 replicate low level spikes by the Student's t value at the 99th percentile. The QL was determined by multiplying the MDL by 4. The MDL has been provided on a wet weight basis.

METHOD BLANKS

One blank was analyzed. Results were less than the QL for all metals, except As, Ba, and Pb. Sample results for these metals were not greater than ten times blank values and data have been B flagged on the final report tables.

Results are reported on a dry weight basis.

BLANK SPIKES

One reagent water sample was spiked with all metals, except MeHg. All recoveries met the required QC criteria, except Fe.

Results are provided in µg/g dry weight in the studyfile and on a percent recovery basis in the EDD.

MATRIX SPIKES

One sample was spiked with all metals; a matrix spike and matrix spike duplicate was also prepared for MeHg. A matrix spike duplicate was not prepared for all metals due to limited sample volumes.

All recoveries met the required QC criteria, except Zn and Hg. For Zn, the spiking level was inappropriate to the native concentration. Hg was lost during digestion when a small crack developed in the Teflon bomb and Hg escaped. Other metals were not affected. Due to the small amount of sample available, there was not sufficient sample to redigest and reanalyze. Note that Hg results from other QC samples (blank spike and SRM) were acceptable, suggesting the procedure was in control.

Results are provided in µg/g dry weight in the studyfile and on a percent recovery basis in the EDD.

REPLICATES

One sample was analyzed in duplicate. RPD values for all metals were within the QC limits of ±30%, except Al, Cr, Ni, As and Sb. All results were less than the reporting limit and some less than the detection limit for these metals. Due to the limited amount and texture of the samples, this could be an indication of poor homogeneity.

Results are provided in µg/g dry weight in the studyfile and on a wet weight basis in the EDD.

METALS QA/QC SUMMARY
QC Batch 3 – Tree Swallow Nestling Liver

SRM

One matrix-appropriate standard reference material (SRM) was analyzed; DOLT-2, Dogfish liver, obtained from the National Research Council of Canada (NRCC). DORM-2 was analyzed for MeHg.

SRM DOLT-2 has 14 certified metals. Recoveries for all metals except Cr were within the required criteria. The certified value for Cr is less than the reporting limit. Other QC for this metal are within the required criteria. No corrective action was taken. MeHg recovery was within the accepted criteria for DORM-2.

Results are provided in µg/g dry weight in the studyfile and on a percent difference basis in the EDD.

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	08/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.005	UG/G WET	U		0.005
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.974	UG/G WET	J		1.13
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.0183	UG/G WET	J		0.160
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.0904	UG/G WET	J		0.271
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.43	UG/G WET			0.016
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	285	UG/G WET			0.320
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	08/31/01		3	COBALT	7440-48-4	M	L-42	0.0112	UG/G WET	J		0.379
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	08/31/01		3	NICKEL	7440-02-0	M	L-42	0.0135	UG/G WET	J		0.323
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	08/31/01		3	COPPER	7440-50-8	M	L-42	4.45	UG/G WET			0.073
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	19.5	UG/G WET			0.108
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	08/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0207	UG/G WET	JB		0.034
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-1-30	0.403	UG/G WET			0.451
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	08/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.478	UG/G WET			0.325
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.00824	UG/G WET	J		0.061
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.0123	UG/G WET	J		0.201
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.00704	UG/G WET	J		0.034
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.0368	UG/G WET	B		0.011
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	08/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00756	UG/G WET	J		0.023
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	08/31/01		3	LEAD	7439-92-1	M	L-42	0.0619	UG/G WET			0.023
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	06/27/01	08/30/01		3	MERCURY	7439-97-6	M	L-41	0.0401	UG/G WET			0.0023
A-TS-35-L	1678*139	MSL	NORMAL	06/12/01	08/30/01	09/04/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0329	UG/G WET			0.0037
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.005	UG/G WET	U		0.005
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.884	UG/G WET	J		1.13
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.160	UG/G WET	U		0.160
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.0314	UG/G WET	J		0.271
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.36	UG/G WET			0.016
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	239	UG/G WET			0.320
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	COBALT	7440-48-4	M	L-42	0.0108	UG/G WET	J		0.379
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	NICKEL	7440-02-0	M	L-42	0.0201	UG/G WET	J		0.323
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	COPPER	7440-50-8	M	L-42	3.68	UG/G WET			0.073
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	19.6	UG/G WET			0.108
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0774	UG/G WET	B		0.034
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-1-30	0.535	UG/G WET			0.451
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.599	UG/G WET			0.325
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.0185	UG/G WET	J		0.061
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.0166	UG/G WET	J		0.201
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.0112	UG/G WET	J		0.034
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.0321	UG/G WET	B		0.011
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	THALLIUM	7440-28-0	M	L-42	0.0110	UG/G WET	J		0.023
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	LEAD	7439-92-1	M	L-42	0.166	UG/G WET			0.023
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/27/01	08/30/01		3	MERCURY	7439-97-6	M	L-41	0.0501	UG/G WET			0.0023
A-TS-46-L	1678*140	MSL	NORMAL	06/09/01	06/30/01	09/04/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0075	UG/G WET			0.0037
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.005	UG/G WET	U		0.005
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.285	UG/G WET	J		1.13
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.0260	UG/G WET	J		0.160
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.0750	UG/G WET	J		0.271
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.68	UG/G WET			0.016
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	268	UG/G WET			0.320
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	COBALT	7440-48-4	M	L-42	0.00820	UG/G WET	J		0.379
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	NICKEL	7440-02-0	M	L-42	0.0127	UG/G WET	J		0.323
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	COPPER	7440-50-8	M	L-42	3.83	UG/G WET			0.073
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	20.1	UG/G WET			0.108
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0540	UG/G WET	B		0.034
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-1-30	0.555	UG/G WET			0.451
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.509	UG/G WET			0.325
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.00935	UG/G WET	J		0.061
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.0160	UG/G WET	J		0.201
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.00463	UG/G WET	J		0.034
A-TS-48-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.0106	UG/G WET	JB		0.011

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.005	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; AES	0.296	G_DRY	1.13	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; AES	0.296	G_DRY	0.18	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; AES	0.296	G_DRY	0.271	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; AES	0.296	G_DRY	1.43			T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; AES	0.296	G_DRY	285	J		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.379	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.323	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	4.45			T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; AES	0.296	G_DRY	19.8	J		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; ICP/MS	0.296	G_DRY	0.034	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; FIAS	0.296	G_DRY	0.493	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.478			T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; AES	0.296	G_DRY	0.081	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.201	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.034	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; ICP/MS	0.296	G_DRY	0.0358	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.023	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.0519	U		T
A-TS-35-L	1678*139		0.660	74.3	Tree Swallow Nestling Liver; CVAA	0.296	G_DRY	0.0401			T
A-TS-35-L	1678*139		1.00	74.3	Tree Swallow Nestling Liver; CVAF	0.077	G_DRY	0.0329			T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; ICP-MS	0.197	G_DRY	0.005	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; AES	0.197	G_DRY	0.584	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; AES	0.197	G_DRY	0.18	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; AES	0.197	G_DRY	0.271	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; AES	0.197	G_DRY	1.35			T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; AES	0.197	G_DRY	233	J		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; ICP-MS	0.197	G_DRY	0.379	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; ICP-MS	0.197	G_DRY	0.323	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; ICP-MS	0.197	G_DRY	3.85			T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; AES	0.197	G_DRY	19.6	J		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; ICP/MS	0.197	G_DRY	0.0774	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; FIAS	0.197	G_DRY	0.535	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; ICP-MS	0.197	G_DRY	0.589			T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; AES	0.197	G_DRY	0.081	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; ICP-MS	0.197	G_DRY	0.201	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; ICP-MS	0.197	G_DRY	0.034	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; ICP/MS	0.197	G_DRY	0.0221	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; ICP-MS	0.197	G_DRY	0.023	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; ICP-MS	0.197	G_DRY	0.196	U		T
A-TS-49-L	1678*140		1.02	70.5	Tree Swallow Nestling Liver; CVAA	0.197	G_DRY	0.0501			T
A-TS-49-L	1678*140		1.00	70.5	Tree Swallow Nestling Liver; CVAF	0.079	G_DRY	0.0375			T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; ICP-MS	0.247	G_DRY	0.005	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; AES	0.247	G_DRY	1.13	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; AES	0.247	G_DRY	0.18	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; AES	0.247	G_DRY	0.271	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; AES	0.247	G_DRY	1.88			T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; AES	0.247	G_DRY	288	J		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; ICP-MS	0.247	G_DRY	0.379	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; ICP-MS	0.247	G_DRY	0.323	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; ICP-MS	0.247	G_DRY	3.83			T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; AES	0.247	G_DRY	20.1	J		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; ICP/MS	0.247	G_DRY	0.054	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; FIAS	0.247	G_DRY	0.555	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; ICP-MS	0.247	G_DRY	0.609			T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; AES	0.247	G_DRY	0.081	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; ICP-MS	0.247	G_DRY	0.201	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; ICP-MS	0.247	G_DRY	0.034	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; ICP/MS	0.247	G_DRY	0.011	U		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
A-TS-49-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	06/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00696	UG/G WET	J		0.003
A-TS-49-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	06/31/01		3	LEAD	7439-92-1	M	L-42	0.0106	UG/G WET	J		0.003
A-TS-49-L	1678*141	MSL	NORMAL	06/07/01	06/27/01	06/30/01		3	MERCURY	7439-97-6	M	L-41	0.0421	UG/G WET			0.0023
A-TS-49-L	1678*141	MSL	NORMAL	06/07/01	06/30/01	06/04/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0342	UG/G WET			0.0037
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	06/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.00105	UG/G WET	J		0.005
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.397	UG/G WET	J		1.13
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.000476	UG/G WET	J		0.160
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.0736	UG/G WET	J		0.271
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.52	UG/G WET			0.016
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	445	UG/G WET			0.320
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	06/31/01		3	COBALT	7440-48-4	M	L-42	0.00912	UG/G WET	J		0.379
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	06/31/01		3	NICKEL	7440-02-0	M	L-42	0.0141	UG/G WET	J		0.323
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	06/31/01		3	COPPER	7440-50-8	M	L-42	3.52	UG/G WET			0.073
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	15.2	UG/G WET			0.109
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	06/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0214	UG/G WET	JB		0.034
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-I-30	0.553	UG/G WET			0.451
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	06/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.935	UG/G WET			0.325
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.061	UG/G WET	U		0.061
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	06/31/01		3	CADMIUM	7440-43-9	M	L-42	0.0262	UG/G WET	J		0.201
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	06/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.000810	UG/G WET	J		0.034
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	06/31/01		3	BARIUM	7440-39-3	M	L-42	0.0352	UG/G WET	B		0.011
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	06/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00735	UG/G WET	J		0.003
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	06/31/01		3	LEAD	7439-92-1	M	L-42	0.0093	UG/G WET			0.003
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/27/01	06/30/01		3	MERCURY	7439-97-6	M	L-41	0.0450	UG/G WET			0.0023
A-TS-49-L	1678*142	MSL	NORMAL	06/12/01	06/30/01	06/04/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0393	UG/G WET			0.0037
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	06/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.005	UG/G WET	U		0.005
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	1.06	UG/G WET	J		1.13
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.0848	UG/G WET	J		0.160
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.228	UG/G WET	J		0.271
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.64	UG/G WET			0.016
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	188	UG/G WET			0.320
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	06/31/01		3	COBALT	7440-48-4	M	L-42	0.0142	UG/G WET	J		0.379
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	06/31/01		3	NICKEL	7440-02-0	M	L-42	0.0666	UG/G WET	J		0.323
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	06/31/01		3	COPPER	7440-50-8	M	L-42	5.83	UG/G WET			0.073
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	26.2	UG/G WET			0.109
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	06/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0673	UG/G WET	B		0.034
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-I-30	0.774	UG/G WET			0.451
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	06/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.759	UG/G WET			0.325
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.0172	UG/G WET	J		0.061
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	06/31/01		3	CADMIUM	7440-43-9	M	L-42	0.0529	UG/G WET	J		0.201
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	06/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.00157	UG/G WET	J		0.034
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	06/31/01		3	BARIUM	7440-39-3	M	L-42	0.0740	UG/G WET	B		0.011
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	06/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00915	UG/G WET	J		0.003
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	06/31/01		3	LEAD	7439-92-1	M	L-42	0.0095	UG/G WET			0.003
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/27/01	06/30/01		3	MERCURY	7439-97-6	M	L-41	0.0527	UG/G WET			0.0023
A-TS-67-L	1678*143	MSL	NORMAL	06/08/01	06/30/01	06/04/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0447	UG/G WET			0.0037
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	06/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.000619	UG/G WET	J		0.005
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.661	UG/G WET	J		1.13
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.160	UG/G WET	U		0.160
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.118	UG/G WET	J		0.271
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.08	UG/G WET			0.016
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	188	UG/G WET			0.320
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	06/31/01		3	COBALT	7440-48-4	M	L-42	0.00810	UG/G WET	J		0.379
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	06/31/01		3	NICKEL	7440-02-0	M	L-42	0.0134	UG/G WET	J		0.323
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	06/31/01		3	COPPER	7440-50-8	M	L-42	4.09	UG/G WET			0.073
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	22.9	UG/G WET			0.109
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	06/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0293	UG/G WET	JB		0.034
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-I-30	0.493	UG/G WET			0.451
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	06/27/01	06/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.540	UG/G WET			0.325

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; ICP-MS	0.247	G_DRY	0.023	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; ICP-MS	0.247	G_DRY	0.023	U		T
A-TS-49-L	1678*141		0.610	69.5	Tree Swallow Nestling Liver; CVAA	0.247	G_DRY	0.0421			T
A-TS-49-L	1678*141		1.00	69.5	Tree Swallow Nestling Liver; CVAF	0.084	G_DRY	0.0842			T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; ICP-MS	0.295	G_DRY	0.005	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; AES	0.295	G_DRY	1.13	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; AES	0.295	G_DRY	0.18	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; AES	0.295	G_DRY	0.271	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; AES	0.295	G_DRY	1.52			T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; AES	0.295	G_DRY	445	J		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; ICP-MS	0.295	G_DRY	0.379	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; ICP-MS	0.295	G_DRY	0.323	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; ICP-MS	0.295	G_DRY	3.52			T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; AES	0.295	G_DRY	16.2	J		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; ICP/MS	0.295	G_DRY	0.034	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; FIAS	0.295	G_DRY	0.553	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; ICP-MS	0.295	G_DRY	0.636			T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; AES	0.295	G_DRY	0.081	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; ICP-MS	0.295	G_DRY	0.201	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; ICP-MS	0.295	G_DRY	0.034	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; ICP/MS	0.295	G_DRY	0.0352	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; ICP-MS	0.295	G_DRY	0.023	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; ICP-MS	0.295	G_DRY	0.0283	U		T
A-TS-49-L	1678*142		0.671	61.7	Tree Swallow Nestling Liver; CVAA	0.295	G_DRY	0.0450			T
A-TS-49-L	1678*142		1.00	61.7	Tree Swallow Nestling Liver; CVAF	0.075	G_DRY	0.0383			T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; ICP-MS	0.088	G_DRY	0.005	U		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; AES	0.088	G_DRY	1.13	U		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; AES	0.088	G_DRY	0.18	U		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; AES	0.088	G_DRY	0.228	J		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; AES	0.088	G_DRY	1.84			T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; AES	0.088	G_DRY	189	J		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; ICP-MS	0.088	G_DRY	0.379	U		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; ICP-MS	0.088	G_DRY	0.323	U		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; ICP-MS	0.088	G_DRY	5.83			T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; AES	0.088	G_DRY	26.2	J		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; ICP/MS	0.088	G_DRY	0.0573	U		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; FIAS	0.088	G_DRY	0.774	J		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; ICP-MS	0.088	G_DRY	0.758			T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; AES	0.088	G_DRY	0.081	U		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; ICP-MS	0.088	G_DRY	0.0529	J		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; ICP-MS	0.088	G_DRY	0.034	U		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; ICP/MS	0.088	G_DRY	0.074	U		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; ICP-MS	0.088	G_DRY	0.023	U		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; ICP-MS	0.088	G_DRY	0.0285	U		T
A-TS-57-L	1678*143		2.32	78.5	Tree Swallow Nestling Liver; CVAA	0.088	G_DRY	0.0527			T
A-TS-57-L	1678*143		1.00	78.5	Tree Swallow Nestling Liver; CVAF	0.047	G_DRY	0.0447			T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; ICP-MS	0.300	G_DRY	0.005	U		T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; AES	0.300	G_DRY	1.13	U		T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; AES	0.300	G_DRY	0.18	U		T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; AES	0.300	G_DRY	0.271	U		T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; AES	0.300	G_DRY	1.08			T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; AES	0.300	G_DRY	188	J		T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; ICP-MS	0.300	G_DRY	0.379	U		T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; ICP-MS	0.300	G_DRY	0.323	U		T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; ICP-MS	0.300	G_DRY	6.09			T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; AES	0.300	G_DRY	22.9	J		T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; ICP/MS	0.300	G_DRY	0.034	U		T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; FIAS	0.300	G_DRY	0.493	U		T
G-TS-02-L	1678*144		0.559	74.4	Tree Swallow Nestling Liver; ICP-MS	0.300	G_DRY	0.54			T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	08/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.0357	UG/G WET	J		0.061
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.00900	UG/G WET	J		0.201
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.00102	UG/G WET	J		0.034
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.0411	UG/G WET	B		0.011
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00029	UG/G WET	J		0.023
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	LEAD	7439-92-1	M	L-42	0.00853	UG/G WET	J		0.023
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	08/27/01	08/30/01		3	MERCURY	7439-97-6	M	L-41	0.0486	UG/G WET			0.0023
G-TS-02-L	1678*144	MSL	NORMAL	05/30/01	08/30/01	09/04/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0376	UG/G WET			0.0037
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	08/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.005	UG/G WET	U		0.005
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.411	UG/G WET	J		1.13
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.00707	UG/G WET	J		0.160
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.0604	UG/G WET	J		0.271
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.34	UG/G WET			0.016
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	390	UG/G WET			0.320
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	08/31/01		3	COBALT	7440-48-4	M	L-42	0.00691	UG/G WET	J		0.379
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	08/31/01		3	NICKEL	7440-02-0	M	L-42	0.0144	UG/G WET	J		0.323
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	08/31/01		3	COPPER	7440-50-8	M	L-42	4.70	UG/G WET			0.073
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	19.5	UG/G WET			0.108
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	08/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0352	UG/G WET	B		0.034
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-I-30	0.439	UG/G WET	J		0.451
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	08/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.505	UG/G WET			0.325
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.061	UG/G WET	U		0.061
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.0127	UG/G WET	J		0.201
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.000070	UG/G WET	J		0.034
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.0167	UG/G WET	B		0.011
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	08/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00488	UG/G WET	J		0.023
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	08/31/01		3	LEAD	7439-92-1	M	L-42	0.0106	UG/G WET	J		0.023
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/27/01	08/30/01		3	MERCURY	7439-97-6	M	L-41	0.0289	UG/G WET			0.0023
G-TS-04-L	1678*145	MSL	NORMAL	06/09/01	08/30/01	09/04/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0242	UG/G WET			0.0037
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.005	UG/G WET	U		0.005
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.0923	UG/G WET	J		1.13
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.160	UG/G WET	U		0.160
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.103	UG/G WET	J		0.271
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	0.897	UG/G WET			0.016
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	217	UG/G WET			0.320
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	COBALT	7440-48-4	M	L-42	0.00453	UG/G WET	J		0.379
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	NICKEL	7440-02-0	M	L-42	0.0160	UG/G WET	J		0.323
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	11/10/01		3	COPPER	7440-50-8	M	L-42	6.40	UG/G WET			0.073
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	19.5	UG/G WET			0.108
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0246	UG/G WET	JB		0.034
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-I-30	0.524	UG/G WET			0.451
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.505	UG/G WET			0.325
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.0177	UG/G WET	J		0.061
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.00779	UG/G WET	J		0.201
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.000727	UG/G WET	J		0.034
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.00743	UG/G WET	JB		0.011
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00343	UG/G WET	J		0.023
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	08/31/01		3	LEAD	7439-92-1	M	L-42	0.00894	UG/G WET	J		0.023
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/27/01	08/30/01		3	MERCURY	7439-97-6	M	L-41	0.0450	UG/G WET			0.0023
G-TS-07-L	1678*146	MSL	NORMAL	05/30/01	08/30/01	09/04/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0357	UG/G WET			0.0037
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	08/27/01	08/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.000750	UG/G WET	J		0.005
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	08/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.183	UG/G WET	J		1.13
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	08/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.160	UG/G WET	U		0.160
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	08/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.105	UG/G WET	J		0.271
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	08/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.21	UG/G WET			0.016
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	08/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	356	UG/G WET			0.320
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	08/27/01	08/31/01		3	COBALT	7440-48-4	M	L-42	0.00789	UG/G WET	J		0.379
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	08/27/01	08/31/01		3	NICKEL	7440-02-0	M	L-42	0.0144	UG/G WET	J		0.323
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	08/27/01	08/31/01		3	COPPER	7440-50-8	M	L-42	3.32	UG/G WET			0.073

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
G-TS-02-L	1678*144		0.659	74.4	Tree Swallow Nestling Liver, AES	0.300	G_DRY	0.061	U		T
G-TS-02-L	1678*144		0.659	74.4	Tree Swallow Nestling Liver, ICP-MS	0.300	G_DRY	0.201	U		T
G-TS-02-L	1678*144		0.659	74.4	Tree Swallow Nestling Liver, ICP-MS	0.300	G_DRY	0.034	U		T
G-TS-02-L	1678*144		0.659	74.4	Tree Swallow Nestling Liver, ICP-MS	0.300	G_DRY	0.0411	U		T
G-TS-02-L	1678*144		0.659	74.4	Tree Swallow Nestling Liver, ICP-MS	0.300	G_DRY	0.023	U		T
G-TS-02-L	1678*144		0.659	74.4	Tree Swallow Nestling Liver, ICP-MS	0.300	G_DRY	0.023	U		T
G-TS-02-L	1678*144		0.659	74.4	Tree Swallow Nestling Liver, CVAA	0.300	G_DRY	0.0496			T
G-TS-02-L	1678*144		1.00	74.4	Tree Swallow Nestling Liver, CVAF	0.093	G_DRY	0.0378			T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, ICP-MS	0.296	G_DRY	0.005	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, AES	0.296	G_DRY	1.13	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, AES	0.296	G_DRY	0.16	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, AES	0.296	G_DRY	0.271	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, AES	0.296	G_DRY	1.34			T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, AES	0.296	G_DRY	390	J		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, ICP-MS	0.296	G_DRY	0.379	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, ICP-MS	0.296	G_DRY	0.323	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, ICP-MS	0.296	G_DRY	4.70			T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, AES	0.296	G_DRY	19.5	J		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, ICP-MS	0.296	G_DRY	0.0352	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, FIAS	0.296	G_DRY	0.451	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, ICP-MS	0.296	G_DRY	0.535			T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, AES	0.296	G_DRY	0.061	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, ICP-MS	0.296	G_DRY	0.201	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, ICP-MS	0.296	G_DRY	0.034	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, ICP-MS	0.296	G_DRY	0.0167	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, ICP-MS	0.296	G_DRY	0.023	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, ICP-MS	0.296	G_DRY	0.023	U		T
G-TS-04-L	1678*145		0.652	66.7	Tree Swallow Nestling Liver, CVAA	0.296	G_DRY	0.0296			T
G-TS-04-L	1678*145		1.00	66.7	Tree Swallow Nestling Liver, CVAF	0.097	G_DRY	0.0242			T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, ICP-MS	0.298	G_DRY	0.005	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, AES	0.298	G_DRY	1.13	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, AES	0.298	G_DRY	0.16	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, AES	0.298	G_DRY	0.271	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, AES	0.298	G_DRY	0.897			T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, AES	0.298	G_DRY	217	J		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, ICP-MS	0.298	G_DRY	0.379	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, ICP-MS	0.298	G_DRY	0.323	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, ICP-MS	0.298	G_DRY	6.40			T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, AES	0.298	G_DRY	19.5	J		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, ICP-MS	0.298	G_DRY	0.034	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, FIAS	0.298	G_DRY	0.524	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, ICP-MS	0.298	G_DRY	0.506			T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, AES	0.298	G_DRY	0.061	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, ICP-MS	0.298	G_DRY	0.201	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, ICP-MS	0.298	G_DRY	0.034	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, ICP-MS	0.298	G_DRY	0.174	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, ICP-MS	0.298	G_DRY	0.023	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, ICP-MS	0.298	G_DRY	0.023	U		T
G-TS-07-L	1678*146		0.677	69.6	Tree Swallow Nestling Liver, CVAA	0.298	G_DRY	0.0450			T
G-TS-07-L	1678*146		1.00	69.6	Tree Swallow Nestling Liver, CVAF	0.082	G_DRY	0.0357			T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, ICP-MS	0.303	G_DRY	0.005	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, AES	0.303	G_DRY	1.13	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, AES	0.303	G_DRY	0.16	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, AES	0.303	G_DRY	0.271	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, AES	0.303	G_DRY	1.21			T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, AES	0.303	G_DRY	356	J		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, ICP-MS	0.303	G_DRY	0.379	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, ICP-MS	0.303	G_DRY	0.323	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, ICP-MS	0.303	G_DRY	3.32			T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	18.2	UG/G WET			0.108
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0242	UG/G WET	B		0.034
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	06/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-I-30	0.571	UG/G WET			0.451
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.601	UG/G WET			0.325
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.00645	UG/G WET	J		0.061
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.00815	UG/G WET	J		0.201
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.000388	UG/G WET	J		0.034
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.0174	UG/G WET	B		0.011
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00470	UG/G WET	J		0.023
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	LEAD	7439-92-1	M	L-42	0.0108	UG/G WET	J		0.023
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	06/27/01	08/30/01		3	MERCURY	7439-97-6	M	L-41	0.0419	UG/G WET			0.0023
G-TS-22-L	1678*147	MSL	NORMAL	06/07/01	06/30/01	09/04/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0360	UG/G WET			0.0037
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.000342	UG/G WET	J		0.005
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.637	UG/G WET	J		1.13
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.00532	UG/G WET	J		0.150
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.0707	UG/G WET	J		0.271
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.22	UG/G WET			0.018
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	321	UG/G WET			0.320
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	COBALT	7440-48-4	M	L-42	0.00320	UG/G WET	J		0.379
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	NICKEL	7440-02-0	M	L-42	0.0157	UG/G WET	J		0.323
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	COPPER	7440-50-8	M	L-42	5.60	UG/G WET			0.073
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	18.5	UG/G WET			0.108
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0573	UG/G WET	B		0.034
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-I-30	0.506	UG/G WET			0.451
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.537	UG/G WET			0.325
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.0260	UG/G WET	J		0.061
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.00714	UG/G WET	J		0.201
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.00542	UG/G WET	J		0.034
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.0169	UG/G WET	B		0.011
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00568	UG/G WET	J		0.023
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	LEAD	7439-92-1	M	L-42	0.0137	UG/G WET	J		0.023
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/27/01	08/30/01		3	MERCURY	7439-97-6	M	L-41	0.0388	UG/G WET			0.0023
G-TS-29-L	1678*148	MSL	NORMAL	06/07/01	06/30/01	09/04/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0357	UG/G WET			0.0037
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	08/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.000898	UG/G WET	J		0.005
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	1.30	UG/G WET			1.13
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.150	UG/G WET	U		0.150
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.0702	UG/G WET	J		0.271
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.15	UG/G WET			0.018
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	244	UG/G WET			0.320
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	08/31/01		3	COBALT	7440-48-4	M	L-42	0.0124	UG/G WET	J		0.379
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	08/31/01		3	NICKEL	7440-02-0	M	L-42	0.0229	UG/G WET	J		0.323
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	08/31/01		3	COPPER	7440-50-8	M	L-42	4.60	UG/G WET			0.073
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	20.2	UG/G WET			0.108
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	08/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0414	UG/G WET	B		0.034
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-I-30	0.576	UG/G WET			0.451
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	08/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.569	UG/G WET			0.325
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.061	UG/G WET	U		0.061
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.0125	UG/G WET	J		0.201
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.00302	UG/G WET	J		0.034
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.0375	UG/G WET	B		0.011
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	08/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00578	UG/G WET	J		0.023
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	08/31/01		3	LEAD	7439-92-1	M	L-42	0.181	UG/G WET			0.023
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/27/01	08/30/01		3	MERCURY	7439-97-6	M	L-41	0.0511	UG/G WET			0.0023
L-TS-62-L	1678*149	MSL	NORMAL	06/08/01	06/30/01	09/05/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0353	UG/G WET			0.0037
L-TS-63-L	1678*150	MSL	NORMAL	06/08/01	06/27/01	08/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.005	UG/G WET	U		0.005
L-TS-63-L	1678*150	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.117	UG/G WET	J		1.13
L-TS-63-L	1678*150	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.0022	UG/G WET	J		0.150
L-TS-63-L	1678*150	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.0956	UG/G WET	J		0.271
L-TS-63-L	1678*150	MSL	NORMAL	06/08/01	06/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.27	UG/G WET			0.018

SAMPLE_NO	LAB_ID	CRDL_CRDL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, AES	0.303	G_DRY	16.2	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, ICP-MS	0.303	G_DRY	0.034	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, FIAS	0.303	G_DRY	0.571	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, ICP-MS	0.303	G_DRY	0.601			T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, AES	0.303	G_DRY	0.061	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, ICP-MS	0.303	G_DRY	0.201	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, ICP-MS	0.303	G_DRY	0.034	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, ICP-MS	0.303	G_DRY	0.011	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, ICP-MS	0.303	G_DRY	0.023	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, ICP-MS	0.303	G_DRY	0.023	U		T
G-TS-22-L	1678*147		0.654	69.2	Tree Swallow Nestling Liver, CVAA	0.303	G_DRY	0.0419			T
G-TS-22-L	1678*147		1.00	69.2	Tree Swallow Nestling Liver, CVAF	0.076	G_DRY	0.0260			T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, ICP-MS	0.295	G_DRY	0.005	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, AES	0.295	G_DRY	1.13	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, AES	0.295	G_DRY	0.18	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, AES	0.295	G_DRY	0.271	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, AES	0.295	G_DRY	1.22			T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, AES	0.295	G_DRY	321	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, ICP-MS	0.295	G_DRY	0.379	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, ICP-MS	0.295	G_DRY	0.323	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, ICP-MS	0.295	G_DRY	5.60			T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, AES	0.295	G_DRY	18.5	J		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, ICP-MS	0.295	G_DRY	0.0573	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, FIAS	0.295	G_DRY	0.506	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, ICP-MS	0.295	G_DRY	0.537			T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, AES	0.295	G_DRY	0.061	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, ICP-MS	0.295	G_DRY	0.201	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, ICP-MS	0.295	G_DRY	0.034	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, ICP-MS	0.295	G_DRY	0.0165	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, ICP-MS	0.295	G_DRY	0.023	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, ICP-MS	0.295	G_DRY	0.023	U		T
G-TS-29-L	1678*148		0.705	68.5	Tree Swallow Nestling Liver, CVAA	0.295	G_DRY	0.0365			T
G-TS-29-L	1678*148		1.00	68.5	Tree Swallow Nestling Liver, CVAF	0.066	G_DRY	0.0357			T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, ICP-MS	0.297	G_DRY	0.005	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, AES	0.297	G_DRY	1.3	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, AES	0.297	G_DRY	0.18	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, AES	0.297	G_DRY	0.271	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, AES	0.297	G_DRY	1.15			T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, AES	0.297	G_DRY	244	J		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, ICP-MS	0.297	G_DRY	0.379	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, ICP-MS	0.297	G_DRY	0.323	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, ICP-MS	0.297	G_DRY	4.60			T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, AES	0.297	G_DRY	20.2	J		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, ICP-MS	0.297	G_DRY	0.0414	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, FIAS	0.297	G_DRY	0.576	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, ICP-MS	0.297	G_DRY	0.588			T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, AES	0.297	G_DRY	0.061	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, ICP-MS	0.297	G_DRY	0.201	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, ICP-MS	0.297	G_DRY	0.034	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, ICP-MS	0.297	G_DRY	0.0375	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, ICP-MS	0.297	G_DRY	0.023	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, ICP-MS	0.297	G_DRY	0.181	U		T
L-TS-62-L	1678*149		0.665	71.5	Tree Swallow Nestling Liver, CVAA	0.297	G_DRY	0.0511			T
L-TS-62-L	1678*149		1.00	71.5	Tree Swallow Nestling Liver, CVAF	0.082	G_DRY	0.0363			T
L-TS-63-L	1678*150		0.665	71.4	Tree Swallow Nestling Liver, ICP-MS	0.301	G_DRY	0.005	U		T
L-TS-63-L	1678*150		0.665	71.4	Tree Swallow Nestling Liver, AES	0.301	G_DRY	1.13	U		T
L-TS-63-L	1678*150		0.665	71.4	Tree Swallow Nestling Liver, AES	0.301	G_DRY	0.18	U		T
L-TS-63-L	1678*150		0.665	71.4	Tree Swallow Nestling Liver, AES	0.301	G_DRY	0.271	U		T
L-TS-63-L	1678*150		0.665	71.4	Tree Swallow Nestling Liver, AES	0.301	G_DRY	1.27			T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	100	UG/G WET			0.320
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	08/31/01		3	COBALT	7440-48-4	M	L-42	0.00930	UG/G WET	J		0.379
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	08/31/01		3	NICKEL	7440-02-0	M	L-42	0.0121	UG/G WET	J		0.323
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	08/31/01		3	COPPER	7440-50-8	M	L-42	5.19	UG/G WET			0.073
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	21.4	UG/G WET			0.108
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	08/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0265	UG/G WET	JB		0.034
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-1-30	0.540	UG/G WET			0.451
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	08/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.560	UG/G WET			0.325
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.00781	UG/G WET	J		0.061
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.00966	UG/G WET	J		0.201
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.000465	UG/G WET	J		0.034
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.00622	UG/G WET	JB		0.011
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	08/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00496	UG/G WET	J		0.023
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	08/31/01		3	LEAD	7439-92-1	M	L-42	0.0126	UG/G WET	J		0.023
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	06/27/01	08/30/01		3	MERCURY	7439-97-6	M	L-41	0.0511	UG/G WET			0.0023
L-TS-63-L	1678*150	MSL	NORMAL	06/06/01	08/30/01	09/05/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0357	UG/G WET			0.0037
L-TS-70-L	1678*151	MSL	NORMAL	06/06/01	06/27/01	08/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.005	UG/G WET	U		0.005
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.856	UG/G WET	J		1.13
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.0240	UG/G WET	J		0.180
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.139	UG/G WET	J		0.271
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.27	UG/G WET			0.018
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	397	UG/G WET			0.320
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	COBALT	7440-48-4	M	L-42	0.00861	UG/G WET	J		0.379
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	NICKEL	7440-02-0	M	L-42	0.0179	UG/G WET	J		0.323
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	COPPER	7440-50-8	M	L-42	8.32	UG/G WET			0.073
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	21.4	UG/G WET			0.108
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0332	UG/G WET	JB		0.034
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-1-30	0.563	UG/G WET			0.451
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.604	UG/G WET			0.325
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.0308	UG/G WET	J		0.061
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.0109	UG/G WET	J		0.201
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.000807	UG/G WET	J		0.034
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.0235	UG/G WET	B		0.011
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00439	UG/G WET	J		0.023
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	08/31/01		3	LEAD	7439-92-1	M	L-42	0.0126	UG/G WET	J		0.023
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	06/27/01	08/30/01		3	MERCURY	7439-97-6	M	L-41	0.0550	UG/G WET			0.0023
L-TS-70-L	1678*151	MSL	NORMAL	06/07/01	08/30/01	09/05/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0470	UG/G WET			0.0037
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.000468	UG/G WET	J		0.005
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.105	UG/G WET	J		1.13
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.180	UG/G WET	U		0.180
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.0596	UG/G WET	J		0.271
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.03	UG/G WET			0.018
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	293	UG/G WET			0.320
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	COBALT	7440-48-4	M	L-42	0.00506	UG/G WET	J		0.379
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	NICKEL	7440-02-0	M	L-42	0.0161	UG/G WET	J		0.323
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	COPPER	7440-50-8	M	L-42	5.27	UG/G WET			0.073
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	17.8	UG/G WET			0.108
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0321	UG/G WET	JB		0.034
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-1-30	0.463	UG/G WET			0.451
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.473	UG/G WET			0.325
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.061	UG/G WET	U		0.061
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.00732	UG/G WET	J		0.201
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.000828	UG/G WET	J		0.034
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.0111	UG/G WET	B		0.011
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00342	UG/G WET	J		0.023
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	08/31/01		3	LEAD	7439-92-1	M	L-42	0.0388	UG/G WET			0.023
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	06/27/01	08/30/01		3	MERCURY	7439-97-6	M	L-41	0.0285	UG/G WET			0.0023
L-TS-84-L	1678*152	MSL	NORMAL	06/09/01	08/30/01	09/05/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0231	UG/G WET			0.0037
L-TS-89-L	1678*153	MSL	NORMAL	06/12/01	06/27/01	08/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.00105	UG/G WET	J		0.005

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; AES	0.301	G_DRY	100	J		T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; ICP-MS	0.301	G_DRY	0.379	U		T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; ICP-MS	0.301	G_DRY	0.323	U		T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; ICP-MS	0.301	G_DRY	5.19			T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; AES	0.301	G_DRY	21.4	J		T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; ICP/MS	0.301	G_DRY	0.034	U		T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; FIAS	0.301	G_DRY	0.54	U		T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; ICP-MS	0.301	G_DRY	0.56			T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; AES	0.301	G_DRY	0.051	U		T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; ICP-MS	0.301	G_DRY	0.201	U		T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; ICP-MS	0.301	G_DRY	0.034	U		T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; ICP/MS	0.301	G_DRY	0.011	U		T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; ICP-MS	0.301	G_DRY	0.023	U		T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; ICP-MS	0.301	G_DRY	0.023	U		T
L-TS-63-L	1678*150		0.655	71.4	Tree Swallow Nestling Liver; CVAA	0.301	G_DRY	0.0511			T
L-TS-63-L	1678*150		1.00	71.4	Tree Swallow Nestling Liver; CVAF	0.076	G_DRY	0.0357			T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.005	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; AES	0.296	G_DRY	1.13	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; AES	0.296	G_DRY	0.18	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; AES	0.296	G_DRY	0.271	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; AES	0.296	G_DRY	1.27			T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; AES	0.296	G_DRY	397	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.379	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.323	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	6.32			T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; AES	0.296	G_DRY	21.4	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; ICP/MS	0.296	G_DRY	0.034	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; FIAS	0.296	G_DRY	0.553	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.604			T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; AES	0.296	G_DRY	0.051	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.201	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.034	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; ICP/MS	0.296	G_DRY	0.0205	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.023	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.023	U		T
L-TS-70-L	1678*151		0.674	70.7	Tree Swallow Nestling Liver; CVAA	0.296	G_DRY	0.0550			T
L-TS-70-L	1678*151		1.00	70.7	Tree Swallow Nestling Liver; CVAF	0.079	G_DRY	0.0470			T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; ICP-MS	0.297	G_DRY	0.005	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; AES	0.297	G_DRY	1.13	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; AES	0.297	G_DRY	0.18	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; AES	0.297	G_DRY	0.271	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; AES	0.297	G_DRY	1.03			T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; AES	0.297	G_DRY	293	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; ICP-MS	0.297	G_DRY	0.379	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; ICP-MS	0.297	G_DRY	0.323	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; ICP-MS	0.297	G_DRY	5.27			T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; AES	0.297	G_DRY	17.8	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; ICP/MS	0.297	G_DRY	0.034	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; FIAS	0.297	G_DRY	0.463	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; ICP-MS	0.297	G_DRY	0.473			T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; AES	0.297	G_DRY	0.051	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; ICP-MS	0.297	G_DRY	0.201	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; ICP-MS	0.297	G_DRY	0.034	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; ICP/MS	0.297	G_DRY	0.0111	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; ICP-MS	0.297	G_DRY	0.023	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; ICP-MS	0.297	G_DRY	0.0355	U		T
L-TS-84-L	1678*152		0.672	66.0	Tree Swallow Nestling Liver; CVAA	0.297	G_DRY	0.0285			T
L-TS-84-L	1678*152		1.00	66.0	Tree Swallow Nestling Liver; CVAF	0.085	G_DRY	0.0231			T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; ICP-MS	0.296	G_DRY	0.005	U		T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	0.774	UG/G WET	J		1.13
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.0237	UG/G WET	J		0.190
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.0607	UG/G WET	J		0.271
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.04	UG/G WET			0.015
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	429	UG/G WET			0.320
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	08/31/01		3	COBALT	7440-48-4	M	L-42	0.00594	UG/G WET	J		0.379
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	08/31/01		3	NICKEL	7440-02-0	M	L-42	0.0167	UG/G WET	J		0.323
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	08/31/01		3	COPPER	7440-50-8	M	L-42	7.61	UG/G WET			0.073
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	21.8	UG/G WET			0.105
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	08/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0243	UG/G WET	JB		0.034
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL1-30	0.465	UG/G WET			0.451
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	08/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.583	UG/G WET			0.325
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.0314	UG/G WET	J		0.061
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	08/31/01		3	CADMIUM	7440-43-9	M	L-42	0.0121	UG/G WET	J		0.201
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	08/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.000782	UG/G WET	J		0.034
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	08/31/01		3	BARIUM	7440-39-3	M	L-42	0.0143	UG/G WET	B		0.011
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	08/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00445	UG/G WET	J		0.023
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	08/31/01		3	LEAD	7439-92-1	M	L-42	0.0112	UG/G WET	J		0.023
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/27/01	08/30/01		3	MERCURY	7439-97-6	M	L-41	0.0316	UG/G WET			0.0023
L-TS-89-L	1678*153	MSL	NORMAL	08/12/01	08/30/01	09/05/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0280	UG/G WET			0.0037
	BLANK R1	MSL	P_BLANK		08/27/01	08/31/01			BERYLLIUM	7440-41-7	M	L-42	0.00449	UG/G DRY	J		0.016
	BLANK R1	MSL	P_BLANK		08/27/01	11/10/01			ALUMINUM	7429-90-5	M	L-44	0.970	UG/G DRY	J		4.0
	BLANK R1	MSL	P_BLANK		08/27/01	11/10/01			VANADIUM	7440-62-2	M	L-44	0.0139	UG/G DRY	J		0.64
	BLANK R1	MSL	P_BLANK		08/27/01	11/10/01			CHROMIUM	7440-47-3	M	L-44	0.0297	UG/G DRY	J		0.95
	BLANK R1	MSL	P_BLANK		08/27/01	11/10/01			MANGANESE	7439-96-5	M	L-44	0.054	UG/G DRY	U		0.054
	BLANK R1	MSL	P_BLANK		08/27/01	11/10/01			IRON	7439-89-6	M	L-44	0.0921	UG/G DRY	J		1.12
	BLANK R1	MSL	P_BLANK		08/27/01	08/31/01			COBALT	7440-48-4	M	L-42	0.00047	UG/G DRY	J		1.34
	BLANK R1	MSL	P_BLANK		08/27/01	08/31/01			NICKEL	7440-02-0	M	L-42	0.0192	UG/G DRY	J		1.14
	BLANK R1	MSL	P_BLANK		08/27/01	08/31/01			COPPER	7440-50-8	M	L-42	0.00119	UG/G DRY	J		0.09
	BLANK R1	MSL	P_BLANK		08/27/01	11/10/01			ZINC	7440-66-6	M	L-44	0.374	UG/G DRY	J		0.364
	BLANK R1	MSL	P_BLANK		08/27/01	08/31/01			ARSENIC	7440-38-2	M	L-42	0.194	UG/G DRY	B		0.12
	BLANK R1	MSL	P_BLANK		08/27/01	11/07/01			SELENIUM	7782-49-2	M	MSL1-30	0.145	UG/G DRY	J		1.6
	BLANK R1	MSL	P_BLANK		08/27/01	08/31/01			MOLYBDENUM	13939-06-5	M	L-42	0.0514	UG/G DRY	J		1.15
	BLANK R1	MSL	P_BLANK		08/27/01	11/10/01			SILVER	7440-22-4	M	L-44	0.0264	UG/G DRY	J		0.216
	BLANK R1	MSL	P_BLANK		08/27/01	08/31/01			CADMIUM	7440-43-9	M	L-42	0.00898	UG/G DRY	J		0.712
	BLANK R1	MSL	P_BLANK		08/27/01	08/31/01			ANTIMONY	7440-36-0	M	L-42	0.0521	UG/G DRY	J		0.12
	BLANK R1	MSL	P_BLANK		08/27/01	08/31/01			BARIUM	7440-39-3	M	L-42	0.0571	UG/G DRY	B		0.04
	BLANK R1	MSL	P_BLANK		08/27/01	08/31/01			THALLIUM	7440-28-0	M	L-42	0.0115	UG/G DRY	J		0.08
	BLANK R1	MSL	P_BLANK		08/27/01	08/31/01			LEAD	7439-92-1	M	L-42	0.0800	UG/G DRY	B		0.08
	BLANK R1	MSL	P_BLANK		08/27/01	08/30/01			MERCURY	7439-97-6	M	L-41	0.008	UG/G DRY	U		0.008
	BLANK R1	MSL	P_BLANK		08/30/01	09/04/01			METHYL MERCURY	22967-92-6	M	L-40	0.01	UG/G DRY	U		0.013
	DOLT-2 R1	MSL	SRM		08/27/01	11/10/01			ALUMINUM	7429-90-5	M	L-44	30	% DIFFERENCE			4.0
	DOLT-2 R1	MSL	SRM		08/27/01	11/10/01			CHROMIUM	7440-47-3	M	L-44	235	% DIFFERENCE	-		0.95
	DOLT-2 R1	MSL	SRM		08/27/01	11/10/01			MANGANESE	7439-96-5	M	L-44	3	% DIFFERENCE			0.054
	DOLT-2 R1	MSL	SRM		08/27/01	11/10/01			IRON	7439-89-6	M	L-44	8	% DIFFERENCE			1.12
	DOLT-2 R1	MSL	SRM		08/27/01	08/31/01			COBALT	7440-48-4	M	L-42	14	% DIFFERENCE			1.34
	DOLT-2 R1	MSL	SRM		08/27/01	08/31/01			NICKEL	7440-02-0	M	L-42	16	% DIFFERENCE			1.14
	DOLT-2 R1	MSL	SRM		08/27/01	08/31/01			COPPER	7440-50-8	M	L-42	5	% DIFFERENCE			0.09
	DOLT-2 R1	MSL	SRM		08/27/01	11/10/01			ZINC	7440-66-6	M	L-44	5	% DIFFERENCE			0.364
	DOLT-2 R1	MSL	SRM		08/27/01	08/31/01			ARSENIC	7440-38-2	M	L-42	11	% DIFFERENCE			0.12
	DOLT-2 R1	MSL	SRM		08/27/01	11/07/01			SELENIUM	7782-49-2	M	MSL1-30	18	% DIFFERENCE			1.6
	DOLT-2 R1	MSL	SRM		08/27/01	11/10/01			SILVER	7440-22-4	M	L-44	0	% DIFFERENCE			0.216
	DOLT-2 R1	MSL	SRM		08/27/01	08/31/01			CADMIUM	7440-43-9	M	L-42	11	% DIFFERENCE			0.712
	DOLT-2 R1	MSL	SRM		08/27/01	08/31/01			LEAD	7439-92-1	M	L-42	9	% DIFFERENCE			0.08
	DOLT-2 R1	MSL	SRM		08/27/01	08/30/01			MERCURY	7439-97-6	M	L-41	11	% DIFFERENCE			0.008
	DOLT-2 R1	MSL	SRM		08/30/01	09/04/01			METHYL MERCURY	22967-92-6	M	L-40	3	% DIFFERENCE			0.013
	DOLT-2 R2	MSL	SRM		08/30/01	09/05/01			METHYL MERCURY	22967-92-6	M	L-40	2	% DIFFERENCE			0.013
	BLANK SPIKE	MSL	LCS		08/27/01	08/31/01			BERYLLIUM	7440-41-7	M	L-42	92	% RECOVERY			0.016
	BLANK SPIKE	MSL	LCS		08/27/01	11/10/01			ALUMINUM	7429-90-5	M	L-44	92	% RECOVERY			4.0

SAMPLE_NO	LAB_ID	CROL_CROL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; AES	0.298	G_DRY	1.13	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; AES	0.298	G_DRY	0.18	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; AES	0.298	G_DRY	0.271	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; AES	0.298	G_DRY	1.04			T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; AES	0.298	G_DRY	429	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; ICP-MS	0.298	G_DRY	0.379	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; ICP-MS	0.298	G_DRY	0.323	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; ICP-MS	0.298	G_DRY	7.61			T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; AES	0.298	G_DRY	21.8	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; ICP/MS	0.298	G_DRY	0.034	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; FIAS	0.298	G_DRY	0.465	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; ICP-MS	0.298	G_DRY	0.553			T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; AES	0.298	G_DRY	0.051	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; ICP-MS	0.298	G_DRY	0.201	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; ICP-MS	0.298	G_DRY	0.024	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; ICP/MS	0.298	G_DRY	0.0143	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; ICP-MS	0.298	G_DRY	0.023	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; ICP-MS	0.298	G_DRY	0.023	U		T
L-TS-89-L	1678*153		0.664	70.1	Tree Swallow Nestling Liver; CVAA	0.298	G_DRY	0.0316			T
L-TS-89-L	1678*153		1.00	70.1	Tree Swallow Nestling Liver; CVAF	0.071	G_DRY	0.0220			T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; ICP-MS	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; AES	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; AES	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; AES	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; AES	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; AES	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; ICP-MS	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; ICP-MS	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; ICP-MS	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; AES	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; ICP/MS	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; FIAS	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; ICP-MS	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; AES	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; ICP-MS	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; ICP-MS	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; ICP/MS	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; ICP-MS	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; ICP-MS	0.300	G_DRY				T
	BLANK R1		0.700	NA	Blank results (LAB, MDL) reported on dry weight basis; CVAA	0.300	G_DRY				T
	BLANK R1		1.00	NA	Blank results (LAB, MDL) reported on dry weight basis; CVAF	0.077	G_DRY				T
	DOLT-2 R1		0.65	NA	AES	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	AES	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	AES	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	AES	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	ICP-MS	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	ICP-MS	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	ICP-MS	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	AES	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	ICP/MS	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	FIAS	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	AES	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	ICP-MS	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	ICP-MS	0.300	G_DRY				T
	DOLT-2 R1		0.65	NA	CVAA	0.300	G_DRY				T
	DOLT-2 R1		1.00	NA	CVAF	0.078	G_DRY				T
	DOLT-2 R2		1.00	NA	CVAF	0.078	G_DRY				T
	BLANK SPIKE		0.7	N/A	ICP-MS	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	AES	0.300	G_DRY				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
	BLANK SPIKE	MSL	LCS		09/27/01	11/10/01			VANADIUM	7440-62-2	M	L-44	105	% RECOVERY			0.04
	BLANK SPIKE	MSL	LCS		09/27/01	11/10/01			CHROMIUM	7440-47-3	M	L-44	86	% RECOVERY			0.99
	BLANK SPIKE	MSL	LCS		09/27/01	11/10/01			MANGANESE	7439-96-5	M	L-44	85	% RECOVERY			0.064
	BLANK SPIKE	MSL	LCS		09/27/01	11/10/01			IRON	7439-89-6	M	L-44	141	% RECOVERY			1.12
	BLANK SPIKE	MSL	LCS		09/27/01	09/31/01			COBALT	7440-48-4	M	L-42	104	% RECOVERY			1.34
	BLANK SPIKE	MSL	LCS		09/27/01	09/31/01			NICKEL	7440-02-0	M	L-42	99	% RECOVERY			1.14
	BLANK SPIKE	MSL	LCS		09/27/01	09/31/01			COPPER	7440-50-8	M	L-42	84	% RECOVERY			0.26
	BLANK SPIKE	MSL	LCS		09/27/01	11/10/01			ZINC	7440-66-6	M	L-44	86	% RECOVERY			0.394
	BLANK SPIKE	MSL	LCS		09/27/01	09/31/01			ARSENIC	7440-38-2	M	L-42	121	% RECOVERY			0.12
	BLANK SPIKE	MSL	LCS		09/27/01	11/07/01			SELENIUM	7782-49-2	M	MSL-I-30	71	% RECOVERY			1.6
	BLANK SPIKE	MSL	LCS		09/27/01	09/31/01			MOLYBDENUM	13939-06-5	M	L-42	100	% RECOVERY			1.15
	BLANK SPIKE	MSL	LCS		09/27/01	11/10/01			SILVER	7440-22-4	M	L-44	100	% RECOVERY			0.216
	BLANK SPIKE	MSL	LCS		09/27/01	09/31/01			CADMIUM	7440-43-9	M	L-42	95	% RECOVERY			0.712
	BLANK SPIKE	MSL	LCS		09/27/01	09/31/01			ANTIMONY	7440-36-0	M	L-42	97	% RECOVERY			0.12
	BLANK SPIKE	MSL	LCS		09/27/01	09/31/01			BARIUM	7440-39-3	M	L-42	104	% RECOVERY			0.04
	BLANK SPIKE	MSL	LCS		09/27/01	09/31/01			THALLIUM	7440-28-0	M	L-42	107	% RECOVERY			0.08
	BLANK SPIKE	MSL	LCS		09/27/01	09/31/01			LEAD	7439-92-1	M	L-42	107	% RECOVERY			0.09
	BLANK SPIKE	MSL	LCS		09/27/01	09/30/01			MERCURY	7439-97-6	M	L-41	96	% RECOVERY			0.0005
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	09/31/01			BERYLLIUM	7440-41-7	M	L-42	80	% RECOVERY			0.016
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	11/10/01			ALUMINUM	7429-90-5	M	L-44	100	% RECOVERY			4.0
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	11/10/01			VANADIUM	7440-62-2	M	L-44	98	% RECOVERY			0.04
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	11/10/01			CHROMIUM	7440-47-3	M	L-44	102	% RECOVERY			0.99
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	11/10/01			MANGANESE	7439-96-5	M	L-44	97	% RECOVERY			0.064
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	11/10/01			IRON	7439-89-6	M	L-44	102	% RECOVERY			1.12
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	09/31/01			COBALT	7440-48-4	M	L-42	86	% RECOVERY			1.34
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	09/31/01			NICKEL	7440-02-0	M	L-42	81	% RECOVERY			1.14
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	09/31/01			COPPER	7440-50-8	M	L-42	96	% RECOVERY			0.26
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	11/10/01			ZINC	7440-66-6	M	L-44	60	% RECOVERY	&		0.394
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	09/31/01			ARSENIC	7440-38-2	M	L-42	97	% RECOVERY			0.12
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	11/07/01			SELENIUM	7782-49-2	M	MSL-I-30	86	% RECOVERY			1.6
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	09/31/01			MOLYBDENUM	13939-06-5	M	L-42	101	% RECOVERY			1.15
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	11/10/01			SILVER	7440-22-4	M	L-44	130	% RECOVERY			0.216
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	09/31/01			CADMIUM	7440-43-9	M	L-42	95	% RECOVERY			0.712
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	09/31/01			ANTIMONY	7440-36-0	M	L-42	100	% RECOVERY			0.12
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	09/31/01			BARIUM	7440-39-3	M	L-42	104	% RECOVERY			0.04
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	09/31/01			THALLIUM	7440-28-0	M	L-42	107	% RECOVERY			0.08
A-TS-48-L	MATRIX SPIKE 1678*141	MSL	MS	09/07/01	09/27/01	09/31/01			LEAD	7439-92-1	M	L-42	106	% RECOVERY			0.09
G-TS-29-L	MATRIX SPIKE 1678*148	MSL	MS	09/07/01	09/30/01	09/04/01			METHYL MERCURY	22967-92-6	M	L-40	104	% RECOVERY			0.013
G-TS-29-L	MATRIX SPIKE DUP 1678*148	MSL	MSD	09/07/01	09/30/01	09/04/01			METHYL MERCURY	22967-92-6	M	L-40	113	% RECOVERY			0.013
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	09/31/01		3	BERYLLIUM	7440-41-7	M	L-42	0.005	UG/G WET	U		0.005
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	11/10/01		3	ALUMINUM	7429-90-5	M	L-44	1.37	UG/G WET			1.13
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	11/10/01		3	VANADIUM	7440-62-2	M	L-44	0.0419	UG/G WET	J		0.160
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	11/10/01		3	CHROMIUM	7440-47-3	M	L-44	0.121	UG/G WET	J		0.271
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	11/10/01		3	MANGANESE	7439-96-5	M	L-44	1.36	UG/G WET			0.018
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	11/10/01		3	IRON	7439-89-6	M	L-44	238	UG/G WET			0.399
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	09/31/01		3	COBALT	7440-48-4	M	L-42	0.00928	UG/G WET	J		0.379
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	09/31/01		3	NICKEL	7440-02-0	M	L-42	0.0127	UG/G WET	J		0.323
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	09/31/01		3	COPPER	7440-50-8	M	L-42	3.68	UG/G WET			0.073
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	11/10/01		3	ZINC	7440-66-6	M	L-44	19.7	UG/G WET			0.109
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	09/31/01		3	ARSENIC	7440-38-2	M	L-42	0.0499	UG/G WET	B		0.034
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	11/07/01		3	SELENIUM	7782-49-2	M	MSL-I-30	0.527	UG/G WET			0.451
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	09/31/01		3	MOLYBDENUM	13939-06-5	M	L-42	0.807	UG/G WET			0.325
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	11/10/01		3	SILVER	7440-22-4	M	L-44	0.061	UG/G WET	U		0.061
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	09/31/01		3	CADMIUM	7440-43-9	M	L-42	0.0136	UG/G WET	J		0.201
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	09/31/01		3	ANTIMONY	7440-36-0	M	L-42	0.00461	UG/G WET	J		0.034
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	09/31/01		3	BARIUM	7440-39-3	M	L-42	0.0411	UG/G WET	B		0.011
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	09/31/01		3	THALLIUM	7440-28-0	M	L-42	0.00902	UG/G WET	J		0.023
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	09/31/01		3	LEAD	7439-92-1	M	L-42	0.181	UG/G WET			0.023
A-TS-46-L	1678*140 DUPLICATE	MSL	DUPLICATE	09/09/01	09/27/01	09/30/01		3	MERCURY	7439-97-6	M	L-41	0.0411	UG/G WET			0.0023

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
	BLANK SPIKE		0.7	N/A	AES	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	AES	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	AES	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	AES	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	ICP-MS	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	ICP-MS	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	ICP-MS	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	AES	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	ICP-MS	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	FIAS	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	ICP-MS	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	AES	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	ICP-MS	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	ICP-MS	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	ICP-MS	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	ICP-MS	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	ICP-MS	0.300	G_DRY				T
	BLANK SPIKE		0.7	N/A	CVAA	0.300	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; ICP-MS	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; AES	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; AES	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; AES	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; AES	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; AES	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; ICP-MS	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; ICP-MS	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; ICP-MS	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; AES	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; ICP/MS	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; FIAS	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; ICP-MS	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; AES	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; ICP-MS	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; ICP-MS	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; ICP/MS	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; ICP-MS	0.246	G_DRY				T
A-TS-48-L	MATRIX SPIKE 1678*141		0.826	N/A	Tree Swallow Nestling Liver; ICP-MS	0.246	G_DRY				T
G-TS-29-L	MATRIX SPIKE 1678*148		1.00	N/A	Tree Swallow Nestling Liver; CVAF	0.073	G_DRY				T
G-TS-29-L	MATRIX SPIKE DUP 1678*148		1.00	N/A	Tree Swallow Nestling Liver; CVAF	0.073	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; ICP-MS	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; AES	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; AES	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; AES	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; AES	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; AES	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; ICP-MS	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; ICP-MS	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; ICP-MS	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; AES	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; ICP/MS	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; FIAS	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; ICP-MS	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; AES	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; ICP-MS	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; ICP-MS	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; ICP/MS	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; ICP-MS	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; ICP-MS	0.200	G_DRY				T
A-TS-46-L	1678*140 DUPLICATE		1.01	70.5	Tree Swallow Nestling Liver; CVAA	0.200	G_DRY				T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
A-TS-46-L	1676*140 DUPLICATE	MSL	DUPLICATE	09/08/01	09/30/01	09/04/01		3	METHYL MERCURY	22967-92-6	M	L-40	0.0363	UG/G WET			0.0037

SAMPLE_NO	LAB_ID	CRDL_CRDL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
A-TS-46-L	1578*140 DUPLICATE		1.00	70.5	Tree Swallow Nesting Liver, CVAF	0.072	G_DRY				T

Section 5
DCM Extractable Lipid Content Results

Tree Swallow Tissue and QC Results

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
L-TS-69-N	W6502DUP	BATD	DUPLICATE	06/12/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	4.00	%WET			0.01
L-TS-70-N	W6500	BATD	NORMAL	06/07/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	7.03	%WET			0.01
L-TS-69-N	W6502	BATD	NORMAL	06/12/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	5.90	%WET			0.01
A-TS-35-N	W6488	BATD	NORMAL	06/12/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	5.36	%WET			0.01
A-TS-46-N	W6489	BATD	NORMAL	06/06/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	8.51	%WET			0.01
A-TS-48-N	W6490	BATD	NORMAL	06/07/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	3.55	%WET			0.01
A-TS-49-N	W6491	BATD	NORMAL	06/12/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	4.22	%WET			0.01
A-TS-57-N	W6492	BATD	NORMAL	06/06/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	3.24	%WET			0.01
G-TS-02-N	W6493	BATD	NORMAL	05/30/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	2.58	%WET			0.01
G-TS-04-N	W6494	BATD	NORMAL	06/09/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	4.68	%WET			0.01
G-TS-07-N	W6495	BATD	NORMAL	05/30/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	6.31	%WET			0.01
G-TS-22-N	W6496	BATD	NORMAL	06/07/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	5.16	%WET			0.01
G-TS-29-N	W6497	BATD	NORMAL	06/07/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	11.19	%WET			0.01
L-TS-62-N	W6498	BATD	NORMAL	06/08/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	6.19	%WET			0.01
L-TS-63-N	W6499	BATD	NORMAL	06/08/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	8.51	%WET			0.01
L-TS-64-N	W6501	BATD	NORMAL	06/09/01	10/16/01	10/17/01		01-380	Lipid Content		Wet	BATD_SOP_5_190	5.42	%WET			0.01

SAMPLE_NO	LAB_ID	CRDL_CRQL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
L-TS-89-N	W6502DUP		1.000	60.91	DCM Extractable Lipid	3.45	G_WET	4.00			T
L-TS-70-N	W6500		1.000	60.57	DCM Extractable Lipid	3.63	G_WET	7.03			T
L-TS-89-N	W6502		1.000	60.91	DCM Extractable Lipid	3.76	G_WET	5.90			T
A-TS-35-N	W6488		1.000	59.93	DCM Extractable Lipid	5.49	G_WET	5.36			T
A-TS-46-N	W6489		1.000	59.20	DCM Extractable Lipid	5.07	G_WET	8.51			T
A-TS-48-N	W6490		1.000	62.84	DCM Extractable Lipid	5.25	G_WET	3.55			T
A-TS-49-N	W6491		1.000	57.09	DCM Extractable Lipid	4.34	G_WET	4.22			T
A-TS-57-N	W6492		1.000	64.25	DCM Extractable Lipid	5.37	G_WET	3.24			T
G-TS-02-N	W6493		1.000	73.59	DCM Extractable Lipid	6.25	G_WET	2.59			T
G-TS-04-N	W6494		1.000	62.44	DCM Extractable Lipid	4.10	G_WET	4.68			T
G-TS-07-N	W6495		1.000	71.52	DCM Extractable Lipid	6.71	G_WET	6.31			T
G-TS-22-N	W6496		1.000	61.70	DCM Extractable Lipid	5.14	G_WET	8.18			T
G-TS-29-N	W6497		1.000	64.65	DCM Extractable Lipid	5.60	G_WET	11.19			T
L-TS-62-N	W6498		1.000	61.60	DCM Extractable Lipid	5.29	G_WET	6.19			T
L-TS-63-N	W6499		1.000	62.18	DCM Extractable Lipid	4.78	G_WET	8.51			T
L-TS-84-N	W6501		1.000	63.30	DCM Extractable Lipid	5.42	G_WET	5.42			T

SAMPLE_NO	LAB_ID	LABORATORY	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	CASE	SDG	PARAMETER	CAS_NO	CLASS	METHOD	LAB_RESULT	UNITS	LAB_QUAL	IDL	MDL
L-TS-73-P	W4947DUP	BATD	DUPLICATE	05/30/01	10/23/01	10/25/01		01-568	Lipid Content		Wet	BATD_SOP_5_190	5.79	%WET			0.01
A-TS-33-P	W4941	BATD	NORMAL	06/09/01	10/23/01	10/25/01		01-568	Lipid Content		Wet	BATD_SOP_5_190	3.10	%WET			0.01
L-TS-73-P	W4947	BATD	NORMAL	05/30/01	10/23/01	10/25/01		01-568	Lipid Content		Wet	BATD_SOP_5_190	4.49	%WET			0.01
A-TS-39-P	W4942	BATD	NORMAL	06/12/01	10/23/01	10/25/01		01-568	Lipid Content		Wet	BATD_SOP_5_190	7.42	%WET			0.01
A-TS-42B-P	W4943	BATD	NORMAL	06/07/01	10/23/01	10/25/01		01-568	Lipid Content		Wet	BATD_SOP_5_190	3.58	%WET			0.01
G-TS-01-P	W4944	BATD	NORMAL	05/21/01	10/23/01	10/25/01		01-568	Lipid Content		Wet	BATD_SOP_5_190	11.31	%WET			0.01
G-TS-06-P	W4945	BATD	NORMAL	05/31/01	10/23/01	10/25/01		01-568	Lipid Content		Wet	BATD_SOP_5_190	7.74	%WET			0.01
G-TS-19-P	W4946	BATD	NORMAL	06/11/01	10/23/01	10/25/01		01-568	Lipid Content		Wet	BATD_SOP_5_190	16.96	%WET			0.01
L-TS-65-P	W4948	BATD	NORMAL	06/14/01	10/23/01	10/25/01		01-568	Lipid Content		Wet	BATD_SOP_5_190	5.15	%WET			0.01

SAMPLE_NO	LAB_ID	CRDL_CRDL	DIL_FACTOR	PCT_MOIST	COMMENTS	SAMPLE_SIZE	SAMPLE_SIZE_UNITS	FINAL_RESULT	FINAL_QUAL	VALID_COMMENT	FRACTION
L-TS-73-P	W4947DUP		1.000	NA	DCM Extractable Lipid	1.71	G_WET	5.79			T
A-TS-33-P	W4941		1.000	NA	DCM Extractable Lipid	1.26	G_WET	3.10			T
L-TS-73-P	W4947		1.000	NA	DCM Extractable Lipid	1.74	G_WET	4.48			T
A-TS-39-P	W4942		1.000	NA	DCM Extractable Lipid	1.90	G_WET	7.42			T
A-TS-42B-P	W4943		1.000	NA	DCM Extractable Lipid	1.93	G_WET	3.58			T
G-TS-01-P	W4944		1.000	NA	DCM Extractable Lipid	1.75	G_WET	11.31			T
G-TS-05-P	W4945		1.000	NA	DCM Extractable Lipid	1.86	G_WET	7.74			T
G-TS-19-P	W4946		1.000	NA	DCM Extractable Lipid	1.68	G_WET	16.96			T
L-TS-65-P	W4948		1.000	NA	DCM Extractable Lipid	1.83	G_WET	5.15			T

Section 6
Third Party Validation Reports

Validator findings reported here may include results from non-swallow samples (e.g., fish). Only validator findings specific to tree swallow samples are applicable to this data report.

Stan Stapleton
US EPA Approval Signature

May 24, 2002
Date

Ms. Christine Clark
Regional Sample Control Custodian
Office of Environmental Measurement and Evaluation
U.S. EPA Region I
11 Technology Drive
North Chelmsford, MA 01863

May 10, 2002
B-02-05-P-02
Revised: May 23, 2002

Re: TO No. 04, Task No. 2, TDF No. 308
Case No. Swallow Egg B1OF2, SDG No. 48985-18 D/F
Battelle Laboratories - Columbus, OH
Centredale Manor, N. Providence, RI

Dioxin/Furan, TCX, and HCX: 18/Egg/A-TS-35-P, A-TS-38-P, A-TS-42a-P, A-TS-46-P, A-TS-48-P, A-TS-49-P, A-TS-51-P, A-TS-57-P, G-TS-02-P, G-TS-04-P, G-TS-07-P, G-TS-21-P, G-TS-22-P, G-TS-29-P, L-TS-70-P, L-TS-83-P, L-TS-84-P, L-TS-89-P

1/Fish Tissue SRM/CIL EDF 2526

Dear Ms. Clark:

A Tier III data validation was performed on the Dioxin/Furan, TCX and HCX analytical data for eighteen swallow egg tissue samples collected by the U.S. Geological Survey for the U.S. EPA at the Centredale Manor Site in N. Providence, RI. The samples were analyzed according to EPA Method 1613B, September 15, 1997. The samples were validated using first the criteria in the Centredale Manor Tasks 19-22 QAPP (5/23/01) prepared by Battelle Duxbury Operations, which includes the criteria in EPA Method 1613B, September 15, 1997, defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 criteria, and to EPA Region I's Environmental Services Assistance Team Dioxin Data Validation SOP ESAT-01-0007 (01/31/01). The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness (CSF Audit - Tier I)
- * Preservation and Technical Holding Times
- PE Samples/Accuracy Check
- * Window Defining Mix
- Initial and Continuing Calibrations
- Chromatographic Resolution
- * Instrument Sensitivity Check
- Blanks
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample

- Laboratory and Field Duplicates
- * Internal/Clean-Up Standards
- * Sample Analysis and Identification
- Sample Quantitation
- * Estimated Detection Limits (EDL) and Estimated Maximum Possible Concentration (EMPC)
- 2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity
- * Required Sample Reruns and Second Column Confirmation
- System Performance

* - All criteria were met for this parameter.

The following information was used to generate the Data Validation Memorandum attachments:

Table I: Recommendation Summary Table - summarizes validation recommendations

Table II: Overall Evaluation of Data - summarizes site objectives and potential usability issues

Data Summary Tables - summarize accepted, qualified, and rejected data

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives:

- To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan congeners in fish tissue). All congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of less than 30 %D from the consensus value. Since all of the congeners had low recoveries, the results for dioxin/furan in all samples were estimated (J,UJ) due to the possibility of bias low results.

The method blanks exhibited low level contamination. This contamination problem does not have an impact on the usability of the data. Contaminants were found in both the blanks and the field samples. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory were qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination.

Data Validation indicated minor data quality problems which do not significantly impact the usability of the data. See the discussion below for details. The reported results are usable for the site objectives.

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Data Completeness (CSF Audit - Tier I)

The following data or information in the data package had discrepancies and/or was missing:

1. The original chain of custody form was requested from the field sampling contractor or from Battelle Ocean Sciences, Duxbury, MA. There was no information in the data package indicating the date that these samples were collected.

2. **The laboratory was asked to submit the run log for the analysis of sample A-TS-57-P (lab # 48985-18-09, file: 4888338A), analyzed on August 9, 2001.**

3. The laboratory was asked to verify the extraction date of 07/30/01 for sample A-TS-57-P (lab # 48985-18-09) on pages 1471 and 1472, and submit corrected result reports if **necessary. All of the samples appear to have been extracted on 07/27/01.**

   ok. EDD not affected. DJD 8/8/01

4. **The laboratory was asked to submit the missing quantitation report and chromatograms for the fish SRM sample (lab # 48985-18-22) analyzed on 08/08/01, file: 4888337A, S10.**

5. The laboratory was asked to submit the missing initial calibration data (file: 4888402, 08/08/01) for the DB225 confirmation analysis.

6. **The laboratory was asked to submit the % Lipids results for this SDG/batch.**

7. Most of the qualifiers used on the Form I report for sample A-TS-57-P (48985-18-09) (page 1720) were incorrect. The laboratory was asked to resubmit the Form I report for this sample with corrected qualifiers.

8. **The laboratory was asked to submit the spreadsheets summarizing the measured concentrations and recoveries for the MS pair (G-TS-21-P/G-TS-21-P MS; 48985-18-20/48985-18-21), LCS (48985-18-23), and SRM (Fish SRM CIL EDF 2526, 48985-18-22).**

9. The laboratory was asked to submit the spreadsheet summarizing the measured concentrations and RPDs for the laboratory duplicate pair (G-TS-01-P/G-TS-01-P DUP; **48985-18-18/48985-18-19)**

Item 1 was requested via the TOPO on November 19, 2001, December 12, 2001, and March 1, 2002. Items 2 through 5 were requested via the TOPO on November 19, 2001. Item 6 was requested via the TOPO on January 18, 2002, and March 1, 2002. Items 7 through 9 were requested via the TOPO on April 1, 2002. Items 2 through 5 were received via the TOPO on December 12, 2001. **Items 1 and 6 were received via the TOPO on March 15, 2002. Items 7 through 9 were received via the TOPO on April 26, 2002. All items were adequately addressed.**

PE Samples/Accuracy Check

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan congeners in fish tissue). All congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value.

The following table summarizes the SRM sample (44985-18-22 FISH SRM) results which did not meet the criterion and the resulting sample qualifications.

PE Sample Number	Congener	%D	Action	
			Positive Detects	NDs
CIL EDF 2526	2378-TCDD	62	J	UJ
CIL EDF 2526	12378-PeCDD	68	J	UJ
CIL EDF 2526	123478-HxCDD	74	J	UJ
CIL EDF 2526	123678-HxCDD	71	J	UJ
CIL EDF 2526	123789-HxCDD	74	J	UJ
CIL EDF 2526	1234678-HpCDD	71	J	UJ
CIL EDF 2526	OCDD	66	J	UJ
CIL EDF 2526	2378-TCDF	51	J	UJ
CIL EDF 2526	12378-PeCDF	65	J	UJ
CIL EDF 2526	23478-PeCDF	67	J	UJ
CIL EDF 2526	123478-HxCDF	68	J	UJ
CIL EDF 2526	123678-HxCDF	69	J	UJ
CIL EDF 2526	123789-HxCDF	72	J	UJ
CIL EDF 2526	234678-HxCDF	69	J	UJ
CIL EDF 2526	1234678-HpCDF	70	J	UJ
CIL EDF 2526	1234789-HpCDF	69	J	UJ
CIL EDF 2526	OCDF	65	J	UJ

Since all congeners had low recoveries as indicated by the large %Ds, the results for dioxin/furans in all the samples were estimated (J,UJ) due to the possibility of biased low results.

The laboratory documented in their report that the low recoveries of the congeners in the SRM may be due to the lipid content. The laboratory indicated that for future analyses of associated samples the SRM preparation procedures will be modified.

Initial and Continuing Calibrations

- Initial Calibration

The following table summarizes the Initial Calibration (IC) results which did not meet the criterion specified in the Centredale Manor Tasks 19-22 QAPP (5/23/01) of RSD ≤25% and the resulting sample qualifications:

IC Date	Compound	% RSD	Action		Affected Samples
			Positive Detects	NDs	
07/19/01	TCX	30	J	UJ	All

The data associated with the noncompliant initial calibrations are qualified due to the high variability. The quantitation of the analytes in the samples could be biased.

- Continuing Calibration

The following table summarizes the Calibration Verification (VER) result which did not meet Centredale Manor Tasks 19-22 QAPP (5/23/01) recovery criterion and the resulting sample qualifications:

VER Date	Compound	Recovery (ng/mL)	Acceptable Recovery Range (ng/mL)	Action		Affected Samples
				Positive Detects	NDs	
08/08/01	$^{13}C_{12}$-1234789-HpCDF	131	75-129	J	UJ	[illegible]

The data associated with the noncompliant calibration verification are qualified due to the high recovery. The quantitation of the associated analyte (1234789-HpCDF) in the samples could be biased.

Chromatographic Resolution

The hexachloroxanthene (HCX) peaks exhibit poor chromatography, i.e., broad shape. The broad peak shape created irregularities in the response factors used to calculate the concentrations of HCX. Therefore, professional judgment was used to estimate (J, UJ) all HCX results due to the poor chromatography.

Blanks

All of the blanks associated with this SDG were evaluated for contamination. The following tables list the highest concentration of analytes found in the various blanks associated with these samples. The table lists the contamination found in the blanks along with the action levels and the affected samples:

Congener	Type of Blank	Blank Concentration* (Total pg)	Action Level* (Total pg)	Affected Samples
OCDD	Method Blank (8/5/01)	27	270	A-TS-51-P
2378-TCDF	Method Blank (8/10/01)	1.3	12	G-TS-02-P, G-TS -07-P
12378-PeCDF	Method Blank (8/5/01)	1.4	7.0	A-TS-42n-P, A-TS-46-P, A-TS-48-P, A-TS-49-P, G-TS-02-P, G-TS-04-P, G-TS-22-P, L-TS-89-P
23478-PeCDF	Method Blank (8/5/01)	1.0	5.0	G-TS-02-P, G-TS-07-P
123478-HxCDF	Method Blank (8/5/01)	1.4	7.0	G-TS-07-P, G-TS-21-P
123678-HxCDF	Method Blank (8/5/01)	0.75	3.8	G-TS-07-P
234678-HxCDF	Method Blank (8/5/01)	0.55	2.8	G-TS-07-P
1234789-HpCDF	Method Blank (8/6/01)	0.60	3.0	A-TS-38-P, A-TS-42n-P, A-TS-48-P, G-TS-04-P, G-TS-21-P
OCDF	Method Blank (8/9/01)	1.6	16	A-TS-38-P, A-TS-42n-P, A-TS-51-P, G-TS-07-P, G-TS-29-P
Total PeCDD	Method Blank (8/7/01)	4.7	47	A-TS-35-P, A-TS-42n-P, A-TS-46-P, A-TS-48-P, A-TS-49-P, A-TS-51-P, A-TS-52-P, G-TS-02-P, G-TS-04-P, G-TS-21-P, G-TS-29-P, L-TS-70-P, L-TS-84-P, L-TS-89-P
Total PeCDF	Method Blank (8/5/01)	2.4	24	A-TS-46-P, A-TS-48-P, A-TS-49-P, A-TS-37-P, G-TS-02-P, G-TS-04-P, G-TS-07-P, G-TS-21-P, G-TS-22-P, L-TS-84-P, L-TS-89-P
Total HxCDF	Method Blank (8/5/01)	2.8	28	G-TS-07-P, G-TS-21-P
Total HpCDF	Method Blank (8/6/01)	2.0	20	A-TS-51-P

* Blank values and action levels are listed in units of total pg because the sample weights vary from 1.2 to 7.0 grams. The affected samples were determined by comparing the total pg of each congener in the samples to its respective action level.

Blank actions are based on Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 and EPA Region I's Environmental Services Assistance Team Dioxin Data Validation SOP ESAT-01-0007 (01/31/01) criteria. Blank action levels are calculated as ten times the highest concentration of the contaminant determined in any blank for common contaminants (OCDD/OCDF and Total Homologues) and five times the highest concentration for all other analytes. The positive sample results that are less than the blank action level are reported as non-detects (U) at the reported concentration on the Data Summary Table.

Matrix Spike/Matrix Spike Duplicate

One MS sample was evaluated for this SDG: G-TS-21-P MS. No Matrix Spike Duplicate (MSD) was performed with this SDG. The MS/MSD precision (RPD) could not be evaluated.

The following table summarizes the egg tissue MS result which did not meet the recovery criterion of 50-120% as documented in the Centredale Manor Tasks 19-22 QAPP (5/23/01):

G-TS-21-P					
Congener	MS % Rec.	MSD % Rec.	RPD	Action	
				Positive Detect	NDs
TCX	15	NA	NA	J	Raise Detection Limit

NA Not Applicable

Due to the low % recovery of the TCX in the Matrix Spike (MS) and the Lab Control Sample (LCS), professional judgment was used to estimate (J) the positive result in sample A-TS-48-P and to raise the detection limits for the non-detected results to the corresponding level of the TCX in the LCS.

Laboratory Control Sample

The laboratory extracted and analyzed one OPR/LCS with this group of samples. The following table summarizes the Ongoing Precision and Recovery (OPR) results which did not meet the Centredale Manor Tasks 19-22 QAPP (5/23/01) criterion and the resulting sample qualifications:

OPR Date	Compound	% Recovery	% Recovery Range	Action		Affected Samples
				Positive Detect	NDs	
09/5/01	TCX	43	50-120	J	Raise Detection Limit	All

Due to the low % recovery of the TCX in the Matrix Spike (MS) and the Lab Control Sample (LCS), professional judgment was used to estimate (J) the positive result in sample A-TS-48-P and to raise the detection limits for the non-detected results to the corresponding level of the TCX in the LCS.

Laboratory and Field Duplicates

One laboratory duplicate pair was evaluated for this SDG (G-TS-07-P/G-TS-07-P DUP).

The table below summarizes the egg laboratory duplicate results which did not meet the duplicate criterion of Relative Percent Difference (RPD) < 30% for the Centredale Manor Tasks 19-22 QAPP (5/23/01).

G-TS-07-P					
Congener	Sample Conc. (ng/Kg)	Duplicate Conc. (ng/Kg)	RPD	Action	Affected Sample
				Positive Detects	
1234678-HpCDD	292.99	474.74	47	J	G-TS-07-P
OCDD	637.85	1013.81	46	J	G-TS-07-P

The positive results were estimated (J) for 1234678-HpCDD and OCDD in sample G-TS-07-P since the laboratory duplicate precision was outside criterion.

Sample Quantitation

Concentrations quantitated and reported by the laboratory below the lowest calibration standard are flagged (J) on the Data Summary Table. Quantitation is not accurate when the reported results are below the lowest calibration standard. The percent solids/lipids were not analyzed due to the limited amount of sample available, and are listed as (NA) on the Data Summary Table.

The detection limits for HCX correspond to the concentration in the lowest HCX calibration standard.

2378-TCDD Toxicity Equivalents (TEQ) and Isomer Specificity

All TE values were calculated by the ESAT data validator using the validated data discussed above in this report. The validated data accounts for blank contamination. The TE calculations include the reported EMPC values. TE values in the Data Summary Table differ slightly from the values reported by the laboratory. The validator used the Bird TEF values published in Environmental Health Perspectives, Volume 106, Number 12, December 1998, "Toxic Equivalency factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife."

Required Sample Reruns and Second Column Confirmation

Concentrations reported from the confirmation analysis are flagged with a ($) on the Data Summary Table.

System Performance

No trends were noted with the dioxin/furan analysis. The results for HCX and TCX indicated analytical problems. The problems included: noncompliant initial calibration for TCX; poor HCX chromatography; low LCS/OPR recovery for TCX; and low MS recovery for TCX. Professional judgment was used to estimate (J) the positive TCX result and to raise the detection limits for the non-detects to the level of the TCX in the LCS.

Very truly yours,

LOCKHEED ENVIRONMENTAL

Robert Peary
Scientist

Louis Macri
ESAT Program Manager

cc: Cornell Rosiu, EPA RPM (DV Memorandum, Data Summary Table)

Attachments: Table I: Recommendation Summary Table
Table II: Overall Evaluation of Data
Data Summary Tables
Data Validation Worksheets
PE Score Reports
Analytical Method
Communications
Field Sampling Notes

Table I
Recommendation Summary Table for Dioxins/Furans
Centredale Manor Site
Case No.: Swallow Egg and Diet B1OF2 / SDG No.: 48985-18 D/F

Sample Nos.	A-TS-35-P	A-TS-38-P	A-TS-42a-P	A-TS-46-P	A-TS-48-P	A-TS-49-P	A-TS-51-P	A-TS-57-P	G-TS-02-P
Compound									
2378-TCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
12378-PeCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123478-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123678-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123789-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234678-HpCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
OCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1,5]	J[1]	J[1]
2378-TCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1,5]
12378-PeCDF	J[1]	J[1]	J[1,5]	J[1,5]	J[1,5]	J[1,5]	J[1]	J[1]	J[1,5]
23478-PeCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1,5]
123478-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123678-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123789-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
234678-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234678-HpCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234789-HpCDF	J[1]	J[1,5]	J[1,5]	J[1]	J[1,5]	J[1]	J[1]	J[1]	J[1]
OCDF	J[1]	J[1,5]	J[1,5]	J[1]	J[1]	J[1]	J[1,5]	J[1]	J[1]
HCX	J[4]	J[4]	J[4]	J[4]	J[4]	J[4]	J[4]	J[4]	J[4]
TCX	J[2,9]	J[2,9]	J[2,9]	J[2,9]	J[2,6,7]	J[2,9]	J[2,9]	J[2,9]	J[2,9]

Table I
Recommendation Summary Table for Dioxins/Furans
Centredale Manor Site
Case No.: Swallow Egg and Diet B1OF2 / SDG No.: 48985-18 D/F

Sample Nos.	G-TS-04-P	G-TS-07-P	G-TS-21-P	G-TS-22-P	G-TS-29-P	L-TS-70-P	L-TS-83-P	L-TS-84-P	L-TS-89-P
Compound									
2378-TCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
12378-PeCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123478-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123678-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123789-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234678-HxCDD	J[1]	J[1,8]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
OCDD	J[1]	J[1,8]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
2378-TCDF	J[1]	J[1,5]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
12378-PeCDF	J[1,5]	J[1]	J[1]	J[1,5]	J[1]	J[1]	J[1]	J[1]	J[1,5]
23478-PeCDF	J[1]	J[1,5]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123478-HxCDF	J[1]	J[1,5]	J[1,5]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123678-HxCDF	J[1]	J[1,5]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123789-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
234678-HxCDF	J[1]	J[1,5]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234678-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234789-HxCDF	J[1,5]	J[1]	J[1,3,5]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1,3]
OCDF	J[1]	J[1,5]	J[1]	J[1]	J[1,5]	J[1]	J[1]	J[1]	J[1]
HCX	J[4]	J[4]	J[4]	J[4]	J[4]	J[4]	J[4]	J[4]	J[4]
TCX	J[2,9]	J[2,9]	J[2,9]	J[2,9]	J[2,9]	J[2,9]	J[2,9]	J[2,9]	J[2,9]

Table I
Recommendation Summary Table for Dioxins/Furans

A	-	Accept results.
J^1	-	SRM %D outside criterion; J detects, UJ non-detects.
J^2	-	Initial calibration outside criterion; J detects, UJ non-detects.
J^3	-	Continuing calibration outside criterion; J detects, UJ non-detects.
J^4	-	Poor chromatography; J detects, UJ non-detects.
J^5	-	Method blank contamination; positive sample results less than the blank action level are reported as non-detects (U) at the concentration reported.
J^6	-	MS recovery outside criterion; J detects.
J^7	-	OPR/LCS recovery outside criterion; J detects.
J^8	-	Laboratory duplicate precision (%D) outside criteria; J detects.
J^9	-	The detection limits were raised due to poor MS and LCS recoveries.

EPA-NE - Data Validation Worksheet

Overall Evaluation of Data - Data Validation Memorandum - Table II

DIOXIN/FURAN ANALYSIS					
DQO (list all DQOs)	Sampling* and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability	Potential Usability Issues
		Analytical Error	Sampling Error		
To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.	Yes, Sampling Method appropriate for all samples Yes, Analytical Method appropriate for all samples.	Refer to qualification in R/S Key on Table I: [1,2,3,4,5,6,7,8,9]	Refer to qualification in R/S Key on Table I: None	**	One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan congeners in fish tissue). All congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criteria of less than 30% D from the consensus value. Since all of the congeners had low recoveries, the results for dioxin/furan in all samples were estimated (J,UJ) due to the possibility of bias low results. The method blanks exhibited low level contamination. This contamination problem does not have an impact on the usability of the data. Contaminants were found in both the blanks and the field samples. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory were qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination. Data Validation indicated minor data quality problems which do not significantly impact the usability of the data. See the discussion in the data validation memorandum for details. The reported results are usable for the site objectives.

* The evaluation of "sampling error" cannot be completely assessed in the data validation.

** Sampling variability is not assessed in data validation.

Validator: RAN

Date: 5/23/02

Data Summary Table

Dioxin/Furan Analysis - Egg Samples (ng/kg wet weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO.: Swallow Egg and Chk 01-OF2 SDG NO.: 49885-18 D/F
LABORATORY: Battelle - Columbus, OH

SAMPLE NUMBER	Toxicity Equivalency Factors (1)	A-T8-37-P		A-T8-38-P		A-T8-42a-P		A-T8-41-P		A-T8-40-P		A-T8-39-P	
STATION LOCATION		Allendale Pond		Allendale Pond		Allendale Pond		Allendale Pond		Allendale Pond		Allendale Pond	
MATRIX		Egg		Egg		Egg		Egg		Egg		Egg	
PCDD/PCDF CONC.		ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*
2,3,7,8-TCDD	1.0	41.82 J		180.82 J		410.39 J		175.97 J		[illegible] J		192.51 J	
1,2,3,7,8-PeCDD	1.0	5.46 J		29.08 J		5.66 J		4.08 J		4.04 J		4.60 J	
1,2,3,4,7,8-HxCDD	0.05	6.44 J		76.69 J		5.71 J		3.79 J		4.85 J		4.36 J	
1,2,3,6,7,8-HxCDD	0.01	48.34 J		187.31 J		97.66 J		32.88 J		28.46 J		60.59 J	
1,2,3,7,8,9-HxCDD	0.1	8.29 J		11.61 J		6.19 J		5.69 J		4.19 J		5.54 J	
1,2,3,4,6,7,8-HpCDD	<0.001	344.71 J		330.58 J		187.62 J		194.07 J		[illegible] J		322.49 J	
OCDD	0.0001	[illegible] J		353.99 J		198.80 J		314.72 J		[illegible] J		[illegible] J	
2,3,7,8-TCDF	1.0	9.65 JB		8.60 JB		19.91 JB		5.97 JB		7.37 JB		6.67 JB	
1,2,3,7,8-PeCDF	0.1	3.78 J		6.01 J		UJ	2.73	UJ	2.24	UJ	2.21	UJ	2.22
2,3,4,7,8-PeCDF	1.0	4.98 J		12.09 J		4.35 J		2.64 J		3.13 J		3.50 J	
1,2,3,4,7,8-HxCDF	0.1	7.00 J		7.99 J		4.53 J		3.72 J		3.27 J		5.56 J	
1,2,3,6,7,8-HxCDF	0.1	5.91 J		7.63 J		3.67 J		3.82 J		3.06 J		3.78 J	
1,2,3,7,8,9-HxCDF	0.1	0.40 J		UJ	0.66	UJ	0.42	UJ	0.38	UJ	0.41	UJ	0.50
2,3,4,6,7,8-HxCDF	0.1	4.12 J		4.66 J		2.82 J		2.60 J		2.19 J		2.83 J	
1,2,3,4,6,7,8-HpCDF	0.01	84.47 J		21.62 J		25.80 J		82.36 J		[illegible] J		48.64 J	
1,2,3,4,7,8,9-HpCDF	0.01	2.61 J		UJ	0.64	UJ	1.92	1.78 J		UJ	0.61	2.11 J	
OCDF	0.0001	37.58 J		UJ	4.66	UJ	5.02	11.50 J		8.82 J		9.48 J	
TOTAL TCDD		41.82 J		180.82 J		410.39 J		175.97 J		[illegible] J		192.51 J	
TOTAL PeCDD		UJ	5.46	32.89 J		UJ	5.66	UJ	4.08	UJ	4.04	UJ	4.60
TOTAL HxCDD		69.80 J		240.21 J		80.38 J		44.05 J		36.84 J		82.82 J	
TOTAL HpCDD		346.57 J		351.89 J		190.27 J		194.07 J		[illegible] J		322.49 J	
TOTAL TCDF		12.49 J		18.74 J		10.94 J		6.69 J		7.64 J		6.99 J	
TOTAL PeCDF		12.92 J		18.10 J		28.06 J		UJ	6.38	UJ	7.76	UJ	6.66
TOTAL HxCDF		33.60 J		24.57 J		13.96 J		16.61 J		11.04 J		16.28 J	
TOTAL HpCDF		105.72 J		23.46 J		32.29 J		82.79 J		37.26 J		55.63 J	
HEX - Hexachlorobenzene		UJ	79.07	UJ	55.45	UJ	76.18	UJ	68.67	UJ	72.30	UJ	84.69
TCX - Tetrachlorocarbon		UJ	1600	UJ	1100	UJ	1500	UJ	1400	3.05 J		UJ	1600
TOXIC EQUIVALENT (1)		86 J		240 J		440 J		190 J		200 J		320 J	
PERCENT SOLIDS		NA		NA		NA		NA		NA		NA	
PERCENT LIPIDS		NA		NA		NA		NA		NA		NA	
DILUTION FACTOR		1.0		1.0		1.0		1.0		1.0		1.0	
DATE SAMPLED		05/29/01		05/29/01		05/30/01		05/29/01		[illegible]		[illegible]	
DATE OF RECEIPT		07/11/01		07/11/01		07/11/01		07/11/01		07/11/01		07/11/01	
SAMPLE EXTRACTION DATE		07/27/01		07/27/01		07/27/01		07/27/01		07/27/01		07/27/01	
ANALYSIS DATE		[illegible]		[illegible]		08/06/01		08/06/01		[illegible]		[illegible]	
LAB SAMPLE ID		[illegible]-19-02		49885-19-03		49885-19-04		49885-19-05		[illegible]		[illegible]-19-07	

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.

(1) = The Toxic Equivalency concentrations are calculated with the Toxicity Equivalency Factors (TEFs) for Birds found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume [illegible], Number 12, December [illegible], Table 3, page 782.

< = The expected upper limit of the TEF values for the congener in birds.

B = Result reported from confirmation analysis

Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.

NA = Not Analyzed, due to limited amount of sample available.

Data Summary Table

Dioxin/Furan Analysis - Egg Samples (ng/kg wet weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO.: Baseline Egg and Diet 8HOFZ SDG NO.: ab985-18 D/F
LABORATORY: Battelle - Columbus, OH

SAMPLE NUMBER:	Toxicity	A-TS-01-P		A-TS-01-P		G-TS-02-P		G-TS-04-P		G-TS-07-P		G-TS-21-P	
STATION LOCATION:	Equivalency	Allendale Pond		Allendale Pond		Greenlane Mill Pond		Greystone Mill Pond		Greystone Mill Pond		Greystone Mill Pond	
MATRIX:	Factors (1)	Egg		Egg		Egg		Egg		Egg		Egg	
PCDD/PCDF CONC.:		ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*
2,3,7,8-TCDD	1.0	426.84 J		560.63 J		8.14 J		13.31 J		10.68 J		284.87 J	
1,2,3,7,8-PeCDD	1.0	7.79 J		9.44 J		2.09 J		4.68 J		UJ	0.62	7.13 J	
1,2,3,4,7,8-HxCDD	0.06	9.17 J		19.27 J		4.07 J		6.01 J		2.71 J		6.12 J	
1,2,3,6,7,8-HxCDD	0.01	19.83 J		61.57 J		51.96 J		23.58 J		16.49 J		27.54 J	
1,2,3,7,8,9-HxCDD	0.1	3.29 J		11.27 J		5.18 J		8.49 J		3.37 J		6.01 J	
1,2,3,4,6,7,8-HpCDD	0.0001	28.53 J		409.54 J		428.00 J		119.53 J		182.99 J		279.24 J	
OCDD	0.0001	UJ	26.62	1042.98 J		998.11 J		189.14 J		337.85 J		947.51 J	
2,3,7,8-TCDF	1.0	16.24 JS		11.08 JS		UJS	3.84	6.22 JS		UJS	1.94	10.82 JS	
1,2,3,7,8-PeCDF	0.1	2.98 J		5.03 J		UJ	1.17	UJ	2.32	UJ	1.80	4.41 J	
2,3,4,7,8-PeCDF	1.0	5.40 J		UJ	2.66	UJ	1.85	2.65 J		UJ	0.65	5.04 J	
1,2,3,4,7,8-HxCDF	0.1	2.20 J		5.80 J		4.35 UJ		3.88 J		UJ	2.78	UJ	3.98
1,2,3,6,7,8-HxCDF	0.1	2.39 J		7.28 J		3.33 J		2.94 J		UJ	2.00	3.62 J	
1,2,3,7,8,9-HxCDF	0.1	UJ	0.65	UJ	4.68	UJ	0.76	UJ	0.95	UJ	1.09	UJ	1.10
2,3,4,6,7,8-HxCDF	0.1	1.35 J		4.84 J		2.19 J		1.48 J		UJ	1.29	2.08 J	
1,2,3,4,6,7,8-HpCDF	0.01	2.71 J		71.01 J		46.74 J		20.62 J		32.98 J		38.89 J	
1,2,3,4,7,8,9-HpCDF	0.01	UJ	0.46	4.47 J		3.02 J		UJ	0.69	2.48 J		UJ	1.74
OCDF	0.0001	UJ	0.87	64.84 J		14.86 J		10.62 J		UJ	7.50	19.68 J	
TOTAL TCDD		426.84 J		560.63 J		8.14 J		13.31 J		10.68 J		284.87 J	
TOTAL PeCDD		UJ	7.79	UJ	12.92	UJ	6.04	UJ	6.83	UJ	0.62	UJ	7.13
TOTAL HxCDD		33.34 J		105.78 J		54.94 J		32.09 J		20.16 J		40.38 J	
TOTAL HpCDD		28.53 J		409.54 J		428.00 J		119.53 J		182.99 J		279.24 J	
TOTAL TCDF		22.28 J		16.62 J		4.19 J		7.66 J		2.19 J		12.61 J	
TOTAL PeCDF		12.40 J		UJ	5.03	UJ	4.59	UJ	7.46	UJ	0.85	UJ	11.60
TOTAL HxCDF		8.38 J		33.93 J		14.81 J		11.77 J		UJ	6.82	UJ	14.99
TOTAL HpCDF		UJ	2.71	112.86 J		61.88 J		28.23 J		39.82 J		50.62 J	
HCX - Hexachlorobenzene		UJ	42.69	UJ	67.70	UJ	67.74	UJ	19.84	UJ	180.39	UJ	117.93
TCX - Tetrachlorooxanthrene		UJ	880	UJ	1400	UJ	1400	UJ	1500	UJ	2600	UJ	2400
TOXICITY EQUIVALENCY (1):		480 J		560 J		13 J		30 J		12 J		310 J	
PERCENT SOLIDS:		NA		NA		NA		NA		NA		NA	
PERCENT LIPIDS:		NA		NA		NA		NA		NA		NA	
DILUTION FACTOR:		1.0		1.0		1.0		1.0		1.0		1.0	
DATE SAMPLED:		05/23/01		05/23/01		05/21/01		05/29/01		05/21/01		05/25/01, 05/27/01	
DATE OF RECEIPT:		07/11/01		07/11/01		07/11/01		07/11/01		07/11/01		07/11/01	
SAMPLE EXTRACTION DATE:		07/27/01		07/27/01		07/27/01		07/27/01		07/27/01		07/27/01	
ANALYSIS DATE:		08/05/01		08/05/01		08/05/01		08/07/01		08/07/01		08/07/01	
LAB SAMPLE ID:		ab985-18-08		ab985-18-09		ab985-18-10		ab985-18-11		ab985-18-19		ab985-18-20	

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are flagged with a "*". The DL values are unmodified. The EMPC values are not qualified with a "J", since they are already estimated.

(1) = The Toxicity Equivalency concentrations are calculated with the Toxicity Equivalency Factors (TEF's) for Birds found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number 12, December 1998, Table 3, page 782.

< = The reported upper limit of the TEF values for the congener in birds.

S = Result reported from confirmation analysis.

Concentrations reported by the laboratory below the lowest standard are Flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table 1.

NA = Not Analyzed, due to limited amount of sample available.

Data Summary Table

Dioxin/Furan Analysis - Egg Samples (wet weight)

SITE: Cornwallville Manor - N. Freedomia, RI
CASE NO.: Beaver Egg and Diet 01OFZ SDG NO.: [illegible]-15 DF
LABORATORY: [illegible] - Columbus, OH

SAMPLE NUMBER:	Toxicity	G-TS-22-P		G-TS-29-P		L-TS-70-P		L-TS-83-P		[illegible]		[illegible]	
STATION LOCATION:	Equivalency	Greystone Mill Pond		Greystone Mill Pond		Lyntonville Pond		Lyntonville Pond		Lyntonville Pond		Lyntonville Pond	
MATRIX:	Factors (1)	Egg		Egg		Egg		Egg		Egg		Egg	
PCDD/PCDF CONC.		ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC*	ng/Kg	DL/EMPC*
2,3,7,8-TCDD	1.0	[illegible] J		15.17 J		688.13 J		[illegible] J		[illegible] J		[illegible] J	
1,2,3,7,8-PeCDD	1.0	7.29 J		4.80 J		6.96 J		14.96 J		[illegible] J		7.88 J	
1,2,3,4,7,8-HxCDD	0.05	[illegible] J		5.30 J		8.47 J		16.64 J		9.22 J		[illegible] J	
1,2,3,6,7,8-HxCDD	0.01	[illegible] J		22.24 J		80.62 J		142.44 J		[illegible] J		[illegible] J	
1,2,3,7,8,9-HxCDD	0.1	7.21 J		4.80 J		5.94 J		8.79 J		[illegible] J		[illegible] J	
1,2,3,4,6,7,8-HpCDD	<0.001	[illegible] J		83.71 J		239.61 J		380.52 J		[illegible] J		[illegible] J	
OCDD	0.0001	2070.23 J		101.33 J		411.14 J		591.32 J		[illegible] J		[illegible] J	
2,3,7,8-TCDF	1.0	[illegible] JB		15.00 JB		10.18 JB		17.80 JB		[illegible] JB		[illegible] JB	
1,2,3,7,8-PeCDF	0.1	UJ	3.63	2.12 J		9.38 J		8.30 J		3.17 J		UJ	2.81
2,3,4,7,8-PeCDF	1.0	[illegible] J		2.72 J		13.95 J		8.99 J		[illegible] J		[illegible] J	
1,2,3,4,7,8-HxCDF	0.1	[illegible] J		3.72 J		10.68 J		10.98 J		[illegible] J		[illegible] J	
1,2,3,6,7,8-HxCDF	0.1	[illegible] J		3.81 J		7.16 J		9.32 J		[illegible] J		[illegible] J	
1,2,3,7,8,9-HxCDF	0.1	UJ	2.78	UJ	0.93	UJ	1.33	0.35 J		UJ	1.20	[illegible] J	
2,3,4,6,7,8-HxCDF	0.1	2.03 J		1.98 J		3.74 J		6.93 J		[illegible] J		2.94 J	
1,2,3,4,6,7,8-HpCDF	0.01	[illegible] J		17.58 J		48.62 J		78.84 J		[illegible] J		[illegible] J	
1,2,3,4,7,8,9-HpCDF	0.01	4.32 J		1.00 J		1.46 J		4.07 J		[illegible] J		[illegible] J	
OCDF	0.0001	[illegible] J		UJ	3.01	20.89 J		38.92 J		[illegible] J		[illegible] J	
TOTAL TCDD		[illegible] J		15.17 J		688.13 J		[illegible] J		[illegible] J		[illegible] J	
TOTAL PeCDD		[illegible] J		UJ	6.09	UJ	6.95	14.96 J		UJ	10.16	UJ	7.53
TOTAL HxCDD		[illegible] J		[illegible] J		96.54 J		170.04 J		[illegible] J		[illegible] J	
TOTAL HpCDD		[illegible] J		93.71 J		243.84 J		[illegible] J		[illegible] J		[illegible] J	
TOTAL TCDF		[illegible] J		19.87 J		10.73 J		24.31 J		[illegible] J		92.77 J	
TOTAL PeCDF		UJ	11.68	9.22 J		24.71 J		28.10 J		UJ	9.42	UJ	7.39
TOTAL HxCDF		[illegible] J		16.06 J		29.84 J		35.82 J		[illegible] J		22.22 J	
TOTAL HpCDF		107.81 J		22.20 J		57.02 J		96.74 J		[illegible] J		70.61 J	
HCX - Hexachlorobenzene		UJ	162.21	UJ	60.92	UJ	88.08	98.68 J		UJ	81.45	UJ	72.93
TCX - Tetrachlorobenzene		UJ	3200	UJ	1600	UJ	1600	UJ	640	UJ	1600	UJ	1400
TOXICITY EQUIVALENCY (1):		240 J		40 J		720 J		1600 J		1000 J		[illegible] J	
PERCENT SOLIDS:		NA		NA		NA		NA		NA		NA	
PERCENT LIPIDS:		NA		NA		NA		NA		NA		NA	
DILUTION FACTOR:		1.0		1.0		1.0		1.0		1.0		1.0	
DATE SAMPLED:		06/28/01		06/28/01		06/28/01		06/28/01		[illegible]		[illegible]	
DATE OF RECEIPT:		07/11/01		07/11/01		07/11/01		07/11/01		[illegible]		[illegible]	
SAMPLE EXTRACTION DATE:		07/27/01		07/27/01		07/27/01		07/27/01		[illegible]		[illegible]	
ANALYSIS DATE:		08/07/01		08/07/01		08/07/01		08/07/01		[illegible]		[illegible]	
LAB SAMPLE ID:		[illegible]-18-12		[illegible]-18-13		[illegible]-18-14		[illegible]-18-15		[illegible]-18-16		[illegible]-18-17	

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked. The EMPC values are not qualified with a "J", since they are already estimated.

(1) = The Toxic Equivalent concentrations are calculated with the Toxicity Equivalency Factors (TEFs) for those listed in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number 12, December 1998, Table 3, page 782.

< = The expected lower limit of the TEF values for the congener in table.

$ = Result reported from confirmation analysis.

Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.

NA = Not Analyzed due to limited amount of sample available.

08/28/2002 FRI 11:49 FAX 009/017

Steve Stodola
US EPA Approval Signature

4/26/02
Date

April 19, 2002
B-02-04-Y-1
Revised: April 25, 2002

Ms. Christine Clark
Regional Sample Control Custodian
Office of Environmental Measurement and Evaluation
U.S. EPA Region I
11 Technology Drive
North Chelmsford, MA 01863

Re: TO No. 04, Task No. 2, TDF No. 0418
Case No. Swallow Egg and Diet B2OF2, SDG No. 48985-25 D/F
Battelle Laboratories - Columbus, OH
Centredale Manor, North Providence, RI

Dioxin/Furan, HCX and TCX:13/Egg and Diet/A-TS-45-P, A-TS-47-P, A-TS-52-P, A-TS-53-P, A-TS-54-P, DIET-AP, DIET-GP, DIET-LP, L-TS-62-P, L-TS-63-P, L-TS-67-P, L-TS-69-P, L-TS-90-P

1/Fish Tissue SRM/CIL EDF 2526

Dear Ms. Clark:

A Tier III data validation was performed on the Dioxin/Furan, HCX, and TCX analytical data for 10 swallow eggs and three diet samples collected by USGS for the U.S. EPA at the Centredale Manor Site in North Providence, RI. The samples were analyzed according to EPA Method 1613B, September 15, 1997. The samples were validated using first the criteria in the Centredale Manor Tasks 19-22 QAPP (5/23/01) prepared by Battelle Duxbury Operations which include the criteria in EPA Method 1613B, September 15, 1997, defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 criteria, and to EPA Region I's Environmental Services Assistance Team Dioxin Data Validation SOP ESAT-01-0007 (01/31/01). The criteria for HCX and TCX are documented in Battelle's December 7, 2001 letter to EPA. See the Supporting Documentation section. The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness (CSF Audit - Tier I)
- * Preservation and Technical Holding Times
- PE Samples/Accuracy Check
- * Window Defining Mix
- Initial and Continuing Calibrations
- Chromatographic Resolution
- * Instrument Sensitivity Check

- Blanks
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample/Laboratory Control Sample Duplicate
- Laboratory and Field Duplicates
- Internal/Clean-up Standards
- * Sample Analysis and Identification
- Sample Quantitation
- * Estimated Detection Limits (EDL) and Estimated Maximum Possible Concentration (EMPC)
- 2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity
- * Required Sample Reruns and Second Column Confirmation
- System Performance

* - All criteria were met for this parameter.

The following information was used to generate the Data Validation Memorandum attachments:

Table I: Recommendation Summary Table - summarizes validation recommendations

Table II: Overall Evaluation of Data - summarizes site objectives and potential usability issues

Data Summary Tables - summarize accepted, qualified, and rejected data

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01):

- To generate data of quality to be used for human health (HHRA) and ecological risk assessments (ERA).

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2576 for Dioxin/Furan congeners in fish tissue). All congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value. Since all of the congeners had low recoveries, the results for dioxin/furan in all samples were estimated (J, UJ) due to the possibility of biased low results.

The TCX results indicated analytical problems. The problems included noncompliant initial calibration for TCX, low OPR TCX recovery, and low MS recovery for TCX. All non-detected TCX results were rejected due to noncompliant OPR and MS recoveries.

The method blanks exhibited low level contamination. This contamination problem does not have an impact on the usability of the dioxin/furan data. Contaminants were found in both the blanks and the field samples. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination.

Data validation indicated minor data quality problems which do not significantly impact the usability of the dioxin/furan data. However, the TCX data were rejected. See the discussion in this memorandum for details. The reported results are usable for the site objectives.

Data Completeness (CSE Audit - Tier I)

The following data or information in the data package had discrepancies and/or were missing:

1. The laboratory was asked to submit original COC from the sampler showing the sampling dates and the original date the egg samples were first received.

2. The laboratory was asked to submit their original sample log in forms with the dates the samples were first received.

3. The laboratory was asked to submit the % lipids for this SDG.

Items 1, 2, and 3 were requested via the TOPO on March 1, 2002. Items 1, 2, and 3 were received via the TOPO on March 13, 2002. All items were adequately addressed.

PE Sample/Accuracy Check.

One CIL Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan congeners in fish tissue). All congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value.

The following table summarizes the SRM sample (48985-25-18 FISH SRM) results which did not meet the criterion and the resulting sample qualifications:

PE Sample Number	Coogener	%D from the consensus value	Action	
			Positive Detects	NDs
CIL EDF 2526	2378-TCDD	43	J	UJ
CIL EDF 2526	12378-PeCDD	54	J	UJ
CIL EDF 2526	123478-HxCDD	56	J	UJ
CIL EDF 2526	123678-HxCDD	59	J	UJ
CIL EDF 2526	123789-HxCDD	60	J	UJ
CIL EDF 2526	1234678-HpCDD	57	J	UJ
CIL EDF 2526	OCDD	54	J	UJ
CIL EDF 2526	2378-TCDF	39	J	UJ
CIL EDF 2526	12378-PeCDF	49	J	UJ

PE Sample Number	Congener	%D from the consensus value	Action	
			Positive Detects	NDs
CIL EDF 2526	23478-PeCDF	51	J	UJ
CIL EDF 2526	123478-HxCDF	51	J	UJ
CIL EDF 2526	123678-HxCDF	54	J	UJ
CIL EDF 2526	123789-HxCDF	55	J	UJ
CIL EDF 2526	234678-HxCDF	51	J	UJ
CIL EDF 2526	1234678-HpCDF	55	J	UJ
CIL EDF 2526	1234789-HpCDF	54	J	UJ
CIL EDF 2526	OCDF	54	J	UJ

Since all of the congeners had low recoveries as indicated by the large %D, the results for dioxin/furans in all samples were estimated (J, UJ) due to the possibility of biased low results.

The laboratory documented in their report that the low recoveries of the congeners in the SRM may be due to the lipid content. The laboratory indicated that for future analyses of associated samples the SRM preparation procedures will be modified.

Initial and Continuing Calibrations

The following table summarizes the Initial Calibration (IC) which did not meet the criterion specified in Centredale Manor Tasks 19-22 QAPP (5/23/01) of RSD ≤25 % and the resulting sample qualifications:

IC Date	Compound	% RSD	Action		Affected Samples
			Positive Detects	NDs	
07/20/01	TCDF	30	J	UJ	All

The data associated with the noncompliant initial calibration are qualified due to the variability. The quantitation of the associated analyte in the samples could be biased.

The following table summarizes the Calibration Verification (VER) results which did not meet Method 1613B recovery criterion and the resulting sample qualifications:

VER Date	Compound	Recovery (ng/ml)	Recovery Range (ng/ml)	Action		Affected Samples
				Positive Detects	NDs	
08/07/01 (Ending)	$^{13}C_{12}$-1234789-HpCDF	131	77-129	J	UJ	A-TS-53-P, A-TS-54-P, L-TS-67-P, L-TS-69-P
08/08/01 (Beginning)	123789-HxCDF	44	45-56	J	UJ	A-TS-45-P, A-TS-52-P, DIET-AP, DIET-GP, DIET-LP, L-TS-62-P

The data associated with the recoveries of noncompliant calibration verifications are qualified due to the recoveries outside acceptance range. The quantitation of the associated analytes in the samples could be biased.

Chromatographic Resolution

The hexachlorocanthene (HCX) peaks exhibit poor chromatography, i.e., broad shape. The broad peak shape created irregularities in the response factors used to calculate the concentrations of HCX. Therefore, professional judgement was used to estimate (J,UJ) all HCX results due to the poor chromatography.

Blanks

All of the blanks associated with this SDG were evaluated for possible sources of contamination. The following table summarizes the highest concentration of contamination that was detected in the blanks. The table lists the action levels/actions and the samples affected:

Congener	Type of Blank	Blank Concentration (2g sample size) ng/Kg	Action Level (2g sample size) ng/Kg	Samples Affected
12378-PeCDD	Method Blank (8/10/01)	0.01	4.0	DIET-AP, L-TS-62-P, L-TS-63-P
OCDD	Method Blank (8/10/01)	9.3	93	A-TS-45-P, A-TS-47-P, A-TS-52-P, A-TS-54-P
2378-TCDF	Method Blank (8/13/01) (Confirmation Runs)	7.0	35	A-TS-45-P, A-TS-47-P, A-TS-52-P, A-TS-53-P, A-TS-54-P, DIET-AP, DIET-LP, L-TS-62-P, L-TS-63-P, L-TS-67-P, L-TS-69-P, L-TS-90-P
123478-HxCDF	Method Blank (8/08/01)	0.47	2.4	DIET-GP, DIET-LP

Congener	Type of Blank	Blank Concentration (2g sample size) pg/Kg	Action Level (2g sample size) ng/Kg	Samples Affected
1234789-HpCDF	Method Blank (8/10/01)	0.02	4.1	A-TS-45-P, A-TS-53-P, A-TS-54-P, DIET-AP, DIET-GP, DIET-LP, L-TS-62-P, L-TS-63-P, L-TS-67-P, L-TS-69-P, L-TS-90-P
OCDF	Method Blank (8/10/01)	4.5	45	A-TS-45-P, A-TS-53-P, A-TS-54-P, DIET-AP, DIET-GP, DIET-LP, L-TS-62-P, L-TS-63-P, L-TS-67-P, L-TS-69-P, L-TS-90-P
Total PeCDD	**Method Blank (8/07/01)**	**2.4**	**24**	**A-TS-45-P, A-TS-47-P, A-TS-52-P, A-TS-53-P, A-TS-54-P, DIET-AP, DIET-LP, L-TS-62-P, L-TS-63-P, L-TS-67-P, L-TS-69-P**
Total HxCDF	Method Blank (8/08/01)	0.47	4.7	DIET-GP
Total HpCDF	Method Blank (8/10/01)	1.3	13	A-TS-45-P, A-TS-47-P, A-TS-52-P, DIET-AP, DIET-GP, DIET-LP, L-TS-67-P

Blank actions are based on Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 and EPA Region I's Environmental Services Assistance Team Dioxin Data Validation SOP ESAT-01-0007 (01/31/01) criteria. Blank action levels are calculated as ten times the highest concentration of the contaminant determined in any blank for common contaminants (OCDD/OCDF and Total Homologues) and five times the highest concentration for all other analytes. The positive sample results that are less than the blank action level are reported as non-detects (U) at the reported concentration on the Data Summary Table.

Matrix Spike/Matrix Spike Duplicate

One MS was evaluated for this SDG: L-TS-90-PMS.

The table below summarizes the tissue MS/MSD results which did not meet the recovery criterion of 50-120% as documented in the Centredale Manor Tasks 19-22 QAPP (5/23/01).

L-TS-90-P			
Congener	MS % Rec.	Action	
		Positive Detects	NDs
TCX	1	NA no positive results	R

Professional judgement was used to reject (R) non-detected values for TCX in all samples since

MS percent recovery was low.

Laboratory Control Sample

The laboratory extracted and analyzed one OPR/LCS with this group of samples. The following table summarizes the Ongoing Precision and Recovery (OPR) result which did not meet Centredale Manor Tasks 19-22 QAPP (5/23/01) recovery criterion and the resulting sample qualifications:

OPR Date	Compound	% Recovery	% Recovery Range	Action		Affected Samples
				Positive Detects	NDs	
07/30/01	TCX	5	50-120	NA no positive results	R	All

The data associated with low recoveries of a noncompliant (less than 10% recovery) OPR are rejected (R).

Laboratory and Field Duplicates

Two laboratory duplicate pairs were evaluated for this SDG A-TS-47-P/A-TS-47-PDup and DIET-AP/DIET-APDup. All criterion were met for A-TS-47-P/A-TS-47-PDup.

The table below summarizes the tissue duplicate results that did not meet the laboratory duplicate criterion of Relative Percent Difference (RPD) < 30% as specified in Centredale Manor Tasks 19-22 QAPP (5/23/01).

Congener	DIET-AP	DIET-APDup	RPD	Action		Affected Samples
	Sample Conc. (pg/Kg)	Duplicate Conc. (pg/Kg)		Positive Detects	Non-Detects	
2378-TCDD	210	33	148	J	UJ	All Diet
1234678-HpCDD	55	23	81	J	UJ	All Diet

Professional judgement was used to estimated (J, UJ) 2378-TCDD and 1234678-HpCDD in all Diet samples due to duplicate precision outside criterion.

Internal/Clean-Up Standards

- Internal Standards

The following table summarizes the internal standard recovery that did not meet Centredale Manor Tasks 19-22 QAPP (5/23/01) of 25-150%:

Standard	% Recovery	Action		Affected Sample
		Positive Detects	NDs	
$^{13}C_{12}$-12378-PeCDD	162	J	UJ	A-TS-47-P

The corresponding non-labeled congener results are estimated as shown in the table due to internal standard percent recoveries outside method acceptance criterion.

Samples Quantitation

Concentrations quantitated below the lowest calibration standard are flagged (J) on the Data Summary Tables. Quantitation is not accurate when the reported results are below the lowest calibration standard.

2378-TCDD Toxicity Equivalents (TE) and Congener Specificity

All TE values reported on the Data Summary Tables have been calculated by the ESAT data validator using the validated data discussed above in this report. As a result, the TE values in the Data Summary Table differ slightly from the values reported by the laboratory. The validated data accounts for blank contamination. The TE calculations include the reported EMPC values. The Fish TEF values used by ESAT are the ones published in Environmental Health Perspectives, volume 106, Number 12, December 1998, "Toxic Equivalency factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife."

System Performance

No trends were noted with the dioxin/furan analysis. The results for HCX and TCX indicated analytical problems. The problems included a noncompliant initial calibration for TCX, poor HCX chromatography, low OPR TCX recovery, and low MS recovery for TCX.

Very truly yours,

LOCKHEED ENVIRONMENTAL

Janine Bartels
Principal Scientist

Louis Macri
ESAT Program Manager

cc: Cornell Rosiu, EPA RPM (DV Memorandum, Data Summary Table)

Attachments: Table I: Recommendation Summary Table
Table II: Overall Evaluation of Data
Data Summary Tables
Data Validation Worksheets
Analytical Method
PE Results
Communication/Phone Logs
Field Sampling Notes

Table I
Recommendation Summary Table for Dioxins/Furans
Centredale Manor Site
Case No.: Swallow Egg and Diet B2OF2/SDG No. 48985-25 D/F

Sample Nos.	A-TS-45-P	A-TS-47-P	A-TS-52-P	A-TS-53-P	A-TS-54-P	DIET-AP	DIET-GP
Compound							
2378-TCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1,4]	J[1,4]
12378-PeCDD	J[1]	J[1,3]	J[1]	J[1]	J[1]	J[1,3]	J[1]
123478-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123678-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123789-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234678-HpCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1,4]	J[1,4]
OCDD	J[1,3]	J[1,3]	J[1,3]	J[1]	J[1,3]	J[1]	J[1]
2378-TCDF	J[1,3]	J[1,3]	J[1,3]	J[1,3]	J[1,3]	J[1,3]	J[1]
12378-PeCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
23478-PeCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123478-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1,3]
123678-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123789-HxCDF	J[1,6]	J[1]	J[1,6]	J[1]	J[1]	J[1,6]	J[1,6]
234678-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234678-HpCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234789-HpCDF	J[1,3]	J[1]	J[1]	J[1,3,6]	J[1,3,6]	J[1,3]	J[1,3]
OCDF	J[1,3]	J[1]	J[1]	J[1,3]	J[1,3]	J[1,3]	J[1,3]
HCX	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
TCX	R[1,2]	R[1,2]	R[1,2]	R[1,2]	R[1,2]	R[1,2]	R[1,2]

Table I
Recommendation Summary Table for Dioxins/Furans
Centredale Manor Site
Case No.: Swallow Egg and Diet B2OF2/SDG No. 48985-25 D/F

Sample Nos.	DIET-LP	L-TS-62-P	L-TS-63-P	L-TS-67-P	L-TS-69-P	L-TS-90-P
Compound						
2378-TCDD	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
12378-PeCDD	J[1]	J[1,3]	J[1,3]	J[1]	J[1]	J[1]
123478-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123678-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123789-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234678-HpCDD	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
OCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
2378-TCDF	J[1,3]	J[1,3]	J[1,3]	J[1,3]	J[1,3]	J[1,3]
12378-PeCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
23478-PeCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123478-HxCDF	J[1,3]	J[1]	J[1]	J[1]	J[1]	J[1]
123678-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123789-HxCDF	J[1,3]	J[1,6]	J[1]	J[1]	J[1]	J[1]
234678-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234678-HpCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234789-HpCDF	J[1,3]	J[1,3]	J[1,3]	J[1,3,6]	J[1,3,6]	J[1,3]
OCDF	J[1,3]	J[1,3]	J[1,3]	J[1,3]	J[1,3]	J[1,3]
HCX	J[2]	J[2]	J[2]	J[2]	J[2]	J[2]
TCX	R[1,2]	R[1,2]	R[1,2]	R[1,2]	R[1,2]	R[1,2]

Table I
Recommendation Summary Table for Dioxins/Furans

A	-	Accept results.
J^1	-	SRM %D outside criterion; J detects, UJ non-detects.
J^2	-	Poor chromatography; J detects, UJ non-detects.
J^3	-	Method blank contamination; positive sample results less than the blank action level are reported as non-detects (U) at the concentration reported.
J^4	-	Laboratory duplicate precision outside criteria; J detects, UJ non-detects.
J^5	-	Internal standard recovery outside criteria; J detects, UJ non-detects.
J^6	-	VER recoveries outside criterion; J detects, UJ non-detects.
R^1	-	Low OPR recovery; R non-detects.
R^2	-	Low MS recovery; R non-detects.

EPA-NE - Data Validation Worksheet

Overall Evaluation of Data - Data Validation Memorandum - Table II

DIOXIN/FURAN/HCB/TCX ANALYSIS					
DQO (for all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability	Potential Usability Issues
		Analytical Error	Sampling Error*		
The following is a summary of the site investigation/assessment objectives as found in Ceramdale Minor Tasks 19-22 QAPP (5/23/01): To generate data of quality to be used for human health (HHRA) and ecological risk assessments (ERA).	Yes, Sampling Method appropriate for all samples. Yes, Analytical Method appropriate for all samples.	Refer to qualification in R/S Key on Table I: $J^{[1,2,3,4,5]}, R^{[1,2]}$	Refer to qualification in R/S Key on Table I: NA	**	One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL SDF 2126 for Dioxin/Furan congeners in fish tissue). All congeners were outside the Ceramdale Minor Tasks 19-22 QAPP (5/23/01) specified criteria of 30 %D from the consensus value. Since all of the congeners had low recoveries, the results for dioxin/furan in all samples were estimated (J, UJ) due to the possibility of biased low results. The TCX results indicated analytical problems. The problems included noncompliant initial calibration for TCX, low OPR TCX recovery, and low MS recovery for TCX. All non-detected TCX results were rejected due to noncompliant OPR and MS recoveries. The method blanks exhibited low level contamination. This contamination problem does not have an impact on the usability of the dioxin/furan data. Contaminants were found in both the blanks and the field samples. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination. Data validation indicated minor data quality problems which do not significantly impact the usability of the dioxin/furan data. However, the TCX data were rejected. See the data validation memorandum for details. The reported results are usable for the site objectives.

* The evaluation of "sampling error" cannot be completely assessed in the data validation.

** Sampling variability is not assessed in data validation.

Validator: [signature]

Date: 4/25/02

Data Summary Table

Dioxin/Furan Analysis - Tissue Samples (pg/g wet weight)

[illegible] - [illegible]

CASE NO. [illegible] SDG NO. [illegible]

LABORATORY: [illegible]

SAMPLE NUMBER	Toxicity	A-T5-46-P			A-T5-47-P			A-T5-52-P			A-T5-53-P			A-T5-54-P		
STATION LOCATION	Equivalency	ALLENDALE POND			ALLENDALE POND			ALLENDALE POND			ALLENDALE POND			ALLENDALE POND		
MATRIX	Factors (1)	EGG			EGG			EGG			EGG			EGG		
TOXICITY CONC.		pg/g		DL/EMPC*	pg/g		DL/EMPC*	pg/g		DL/EMPC*	pg/g		DL/EMPC*	pg/g		DL/EMPC*
2,3,7,8-TCDD	1.0	537.74	J		624.63	J		387.84	J		268.40	J		3003.54	J	
1,2,3,7,8-PeCDD	1.0	12.80	J			UJ	6.40	5.96	J		8.81	J		18.69	J	
1,2,3,4,7,8-HxCDD	0.05	14.30	J		8.63	J		8.36	J		11.54	J		11.28	J	
1,2,3,6,7,8-HxCDD	0.01	70.46	J		18.32	J		41.12	J		56.46	J		78.73	J	
1,2,3,7,8,9-HxCDD	0.1	7.03	J		8.02	J		4.84	J		11.48	J		7.40	J	
1,2,3,4,6,7,8-HpCDD	< 0.001	108.47	J		49.67	J		59.88	J		336.60	J		74.90	J	
OCDD	0.0001		UJ	78.82		UJ	61.12		UJ	33.53	403.18	J			UJ	97.58
2,3,7,8-TCDF	1.0		UJ#	16.66		UJ#	18.39		UJ#	15.26		UJ#	12.48		UJ#	29.80
1,2,3,7,8-PeCDF	0.1	7.01	J		2.68	J		4.00	J		4.45	J		5.85	J	
2,3,4,7,8-PeCDF	1.0	8.77	J			UJ	8.68	9.27	J		5.08	J		12.96	J	
1,2,3,4,7,8-HxCDF	0.1	16.40	J			UJ	6.74	4.58	J		7.44	J		5.64	J	
1,2,3,6,7,8-HxCDF	0.1	8.77	J			UJ	9.61	3.20	J		8.98	J		5.17	J	
1,2,3,7,8,9-HxCDF	0.1		UJ	0.63		UJ	11.57		UJ	0.84		UJ	1.02	0.27	J	
2,3,4,6,7,8-HxCDF	0.1	2.04	J			UJ	10.80	1.76	J		8.61	J		3.80	J	
1,2,3,4,6,7,8-HpCDF	0.01	8.74	J		8.81	J		0.70	J		70.71	J		16.12	J	
1,2,3,4,7,8,9-HpCDF	0.01		UJ	0.81		UJ	20.97		UJ	1.22		UJ	2.11		UJ	0.41
OCDF	0.0001		UJ	0.89		UJ	51.13		UJ	0.58		UJ	14.43		UJ	7.00
TOTAL TCDD		537.74	J		624.63	J		387.84	J		268.40	J		3003.54	J	
TOTAL PeCDD			UJ	12.30		UJ	29.00		UJ	6.96		UJ	6.81		UJ	16.63
TOTAL HxCDD		84.34	J		29.86	J		63.84	J		95.54	J		98.61	J	
TOTAL HpCDD		151.24	J		49.67	J		69.99	J		340.10	J		78.30	J	
TOTAL TCDF		20.81	J		19.98	J		13.68	J		18.18	J		38.49	J	
TOTAL PeCDF		22.64	J		2.68	J		16.25	J		17.36	J		23.37	J	
TOTAL HxCDF		22.07	J			UJ	10.26	9.51	J		32.47	J		17.62	J	
TOTAL HpCDF			UJ	9.08		UJ	6.81		UJ	7.04	79.45	J		19.03	J	
HCH - Hexachlorocyclohexane				29.49 *		UJ	108.41			19.79 *	11.88	J		82.16	J	
TCN - Tetrachlorinated Naphthalene			R			R			R			R			R	
TOXIC EQUIVALENT (1)		300	J		630	J		410	J		290	J		3000	J	
PERCENT SOLIDS:		NA			NA			NA			NA			NA		
PERCENT LIPIDS:		NA			NA			NA			NA			NA		
DILUTION FACTOR:		1.0			1.0			1.0			1.0			1.0		
DATE SAMPLED:		05/30/01			05/22/01			05/09/01			05/30/01			05/11/01		
DATE OF RECEIPT:		07/11/01			07/11/01			07/11/01			07/11/01			07/11/01		
SAMPLE EXTRACTION DATE:		07/30/01			07/30/01			07/30/01			07/30/01			07/30/01		
ANALYSIS DATE:		08/07/01			08/15/01			08/08/01			08/07/01			08/08/01		
LAB SAMPLE ID:		48965-25-10			48965-25-14			48965-25-11			48965-25-02			48965-25-03		

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.

The EMPC values are not qualified with a "J", since they are already estimated.

(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume (106), Number 12, December 1998, Table 3, page 782.

Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.

< = The reported upper limit of the TEF value for the congener in table.

= Results reported from confirmation analysis.

04/26/2002 FRI 15:00 FAX

015/017

Data Summary Table

Dioxin/Furan Analysis - Tissue Samples (ppb wet weight)

SITE: [illegible] - N. Providence, RI

CASE No. [illegible] and Diet 82OF2 SDG No. [illegible]-DF

LABORATORY: [illegible]

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	DIET-AP			DIET-OP			DIET-LP			LYS-62-P			LYS-63-P		
STATION LOCATION:		ALLENDALE POND			GREYSTONE MILL POND			LYMANSVILLE POND			LYMANSVILLE POND			LYMANSVILLE POND		
MATRIX:		DIET			DIET			DIET			EGG			EGG		
TCDD/TCDF CONC.:		ppb		DL/EMPC*	ppb		DL/EMPC*	ppb		DL/EMPC*	ppb		DL/EMPC*	ppb		DL/EMPC*
2,3,7,8-TCDD	1.0	218.62	J		6.66	J		119.45	J		1520.23	J		857.62	J	
1,2,3,7,8-PeCDD	1.0		UJ	1.97		UJ	0.66		UJ	0.70		UJ	4.65		UJ	4.52
1,2,3,4,7,8-HxCDD	0.05	1.41	J		0.52	J		0.82	J		4.79	J		4.28	J	
1,2,3,6,7,8-HxCDD	0.05	7.34	J		1.66	J		2.22	J		28.19	J		32.07	J	
1,2,3,7,8,9-HxCDD	0.1	1.83	J		0.36	J		0.68	J		8.42	J		3.70	J	
1,2,3,4,6,7,8-HpCDD	<0.005	68.09	J		20.30	J		24.00	J		312.02	J		166.99	J	
OCDD	0.0001	183.92	J		61.69	J		51.09	J		601.68	J		234.15	J	
2,3,7,8-TCDF	1.0		UJ	2.24	0.49	J			UJ	0.52		UJ	10.53		UJ	12.52
1,2,3,7,8-PeCDF	0.1	1.82	J			UJ	0.76		UJ	0.52	2.26	J			UJ	1.24
2,3,4,7,8-PeCDF	1.0	1.80	J		0.13	J			UJ	0.55	2.98	J		2.73	J	
1,2,3,4,7,8-HxCDF	0.1	2.81	J			UJ	0.64		UJ	0.51	6.05	J		3.06	J	
1,2,3,6,7,8-HxCDF	0.1	2.34	J		0.41	J		0.41	J		4.28	J		4.12	J	
1,2,3,7,8,9-HxCDF	0.1	1.45	J			UJ	0.62		UJ	0.62		UJ	2.66		UJ	1.02
2,3,4,6,7,8-HxCDF	0.1	2.22	J			UJ	0.62	0.17	J			UJ	1.63	2.60	J	
1,2,3,4,6,7,8-HpCDF	0.01	12.87	J		4.21	J		3.20	J		51.64	J		36.38	J	
1,2,3,4,7,8,9-HpCDF	0.01		UJ	0.84		UJ	0.30		UJ	0.16		UJ	2.23		UJ	1.36
OCDF	0.0001		UJ	1.07		UJ	1.83		UJ	0.71		UJ	26.01		UJ	11.30
TOTAL TCDD		218.62	J		7.59	J		121.80	J		1620.23	J		857.62	J	
TOTAL PeCDD			UJ	5.07		UJ	0.66		UJ	0.70		UJ	4.65		UJ	4.52
TOTAL HxCDD		18.69	J		4.38	J		6.75	J		45.64	J		40.80	J	
TOTAL HpCDD		73.62	J		20.51	J		25.03	J		328.17	J		169.36	J	
TOTAL TCDF		3.04	J		0.64	J		2.21	J		11.69	J		7.68	J	
TOTAL PeCDF		5.65	J		2.29	J		2.82	J		6.25	J		2.78	J	
TOTAL HxCDF		27.91	J			UJ	1.80	3.69	J		12.83	J		17.06	J	
TOTAL HpCDF			UJ	13.61		UJ	6.18		UJ	4.48	63.47	J		45.57	J	
HCX - Hexachlorobenzene		129.27	J			UJ	69.40	202.12	J		68.78	J				44.40 *
TCX - Tetrachlorobenzene			R			R			R			R			R	
TCDD EQUIVALENT(1):		220	J		6.5	J		120	J		1500	J		808	J	
PERCENT SOLIDS:		NA			NA			NA			NA			NA		
PERCENT LIPIDS:		NA			NA			NA			NA			NA		
DILUTION FACTOR:		1.0			1.0			1.0			1.0			1.0		
DATE SAMPLED:		06/7,8,9/01			6/06/01, 06/7,8/01			06/7,8,9/01			06/27/01			06/27/01		
DATE OF RECEIPT:		07/11/01			07/11/01			07/11/01			07/11/01			07/11/01		
SAMPLE EXTRACTION DATE:		07/30/01			07/30/01			07/30/01			07/30/01			07/30/01		
ANALYSIS DATE:		08/08/01			08/08/01			08/08/01			08/08/01			08/08/01		
LAB SAMPLE ID:		42985-25-06			42985-25-08			42985-25-07			42985-25-12			42985-25-13		

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.

The EMPC values are not qualified with a "J", since they are already estimated.

(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume (106), Number 12, December 1998, Table 1, page 782.

Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table 1.

< = The expected upper limit of the TEF values for the congener in birds.

= Result reported from confirmation analysis

Data Summary Table

Dioxin/Furan Analysis - Tissue Samples (pg/g wet weight)

SITE: Carnegie Mellon - N. Pittsburgh, PA
CASE NO. Swallow Egg and Die [illegible] SDG NO. [illegible]
LABORATORY: Sedalia

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	L-TS-07-P			L-TS-08-P			L-TS-09-P		
STATION LOCATION:		LYMANSVILLE POND			LYMANSVILLE POND			LYMANSVILLE POND		
MATRIX:		EGG			EGG			EGG		
TCDD/TCDF CONG.:		ppb		DL/EMPC*	ppb		DL/EMPC*	ppb		DL/EMPC*
2,3,7,8-TCDD	1.0	[illegible]	J		[illegible]	J		606.91	J	
1,2,3,7,8-PeCDD	1.0	[illegible]	J		[illegible]	J		14.31	J	
1,2,3,4,7,8-HxCDD	0.05	[illegible]	J		[illegible]	J		7.40	J	
1,2,3,6,7,8-HxCDD	0.01	[illegible]	J		[illegible]	J		44.87	J	
1,2,3,7,8,9-HxCDD	0.1	[illegible]	J		[illegible]	J		6.92	J	
1,2,3,4,6,7,8-HpCDD	<0.001	[illegible]	J		[illegible]	J		298.80	J	
OCDD	0.0001	[illegible]	J		[illegible]	J		1056.63	J	
2,3,7,8-TCDF	1.0		UJ#	[illegible]		UJ#	20.45		UJ#	10.03
1,2,3,7,8-PeCDF	0.1	[illegible]	J		[illegible]	J			UJ	0.97
2,3,4,7,8-PeCDF	1.0	[illegible]	J		[illegible]	J			UJ	0.81
1,2,3,4,7,8-HxCDF	0.1	[illegible]	J		[illegible]	J		6.54	J	
1,2,3,6,7,8-HxCDF	0.1	[illegible]	J		[illegible]	J		4.78	J	
1,2,3,7,8,9-HxCDF	0.1		UJ	0.66		UJ	0.66		UJ	2.12
2,3,4,6,7,8-HxCDF	0.1	[illegible]	J		[illegible]	J			UJ	1.81
1,2,3,4,6,7,8-HpCDF	0.01	[illegible]	J		[illegible]	J		51.06	J	
1,2,3,4,7,8,9-HpCDF	0.01		UJ	0.66		UJ	2.68		UJ	3.66
OCDF	0.0001		UJ	[illegible]		UJ	19.90		UJ	16.78
TOTAL TCDD		[illegible]	J		[illegible]	J		606.91	J	
TOTAL PeCDD			UJ	[illegible]		UJ	13.60	61.96	J	
TOTAL HxCDD		[illegible]	J		[illegible]	J		61.20	J	
TOTAL HpCDD		[illegible]	J		[illegible]	J		397.68	J	
TOTAL TCDF		[illegible]	J		[illegible]	J		12.80	J	
TOTAL PeCDF		[illegible]	J		[illegible]	J			UJ	0.84
TOTAL HxCDF		[illegible]	J		[illegible]	J		16.87	J	
TOTAL HpCDF			UJ	[illegible]	[illegible]	J		62.92	J	
HCX - Hexachlorobenzene		[illegible]	J		[illegible]	J		69.68	J	
TCX - Tetrachloroxanthene			R			R			R	
TOXIC EQUIVALENT(1):		[illegible]	J		[illegible]	J		828	J	
PERCENT SOLIDS:		NA			NA			NA		
PERCENT LIPIDS:		NA			NA			NA		
DILUTION FACTOR:		1.0			1.0			1.0		
DATE SAMPLED:		[illegible]			[illegible]			06/25/01		
DATE OF RECEIPT:		[illegible]			[illegible]			07/11/01		
SAMPLE EXTRACTION DATE:		[illegible]			[illegible]			07/20/01		
ANALYSIS DATE:		[illegible]			[illegible]			08/08/01		
LAB SAMPLE ID:		[illegible]			[illegible]			[illegible]		

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked. The EMPC values are not qualified with a "J", since they are already estimated.

(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume (106), Number 12, December 1998, Table 3, page 782.

Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.

< = The expected upper limit of the TEF values for the congener is blank.

= Result reported from confirmation analysis

Steve Stodola
US EPA Approval Signature

11/18/02
Date
November 7, 2002

Ms. Christine Clark
Regional Sample Control Custodian
Office of Environmental Measurement and Evaluation
U.S. EPA Region I
11 Technology Drive
North Chelmsford, MA 01863

Re: TO No. 10, Task No. 2, TDF No. 0737
Case No. Nestling B1OF1, SDG No. 49038-41 D/F
Battelle Laboratories - Columbus, OH
Centredale Manor, North Providence, RI

Dioxin/Furan, HCX and TCX:15/Nestling/A-TS-35-N, A-TS-46-N, A-TS-48-N, A-TS-49-N, A-TS-57-N, G-TS-02-N, G-TS-04-N, G-TS-07-N, G-TS-22-N, G-TS-29-N, L-TS-62-N, L-TS-63-N, L-TS-70-N, L-TS-84-N, L-TS-89-N

1/Fish Tissue SRM/CIL EDF 2526

Dear Ms. Clark:

A Tier III data validation was performed on the Dioxin/Furan, HCX, and TCX analytical data for 15 nestling samples collected by USGS for the U.S. EPA at the Centredale Manor Site in North Providence, RI. The samples were analyzed according to EPA Method 1613B, September 15, 1997. The samples were validated using first the criteria in the Centredale Manor Tasks 19-22 QAPP (5/23/01) prepared by Battelle Duxbury Operations which include the criteria in EPA Method 1613B, September 15, 1997, defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 criteria, and to EPA Region I's Environmental Services Assistance Team Dioxin Data Validation SOP ESAT-01-0007 (01/31/01). The criteria for HCX and TCX are documented in Battelle's December 7, 2001 letter to EPA. See the Supporting Documentation section. The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness (CSF Audit - Tier I)
- Preservation and Technical Holding Times
- PE Samples/Accuracy Check
- Window Defining Mix
- Initial and Continuing Calibrations
- Chromatographic Resolution
- Instrument Sensitivity Check

- Blanks
- Matrix Spike/Matrix Spike Duplicate
- * Laboratory Control Sample/Laboratory Control Sample Duplicate
- * Laboratory and Field Duplicates
- Internal/Clean-up Standards
- * Sample Analysis and Identification
- Sample Quantitation
- * Estimated Detection Limits (EDL) and Estimated Maximum Possible Concentration (EMPC)
- 2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity
- * Required Sample Reruns and Second Column Confirmation
- System Performance

* - All criteria were met for this parameter.

The following information was used to generate the Data Validation Memorandum attachments:

Table I: Recommendation Summary Table - summarizes validation recommendations

Table II: Overall Evaluation of Data - summarizes site objectives and potential usability issues

Data Summary Tables - summarize accepted, qualified, and rejected data

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01):

- **To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA).**

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan congeners in fish tissue). All congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value. Since all of the congeners had low recoveries, the results for dioxin/furan in all samples were estimated (J, UJ) due to the possibility of biased low results.

The TCX initial calibration % RSD was noncompliant. The laboratory did not perform additional quality control procedures, neither a laboratory control sample nor matrix spike samples, for the TCX analysis. Therefore, the results of the initial calibration standards were investigated. The low standards in the multi-point initial calibration had an erratic response. The laboratory used the lowest standard as the reporting limit for the non-detected results. The erratic response would indicate that this may not be an appropriate reporting limit. Therefore, the TCX results were rejected (R). (1)

The method blanks exhibited low level contamination. This contamination problem does not have an impact on the usability of the dioxin/furan data. Contaminants were found in both the blanks and the field samples. When the analyte concentrations in the field samples were less than

(1) Note that TCX analysis was for screening purposes only. An LCS/MS was not required for TCX per the QAPP. DMDahlen 11/25/02

the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination.

Data validation indicated minor data quality problems which do not significantly impact the usability of the dioxin/furan data. However, the TCX data were rejected. See the discussion below for details. The reported results are usable for the site objectives.

PE Samples/Accuracy Check

One CIL Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for Dioxin/Furan congeners in fish tissue). All congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value.

The following table summarizes the SRM sample (49038-41-20 FISH SRM) results which did not meet the criterion and the resulting sample qualifications:

PE Sample Number	Congener	%D from the consensus value	Action	
			Positive Detects	NDs
CIL EDF 2526	2378-TCDD	54	J	UJ
CIL EDF 2526	12378-PeCDD	59	J	UJ
CIL EDF 2526	123478-HxCDD	64	J	UJ
CIL EDF 2526	123678-HxCDD	64	J	UJ
CIL EDF 2526	123789-HxCDD	63	J	UJ
CIL EDF 2526	1234678-HpCDD	61	J	UJ
CIL EDF 2526	OCDD	54	J	UJ
CIL EDF 2526	2378-TCDF	43	J	UJ
CIL EDF 2526	12378-PeCDF	59	J	UJ
CIL EDF 2526	23478-PeCDF	58	J	UJ
CIL EDF 2526	123478-HxCDF	57	J	UJ
CIL EDF 2526	123678-HxCDF	56	J	UJ
CIL EDF 2526	123789-HxCDF	62	J	UJ
CIL EDF 2526	234678-HxCDF	57	J	UJ
CIL EDF 2526	1234678-HpCDF	59	J	UJ

PE Sample Number	Congener	%D from the consensus value	Action	
			Positive Detects	NDs
CIL EDF 2526	1234789-HpCDF	56	J	UJ
CIL EDF 2526	OCDF	53	J	UJ

Since all of the congeners had low recoveries as indicated by the large %Ds, the results for dioxin/furans in all samples were estimated (J, UJ) due to the possibility of biased low results.

The laboratory documented in their report that the low recoveries of the congeners in the SRM may be due to the lipid content. For this SDG, 1.0119 grams of SRM tissue, instead of 2 grams, were extracted in an attempt to bring the lipid content of the SRM in line with the lipid content of the samples. With this change the recoveries of the analytes still did not meet the %D criterion. The laboratory indicated that for future analyses of associated samples the SRM preparation procedures will be modified.

Initial and Continuing Calibrations

The following table summarizes the Initial Calibration (IC) which did not meet the criterion specified in Centredale Manor Tasks 19-22 QAPP (5/23/01) of RSD ≤25 % and the resulting sample qualifications:

IC Date	Compound	% RSD	Action		Affected Samples
			Positive Detects	NDs	
07/20/01	TCX	30	J*	UJ*	All

* See the following discussion.

The TCX initial calibration % RSD was noncompliant. The laboratory did not perform additional quality control procedures, neither a laboratory control sample nor matrix spike samples, for the TCX analysis. Therefore, the results of the initial calibration standards were investigated. The low standards in the multi-point initial calibration had an erratic response. The **laboratory used the lowest standard as the reporting limit for the non-detected results. The erratic response would indicate that this may not be an appropriate reporting limit. Therefore, the TCX results were rejected (R).**

Chromatographic Resolution

The hexachloroxanthene (HCX) peaks exhibit poor chromatography, i.e., broad shape. The broad peak shape created irregularities in the response factors used to calculate the concentrations of HCX. Therefore, professional judgement was used to estimate (J, UJ) all HCX results due to the **poor chromatography.**

The laboratory flagged the 2378-TCDF values in samples A-TS-35-N, A-TS-46-N, A-TS-48-N, A-TS-49-N, A-TS-57-N, G-TS-02-N, G-TS-07-N, G-TS-22-N, G-TS-29-N, L-TS-62-N, L-TS-63-N, L-TS-70-N, L-TS-84-N, and L-TS-89-N with an "E" to indicate chromatographic interference. Estimate (J) the 2378-TCDF value in referenced samples due to chromatographic interference.

Blanks

All of the blanks associated with this SDG were evaluated for possible sources of contamination. The following table summarizes the highest concentration of contamination that was detected in the blanks. The table lists the action levels/actions and the samples affected:

Congener	Type of Blank	Blank Concentration ng/Kg	Action Level ng/Kg	Samples Affected
OCDD	Method Blank (10/11/01) (1.0g sample size)	10	100	A-TS-35-N, G-TS-04-N
OCDD	Method Blank (10/11/01) (2.0g sample size)	5.0	50	L-TS-62-N
OCDD	Method Blank (10/11/01) (5.0g sample size)	2.0	20	G-TS-22-N
OCDD	Method Blank (10/11/01) (8.0g sample size)	1.3	13	G-TS-02-N
123478-HxCDF	Method Blank (10/12/01) (1.0g sample size)	0.90	4.5	A-TS-35-N, G-TS-04-N
OCDF	Method Blank (10/11/01) (1.0g sample size)	2.6	26	A-TS-35-N, G-TS-04-N
OCDF	Method Blank (10/11/01) (2.0g sample size)	1.3	13	L-TS-62-N
OCDF	Method Blank (10/11/01) (5.0g sample size)	0.52	5.2	A-TS-46-N, A-TS-49-N, A-TS-57-N, G-TS-22-N, G-TS-29-N, L-TS-63-N, L-TS-70-N, L-TS-84-N, L-TS-89-N
OCDF	Method Blank (10/11/01) (8.0g sample size)	0.32	3.2	G-TS-02-N, G-TS-07-N
Total PeCDD	Method Blank (10/11/01) (1.0g sample size)	4.9	49	A-TS-35-N, G-TS-04-N

Congener	Type of Blank	Blank Concentration ng/Kg	Action Level ng/Kg	Samples Affected
Total PeCDD	Method Blank (10/11/01) (2.0g sample size)	2.4	24	L-TS-62-N
Total PeCDD	Method Blank (10/11/01) (5.0g sample size)	0.98	9.8	A-TS-46-N, A-TS-48-N, A-TS-49-N, A-TS-97-N, G-TS-22-N, G-TS-29-N, L-TS-63-N, L-TS-70-N, L-TS-84-N, L-TS-89-N
Total PeCDD	Method Blank (10/11/01) (8.0g sample size)	0.61	6.1	G-TS-02-N, G-TS-07-N
Total HpCDD	Method Blank (10/11/01) (1.0g sample size)	4.2	42	A-TS-35-N, G-TS-04-N
Total TCDF	Method Blank (10/12/01) (1.0g sample size)	1.1	11	A-TS-35-N, G-TS-04-N
Total HxCDF	Method Blank (10/12/01) (1.0g sample size)	1.6	16	A-TS-35-N, G-TS-04-N
Total HpCDF	Method Blank (10/12/01) (1.0g sample size)	1.2	12	A-TS-35-N, G-TS-04-N
Total HpCDF	Method Blank (10/12/01) (5.0g sample size)	0.24	2.4	G-TS-22-N
Total HpCDF	Method Blank (10/12/01) (8.0g sample size)	0.15	1.5	G-TS-02-N

Blank actions are based on Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 and EPA Region I's Environmental Services Assistance Team Dioxin Data Validation SOP ESAT-01-0007 (01/31/01) criterion. Blank action levels are calculated as ten times the highest concentration of the contaminant determined in any blank for common contaminants (OCDD/OCDF and Total Homologues) and five times the highest concentration for all other analytes. The positive sample results that are less than the blank action level are reported as non-detects (U) at the reported concentration on the Data Summary Table.

Matrix Spike/Matrix Spike Duplicate

One MS/MSD pair was evaluated for this SDG: G-TS-04-NMS/G-TS-04-NMSD.

The table below summarizes the tissue MS/MSD results which did not meet the recovery criteria.

of 50-120% and/or Relative Percent Difference (RPD) ≤ 30% as documented in the Centredale Manor Tasks 19-22 QAPP (5/23/01).

G-TS-04-N					
Congener	MS % Rec.	MSD % Rec.	% RPD	Action	
				Positive Detects	NDs
HCX	129	181	34	J	UJ

Professional judgement was used to estimated (J, UJ) values for HCX in all samples since percent recoveries and/or precision were outside the required criteria.

Internal/Clean-Up Standards

- Clean-Up Standards

The following table summarizes the clean-up standard which did not meet the recovery acceptance criterion of 25-150% as specified in Centredale Manor Tasks 19-22 QAPP (5/23/01).

Clean-Up Standard	% Recovery	Action		Affected Sample
		Positive Detects	NDs	
^{37}Cl$_4$-2378-TCDD	20	J	UJ	A-TS-48-N

Since low recoveries may indicate interference in the clean-up process, the sample was qualified as noted above for all congeners.

Sample Quantitation

Concentrations quantitated below the lowest calibration standard are flagged (J) on the Data Summary Tables. Quantitation is not accurate when the reported results are below the lowest calibration standard.

The detection limits reported on the Data Summary Table for HCX correspond to the concentration in the lowest HCX calibration standard.

2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity

All TE values reported on the Data Summary Tables have been calculated by the ESAT data validator using the validated data discussed above in this report. As a result, the TE values in the Data Summary Table differ slightly from the values reported by the laboratory. The validated data accounts for blank contamination. The TE calculations include the reported EMPC values. The bird TEF values used by ESAT are the ones published in Environmental Health Perspectives, volume 106, Number 12, December 1998, "Toxic Equivalency factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife."

System Performance

No trends were noted with the dioxin/furan analysis. The results for HCX and TCX indicated analytical problems. The problems included noncompliant initial calibration for TCX, poor HCX chromatography, high MS/MSD recovery for HCX, and poor MS/MSD precision for HCX. There were no additional quality control checks, such as MS/MSD or an LCS, to demonstrate that the method could recover TCX. Therefore, the non-detected results for TCX are rejected.

Very truly yours,

LOCKHEED ENVIRONMENTAL

Janine Bartels
Principal Scientist

Louis Macri
ESAT Program Manager

cc: Cornell Rosiu, EPA Project Manager (DV Memorandum, Data Summary Table)

Attachments: Table I: Recommendation Summary Table
Table II: Overall Evaluation of Data
Data Summary Tables
Data Validation Worksheets
Analytical Method
PE Results
Communication/Phone Logs
Field Sampling Notes

Table I .
Recommendation Summary Table for Dioxins/Furans
Centredale Manor Site
Case No.: Nestling B1OF1/SDG No. 49038-41 D/F

Sample Nos.	A-TS-35-N	A-TS-46-N	A-TS-48-N	A-TS-49-N	A-TS-57-N	G-TS-02-N	G-TS-04-N	G-TS-07-N
Compound								
2378-TCDD	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
12378-PeCDD	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
123478-HxCDD	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
123678-HxCDD	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
123789-HxCDD	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
1234678-HxCDD	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
OCDD	J[1,3]	J[1]	J[1,4]	J[1]	J[1]	J[1,3]	J[1,3]	J[1]
2378-TCDF	J[1,6]	J[1,6]	J[1,4,6]	J[1,6]	J[1,6]	J[1,6]	J[1]	J[1,6]
12378-PeCDF	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
23478-PeCDF	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
123478-HxCDF	J[1,3]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1,3]	J[1]
123678-HxCDF	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
123789-HxCDF	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
234678-HxCDF	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
1234678-HpCDF	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
1234789-HpCDF	J[1]	J[1]	J[1,4]	J[1]	J[1]	J[1]	J[1]	J[1]
OCDF	J[1,3]	J[1,3]	J[1,4]	J[1,3]	J[1,3]	J[1,3]	J[1,3]	J[1,3]
HCX	J[2,5]	J[2,5]	J[2,5]	J[2,5]	J[2,5]	J[2,5]	J[2,5]	J[2,5]
TCX	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]

Table I
Recommendation Summary Table for Dioxins/Furans
Centredale Manor Site
Case No.: Nestling B1OF1/SDG No. 49038-41 D/F

Sample Nos.	G-TS-22-N	G-TS-29-N	L-TS-62-N	L-TS-63-N	L-TS-70-N	L-TS-84-N	L-TS-89-N
Compound							
2378-TCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
12378-PeCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123478-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123678-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123789-HxCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234678-HpCDD	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
OCDD	J[1,3]	J[1]	J[1,3]	J[1]	J[1]	J[1]	J[1]
2378-TCDF	J[1,6]	J[1,6]	J[1,6]	J[1,6]	J[1,6]	J[1,6]	J[1,6]
12378-PeCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
23478-PeCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123478-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123678-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
123789-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
234678-HxCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234678-HpCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
1234789-HpCDF	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]	J[1]
OCDF	J[1,3]	J[1,3]	J[1,3]	J[1,3]	J[1,3]	J[1,3]	J[1,3]
HCX	J[1,5]	J[1,5]	J[1,5]	J[1,5]	J[1,5]	J[1,5]	J[1,5]
TCX	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]

Table I
Recommendation Summary Table for Dioxins/Furans

A	-	Accept results.
J^1	-	SRM %D outside criterion; J detects, UJ non-detects.
J^2	-	Poor chromatography; J detects, UJ non-detects.
J^3	-	Method blank contamination; positive sample results less than the blank action level are reported as non-detects (UJ) at the concentration reported.
J^4	-	Clean-up standard recovery outside criterion; J detects, UJ non-detects.
J^5	-	MS/MSD recovery and/or RPD outside criteria; J detects, UJ non-detects.
J^6	-	Chromatographic interference; J detects.
R^1	-	Non-compliant method detection limits and recovery; R non-detects.

EPA-NE - Data Validation Worksheet

Overall Evaluation of Data - Data Validation Memorandum - Table II

DIOXIN/FURAN/TCX/TCX ANALYSIS					
DQO (for all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability	Potential Usability Issues
		Analytical Error	Sampling Error*		
The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (1/21/01). To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA).	Yes, Sampling Method appropriate for all samples. Yes, Analytical Method appropriate for all samples.	Refer to qualification on R/S Key on Table I: [illegible], R[1]	Refer to qualification in R/S Key on Table I: NA	**	One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2576 for Dioxin/Furan congeners in fish tissue). All congeners were outside the Centredale Manor Tasks 19-22 QAPP (1/21/01) specified criterion of 50 %R from the consensus value. Since all of the congeners had low recoveries, the results for dioxin/furan in all samples were estimated (J, UJ) due to the possibility of biased low results. The TCX initial calibration % RSD was noncompliant. The laboratory did not perform additional quality control procedures, neither a laboratory control sample nor matrix spike samples, for the TCX analysis. Therefore, the results of the initial calibration standards were investigated. The low standards in the multi-point initial calibration had an erratic response. The laboratory used the lowest standard as the reporting limit for the non-detected results. The erratic response would indicate that this may not be an appropriate reporting limit. Therefore, the TCX results were rejected (R). The method blanks exhibited low level contamination. This contamination problem does not have an impact on the usability of the dioxin/furan data. Contaminants were found in both the blanks and the field samples. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination. Data validation indicated minor data quality problems which do not significantly impact the usability of the dioxin/furan data. However, the TCX data were rejected. See the data validation memorandum for details. The reported results are usable for the site objectives.

* The evaluation of "sampling error" cannot be completely assessed in the data validation.

** Sampling variability is not assessed in data validation.

Validator: [signature]

Date: 11/7/02

Data Summary Table

(Dioxin/Furan Analysis - Tissue Samples (ppb wet weight))

SITE: Centredale Manor - N. Providence, RI
CASE NO. Meeting 8 SDF 1 SDG No. 49038-41 DIF
LABORATORY: Battelle

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	A-TS-35-N		A-TS-45-N		A-TS-49-N		A-TS-49-N		A-TS-67-N	
STATION LOCATION:		ALLENDALE POND		ALLENDALE POND		ALLENDALE POND		ALLENDALE POND		ALLENDALE POND	
MATRIX:		NESTLING		NESTLING		NESTLING		NESTLING		NESTLING	
TCDD/TCDF CONG.:		ppb	DL/EMPC*	ppb	DL/EMPC*	ppb	DL/EMPC*	ppb	DL/EMPC*	ppb	DL/EMPC*
2,3,7,8-TCDD	1.0	591.41 J		995.03 J		1028.26 J		922.99 J		1702.68 J	
1,2,3,7,8-PeCDD	1.0	2.85 J		2.92 J		3.98 J		3.51 J		4.11 J	
1,2,3,4,7,8-HxCDD	0.05	3.22 J		2.70 J		3.67 J		3.99 J		3.60 J	
1,2,3,6,7,8-HxCDD	0.01	10.92 J		8.30 J		15.19 J		14.50 J		12.78 J	
1,2,3,7,8,9-HxCDD	0.1	2.32 J		2.23 J		4.16 J		3.16 J		3.02 J	
1,2,3,4,6,7,8-HpCDD	<0.001	32.05 J		24.36 J		32.89 J		93.46 J		32.98 J	
OCDD	0.0001	UJ	32.89	24.55 J		23.49 J		194.41 J		19.39 J	
2,3,7,8-TCDF	1.0	6.05 J		6.85 J		5.59 J		5.93 J		9.28 J	
1,2,3,7,8-PeCDF	0.1	1.67 J		1.15 J		1.74 J		1.27 J		1.97 J	
2,3,4,7,8-PeCDF	1.0	2.49 J		2.33 J		5.25 J		2.05 J		2.63 J	
1,2,3,4,7,8-HxCDF	0.1	UJ	2.80	1.53 J		3.06 J		2.16 J		2.71 J	
1,2,3,6,7,8-HxCDF	0.1	2.00 J		1.89 J		2.24 J		2.46 J		2.85 J	
1,2,3,7,8,9-HxCDF	0.1	UJ	1.57	UJ	0.37	UJ	1.02	UJ	0.25	UJ	0.75
2,3,4,6,7,8-HxCDF	0.1	1.01 J		0.86 J		1.27 J		1.22 J		1.13 J	
1,2,3,4,6,7,8-HpCDF	0.01	5.79 J		3.99 J		4.60 J		9.49 J		5.47 J	
1,2,3,4,7,8,9-HpCDF	0.01	UJ	2.13	0.27 J		0.55 J		0.59 J		0.30 J	
OCDF	0.0001	UJ	1.28	UJ	4.59	11.04 J		UJ	3.69	UJ	0.62
TOTAL TCDD		591.41 J		995.03 J		1028.26 J		922.99 J		1702.68 J	
TOTAL PeCDD		UJ	9.72	UJ	5.62	UJ	0.98	UJ	4.37	UJ	4.11
TOTAL HxCDD		18.15 J		13.40 J		36.29 J		23.15 J		20.38 J	
TOTAL HpCDD		UJ	33.98	25.38 J		40.36 J		95.39 J		34.01 J	
TOTAL TCDF		UJ	8.05	9.18 J		8.53 J		7.89 J		12.97 J	
TOTAL PeCDF		5.69 J		6.50 J		10.67 J		5.33 J		8.33 J	
TOTAL HxCDF		UJ	10.17	5.24 J		12.06 J		7.87 J		9.50 J	
TOTAL HpCDF		UJ	6.79	4.80 J		6.60 J		10.80 J		6.89 J	
HOX - Hexachlorodibenzofurans		11.60 J		37.34 J		16.26 J		20.00 J		59.61 J	
TOX - Tetrachlorodibenzofurans		R		R		R		R		R	
TOXIC EQUIVALENT(1):		600 J		1000 J		1000 J		910 J		1700 J	
PERCENT SOLIDS:		40.1		40.6		37.4		42.9		35.8	
PERCENT LIPIDS:		5.36		6.51		3.55		4.22		3.24	
DILUTION FACTOR:		1.0		1.0		4.0		1.0		1.0	
DATE SAMPLED:		05/12/01		05/09/01		05/07/01		05/12/01		05/08/01	
DATE OF RECEIPT:		07/11/01		07/11/01		07/11/01		07/11/01		07/11/01	
SAMPLE EXTRACTION DATE:		10/03/01		10/03/01		10/03/01		10/03/01		10/03/01	
ANALYSIS DATE:		10/12/01		10/11/01		10/12/01		10/12/01		10/12/01	
LAB SAMPLE ID:		49038-41-14		49038-41-02		49038-41-03		49038-41-04		49038-41-05	

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked. The EMPC values are not qualified with a "J", since they are already estimated.

(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume (106), Number 12, December 1998, Table 3, page 783.

Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table I.

< = The expected upper limit of the TEF values for the congener in ppb.

Data Summary Table

Dioxin/Furan Analysis - Tissue Samples (ug/g wet weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO. Nestling B10F1 SDG no. 49039-41 OF
LABORATORY: Battelle

SAMPLE NUMBER:	Toxicity Equivalency Factors (TEF) (1)	G-TS-02-N			G-TS-04-N			G-TS-07-N			G-TS-22-N			G-TS-39-N		
STATION LOCATION:		GREYSTONE MILL POND			GREYSTONE MILL POND			GREYSTONE MILL POND			GREYSTONE MILL POND			GREYSTONE MILL POND		
MATRIX:		NESTLING			NESTLING			NESTLING			NESTLING			NESTLING		
TCDD/TCDF CONG.:		ppb		DL/EMPC*	ppb		DL/EMPC*	ppb		DL/EMPC*	ppb		DL/EMPC*	ppb		DL/EMPC*
2,3,7,8-TCDD	1.0	0.97	J		23.15	J		6.00	J		9.45	J		1067.26	J	
1,2,3,7,8-PeCDD	1.0	1.12	J			UJ	2.24	1.23	J		1.88	J		2.95	J	
1,2,3,4,7,8-HxCDD	0.05	1.28	J		1.94	J		1.57	J		2.32	J		2.83	J	
1,2,3,6,7,8-HxCDD	0.01	2.82	J		5.09	J		5.15	J		5.22	J		7.79	J	
1,2,3,7,8,9-HxCDD	0.1	0.47	J		1.39	J		0.79	J		0.81	J		1.81	J	
1,2,3,4,6,7,8-HpCDD	0.0001	6.15	J		59.77	J		30.83	J		16.56	J		23.00	J	
OCDD	0.0001		UJ	10.89		UJ	58.83	80.20	J			UJ	11.97	29.33	J	
2,3,7,8-TCDF	1.0	3.13	J		4.24	J		3.35	J		4.28	J		7.48	J	
1,2,3,7,8-PeCDF	0.1	0.70	J		1.29	J		0.67	J		0.93	J		1.36	J	
2,3,4,7,8-PeCDF	1.0	0.78	J		1.75	J		1.05	J		0.89	J		1.70	J	
1,2,3,4,7,8-HxCDF	0.1	0.75	J			UJ	2.00	0.87	J		0.87	J		1.74	J	
1,2,3,6,7,8-HxCDF	0.1	0.62	J		1.08	J		0.78	J		0.79	J		1.62	J	
1,2,3,7,8,9-HxCDF	0.1		UJ	0.26		UJ	1.81		UJ	0.97		UJ	0.50		UJ	0.37
2,3,4,6,7,8-HxCDF	0.1	0.30	J		0.65	J		0.88	J		0.38	J		0.74	J	
1,2,3,4,6,7,8-HpCDF	0.01	0.80	J		0.39	J		2.70	J		1.37	J		3.42	J	
1,2,3,4,7,8,9-HpCDF	0.01		UJ	1.04		UJ	1.88	0.17	J			UJ	0.64	0.22	J	
OCDF	0.0001		UJ	1.22		UJ	9.83		UJ	0.97		UJ	0.40		UJ	0.50
TOTAL TCDD		0.97	J		23.25	J		6.00	J		9.45	J		1067.26	J	
TOTAL PeCDD			UJ	1.12		UJ	6.44		UJ	2.72		UJ	5.08		UJ	6.24
TOTAL HxCDD		5.09	J		11.65	J		8.15	J		10.52	J		13.51	J	
TOTAL HpCDD		6.72	J			UJ	38.86	31.45	J		16.56	J		23.00	J	
TOTAL TCDF		4.37	J			UJ	6.74	4.88	J		6.79	J		10.70	J	
TOTAL PeCDF		2.88	J		5.87	J		4.88	J		3.88	J		7.29	J	
TOTAL HxCDF		2.29	J			UJ	8.18	3.83	J		4.40	J		7.16	J	
TOTAL HpCDF			UJ	1.15		UJ	10.84	3.88	J			UJ	1.68	4.77	J	
HCX - Hexachlorobenzene			UJ	25.35	6.42	J			UJ	29.04		UJ	39.57	43.16	J	
TCX - Tetrachlorobenzene			R			R			R			R			R	
TOXIC EQUIVALENT(1):		18	J		30	J		12	J		17	J		1100	J	
PERCENT SOLIDS:		28.4			37.6			26.5			36.9			35.4		
PERCENT LIPID:		2.59			4.65			6.31			6.19			11.2		
DILUTION FACTOR:		1.0			1.0			1.0			1.0			1.0		
DATE SAMPLED:		05/30/01			05/30/01			05/30/01			05/07/01			05/07/01		
DATE OF RECEIPT:		07/11/01			07/11/01			07/11/01			07/11/01			07/11/01		
SAMPLE EXTRACTION DATE:		10/03/01			10/03/01			10/03/01			10/03/01			10/03/01		
ANALYSIS DATE:		10/12/01			10/12/01			10/12/01			10/12/01			10/12/01		
LAB SAMPLE ID:		49039-41-08			49039-41-15			49039-41-07			49039-41-09			49039-41-09		

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume (106), Number 12, December 1998, Table 3, page 782.
Concentrations reported by the laboratory below the known standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualification are defined in Table 1.
< = The expected upper limit of the TEF values for the congener in birds.
= Result reported from confirmation analysis

Data Summary Table

Dioxin/Furan Analysis - Tissue Samples (ppb wet weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO. Nesting 810F1 SDG No. 49038-41 DF
LABORATORY: Battelle

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	L-TS-83-N		L-TS-83-N		L-TS-78-N		L-TS-84-N		L-TS-89-N	
STATION LOCATION:		LYMANSVILLE POND		LYMANSVILLE POND		LYMANSVILLE POND		LYMANSVILLE POND		LYMANSVILLE POND	
MATRIX:		NESTLING		NESTLING		NESTLING		NESTLING		NESTLING	
TCDD/TCDF CONC.:		ppb	* DL/EMPC*	ppb	* DL/EMPC*	ppb	* DL/EMPC*	ppb	* DL/EMPC*	ppb	* DL/EMPC*
2,3,7,8-TCDD	1.0	1600.87 J		174.63 J		1518.45 J		844.37 J		1025.36 J	
1,2,3,7,8-PeCDD	1.0	3.29 J		3.01 J		4.35 J		4.96 J		4.84 J	
1,2,3,4,7,8-HxCDD	0.06	3.09 J		2.46 J		4.54 J		4.58 J		4.84 J	
1,2,3,6,7,8-HxCDD	0.01	8.03 J		5.85 J		14.29 J		17.30 J		14.02 J	
1,2,3,7,8,9-HxCDD	0.1	2.13 J		1.68 J		2.26 J		2.16 J		2.49 J	
1,2,3,4,6,7,8-HpCDD	< 0.001	23.14 J		18.39 J		34.11 J		33.53 J		24.57 J	
OCDD	0.0001	UJ	14.37	26.32 J		21.33 J		64.27 J		66.21 J	
2,3,7,8-TCDF	1.0	6.79 J		6.12 J		9.21 J		7.02 J		7.24 J	
1,2,3,7,8-PeCDF	0.1	1.46 J		0.92 J		2.35 J		1.46 J		1.53 J	
2,3,4,7,8-PeCDF	1.0	2.59 J		UJ	11.07	6.75 J		2.10 J		2.09 J	
1,2,3,4,7,8-HxCDF	0.1	2.68 J		2.22 J		3.02 J		2.34 J		2.97 J	
1,2,3,6,7,8-HxCDF	0.1	2.98 J		1.57 J		2.87 J		1.95 J		2.01 J	
1,2,3,7,8,9-HxCDF	0.1	UJ	1.26	UJ	2.30	UJ	0.85	UJ	0.27	UJ	0.75
2,3,4,6,7,8-HxCDF	0.1	0.92 J		0.60 J		0.95 J		0.54 J		0.68 J	
1,2,3,4,6,7,8-HpCDF	0.01	3.72 J		3.76 J		5.86 J		5.42 J		4.42 J	
1,2,3,4,7,8,9-HpCDF	0.01	UJ	1.75	UJ	2.22	0.35 J		0.42 J		0.52 J	
OCDF	0.0001	UJ	0.95	UJ	2.89	UJ	1.16	UJ	1.20	UJ	0.64
TOTAL TCDD		1600.87 J		174.63 J		1518.45 J		844.37 J		1025.36 J	
TOTAL PeCDD		UJ	9.14	UJ	3.01	UJ	4.35	UJ	7.71	UJ	6.01
TOTAL HxCDD		15.26 J		9.22 J		22.16 J		26.39 J		23.24 J	
TOTAL HpCDD		24.14 J		21.06 J		36.47 J		34.86 J		46.31 J	
TOTAL TCDF		12.30 J		7.79 J		22.14 J		9.97 J		9.97 J	
TOTAL PeCDF		7.13 J		4.25 J		10.96 J		6.97 J		5.19 J	
TOTAL HxCDF		9.43 J		10.11 J		9.31 J		6.60 J		6.83 J	
TOTAL HpCDF		5.48 J		8.37 J		5.80 J		7.19 J		5.35 J	
HCB - Hexachlorobenzene		32.69 J		UJ	35.25	21.25 J		24.13 J		15.14 J	
TCB - Tetrachlorobenzene		R		R		R		R		R	
TOXIC EQUIVALENT(1):		1500 J		150 J		1500 J		900 J		1000 J	
PERCENT SOLIDS:		28.4		37.6		39.4		35.7		39.1	
PERCENT LIPIDS:		5.19		8.51		7.03		5.42		5.98	
DILUTION FACTOR:		1.0		4.0		1.0		1.0		1.0	
DATE SAMPLED:		00/00/01		00/00/01		00/00/01		00/00/01		00/00/01	
DATE OF RECEIPT:		07/11/01		07/11/01		07/11/01		07/11/01		07/11/01	
SAMPLE EXTRACTION DATE:		10/03/01		10/03/01		10/03/01		10/03/01		10/03/01	
ANALYSIS DATE:		10/12/01		10/12/01		10/12/01		10/12/01		10/12/01	
LAB SAMPLE ID:		49038-41-19		49038-41-10		49038-41-11		49038-41-12		49038-41-13	

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked.

The EMPC values are not qualified with a "J", since they are already estimated.

(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume (109), Number 12, December 1998, Table 3, page 782.

Concentrations reported by the laboratory below the lowest standard are flagged (J) on the Data Summary Table as estimated values. All other necessary qualifications are defined in Table 1.

< = The expected upper limit of the TEF values for the congener in blank.

Ste. Stole — July 31, 2002

US EPA Approval Signature — Date

July 24, 2002
B-02-07-Y-3
Revised: July 29, 2002

Ms. Christine Clark
Regional Sample Control Custodian
Office of Environmental Measurement and Evaluation
U.S. EPA Region I
11 Technology Drive
North Chelmsford, MA 01863

Re: TO No. 010, Task No. 2, TDF No. 0452
Case No. Swallow Egg/Diet B1OF1, SDG No. 48985-25 PCB
Battelle Laboratories - Columbus, OH
Centredale Manor, North Providence, RI

209 PCB Congeners: 6/Tissue/A-TS-45-P, A-TS-47-P, A-TS-52-P, L-TS-62-P, L-TS-63-P, L-TS-90-P

1/Fish Tissue SRM/CIL EDF 2526

Dear Ms. Clark:

A Tier III data validation was performed on the 209 PCB congeners analytical data for six swallow egg samples collected by USGS for the U.S. EPA at the Centredale Manor Site in North Providence, RI. The samples were analyzed according to EPA Method 1668A, December 1999, as outlined in the Centredale Manor Tasks 19-22 QAPP (5/23/01). The samples were validated using first the criteria in the Centredale Manor Tasks 19-22 QAPP (5/23/01) prepared by Battelle Duxbury Operations which include the criteria in EPA Method 1668A, December 1999, defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 criteria, and to EPA Region I's Environmental Services Assistance Team PCB Congener Data Validation ESAT-01-0008 Draft (8/31/01). The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness (CSF Audit - Tier I)
- * Preservation and Technical Holding Times
- PE Samples/Accuracy Check
- * Window Defining Mix
- Initial and Continuing Calibrations
- Chromatographic Resolution
- * Instrument Sensitivity Check
- Blanks
- * Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample

- Laboratory and Field Duplicates
- Internal/Clean-up Standards
- * Sample Analysis and Identification
- Sample Quantitation
- * Estimated Detection Limits (EDL) and Estimated Maximum Possible Concentration (EMPC)
- 2378-TCDD Toxicity Equivalence (TE) and Isomer Specificity
- * **Required Sample Reruns and Second Column Confirmation**
- **System Performance**

* - All criteria were met for this parameter.

The following information was used to generate the Data Validation Memorandum attachments:

Table I: Recommendation Summary Table - summarizes validation recommendations

Table II: Overall Evaluation of Data - summarizes site objectives and potential usability issues

Data Summary Tables - summarize accepted, qualified, and rejected data

Overall Evaluation of Data and Potential Usability Issues

The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01):

- To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for PCB congeners in fish tissue). Three out of five congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value. Since three out of five of the congeners had low recoveries, the results for all congeners in all samples were estimated (J, UJ) due to the possibility of biased low results.

The method blank had low level contamination. However, the concentration in the method blank was insignificant when compared to the concentration found in the field samples. Therefore, the method blank contamination does not impact data usability. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination.

Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the discussion below for details. The reported results are usable for the site objectives.

Data Completeness (CSF Audit - Tier I)

The following data or information in the data package had discrepancies and/or were missing:

1. The laboratory was asked to submit 48514-03-15 M1668 PCB 209 mix for 9/26/01 and 9/27/01.

2. The laboratory was asked to submit the percent solids for this batch of samples.

Items 1 and 2 were requested via the TOPO on June 21, 2002. Item 1 was received via the TOPO on July 16, 2002. Item 1 was adequately addressed. The laboratory indicated that percent solids determinations were not performed on the diet samples.

PE Samples/Accuracy Check

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for PCB congeners in fish tissue). Three out of five congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value.

The following table summarizes the SRM sample (48985-25-18 FISH SRM) results which did not meet the criterion and the resulting sample qualifications:

PE Sample Number	Congener	%D from the consensus value	Action	
			Positive Detects	NDs
CIL EDF 2526	PCB-77	41	J	UJ
CIL EDF 2526	PCB-126	50	J	UJ
CIL EDF 2526	PCB-169	46	J	UJ

Professional judgement was used to estimate (J, UJ) all the results since three out of five of the congeners had low recoveries indicating the possibility of biased low results.

The laboratory documented in their report that the low recoveries of the congeners in the SRM may be due to the lipid content. The laboratory indicated that for future analyses of associated samples the SRM preparation procedures will be modified.

Initial and Continuing Calibrations

The following table summarizes the Calibration Verification (VER) results which did not meet Method 1668A recovery criterion and the resulting sample qualifications:

VER Date	Compound	Recovery (ng/ml)	Acceptable Recovery Range (ng/ml)	Action		Affected Samples
				Positive Detects	NDs	
9/26/01 (Beginning)	$^{13}C_{12}$-PCB-126	159	50-150	J	UJ	A-TS-45-P, A-TS-52-P, L-TS-62-P, L-TS-63-P
9/27/01 (Ending)	$^{13}C_{12}$-PCB-105	171	50-150	J	UJ	A-TS-45-P, A-TS-52-P, L-TS-62-P, L-TS-63-P
9/27/01 (Ending)	$^{13}C_{12}$-PCB-126	173	50-150	J	UJ	A-TS-45-P, A-TS-52-P, L-TS-62-P, L-TS-63-P
9/27/01 (Ending)	$^{13}C_{12}$-PCB-169	170	50-150	J	UJ	A-TS-45-P, A-TS-52-P, L-TS-62-P, L-TS-63-P

The data associated with recoveries of noncompliant calibration verifications are qualified due to the high variability. The quantitation of the associated analytes in the samples could be biased.

Chromatographic Resolution

Many PCB congeners coeluted on the SPB-Octyl gas chromatography column used for this project. This situation was documented in Centredale Manor Tasks 19-22 QAPP (5/23/01). The laboratory reported the coeluting concentrations as totals. These totals are reported on the Data Summary Tables in this report and are not affected by the coelution of the congeners. Three of the "toxic congeners" with TEF values coeluted: PCB-123, PCB-156, and PCB-157.

Coeluting Congeners	Reported as on the Data Summary Table:
PCB-12, PCB-13	PCB-12/PCB-13
PCB-18, PCB-30	PCB-18/PCB-30
PCB-20, PCB-21, PCB-28, PCB-33	PCB-20/PCB-21/PCB-28/PCB-33
PCB-24, PCB-27	PCB-24/PCB-27
PCB-26, PCB-29	PCB-26/PCB-29
PCB-40, PCB-41, PCB-71	PCB-40/PCB-41/PCB-71
PCB-43, PCB-52, PCB-73	PCB-43/PCB-52/PCB-73
PCB-44, PCB-47, PCB-65	PCB-44/PCB-47/PCB-65
PCB-45, PCB-51	PCB-45/PCB-51
PCB-49, PCB-69	PCB-49/PCB-69
PCB-50, PCB-53	PCB-50/PCB-53

Coeluting Congeners	Reported as on the Data Summary Table:
PCB-59, PCB-62, PCB-75	PCB-59/PCB-62/PCB-75
PCB-61, PCB-70, PCB-74, PCB-76	PCB-61/PCB-70/PCB-74/PCB-76
PCB-83, PCB-99	PCB-83, PCB-99
PCB-85, PCB-116, PCB-117	PCB-85/PCB-116/PCB-117
PCB-86, PCB-87, PCB-97, PCB-109, PCB-119, PCB-125	PCB-86/PCB-87/PCB-97/PCB-109/PCB-119/PCB-125
PCB-90, PCB-101, PCB-113	PCB-90/PCB-101/PCB-113
PCB-88, PCB-91	PCB-88/PCB-91
PCB-93, PCB-95, PCB-98, PCB-100, PCB-102	PCB-93/PCB-95/PCB-98/PCB-100/PCB-102
PCB-108, PCB-124	PCB-108/PCB-124
PCB-110, PCB-115	PCB-110/PCB-115
PCB-106, PCB-107, PCB-123	PCB-106/PCB-107/2344'5-PentaCB (#123)
PCB-128, PCB-166	PCB-128/PCB-166
PCB-129, PCB-138, PCB-160, PCB-163	PCB-129/PCB-138/PCB-160/PCB-163
PCB-134, PCB-143	PCB-134/PCB-143
PCB-135, PCB-151, PCB-154	PCB-135/PCB-151/PCB-154
PCB-137, PCB-164	PCB-137/PCB-164
PCB-146, PCB-161	PCB-146/PCB-161
PCB-147, PCB-149	PCB-147/PCB-149
PCB-153, PCB-168	PCB-153/PCB-168
PCB-156, PCB-157	233'44'5-HexaCB(#156)/233'44'5'-HexaCB(#157)
PCB-171, PCB-173	PCB-171/PCB-173
PCB-180, PCB-193	PCB-180/PCB-193
PCB-198, PCB-199	PCB-198/PCB-199

Blanks

The blank associated with this SDG was evaluated for possible sources of contamination. The following table lists the highest concentration of contamination that was detected in the blank. The table lists the action levels and the samples affected:

Congener	Type of Blank	Blank Concentration (ng/Kg) 1.6g Sample	Action Level (ng/Kg) 1.6g Sample	Sample Affected
PCB-1	Method Blank (9/26/01)	29	140	A-TS-45-P, A-TS-52-P, L-TS-62-P, L-TS-63-P, L-TS-90-P
PCB-3	Method Blank (9/26/01)	24	120	A-TS-45-P, A-TS-52-P, L-TS-62-P, L-TS-63-P, L-TS-90-P
PCB-4	Method Blank (9/26/01)	40	200	All
PCB-6	Method Blank (9/26/01)	23	120	All
PCB-8	Method Blank (9/26/01)	124	620	All
PCB-12/PCB-13	Method Blank (9/26/01)	24	120	All
PCB-16	Method Blank (9/26/01)	35	180	A-TS-45-P, A-TS-47-P, A-TS-52-P, L-TS-63-P, L-TS-90-P
PCB-17	Method Blank (9/26/01)	32	160	A-TS-45-P, A-TS-52-P
PCB-18/PCB-30	Method Blank (9/26/01)	65	320	A-TS-45-P, A-TS-52-P
PCB-19	Method Blank (9/26/01)	8.3	42	A-TS-45-P, A-TS-52-P, L-TS-63-P, L-TS-90-P
PCB-22	Method Blank (9/26/01)	66	330	A-TS-45-P, A-TS-52-P, L-TS-62-P, L-TS-63-P, L-TS-90-P
PCB-32	Method Blank (9/26/01)	21	105	L-TS-63-P
PCB-46	Method Blank (9/26/01)	8.1	40	A-TS-52-P, L-TS-90-P
PCB-56	Method Blank (9/26/01)	72	360	A-TS-52-P

Blank actions are based on Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 and EPA Region I's Environmental

Services Assistance Team PCB Congener data Validation ESAT-01-0008 Draft (8/31/01) criteria. Blank action levels are calculated as five times the highest concentration of the contaminant determined in any blank. The positive sample results that are less than the blank action level are reported as non-detects (U) at the reported concentration on the Data Summary Table.

Laboratory Control Sample

The laboratory extracted and analyzed one OPR/LCS with this group of samples. The following table summarizes the Ongoing Precision and Recovery (OPR) result which did not meet Centredale Manor Tasks 19-22 QAPP (5/23/01) recovery criterion and the resulting sample qualifications:

OPR Date	Compound	% Recovery	% Recovery Range	Action		Affected Samples
				Positive Detects	NDs	
09/26/01	PCB-118	176	50-150	J	A	All

The data associated with high recoveries of a noncompliant OPR/LCS are estimated (J).

Laboratory and Field Duplicates

One laboratory duplicate pair was evaluated for this SDG (A-TS-47-P/A-TS-47-PDup).

The table below summarizes the laboratory duplicate results which did not meet the duplicate criterion of Relative Percent Difference (RPD) < 30% as specified by Centredale Manor Tasks 19-22 QAPP (5/23/01).

Congener	A-TS-47-P	A-TS-47-P	RPD	Action		Affected Samples
	Sample Conc. (ng/Kg)	Duplicate Conc. (ng/Kg)		Positive Detects	Non-Detects	
PCB-81	870	ND	NC	J	UJ	All

NC RPD is not calculated when one concentration is non-detected.

Professional judgment was used to estimate (J, UJ) results for PCB-81 in all samples since PCB-81 congener's laboratory duplicate precision was outside criterion.

Internal/Clean-up Standards

- Clean-up Standards

The following table summarizes the Clean-up standard with recovery values which did not meet the Centredale Manor Tasks 19-22 QAPP (5/23/01) acceptance criterion of 30-135%:

Clean-up Standard	% Recovery	Action		Affected Samples
		Positive Detects	NDs	
$^{13}C_{12}$-PCB-28	161	J	UJ	A-TS-45-P
$^{13}C_{12}$-PCB-28	153	J	UJ	L-TS-63-P

Since high recoveries may indicate interference in the clean-up process, the sample was qualified as noted above for all congeners.

Sample Quantitation

Concentrations quantitated below the lowest calibration standard are flagged (J) on the Data Summary Tables. Quantitation is not accurate when the reported results are below the lowest calibration standard.

2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity

TE values were not calculated by the laboratory. All TE values reported on the Data Summary Tables have been calculated by the ESAT data validator using the validated data discussed above in this report. The validated data accounts for blank contamination. The bird TEF values for the PCBs are published in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number 12, December 1998, Table 3, page 782.

System Performance

No trends noted.

Very truly yours,

LOCKHEED ENVIRONMENTAL

Janine Barbels
Principal Scientist

Louis Macri
ESAT Program Manager

cc: Cornell Rosiu, EPA Project Manager (DV Memorandum, Data Summary Table)

Attachments: Table I: Recommendation Summary Table
Table II: Overall Evaluation of Data
Data Summary Tables
Data Validation Worksheets
Analytical Method
PE Scores
Communication/Phone Logs
Field Sampling Notes

Table I

Recommendation Summary Table for 209 PCB Congeners

Centredale Manor Site

Case No.: Swallow Egg/Diet B1OF1/SDG No. 48985-25 PCB

Sample Nos.	A-TS-45-P	A-TS-47-P	A-TS-52-P	L-TS-62-P	L-TS-63-P	L-TS-90-P
Compound						
PCB-1	J[1,4,5]	J[1]	J[1,5]	J[1,5]	J[1,4,5]	J[1,5]
PCB-3	J[1,4,5]	J[1]	J[1,5]	J[1,5]	J[1,4,5]	J[1,5]
PCB-4	J[1,4,5]	J[1,5]	J[1,5]	J[1,5]	J[1,4,5]	J[1,5]
PCB-5	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-6	J[1,4,5]	J[1,5]	J[1,5]	J[1,5]	J[1,4,5]	J[1,5]
PCB-7	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-8	J[1,4,5]	J[1,5]	J[1,5]	J[1,5]	J[1,4,5]	J[1,5]
PCB-9	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-10	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-12/PCB-13	J[1,4,5]	J[1,5]	J[1,5]	J[1,5]	J[1,4,5]	J[1,5]
PCB-16	J[1,4,5]	J[1,5]	J[1,5]	J[1]	J[1,4,5]	J[1,5]
PCB-17	J[1,4,5]	J[1]	J[1,5]	J[1]	J[1,4]	J[1]
PCB-18/PCB-30	J[1,4,5]	J[1]	J[1,5]	J[1]	J[1,4]	J[1]
PCB-19	J[1,4,5]	J[1]	J[1,5]	J[1]	J[1,4,5]	J[1,5]
PCB-20/PCB-21/PCB-28/PCB-33	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-22	J[1,4,5]	J[1]	J[1,5]	J[1,5]	J[1,4,5]	J[1,5]
PCB-24/PCB-27	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-25	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-26/PCB-29	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]

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Table I
Recommendation Summary Table for 209 PCB Congeners
Centredale Manor Site
Case No.: Swallow Egg/Diet B1OF1/SDG No. 48985-25 PCB

Sample Nos.	A-TS-45-P	A-TS-47-P	A-TS-52-P	L-TS-62-P	L-TS-63-P	L-TS-90-P
Compound						
PCB-31	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-32	J[1,4]	J[1]	J[1]	J[1]	J[1,4,5]	J[1]
PCB-40/PCB-41/PCB-71	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-42	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-43/PCB-52/PCB-73	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-44/PCB-47/PCB-65	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-45/PCB-51	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-46	J[1,4]	J[1]	J[1,5]	J[1]	J[1,4]	J[1,5]
PCB-48	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-49/PCB-69	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-50/PCB-53	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-56	J[1,4]	J[1]	J[1,5]	J[1]	J[1,4]	J[1]
PCB-59/PCB-62/PCB-75	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-60	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-63	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-64	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-66	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-61/PCB-70/PCB-74/PCB-76	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
33'44'-TetraCB (#77)	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]

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Table I
Recommendation Summary Table for 209 PCB Congeners
Centredale Manor Site
Case No.: Swallow Egg/Diet B1OF1/SDG No. 48985-25 PCB

Sample Nos.	A-TS-45-P	A-TS-47-P	A-TS-52-P	L-TS-62-P	L-TS-63-P	L-TS-90-P
Compound						
344'5-TetraCB (#81)	$j^{1,2,4}$	$j^{1,2}$	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	$j^{1,2}$
PCB-82	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
PCB-83/PCB-99	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
PCB-84	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
PCB-85/PCB-116/PCB-117	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
PCB-86/PCB-87/PCB-97/PCB-109/PCB-119/PCB-125	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
PCB-89	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
PCB-90/PCB-101/PCB-113	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
PCB-88/PCB-91	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
PCB-92	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
PCB-93/PCB-95/PCB-98/PCB-100/PCB-102	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
233'44'-PentaCB (#105)	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
PCB-108/PCB-124	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
PCB-110/PCB-115	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
2344'5-PentaCB (#114)	$j^{1,4}$	j^{1}	j^{1}	j^{1}	$j^{1,4}$	j^{1}
23'44'5-PentaCB (#118)	$j^{1,4,6}$	$j^{1,4}$	$j^{1,4}$	$j^{1,4}$	$j^{1,4,6}$	$j^{1,4}$
PCB-106/PCB-107/2'344'5-PentaCB (#123)	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}
33'44'5-PentaCB (#126)	$j^{1,2,4}$	j^{1}	$j^{1,2}$	$j^{1,2}$	$j^{1,2,4}$	j^{1}

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Table I
Recommendation Summary Table for 209 PCB Congeners
Centredale Manor Site
Case No.: Swallow Egg/Diet B1OF1/SDG No. 48985-25 PCB

Sample Nos.	A-TS-45-P	A-TS-47-P	A-TS-52-P	L-TS-62-P	L-TS-63-P	L-TS-90-P
Compound						
PCB-128/PCB-166	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-129/PCB-138/PCB-160/PCB-163	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-130	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-131	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-132	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-134/PCB-143	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-135/PCB-151/PCB-154	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-136	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-137/PCB-164	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-141	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-144	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-146/PCB-161	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-147/PCB-149	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-153/PCB-168	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
233'44'5-HexaCB (#156)/233'44'5'-HexaCB (#157)	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-158	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
23'44'55'-HexaCB (#167)	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
33'44'55'-HexaCB (#169)	J[1,3,4]	J[1]	J[1,3]	J[1,3]	J[1,3,4]	J[1]
PCB-170	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]

Table I
Recommendation Summary Table for 209 PCB Congeners
Centredale Manor Site
Case No.: Swallow Egg/Diet B1OF1/SDG No. 48985-25 PCB

Sample Nos.	A-TS-45-P	A-TS-47-P	A-TS-52-P	L-TS-62-P	L-TS-63-P	L-TS-90-P
Compound						
PCB-171/PCB-173	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-172	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-174	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-175	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-176	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-177	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-178	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-180/PCB-193	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-182	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-183	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-184	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-185	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-187	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
233'44'55'-HeptaCB (#189)	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-190	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-191	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-194	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-195	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-196	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]
PCB-197	J[1,4]	J[1]	J[1]	J[1]	J[1,4]	J[1]

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Table I
Recommendation Summary Table for 209 PCB Congeners
Centredale Manor Site
Case No.: Swallow Egg/Diet B1OF1/SDG No. 48985-25 PCB

Sample Nos.	A-TS-45-P	A-TS-47-P	A-TS-52-P	L-TS-62-P	L-TS-63-P	L-TS-90-P
Compound						
PCB-198/PCB-199	J[4]	J[1]	J[1]	J[1]	J[4]	J[1]
PCB-200	J[4]	J[1]	J[1]	J[1]	J[4]	J[1]
PCB-201	J[4]	J[1]	J[1]	J[1]	J[4]	J[1]
PCB-203	J[4]	J[1]	J[1]	J[1]	J[4]	J[1]
PCB-205	J[4]	J[1]	J[1]	J[1]	J[4]	J[1]
PCB-206	J[4]	J[1]	J[1]	J[1]	J[4]	J[1]
PCB-207	J[4]	J[1]	J[1]	J[1]	J[4]	J[1]
PCB-208	J[4]	J[1]	J[1]	J[1]	J[4]	J[1]

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Table I
Recommendation Summary Table for PCB Congeners

A	-	Accept all results.
J[1]	-	PE %D outside criterion; J detects, UJ non-detects.
J[2]	-	Duplicate precision outside criterion; J detects, UJ non-detects.
J[3]	-	VER recoveries outside criterion; J detects, UJ non-detects.
J[4]	-	Clean-up standard recoveries outside criterion; J detects, UJ non-detects.
J[5]	-	Method blank contamination; positive sample results less than the blank action level are reported as non-detects (U) at the concentration reported.
J[6]	-	OPR/LCS recovery outside criterion; J detects.

EPA-NE - Data Validation Worksheet

Overall Evaluation of Data - Data Validation Memorandum - Table II

PCB ANALYSIS					
DQO (for all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability	Potential Usability Issues
		Analytical Error	Sampling Error*		
The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01). To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.	Yes, Sampling Method appropriate for all samples Yes, Analytical Method appropriate for all samples.	Refer to qualification in R/S Key on Table I: J,UJ,NA	Refer to qualification in R/S Key on Table I: NA	**	One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for PCB congeners in fish tissue). Three out of five congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value. Since three out of five of the congeners had low recoveries, the results for all congeners in all samples were estimated (J, UJ) due to the possibility of biased low results. The method blank had low level contamination. However, the concentration in the method blank was insignificant when compared to the concentrations found in the field samples. Therefore, the method blank contamination does not impact data usability. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination. Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the data validation memorandum for details. The reported results are usable for the site objectives.

* The evaluation of "sampling error" cannot be completely assessed in the data validation.

** Sampling variability is not assessed in data validation.

Validator: [signature]

Date: 7/29/02

020/010/Eh

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Data Summary Table

[illegible]

[illegible]

[illegible]

SAMPLE NUMBER / STATION LOCATION / MATRIX	Theory Standard Packet ID	[illegible] / [illegible] / TISSUE		[illegible] / [illegible] / TISSUE		[illegible] / [illegible] / TISSUE		[illegible] / LYNNSVILLE POND / TISSUE		[illegible] / LYNNSVILLE POND / TISSUE		[illegible] / [illegible] / TISSUE	
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

SAMPLE NUMBER: / STATION LOCATION: / MATRIX:	Toxicity Equivalency Factors (1)	A-T… ALLENDALE POND TISSUE		A-T… ALLENDALE POND TISSUE		A-T… ALLENDALE POND TISSUE		L-T… LYNNVALE POND TISSUE		L-T… LYNNEVALE POND TISSUE		L-T… LYNNEVALE POND TISSUE	
		ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*
[illegible]	[illegible]	[illegible] J		[illegible] J		[illegible] J		[illegible] J		[illegible] J		[illegible] J	
[illegible]		[illegible]		U	707.84	[illegible] J		U	763.70	[illegible] J		U	[illegible]
[illegible]		[illegible]		[illegible] J		[illegible] J		[illegible]		U	718.71	U	[illegible]
TOTAL PCB		[illegible]		[illegible] J		[illegible]		[illegible] J		[illegible] J		[illegible] J	
[illegible]			[illegible] J		[illegible] J		[illegible] J		[illegible] J		[illegible] J		[illegible] J
LABORATORY SAMPLE ID:			[illegible]		43333-08-14		41665-05-11		43655-25-12		[illegible]		43655-25-16

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are [illegible].
The EMPC values are not qualified with a "J", since they are already estimated.
(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) listed in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number 12, December 1998, Table 3, page 782.

Steve Stadler
US EPA Approval Signature

July 3, 2002
Date

June 14, 2002
L-02-06-Z-05
Revised: July 3, 2002

Ms. Christine Clark
Regional Sample Control Custodian
Office of Environmental Measurement and Evaluation
U.S. EPA Region I
11 Technology Drive
North Chelmsford, MA 01863

Re: TO No. 010, Task No. 2, TDF No. 0454B
Case No. Nestling B1OF1, SDG No. 49038-41 PCB
Battelle Laboratories - Columbus, OH
Centredale Manor, North Providence, RI

209 PCB Congeners: 3/Tissue/A-TS-35-N, G-TS-04-N, L-TS-62-N

1/Fish Tissue SRM/CIL EDF 2526

Dear Ms. Clark:

A Tier III data validation was performed on the 209 PCB congeners analytical data for three Swallow Nestlings tissue samples collected by USGS for the U.S. EPA at the Centredale Manor Site in North Providence, RI. The samples were analyzed according to EPA Method 1668A, December 1999, as outlined in the Centredale Manor Tasks 19-22 QAPP (5/23/01). The samples were validated using first the criteria in the Centredale Manor Tasks 19-22 QAPP (5/23/01) prepared by Battelle Duxbury Operations which include the criteria in EPA Method 1668A, December 1999, defaulting next to Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 criteria, and to EPA Region I's Environmental Services Assistance Team PCB Congener Data Validation ESAT-01-0008 Draft (8/31/01). The data were evaluated based on the following parameters:

	•	Overall Evaluation of Data and Potential Usability Issues
	•	Data Completeness (CSF Audit - Tier I)
•	•	Preservation and Technical Holding Times
	•	PE Samples/Accuracy Check
•	•	Window Defining Mix
	•	Initial and Continuing Calibrations
	•	Chromatographic Resolution
•	•	Instrument Sensitivity Check
	•	Blanks
•	•	Matrix Spike/Matrix Spike Duplicate

*	•	**Laboratory Control Sample**
*	•	**Laboratory and Field Duplicates**
	•	**Internal/Clean-up Standards**
*	•	Sample Analysis and Identification
	•	Sample Quantitation
*	•	Estimated Detection Limits (EDL) and Estimated Maximum Possible Concentration (EMPC)
	•	**2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity**
*	•	**Required Sample Reruns and Second Column Confirmation**
	•	**System Performance**

* - All criteria were met for this parameter.

<u>The following information was used to generate the Data Validation Memorandum attachments:</u>

Table I: Recommendation Summary Table - summarizes validation recommendations

Table II: Overall Evaluation of Data - summarizes site objectives and potential usability issues

Data Summary Tables - summarize accepted, qualified, and rejected data

<u>Overall Evaluation of Data and Potential Usability Issues</u>

The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01):

- To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for PCB congeners in fish tissue). Since the majority of congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value and all of the congeners had low recoveries, the results for all congeners in all samples were estimated (J, UJ) due to the possibility of biased low results.

The method blank had low level contamination. However, the concentration in the method blank was insignificant when compared to the concentration found in the field samples. Therefore, the method blank contamination does not impact data usability. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (U) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination.

Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the discussion below for details. The reported results are usable for the site objectives.

Data Completeness (CSF Audit - Tier I)

The following data or information in the data package had discrepancies and/or were missing:

1. The laboratory was asked to submit the original Chain-of-Custody completed by the sampler and received by the laboratory for this batch of samples.

2. The laboratory was asked to submit internal Chain-of-Custody records showing custody of the samples throughout the laboratory: from the time they were received at Battelle MSL to their arrival at Battelle Columbus on August 11, 2001. In addition, the laboratory was asked to provide records indicating conditions/temperature of the sample storage.

3. The laboratory was asked to submit tabulated results of percent recoveries and RPD values for the matrix spike and matrix spike duplicate samples.

4. The laboratory was asked to submit tabulated results for SRM associated with this batch of samples.

5. The laboratory was asked to provide the SOP for PCB analysis Using Modified Method 1668, Revision A.

6. The laboratory was asked to provide the quantitation reference for PCB congeners (if this reference was not included in the SOP).

All items were requested via the TOPO on March 5, 2002. The response was received via the TOPO on March 20, 2002. All items were inadequately addressed.

PE Samples/Accuracy Check

One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for PCB congeners in fish tissue). Three out of five congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value.

The following table summarizes the SRM sample (49038-41-20 FISH SRM) results which did not meet the criterion and the resulting sample qualifications:

PE Sample Number	Congener	%D from consensus value	Action	
			Positive Detects	NDs
CIL EDF 2526	PCB-77	60.7	J	UJ
CIL EDF 2526	PCB-126	64.1	J	UJ
CIL EDF 2526	PCB-169	56.2	J	UJ

Since the majority of congeners had low recoveries and non-compliant %Ds, the results for all PCB congeners in all samples were estimated (J, UJ) due to the possibility of biased low results.

The laboratory documented in their report that the low recoveries of the congeners in the SRM may be due to the lipid content. The laboratory indicated that for future analyses of associated samples the SRM preparation procedures will be modified.

Initial and Continuing Calibrations

The following table summarizes the Calibration Verification (VER) results which did not meet Method 1668A recovery criterion and the resulting sample qualifications:

VER Date	Compound	Recovery (ng/ml)	Acceptable Recovery Range (ng/ml)	Action		Affected Samples
				Positive Detects	NDs	
12/09/01 (Binding)	$^{13}C_{12}$-PCB-19	152	50-150	J	UJ	All

The data associated with recoveries of noncompliant calibration verifications are qualified due to the high variability. The quantitation of the associated analytes in the samples could be biased.

Chromatographic Resolution

Many PCB congeners coeluted on the SPB-Octyl column used for the analysis. The laboratory reported the total concentration for the coeluting PCBs. These total concentrations are reported on the Data Summary Table. Three of the "toxic congeners" with TEF values coeluted: PCB-123, PCB-156, and PCB-157.

Coeluting Congeners	Reported as on the Data Summary Table:
PCB-12, PCB-13	PCB-12/PCB-13
PCB-16, PCB-24, PCB-27	PCB-16/ PCB-24/ PCB-27
PCB-18, PCB-30	PCB-18/PCB-30
PCB-20, PCB-21, PCB-28, PCB-33	PCB-20/PCB-21/PCB-28/PCB-33
PCB-26, PCB-29	PCB-26/PCB-29
PCB-40, PCB-41, PCB-71	PCB-40/PCB-41/PCB-71
PCB-43, PCB-52, PCB-73	PCB-43/PCB-52/PCB-73
PCB-44, PCB-47, PCB-65	PCB-44/PCB-47/PCB-65
PCB-45, PCB-51	PCB-45/PCB-51
PCB-49, PCB-69	PCB-49/PCB-69
PCB-50, PCB-53	PCB-50/PCB-53

Coeluting Congeners	Reported as on the Data Summary Table:
PCB-59, PCB-62, PCB-75	PCB-59/PCB-62/PCB-75
PCB-61, PCB-70, PCB-74, PCB-76	PCB-61/PCB-70/PCB-74/PCB-76
PCB-83, PCB-99, PCB-112	PCB-83/ PCB-99/PCB-112
PCB-85, PCB-116, PCB-117	PCB-85/PCB-116/PCB-117
PCB-86, PCB-87, PCB-97, PCB-109, PCB-119, PCB-125	PCB-86/PCB-87/PCB-97/PCB-109/PCB-119/PCB-125
PCB-90, PCB-101, PCB-113	PCB-90/PCB-101/PCB-113
PCB-88, PCB-91	PCB-88/PCB-91
PCB-93, PCB-98, PCB-100, PCB-102	PCB-93/PCB-98/PCB-100/PCB-102
PCB-108, PCB-124	PCB-108/PCB-124
PCB-110, PCB-115	PCB-110/PCB-115
PCB-106, PCB-107, PCB-123	PCB-106/PCB-107/2'344'5-PentaCB (#123)
PCB-128, PCB-166	PCB-128/PCB-166
PCB-129, PCB-138, PCB-160, PCB-163	PCB-129/PCB-138/PCB-160/PCB-163
PCB-134, PCB-143	PCB-134/PCB-143
PCB-135, PCB-151, PCB-154	PCB-135/PCB-151/PCB-154
PCB-137, PCB-164	PCB-137/PCB-164
PCB-146, PCB-161	PCB-146/PCB-161
PCB-147, PCB-149	PCB-147/PCB-149
PCB-153, PCB-168	PCB-153/PCB-168
PCB-156, PCB-157	233'44'5-HexaCB(#156)/233'44'5'-HexaCB(#157)
PCB-171, PCB-173	PCB-171/PCB-173
PCB-174, PCB-183, PCB-185	PCB-174/ PCB-183/ PCB-185
PCB-180, PCB-193	PCB-180/PCB-193
PCB-197, PCB-200	PCB-197/ PCB-200
PCB-198, PCB-199	PCB-198/PCB-199

Blanks

One blank was associated with this SDG and was evaluated for possible sources of contamination. The following table lists the highest concentration of contamination that was detected in this blank. The table lists the action levels/actions and the samples affected:

Congener	Type of Blank	Blank Concentration ng/Kg	Action Level ng/Kg	Samples Affected
PCB-1	**Method Blank (10/03/01)**	**16**	**81**	**A-TS-35-N, L-TS-62-N**
PCB-3	Method Blank (10/03/01)	21	100	A-TS-35-N, L-TS-62-N
PCB-4	Method Blank (10/03/01)	40	200	A-TS-35-N
PCB-8	**Method Blank (10/03/01)**	**70**	**350**	**All samples**
PCB-197/PCB-200	Method Blank (10/03/01)	53	270	A-TS-35-N, G-TS-04-N

Blank actions are based on Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 and EPA Region I's Environmental Services Assistance Team PCB Congener data Validation ESAT-01-0008 Draft (8/31/01) criteria. Blank action levels are calculated as five times the highest concentration of the contaminant determined in any blank. The positive sample results that are less than the blank action level are reported as non-detects (U) at the reported concentration on the Data Summary Table.

Internal/Clean-up Standards

- Internal Standards

The following table summarizes the internal standard recoveries that did not meet Centredale Manor Tasks 19-22 QAPP (5/23/01) acceptance criterion of 25-150%:

Standard	% Recovery	Action		Affected Sample
		Positive Detects	NDs	
$^{13}C_{12}$-PCB-209	29	J	UJ	L-TS-62-N

The corresponding non-labeled congener results are estimated as shown in the table due to internal standard percent recoveries outside method acceptance criterion.

Sample Quantitation

Concentrations quantitated below the lowest calibration standard are flagged (J) on the Data Summary Tables. Quantitation is not accurate when the reported results are below the lowest calibration standard.

2378-TCDD Toxicity Equivalents (TE) and Isomer Specificity

All TE values reported on the Data Summary Tables have been calculated by the ESAT data validator using the validated data discussed above in this report. The validated data accounts for blank contamination. The TE calculations include the reported EMPC values. The fish TEF values for the PCBs are published in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number 12, December 1998, Table 2, page 780.

System Performance

No trends noted.

Very truly yours,

LOCKHEED ENVIRONMENTAL

Maria E. Baca
Senior Scientist

Louis Macri
ESAT Program Manager

cc: Cornell Rosiu, EPA RPM (DV Memorandum, Data Summary Table)

Attachments: Table I: Recommendation Summary Table
Table II: Overall Evaluation of Data
Data Summary Tables
Data Validation Worksheets
Analytical Method
PE Scores
Communication/Phone Logs
Field Sampling Notes

Table I
Recommendation Summary Table for 209 PCB Congeners
Centredale Manor Site
Case No.: Nestling B1OF1/SDG No. 49038-41 PCB

Sample Nos.	A-TS-35-N	G-TS-04-N	L-TS-62-N
Compound			
PCB-1	J[1,3]	J[1]	J[1,3]
PCB-3	J[1,3]	J[1]	J[1,3]
PCB-4	J[1,3]	J[1]	J[1]
PCB-5	J[1]	J[1]	J[1]
PCB-6	J[1]	J[1]	J[1]
PCB-7	J[1]	J[1]	J[1]
PCB-8	J[1,3]	J[1,3]	J[1,3]
PCB-9	J[1]	J[1]	J[1]
PCB-10	J[1]	J[1]	J[1]
PCB-12/PCB-13	J[1]	J[1]	J[1]
PCB-16/PCB-24/PCB-27	J[1,3]	J[1,2]	J[1,2]
PCB-17	J[1,2]	J[1,2]	J[1,2]
PCB-18/PCB-30	J[1,2]	J[1,2]	J[1,2]
PCB-19	J[1,2]	J[1,2]	J[1,2]
PCB-20/PCB-21/PCB-28/PCB-33	J[1,2]	J[1,2]	J[1,2]
PCB-22	J[1,2]	J[1,2]	J[1,2]
PCB-25	J[1,2]	J[1,2]	J[1,2]
PCB-26/PCB-29	J[1,2]	J[1,2]	J[1,2]
PCB-31	J[1,2]	J[1,2]	J[1,2]
PCB-32	J[1,2]	J[1,2]	J[1,2]
PCB-40/PCB-41/PCB-71	J[1]	J[1]	J[1]
PCB-42	J[1]	J[1]	J[1]

Table I
Recommendation Summary Table for 209 PCB Congeners
Centredale Manor Site
Case No.: Nestling B1OF1/SDG No. 49038-41 PCB

Sample Nos.	A-TS-35-N	G-TS-04-N	L-TS-62-N
Compound			
PCB-43/PCB-52/PCB-73	J[1]	J[1]	J[1]
PCB-44/PCB-47/PCB-65	J[1]	J[1]	J[1]
PCB-45/PCB-51	J[1]	J[1]	J[1]
PCB-46	J[1]	J[1]	J[1]
PCB-48	J[1]	J[1]	J[1]
PCB-49/PCB-69	J[1]	J[1]	J[1]
PCB-50/PCB-53	J[1]	J[1]	J[1]
PCB-56	J[1]	J[1]	J[1]
PCB-59/PCB-62/PCB-75	J[1]	J[1]	J[1]
PCB-60	J[1]	J[1]	J[1]
PCB-63	J[1]	J[1]	J[1]
PCB-64	J[1]	J[1]	J[1]
PCB-66	J[1]	J[1]	J[1]
PCB-61/PCB-70/PCB-74/PCB-76	J[1]	J[1]	J[1]
33'44'-TetraCB (#77)	J[1]	J[1]	J[1]
344'5-TetraCB (#81)	J[1]	J[1]	J[1]
PCB-82	J[1]	J[1]	J[1]
PCB-83/PCB-99/PCB-112	J[1]	J[1]	J[1]
PCB-84	J[1]	J[1]	J[1]
PCB-85/PCB-116/PCB-117	J[1]	J[1]	J[1]
PCB-86/PCB-87/PCB-97/PCB-109/PCB-119/PCB-125	J[1]	J[1]	J[1]
PCB-89	J[1]	J[1]	J[1]

Table I
Recommendation Summary Table for 209 PCB Congeners
Centredale Manor Site
Case No.: Nestling B1OF1/SDG No. 49038-41 PCB

Sample Nos.	A-TS-35-N	G-TS-04-N	L-TS-62-N
Compound			
PCB-90/PCB-101/PCB-113	J	J	J
PCB-88/PCB-91	J	J	J
PCB-92	J	J	J
PCB-93/PCB-98/PCB-100/PCB-102	J	J	J
PCB-95	J	J	J
233'44'-PentaCB (#105)	J	J	J
PCB-108/PCB-124	J	J	J
PCB-110/PCB-115	J	J	J
2344'5-PentaCB (#114)	J	J	J
23'44'5-PentaCB (#118)	J	J	J
PCB-106/PCB-107/2'344'5-PentaCB (#123)	J	J	J
33'44'5-PentaCB (#126)	J	J	J
PCB-128/PCB-166	J	J	J
PCB-129/PCB-138/PCB-160/PCB-163	J	J	J
PCB-130	J	J	J
PCB-131	J	J	J
PCB-132	J	J	J
PCB-134/PCB-143	J	J	J
PCB-135/PCB-151/PCB-154	J	J	J
PCB-136	J	J	J
PCB-137/PCB-164	J	J	J
PCB-141	J	J	J

Table I
Recommendation Summary Table for 209 PCB Congeners
Centredale Manor Site
Case No.: Nestling B1OF1/SDG No. 49038-41 PCB

Sample Nos.	A-TS-35-N	G-TS-04-N	L-TS-62-N
Compound			
PCB-144	J	J	J
PCB-146/PCB-161	J	J	J
PCB-147/PCB-149	J	J	J
PCB-153/PCB-168	J	J	J
233'44'5-HexaCB (#156)/233'44'5'-HexaCB (#157)	J	J	J
PCB-158	J	J	J
23'44'55'-HexaCB (#167)	J	J	J
33'44'55'-HexaCB (#169)	J	J	J
PCB-170	J	J	J
PCB-171/PCB-173	J	J	J
PCB-172	J	J	J
PCB-174/PCB-183/PCB-185	J	J	J
PCB-175	J	J	J
PCB-176	J	J	J
PCB-177	J	J	J
PCB-178	J	J	J
PCB-180/PCB-193	J	J	J
PCB-182	J	J	J
PCB-184	J	J	J
PCB-187	J	J	J
233'44'55'-HeptaCB (#189)	J	J	J
PCB-190	J	J	J

Table I
Recommendation Summary Table for 209 PCB Congeners
Centredale Manor Site
Case No.: Nestling B1OF1/SDG No. 49038-41 PCB

Sample Nos.	A-TS-35-N	G-TS-04-N	L-TS-62-N
Compound			
PCB-191	J[1]	J[1]	J[1]
PCB-194	J[1]	J[1]	J[1]
PCB-195	J[1]	J[1]	J[1]
PCB-196	J[1]	J[1]	J[1]
PCB-197/PCB-200	J[1,3]	J[1,3]	J[1]
PCB-198/PCB-199	J[1]	J[1]	J[1]
PCB-201	J[1]	J[1]	J[1]
PCB-203	J[1]	J[1]	J[1]
PCB-205	J[1]	J[1]	J[1]
PCB-206	J[1]	J[1]	J[1]
PCB-207	J[1]	J[1]	J[1]
PCB-209	J[1]	J[1]	J[1,4]

Table I
Recommendation Summary Table for PCB Congeners

A	-	Accept all results.
J^1	-	PE %D outside criterion; J detects, UJ non-detects.
J^2	-	VER recoveries outside criterion; J detects, UJ non-detects.
J^3	-	Method blank contamination; positive sample results less than the blank action level are reported as non-detects (U) at the concentration reported.
J^4	-	Internal standard recoveries outside criterion; J detects, UJ non-detects.

EPA-NE - Data Validation Worksheet

Overall Evaluation of Data - Data Validation Memorandum - Table II

PCB ANALYSIS					
DQO (for all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability	Potential Usability Issues
		Analytical Error	Sampling Error*		
The following is a summary of the site investigation/assessment objectives as found in Centredale Manor Tasks 19-22 QAPP (5/23/01): To generate data of quality sufficient to be used for human health (HHRA) and ecological risk assessments (ERA) at the site.	Yes, Sampling Method appropriate for all samples Yes, Analytical Method appropriate for all samples.	Refer to qualification in R/S Key on Table I: J,UJ,U	Refer to qualification in R/S Key on Table I: NA	--	One Cambridge Isotope Laboratories (CIL) Standard Reference Material (SRM) sample was evaluated for this SDG (CIL EDF 2526 for PCB congeners in fish tissue). Since the majority of congeners were outside the Centredale Manor Tasks 19-22 QAPP (5/23/01) specified criterion of 30 %D from the consensus value and all of the congeners had low recoveries, the results for all congeners in all samples were estimated (J, UJ) due to the possibility of biased low results. The method blank had low level contamination. However, the concentration in the method blank was insignificant when compared to the concentration found in the field samples. Therefore, the method blank contamination does not impact data usability. When the analyte concentrations in the field samples were less than the corresponding blank action level, the field sample results reported by the laboratory are qualified as non-detected (UJ) on the Data Summary Table. See Table I for a summary of the qualifiers applied due to blank contamination. Data validation indicated minor data quality problems which do not significantly impact the usability of the data. See the data validation memorandum for details. The reported results are usable for the site objectives.

* The evaluation of "sampling error" cannot be completely assessed in the data validation.

-- Sampling variability is not assessed in data validation.

Validator: Marie Baer

Date: 7/3/02

Data Summary Table
Polychlorinated Biphenyls Analysis - Tissue Samples (wet weight)

SITE: Centredale Manor - N. Providence, RI
CASE NO.: Keating B10F1 SDG NO.: 49038-41 PCB
LABORATORY: BATTELLE

SAMPLE NUMBER:	Tissue Bioavailability Factors (1)	A-TS-35-N		G-TS-04-N		L-TS-62-N	
STATION LOCATION:		Allendale Pond		Greystone Mill Pond		Lyndeville Pond	
MATRIX:		TISSUE		TISSUE		TISSUE	
		ng/kg	DL/EMPC*	ng/kg	DL/EMPC*	ng/kg	DL/EMPC*
PCB-1		UJ	18.74	472.66 J		UJ	10.87
PCB-2		UJ	26.48	150.06 J		UJ	9.12
PCB-3		UJ	60.03	2439.53 J		UJ	169.42
PCB-4		UJ	39.62	UJ	39.39	UJ	18.94
PCB-5		UJ	39.62	UJ	39.39	UJ	18.94
PCB-6		UJ	39.62	UJ	39.39	UJ	18.94
PCB-7		UJ	368.23	UJ	365.14	UJ	95.55
PCB-8		UJ	39.62	UJ	39.39	UJ	18.94
PCB-9		UJ	39.62	45.93 J		UJ	18.94
PCB-10		UJ	79.64	31.14 J		UJ	37.88
PCB-11/PCB-13							
PCB-12/PCB-24/PCB-27		149.46 J		431.67 J		115.69 J	
PCB-17		166.92 J		210.58 J		83.04 J	
PCB-18/PCB-30		322.44 J		229.34 J		167.20 J	
PCB-19		84.16 J		774.68 J		27.26 J	
PCB-20/PCB-21/PCB-28/PCB-33		5505.00 J		3243.28 J		21934.56 J	
PCB-22		585.28 J		223.66 J		262.62 J	
PCB-23		215.21 J		93.09 J		314.97 J	
PCB-25/PCB-29		242.14 J		164.46 J		168.26 J	
PCB-31		3625.83 J		1100.03 J		4686.40 J	
PCB-32		295.60 J		515.23 J		188.13 J	
PCB-34/PCB-41/PCB-71		1340.00 J		488.84 J		2132.48 J	
PCB-35		2140.30 J		366.13 J		3728.32 J	
PCB-36/PCB-53/PCB-75		10580.00 J		3448.58 J		43206.00 J	
PCB-38/PCB-45/PCB-46		6180.00 J		1645.58 J		18438.30 J	
PCB-39/PCB-51		217.84 J		488.84 J		204.62 J	
PCB-40		62.00 J		32.08 J		88.69 J	
PCB-42		434.22 J		106.67 J		598.34 J	
PCB-44/PCB-47		8225.00 J		1727.68 J		23223.00 J	
PCB-48/PCB-61		687.00 J		436.58 J		614.64 J	
PCB-50		1010.00 J		381.92 J		1174.76 J	
PCB-52/PCB-69/PCB-75		651.00 J		137.46 J		1868.71 J	
PCB-60		1752.76 J		683.76 J		4854.04 J	
PCB-62		740.39 J		289.52 J		2348.83 J	
PCB-64		4035.62 J		1076.71 J		12829.48 J	
PCB-66		16707.36 J		3087.71 J		62926.02 J	
PCB-67/PCB-70/PCB-74/PCB-76		16519.62 J		4091.46 J		87641.00 J	
3,3',4,4'-TetraCB (#77)	0.05	1399.19 J		377.04 J		2768.79 J	
3,4,4',5-TetraCB (#81)	0.1	686.74 J		19.35 J		UJ	189.42
PCB-82		7628.10 J		939.27 J		4356.81 J	
PCB-83/PCB-99/PCB112		38770.40 J		6664.35 J		82677.35 J	
PCB-84		2245.00 J		403.45 J		6563.37 J	
PCB-85/PCB-116/PCB-117		6003.00 J		1696.29 J		28044.60 J	
PCB-86/PCB-87/PCB-97/PCB-108/PCB-119/PCB-125		24049.00 J		4019.57 J		84442.08 J	
PCB-89		75.36 J		17.93 J		112.36 J	
PCB-90/PCB-101/PCB-113		64125.18 J		9546.66 J		155875.11 J	
PCB-91/PCB-81		3469.00 J		736.66 J		9187.80 J	
PCB-92		9762.00 J		1663.01 J		27195.54 J	
PCB-93/PCB-95/PCB-100/PCB-102		845.00 J		229.26 J		1774.08 J	
PCB-96		18219.75 J		3066.11 J		47871.73 J	
2,3,3',4,4'-PentaCB (#106)	0.0001	14017.27 J		3978.67 J		54804.65 J	
PCB-109/PCB-124		680.00 J		289.60 J		1399.70 J	
PCB-110/PCB-115		42302.44 J		8934.19 J		114021.82 J	
2,3,4,4',5-PentaCB (#114)	0.0001	920.00 J		354.10 J		2439.78 J	
2,3',4,4',5-PentaCB (#118)	0.00001	60804.62 J		12227.09 J		139453.38 J	
PCB-120/PCB-107/2',3,4,4',5-PentaCB (#123)	0.00001	5846.33 J		1548.46 J		13783.84 J	
3,3',4,4',5-PentaCB (#126)	0.1	207.84 J		68.11 J		392.59 J	
PCB-128/PCB-166		9839.04 J		2666.62 J		24181.08 J	
PCB-129/PCB-138/PCB-160/PCB-163		87813.00 J		16659.78 J		189697.32 J	

Data Summary Table

Polychlorinated Biphenyls Analysis - Tissue Samples (wet weight)

SITE: Centredale Manor - N. Providence, RI

CASE NO.: Nesting 91OF1 SDG NO.: 49039-41 PCB

LABORATORY: BATTELLE

SAMPLE NUMBER:	Toxicity Equivalency Factors (1)	A-T8-35-N		G-T3-04-N		L-T3-02-N	
STATION LOCATION:		Allendale Pond		Greystone Mill Pond		Lymansville Pond	
MATRIX:		TISSUE		TISSUE		TISSUE	
		ug/kg*	DL/EMPC*	ug/kg	DL/EMPC*	ug/kg	DL/EMPC*
PCB-100		4411.84 J		1037.05 J		11769.30 J	
PCB-101		454.76 J		50.68 J		UJ	189.42
PCB-102		6003.35 J		1998.95 J		18179.24 J	
PCB-103/PCB-143		695.30 J		273.76 J		[illegible] J	
PCB-105/PCB-131/PCB-144		6897.00 J		2099.97 J		21998.74 J	
PCB-106		574.20 J		298.82 J		[illegible] J	
PCB-107/PCB-124		8919.46 J		3754.84 J		17607.98 J	
PCB-141		7883.78 J		2070.19 J		[illegible] J	
PCB-144		1384.10 J		347.68 J		3706.92 J	
PCB-146/PCB-161		8750.70 J		2746.60 J		[illegible] J	
PCB-147/PCB-149		23253.40 J		6124.76 J		[illegible] J	
PCB-153/PCB-168		76883.90 J		18123.24 J		[illegible] J	
2,3,3',4,4',5'-HexaCB (#156)/2,3,3',4,4',5-HexaCB (#157)	0.0001	6778.76 J		2775.28 J		[illegible] J	
PCB-158		6880.24 J		1632.48 J		17992.68 J	
2,3',4,4',5,5'-HexaCB (#167)	0.00001	4090.06 J		903.17 J		[illegible] J	
3,3',4,4',5,5'-HexaCB (#169)	0.001	146.75 J		224.13 J		427.81 J	
PCB-170		7790.11 J		2963.72 J		[illegible] J	
PCB-171/PCB-173		1687.80 J		767.65 J		4787.22 J	
PCB-172		1912.81 J		1284.24 J		[illegible] J	
PCB-174/PCB-181/PCB-185		7481.64 J		3971.04 J		[illegible] J	
PCB-175		283.86 J		151.88 J		478.78 J	
PCB-176		213.10 J		98.31 J		[illegible] J	
PCB-177		2108.28 J		1627.60 J		7000.78 J	
PCB-178		1888.22 J		1298.85 J		[illegible] J	
PCB-180/PCB-193		19364.06 J		8622.62 J		[illegible] J	
PCB-182		61.12 J		42.15 J		170.46 J	
PCB-183		18.18 J		19.59 J		51.71 J	
PCB-187		6823.97 J		5867.15 J		[illegible] J	
2,3,3',4,4',5,5'-HexaCB (#189)	0.00001	382.70 J		187.29 J		734.00 J	
PCB-190		1348.08 J		581.08 J		[illegible] J	
PCB-191		291.10 J		130.03 J		654.61 J	
PCB-194		3068.64 J		1822.03 J		[illegible] J	
PCB-195		580.71 J		365.71 J		[illegible] J	
PCB-196		1986.17 J		1682.37 J		[illegible] J	
PCB-197/PCB-200		UJ	286.60	UJ	274.08	374.60 J	
PCB-198/PCB-199		10359.98 J		19546.34 J		[illegible] J	
PCB-201		727.90 J		597.84 J		[illegible] J	
PCB-203		5701.98 J		4209.45 J		7000.43 J	
PCB-205		173.95 J		131.39 J		[illegible] J	
PCB-206		9320.82 J		11746.66 J		[illegible] J	
PCB-207		462.97 J		985.74 J		[illegible] J	
PCB-209		8710.40 J		4113.87 J		7302.04 J	
TOTAL PCB		710577.81 J		211109.93 J		[illegible] J	
TOXIC EQUIVALENCY(1):			150 J		27 J		189 J
PERCENT SOLIDS:			60.1		37.9		36.4
PERCENT LIPIDS:			8.36		4.09		6.19
DILUTION FACTOR:			1		1		1
DATE SAMPLED:			09/12/01		09/09/01		09/09/01
DATE OF RECEIPT:			07/11/01		07/11/01		07/11/01
SAMPLE EXTRACTION DATE:			10/03/01		10/03/01		10/03/01
ANALYSIS DATE:			12/08/01		12/08/01		12/08/01
LABORATORY SAMPLE I.D.:			49039-41-14		49039-41-10		49039-41-19

* = The values in this column are either the Detection Limits (DL) or the Estimated Maximum Possible Concentration (EMPC). The EMPC results are marked with a "*". The DL values are unmarked. The EMPC values are not qualified with a "J", since they are already estimated.

(1) The Toxic Equivalent concentration is calculated with the Toxicity Equivalency Factors (TEFs) found in "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife", Environmental Health Perspectives, Volume 106, Number (12), December 1998, Table 5, page 780 & 783.

Section 1 Quality Assurance Review

A. Organic Data

The organic analyses of 61 tissue samples (including QC samples) were performed by Battelle Laboratories of Duxbury, Massachusetts. The samples were analyzed for pesticide/PCB compounds by Battelle Method SOP 5-128-05. These analyses are specified on Table 1. The laboratory organized the samples into four sample delivery groups (SDGs 01-380, 01-568, 01-571, and 01-587).

these represent swallow SDGs. TDeshler 8/8/02

The findings in this report are based upon a US EPA Region I Tier II (Tier II) review of holding times, condition of samples upon laboratory receipt, blank analysis results, laboratory control sample (LCS) recoveries, matrix spike (MS)/matrix spike duplicate (MSD) recoveries and precision, surrogate recoveries, laboratory and field duplicate/split sample precision, instrument sensitivity, analytical sequence, calibrations, overall system performance, and quantitation of positive results.

Overall, the organic data quality is satisfactory. The data reviewer has edited the laboratory-reported data and QC forms based on the deficiencies and comments listed in this QA review. Analytical and reporting requirements defined in the QAPP were met for this data set, with the exception of the items identified in the following sections of this QA review; it should be emphasized that these items do not necessarily impact data usability. Based upon a Tier II review of the data provided, the organic data qualifiers associated with the samples that underwent limited data validation are presented in the subsequent Organic Data Qualifiers section. These qualifiers should not be applied to any organic results that did not undergo data validation. Data usability issues represent an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the validation guidelines specify areas of the data that require qualification, yet the methods used for analysis do not require any corrective action by the laboratory. Accordingly, the data usability issues that follow should not necessarily be construed as an indication of laboratory performance.

Noncorrectable Deficiencies

1. For the pesticide/PCB fractions of all SDGs, the laboratory quantitated several samples for pesticides using response factors generated from an initial calibration that was analyzed after the samples had been analyzed. According to Battelle Duxbury Method 5-128-05 (Section 3.1), a valid multi-point initial calibration should be analyzed at the beginning of each set of continuous sample analyses. The laboratory did analyze an initial calibration at the beginning of the analytical sequence. The laboratory, however, indicated that due to the nature of the sample matrix, a loss of instrument sensitivity was observed in the associated pesticide CCV standards (see Non-Correctable Deficiency #4). The laboratory recalibrated the instrument (as required, due to the non-compliant CCV standards) but did not reanalyze the samples analyzed prior to the recalibration because the laboratory concluded that the sample matrix negatively impacted the instrument's column condition (as evidenced by the non-compliant pesticide CCV standards that followed the second initial calibration in the sequence). Battelle laboratory personnel indicated to the data reviewer that these sample analyses already represented reextractions and that the initial extractions and analyses exhibited similar matrix problems that impacted calibration stability. Reanalysis of project samples, therefore, was not warranted because similar

conditions would likely be encountered. Based on an evaluation of both initial calibrations and all CCV standards in the analytical sequence, the laboratory determined that the second initial calibration was the "better" of the two calibrations. The results for all samples and standards in the analytical sequence were processed against the response factors generated from this calibration. Qualification of data due to loss of instrument sensitivity is addressed in the subsequent Organic Data Qualifiers section.

2. For SDG 01-568, the laboratory did not reextract and reanalyze all samples associated with a preparation blank that exhibited zero percent surrogate recoveries. According to the QAPP (Worksheet #24a), the corrective action for surrogate recoveries outside of performance criteria is to reextract and/or reanalyze associated samples. The laboratory stated in the Case Narrative that it appeared that the aforementioned preparation blank had not been fortified with surrogate compounds and that target pesticide/PCB compound contamination is rare in preparation blanks; thus, no further corrective action was taken. Acceptable surrogate recoveries were observed in all investigative sample analyses in SDG 01-568. Qualification of data was not warranted due to this issue.

3. For SDG 01-380, the laboratory did not reanalyze the independent check standard (ICS) in which the majority of target analytes did not meet QC acceptance criteria (percent difference [%D] <15%). Although stipulated in the QAPP (Worksheet #24a) that the ICS is an internal QC check, the failure of the majority of target analytes to meet QC acceptance criteria demonstrates that the instrument conditions were not optimized prior to sample analyses. The laboratory performed a second initial calibration (see Noncorrectable Deficiency #1); consequently, only those samples analyzed after the aforementioned ICS and prior to the second initial calibration (specifically, samples A-TS-35-N and A-TS-46-N) were impacted. Qualification of data due to high %Ds in the ICS is addressed in the Organic Data Qualifiers section.

4. For SDG 01-380, the laboratory did not reanalyze samples A-TS-35-N and A-TS-46-N, which were bracketed by a non-compliant (*i.e.*, %Ds>25%) continuing calibration check standard. According to Battelle SOP 5-128-05 (Section 3.4), if the check standard fails to meet calibration check criteria, the check standard and associated samples must be reanalyzed. Qualification of data due to high percent differences in the aforementioned check standard is addressed in the Organic Data Qualifiers section. * A-TS-35-N re-extracted with batch 01-472. DTDahl 6/20/02

5. For SDGs 01-380 and 01-587, the temperature of the samples upon laboratory receipt was 19.7°C. According to the QAPP (Worksheet #22a), samples must be frozen when shipped. Due to the stability of the target compounds at temperatures less than 20°C, qualification of data was not warranted due to the elevated sample temperature.

Comments

1. For SDG 01-587, the Case Narrative states that the tissue samples were not immediately logged in upon receipt at Battelle Duxbury laboratory and were allowed to warm to room temperature. Due to the stability of the target analytes, the data reviewer did not qualify data due to this issue. (1)

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(1) Not relevant to Sandoz data packages. PL 5-29-02

2. For SDGs 01-571 and 01-587, the sample collection dates were not recorded on the associated Chain-of-Custody forms. The data reviewer was able to obtain the sample collection dates from the electronic disk deliverables provided. (1)

3. For SDG 01-587, the laboratory received split samples for samples LPX-CF-4001-0000-01 (W6480 and W6835), LPX-CF-4004-0000-01 (W6484 and W6836), and WRL-CF-4005-000-01 (W6485 and W6834) from the Battelle Columbus laboratory (see Project Correspondence). The Environmental Standards data reviewer considered the sample splits as field duplicates for data evaluation purposes. The Environmental Standards data reviewer has referred to the split samples by using the client sample identifier followed by the laboratory sample identifier in parentheses in this report.

With respect to data usability, the principal areas of concern include high check standard percent differences (%Ds), low LCS recoveries, high continuing calibration %Ds, low surrogate standard recoveries, high and low MS/MSD recoveries, high MS/MSD relative percent differences (RPDs), laboratory duplicate and field imprecision, and quantitation of results below the project-required quantitation limits. Based on the Tier II review of the data provided, the following organic data qualifiers are offered. The following data usability issues represent an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the data validation guidelines routinely specify areas of the data that require qualification, yet the methods used for analysis may not require corrective action by the laboratory. Accordingly, the following data usability issues should not be construed as an indication of laboratory performance.

Organic Data Qualifiers

- The analysis for endosulfan I in SDG 01-380 sample L-TS-70-N should be considered unusable, and the "not-detected" result has been flagged "R" on the data tables. Very low recoveries (<10%) were observed for endosulfan I in the associated MS/MSD analyses.

- The quantitation limits for the following compounds in the samples listed on the table below may be biased low, and the "not-detected" results have been flagged "UJ" (unless previously flagged "R") on the data tables. In addition, any reported positive results for these compounds should be considered estimated and have been flagged "J" on the data tables. High %Ds (>25%) were observed for these compounds in the associated independent check standard.

Compound(s)	SDG	Samples With Qualified Quantitation Limits ("UJ") or Estimated Positive Results ("J")
All single-component pesticides except 4,4'-DDE	01-380	* A-TS-35-N and A-TS-46-N
heptachlor epoxide	01-568	All samples

* sample re-extracted with batch 01-672. DSDLL 6/10/01

(1) Not relevant to validation data packages. RL 5-24-02

- The quantitation limits for the following compounds in the samples listed below may be biased low, and the "not-detected" results have been flagged "UJ" (unless previously flagged "R") on the data tables. In addition, any reported positive results for these compounds should be considered estimated and have been flagged "J" on the data tables. High %Ds (>25%) were observed for these compounds in the associated continuing calibration verification standards.

Compounds	SDG	Samples With Qualified Quantitation Limits ("UJ") or Estimated Positive Results ("J")
All single-component pesticides except 4,4'-DDE	01-380	A-TS-35-N and A-TS-46-N
endrin	01-380	L-TS-62-N, L-TS-63-N, L-TS-70-N, L-TS-84-N, and L-TS-89-N

* Samples re-extracted with batch 01-672. DDahl 6/20/02

- The quantitation limits for all pesticide/PCB compounds and total Aroclors in the samples listed below may be higher than reported, and the "not-detected" results have been flagged "UJ" (unless previously flagged "R") on the data tables. In addition, the reported positive results for the following compounds in the samples listed below should be considered estimated and have been flagged "J" on the data tables. Low recoveries (<40%) were observed for one or more of the surrogate compounds in the analyses of these samples.

Compounds	SDG	Samples With Qualified Quantitation Limits ("UJ") and/or Estimated Positive Results ("J")
All compounds	01-380	L-TS-70-N, L-TS-89-N, A-TS-35-N*, A-TS-46-N, A-TS-48-N, A-TS-57-N*, G-TS-02-N*, G-TS-22-N, G-TS-29-N, L-TS-62-N, L-TS-63-N*, and L-TS-84-N
~~All compounds~~	~~01-571~~	~~GMS-EW-4003-0000-01, EPX-EW-4004-0000-01, GMS-EW-4002-0000-01, and CMS-EW-4005-0000-01~~ ①

* Samples A-TS-35-N, A-TS-57-N, G-TS-02-N, and L-TS-63-N were re-extracted with batch 01-672. DDP 6/20/02

- The quantitation limits for the following compounds in the samples listed below may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. Low recoveries (<40%) were observed for these compounds in the associated LCS analyses.

Compound	SDG	Samples With Qualified Quantitation Limits ("UJ")
endrin aldehyde	01-380	All samples
	01-568	All samples
~~endosulfan II~~	~~01-571~~ ①	~~All samples~~ ①

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① Not relevant to swallow data packages. 5-29-02

- The quantitation limits for the following compounds in the samples listed below may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. In addition, the reported positive results for the following compounds in the samples listed below should be considered estimated and have been flagged "J" on the data tables. Low recoveries (<40%) were observed for these compounds in the associated MS/MSD analyses.

Compound(s)	SDG	Samples With Qualified Quantitation Limits ("UJ") and/or Estimated Positive Results ("J")
endosulfan II and endrin aldehyde	01-380	L-TS-70-N
~~4,4'-DDE, aldrin, *alpha*-BHC,~~ *alpha*-chlordane, *beta*-BHC, *delta*-BHC, endosulfan I, endosulfan II, endrin aldehyde, *gamma*-BHC, *gamma*-chlordane, heptachlor, and heptachlor-epoxide	~~01-571~~	~~RWR-EW-5002-0000-01~~ ①
~~endosulfan I~~	~~01-587~~	~~RWR-CF-5003-0000-01~~

- The quantitation limits for 4,4-DDD; 4,4'-DDE; 4,4-DDT; alpha-chlordane; endosulfan II; endrin aldehyde; endrin ketone; *gamma*-chlordane; heptachlor; and heptachlor epoxide in SDG 01-571 sample RWR-EW-5002-0000-01 may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. In addition, the reported positive results for 4,4-DDD; 4,4'DDE; *alpha*-chlordane; and *gamma*-chlordane in SDG 01-571 sample RWR-EW-5002-0000-01 should be considered estimated and have been flagged "J" on the data tables. High RPDs (>30%) were observed between the results for these compounds in the associated MS/MSD analyses. ①

- The reported positive results for dieldrin, heptachlor epoxide, Aroclor-1254, and total Aroclors in SDG 01-568 sample L-TS-73-P should be considered estimated and have been flagged "J" on the data tables. High RPDs (>30%) were observed between the results for dieldrin, heptachlor, epoxide, and Aroclor-1254 in the associated laboratory duplicate analyses. True - except that concentrations of dieldrin and heptachlorepoxide in the lab duplicates were ~3x the detection limit. DAG 6/20/02

- The reported positive result for 4,4'-DDE in SDG 01-568 sample A-TS-33-P should be considered estimated and has been flagged "J" on the data tables. A high recovery (>120%) was observed for 4,4'-DDE in the associated MS analysis. True - but the concentration of 4,4'DDE in the MS was 2.5x background levels. DAG 6/20/02

- The reported positive results for Total Aroclor in all samples with estimated positive results (flagged "J"), for Aroclor-1254, and/or for Aroclor-1268 should be considered estimated and have been flagged "J" on the data tables. The laboratory-reported results for Total Aroclor represent the sum of the observed positive results for all Aroclor compounds.

- Three split sample pairs [SDG 01-587 sample LPX-CF-4001-01 (W6485) and its split sample LPX-CF-4001-01 (W6834), SDG 01-587 sample LPX-CF-4004-0000-01 (W6480) and its split sample LPX-CF-4004-0000-01 (W6835), and SDG 01-587 sample ①

① Not relavent to solution data packages. BL 5-29-02

WRL-CF-4005-0000-01 (W6484) and its split duplicate, sample LPX-CF-4004-0000-01 (W6836)] were submitted to the laboratory with this data set. Acceptable precision and sample representativeness were demonstrated by the correlation observed between the results in the split sample pairs (*i.e.*, when both results were ≥3× the quantitation limit, the RPD was ≤50% or when one of the results was ≤3× the quantitation limit, the difference between results was ≤3× the quantitation limit). Complete comparisons of the quantitatively confident positive results in the split sample pairs have been included in Section 3.

- One field duplicate pair (SDG 01-571 sample CMS-EW-4001-0000-01 and its field duplicate sample CMS-DU-072001-A) was submitted to the laboratory with this data set. Acceptable precision and sample representativeness were demonstrated by all reported results in these field QC samples except the results for dieldrin and methoxychlor. A positive result for methyoxychlor was reported in sample CM-S-DU-0702001-A and methoxychlor was not observed in sample CMS-EW-4001-0000-01. The quantitation limit for methoxychlor in SDG 01-571 sample CMS-EW-4001-0000-01 may be higher than reported, and the "not-detected" result has been flagged "UJ" on the data tables. In addition, the reported positive results for dieldrin and methoxychlor in SDG 01-571 sample CMS-DU-072001-A and for dieldrin in SDG 01-571 sample CMS-EW-4001-0000-01 should be considered estimated and have been flagged "J" on the data tables. The differences between the reported results for these compounds were greater than three-times the quantitation limit and at least one of the results was less than five-times the quantitation limit.

- Based on the project-specific reporting requirements, all reported positive results with concentrations between the laboratory method detection limit and the project quantitation limit should be considered estimated and have been flagged "J" on the data tables.

Complete support documentation for this organic QA review is presented in Section 3 of this report. The cover sheet for this section is a checklist of all QA procedures required by the methods and examined in this data review.

① Not relavent to swallow data packages.
BL 5-29-02

C. Conclusions

Overall, the data quality is satisfactory. Based on this QA review, one organic result was qualified as unusable due to very low matrix spike/matrix spike duplicate recoveries. In addition, several organic results were qualified as estimated due to high check standard %Ds, low laboratory control sample recoveries, high continuing calibration %Ds, low surrogate standard recoveries, low matrix spike/matrix spike duplicate recoveries, high matrix spike/matrix spike duplicate RPDs, laboratory and field duplicate imprecision, and quantitation of results below the project-required quantitation limits. Overall, the data are acceptable for use, provided the data user understands the limitations and qualifications stated in this QA review. The Laboratory Case Narratives, Chain-of-Custody Records, and Project Correspondence are presented in Sections 4, 5, and 6, respectively.

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Sualco Re-extract
Batch (01-672) for
Pest/PCB
DDaden 8/14/02

Section 1 Quality Assurance Review

A. Organic Data

The organic analyses of 20 tissue samples (including QC samples) were performed by Battelle Laboratories (Battelle) of Duxbury, Massachusetts. The samples were collectively analyzed for select polynuclear aromatic hydrocarbons (PAH) by selective ion monitoring by Battelle Method SOP 5-157-05 and for pesticide/PCB compounds by Battelle Method SOP 5-128-05. These analyses are specified on Table 1. The laboratory organized the samples into one sample delivery group (SDG 01-672). ⇒ Re-extract batch - DDaden 8/14/02

The findings in this report are based upon a rigorous review of holding times, condition of samples upon laboratory receipt, blank analysis results, laboratory control sample (LCS) recoveries, matrix spike (MS)/matrix spike duplicate (MSD) recoveries and precision, laboratory duplicate precision, surrogate recoveries, instrument sensitivity, analytical sequence, and calibrations.

Overall, the organic data quality appears to be acceptable. Analytical and reporting requirements defined in the QAPP were met for this data set, with the exception of the items identified in the following sections of this QA review; it should be emphasized that these items do not necessarily impact data usability. Based upon a Tier II review of the data provided, the organic data qualifiers associated with the samples that underwent limited data validation are presented in the subsequent Organic Data Qualifiers section. These qualifiers should not be applied to any organic results that did not undergo data validation. Data usability issues represent an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the validation guidelines specify areas of the data that require qualification, yet the methods used for analysis do not require any corrective action by the laboratory. Accordingly, the data usability issues that follow should not necessarily be construed as an indication of laboratory performance.

Noncorrectable Deficiencies

1. High percent differences (%Ds>25%) were observed for *gamma*-BHC and *delta*-BHC in continuing calibration verifications (CCVs) associated with project samples. According to the QAPP (Worksheet #21), the laboratory should reanalyze the Check Standard Solution or recalibrate the system if any percent difference is greater than 25%. The laboratory did not reanalyze the standards or recalibrate the system. The impact on data usability due to the high %Ds is addressed in the subsequent Organic Data Qualifiers section.

2. The reported sample cooler temperature upon laboratory receipt for the sample cooler containing samples A-TS-35-N, A-TS-57-N, G-TS-02-N, and L-TS-63-N was 19.7°C. According to the QAPP (Worksheet #22A), samples must be frozen when shipped. Due to the stability of the target compounds at temperatures less than 20°C, qualification of data was not warranted due to the elevated sample temperature upon receipt.

Comments

1. For the PAH fraction, the tentatively identified compounds (TICs) reported for the project samples were evaluated for the presence of target compounds or surrogate standards. Target compounds and surrogate standards were not reported as TICs for the project samples.

2. The laboratory did not provide sample receipt information (sample custody records, Sample Receipt Forms, and sample login reports) for samples LPX-LB-4004-0000-01, GMP-LB-5005-0000-01, and MAP-LB-4001-0000-01. The data reviewer was able to obtain these data from other project data packages.

With respect to data usability, the principal areas of concern include blank contamination, MS/MSD results, laboratory duplicate imprecision, a continuing calibration issue, and quantitation of results below the project-required quantitation limit. Based on a Tier II review of the data provided, the following organic data qualifiers are offered. The following data usability issues represent an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the data validation guidelines routinely specify areas of the data that require qualification, yet the methods used for analysis may not require corrective action by the laboratory. Accordingly, the following data usability issues should not be construed as an indication of laboratory performance.

Organic Data Qualifiers

- Due to the trace-level presence of the following compounds in the associated method blanks, the reported positive results for the following compounds in the samples listed below should be considered "not-detected" and have been flagged "U" on the data tables. Furthermore, results that were reported below the sample-specific quantitation limit were replaced with the quantitation limit and the appropriate "U" qualifier. It should be noted that sample weights were taken into consideration when evaluating blank contamination.

Compound(s)	Sample(s) With Results Qualified as "Not-Detected" ("U")
biphenyl and naphthalene	all samples
2-methylnaphthalene	GMP-LB-5005-0000-01 and LPX-LB-4004-0000-01
anthracene and fluoranthene	LPX-LB-4004-0000-01 and MAP-LB-4001-0000-01
chrysene and pyrene	GMP-LB-5005-0000-01, LPX-LB-4004-0000-01, and MAP-LB-4001-0000-01
phenanthrene	LPX-LB-4004-0000-01

- The quantitation limits for endrin aldehyde in sample LPX-LB-4003-0000-01; for endosulfan I, endosulfan II, and endrin aldehyde in sample GMP-LB-5005-0000-01; and for endosulfan I and endrin aldehyde in sample CMS-EW-4003-0000-01 may be higher

(1) Not related to Swallow Data Report. BC 8-12-02

than reported and have been flagged "UJ" on the data tables. Low recoveries (<40%) were observed for endosulfan I, endosulfan II, and endrin aldehyde in the associated MS/MSD analyses.

- The reported positive result for 4,4'-DDE in sample GMP-LB-5005-0000-01 should be considered estimated and has been flagged "J" on the data tables. High recoveries (>125%) was observed for 4,4'-DDE in the associated MS/MSD analyses. (1)

- The reported positive result for *alpha*-chlordane in sample GMP-LB-5005-0000-01 should be considered estimated and has been flagged "J" on the data tables. A high relative percent difference (RPD>30%) was observed for *alpha*-chlordane in the associated MS/MSD analyses. (1)

- The reported positive results for fluoranthene, phenanthrene, and Total PAHs in sample GMP-LB-5005-0000-01 and for phenanthrene in sample LPX-LB-4003-0000-01 should be considered estimated and have been flagged "J" on the data tables. High RPDs (>30%) were observed for these compounds in the associated laboratory duplicate analyses. (1)

- The reported positive results for Aroclor-1254, Aroclor-1268, Total Aroclor, and technical chlordane in sample LPX-LB-4003-0000-01; for 4,4'-DDT; *alpha*-chlordane, dieldrin, Aroclor-1254, Aroclor-1268, Total Aroclor; and technical chlordane in sample GMP-LB-5005-0000-01; and for *alpha*-chlordane, *gamma*-chlordane, technical chlordane, Aroclor-1254, and Total Aroclor in sample CMS-EW-4005-0000-01 should be considered estimated and have been flagged "J" on the data tables. High RPDs (>30%) were observed for these compounds in the associated laboratory duplicate analyses. (1)

- The quantitation limits for *gamma*-BHC and *delta*-BHC in all samples may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. High percent differences (%Ds>25%) were observed for these compounds in associated continuing calibration standards.

- The reported positive results for Total Aroclor in all samples with estimated positive results (flagged "J"), for Aroclor-1254, and/or for Aroclor-1268 should be considered estimated and have been flagged "J" on the data tables. The laboratory-reported results for Total Aroclor represent the sum of the observed positive results for all Aroclor compounds.

- The reported positive results for Total PAHs in all samples with estimated positive results (flagged "J") for any PAH compound should be considered estimated and have been flagged "J" on the data tables. The laboratory-reported results for Total PAHs represent the sum of the observed positive results for all PAH compounds. (1)

- Based on the project-specific reporting requirements, all reported positive results with concentrations between the laboratory method detection limit and the project quantitation limit should be considered estimated and have been flagged "J" on the data tables.

(1) Not related to Swallow Data Report. BL 8-12-02

Complete support documentation for this organic QA review is presented in Section 3 of this report. The cover sheet for this section is a checklist of all QA procedures required by the methods and examined in this data review.

B. Conclusions

Overall, the data quality is acceptable. Based on this QA review, several PAH results were qualified as "not-detected" due to blank contamination. In addition, several PAH and pesticide/PCB results were qualified as estimated due to MS/MSD results, a continuing calibration issue, laboratory duplicate imprecision, and quantitation of results below the project-required reporting limit. Overall, the data are acceptable for use, provided the data user understands the limitations and qualifications stated in this QA review. The Laboratory Case Narratives, and Chain-of-Custody Records are presented in Sections 4 and 5 respectively.

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Section 1 Quality Assurance Review

A. Inorganic Data

The inorganic analyses of 19 tissue samples (including QC samples) 16 crayfish samples (including QC samples), 18 worm samples (including QC samples), and 204 fish samples (including QC samples) were performed by Battelle Marine Sciences Laboratory (MSL) of Sequim, Washington. The samples were collectively analyzed for beryllium, aluminum, vanadium, chromium, manganese, iron, zinc, and silver by Battelle-MSL Method MSL-I-027-03; for cobalt, nickel, arsenic, molybdenum, copper, cadmium, antimony, thallium, barium, and lead by Battelle-MSL Method MSL-I-022-04; for methylmercury by Battelle Method MSL-I-015-05; for selenium by Battelle-MSL Method MSL-I-029-03; and for mercury by Battelle-MSL Method MSL-I-016-03. These analyses are specified on Table 1. The laboratory organized the samples into one SDG (SDG 1678).

The findings in this report are based upon a Tier II review of sample holding times, condition of samples upon laboratory receipt, blank analysis results, laboratory and field duplicate precision, blank spike recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries and precision, standard reference material (SRM) results, instrument sensitivity, method detection limits (MDLs), and calibrations.

Overall, the inorganic appears to be acceptable. The data reviewer has edited the QC forms based on the deficiencies listed in this QA review. Analytical and reporting requirements defined in the QAPP were met for this data set, with the exception of the items identified in the following sections of this QA review; it should be emphasized that these items do not necessarily impact data usability. Based upon a Tier II review of the data provided, the inorganic data qualifiers associated with the samples that underwent a Tier II review are presented in the subsequent Inorganic Data Qualifiers Section. These qualifiers should not be applied to any inorganic results that did not undergo a Tier II review. Data usability issues represent an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the validation guidelines specify areas of the data that require qualification, yet the methods used for analysis do not require any corrective action by the laboratory. Accordingly, the data usability issues that follow should not necessarily be construed as an indication of laboratory performance.

Correctable Deficiencies

1. The laboratory-reported sequence numbers on the ICP/MS Sample Entry Report and on the Data Set summary for data set 1678-3 do not correspond. The data reviewer was able to determine the sequence numbers are "off" by six.

2. The laboratory did not report all of the samples analyzed on 11/10/01 on the associated ICP Analytical Sequence form.

3. The laboratory did not summarize the results of the initial calibrations for the majority of the analyses in this data set. The data reviewer was unable to evaluate the linearity of the calibrations for these analyses. All continuing calibration verification (CCV) standard recoveries were within the acceptance limits; therefore, data were not qualified due to this issue.

4. The laboratory did not summarize calibration blank results for any of the analyses in this data set. The data reviewer used the procedural blank results to evaluate the usability of the project sample data.

5. The laboratory did not summarize the internal standard responses for the ICPMS analyses performed by Battelle-MSL Method MSL-I-022-04. According to the method (Section 6.8), the internal standard responses should be within 60-125% of the original response in the calibration blank. The data reviewer could not evaluate the internal standard responses for compliance.

6. The laboratory flagged the lead results with a "U" on the sample results summary form for several fish tissue samples analyzed on 9/10/01. The levels of lead in these samples were above the MDL and the results should not have been flagged "U". The data reviewer deleted the "U" flags from the data tables. (1)

7. The laboratory reported sample IDs of "LPX-LB-4009-0000-00" and "LPX-LB-4010-0000-00" on the sample results summary form for samples LPX-LB-4009-0000-01 and LPX-LB-4010-0000-01.

8. The laboratory did not summarize the calibration verification standard, calibration blank, interference check sample, and/or serial dilution results for the ICP analyses performed on 9/12/01 and 9/25/01. The data reviewer was able to evaluate these QC samples only on a pass/fail basis using the results reported on the analytical sequence lists.

9. The laboratory reported a collection date of "6/23/01" on the Sample Login form for samples GMP-LB-5003-0000-01F, GMP-LB-5003-0000-01O, GMP-LB-5004-0000-01E, GMP-LB-5004-0000-01O, GMP-LB-5005-0000-01F, GMP-LB-5005-0000-01O, GMP-LB-5006-0000-01F, GMP-LB-5006-0000-01O, GMP-LB-5007-0000-01F, GMP-LB-5007-0000-01O, GMP-LB-5008-0000-01F, GMP-LB-5008-0000-01O, GMP-LB-5009-0000-01F, GMP-LB-5009-0000-01O, GMP-LB-5010-0000-01F, GMP-LB-5010-0000-01O, and GMP-AE-5010-0000-01. According to the Chain-of-Custody record, these samples were collected on 6/25/01. (1)

Noncorrectable Deficiencies

1. The laboratory analyzed more than 10 samples between calibration verification standards for the methylmercury sequences analyzed on 8/8/01 and 9/4/01. According to Battelle Method MSL-I-015-05 (Table 1), methylmercury calibration verification standards must be analyzed every 10 samples. The associated project samples were bracketed by QC-compliant verification standards; therefore, qualification of data was not warranted due to this issue.

2. The laboratory did not perform serial dilution analyses in association with the ICP samples analyzed on 9/20/01, 9/25/01, 11/10/01, 11/11/01, and 11/12/01. According to Battelle-MSL Method MSL-I-027-03 (Section 7.2.1), a serial dilution analysis must be performed with each batch of samples. The Environmental Standards data reviewer was

(1) Not relevant to Swallow data packages. BL 5-31-02

unable to assess chemical or physical interferences that would be demonstrated by serial dilution results. Serial dilutions were run if instrument problem(s) were suspected; serial dilutions, if any, were identified with L in sample ID.

3. The temperatures of the coolers received by the laboratory on 6/22/01 were 14.5°C and 8.3°C. In addition, laboratory comments on the Chain-of-Custody records indicated that the samples received on 6/29/01 were frozen. According to the QAPP (Worksheet #22a), the cooler temperature for tissue samples must be < 6°C and the samples must be visually inspected upon receipt to determine if the samples are frozen. Data were not qualified due to this deficiency.

SOP will be reviewed and modified to accurately describe this procedure. DMacL 6/26/02

Comments

1. The laboratory reported all observed detections as positive results. Battelle project management indicated to the Environmental Standards data reviewer that this reporting convention was consistent with project requirements. US EPA reporting conventions typically dictate that results with concentrations less than the MDL or the instrument detection limit (IDL) are reported as "not-detected" results. As part of this Tier II review, the Environmental Standards data reviewer did not alter the laboratory-reported results. The impact of this reporting issue on data quality is addressed in the Inorganic Data Qualifiers section.

2. Samples DYP-AE-5001-0000-01, DYP-AE-5002-0000-01, and DYP-AE-5003-0000-01 were reported with 4000-series ID numbers on the data tables. The 5000-series ID numbers were used to refer to these samples in this QA review. As instructed by Battelle personnel, the Environmental Standards data reviewer did not edit the sample identifications on the electronic data deliverables or data tables. ①

3. The laboratory noted on the Chain-of-Custody record that the samples received on 6/26/01 were mislabeled with 4000-series ID numbers and that the samples should have been labeled with 5000-series IDs. The 5000-series IDs were used to refer to the samples in question in this QA review. As instructed by Battelle personnel, the Environmental Standards data reviewer did not edit the sample identifications on the electronic data deliverables or data tables.

With respect to data usability, the principal areas of concern are blank contamination, laboratory and field duplicate imprecision, low and high MS/MSD recoveries, MS/MSD imprecision, SRM imprecision, low and high blank spike recoveries, and results below the MDL. Based on a rigorous review of the data provided, the following inorganic and wet chemistry data qualifiers are offered. The following data usability issues represent an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the data validation guidelines routinely specify areas of the data that require qualification, yet the methods used for analysis may not require corrective action by the laboratory. Accordingly, the following data usability issues should not be construed as an indication of laboratory performance.

① Not relevant to swallow data packages. BL 5-31-02

Inorganic Data Qualifiers

- Due to the trace-level presence of the following compounds in the associated method blanks and/or calibration blanks, the reported positive results for the following compounds in the samples listed below should be considered "not-detected" and have been flagged "U" on the data tables. Furthermore, results that were reported below the sample specific detection limits were replaced with the detection limit and the appropriate "U" qualifier. It should be noted that sample weights were taken into consideration when evaluating blank contamination.

Analyte	Samples With Positive Results Qualified as "Not-Detected" ("U")
aluminum	[illegible]
arsenic	All fish samples, except LPX-WS-4009-0000-01 ① All crayfish samples
antimony	GMP-CF-5001-0000-01, RAB-CF-5004-0000-01, CMS-CF-4003-0000-01, LPX-CF-4004-0000-01, all fish samples except LPX-WS-4001-0000-01, LPX-WS-4002-0000-01, LPX-WS-4005-0000-01, LPX-WS-4007-0000-01, LPX-WS-4008-0000-01, LPX-WS-4009-0000-01, LPX-AE-4001-0000-01, LPX-LB-4006-0000-01F, LPX-LB-4006-0000-01O, LPX-DU-062101-0000-DF, LPX-DU-062101-0000-DO, GMP-WS-5001-0000-01, GMP-WS-5002-0000-01, GMP-WS-5003-0000-01, GMP-WS-5004-0000-01, GMP-WS-5005-0000-01, GMP-WS-5006-0000-01, GMP-WS-5007-0000-01, GMP-WS-5008-0000-01, GMP-WS-5009-0000-01, GMP-WS-5010-0000-01, GMP-AE-5001-0000-01, GMP-AE-5002-0000-01, GMP-AE-5003-0000-01, GMP-AE-5004-0000-01, GMP-AE-5005-0000-01, and GMP-AE-5006-0000-01 ①
barium	LPX-LB-4006-0000-01F, MAP-LB-4002-0000-01F, MAP-LB-4003-0000-01F, GMP-LB-5002-0000-01F, GMP-LB-5003-0000-01F, GMP-LB-5005-0000-01F, GMP-LB-5006-0000-01F, GMP-LB-5007-0000-01F, GMP-LB-5010-0000-01F, LPX-LB-4009-0000-01F, RAB-LB-5001-0000-01F, RAB-LB-5003-0000-01F, and RAB-LB-5004-0000-01F

① Not relevant to swallow data packages. 5-31-02

Analyte	Samples With Positive Results Qualified as "Not-Detected" ("U")
[illegible]	[illegible]
chromium	[illegible], LPX-WS-4004-0000-01, LPX-DU-062101-A, LPX-AE-4001-0000-01, LPX-AE-4002-0000-01, LPX-AE-4003-0000-01, GMP-LB-5002-0000-01F, GMP-LB-5003-0000-01F, GMP-LB-5003-0000-1O, GMP-LB-5004-0000-01F, GMP-LB-5004-0000-01O, GMP-LB-5005-0000-01F, GMP-LB-5005-0000-01O, GMP-LB-5006-0000-01F, GMP-LB-5006-0000-01O, GMP-LB-5007-0000-01F, LPX-AE-4005-0000-01, LPX-DU-062101-B, LPX-AE-4006-0000-01, LPX-AE-4007-0000-01, LPX-AE-4008-0000-01, LPX-AE-4009-0000-01, LPX-AE-4010-0000-01, LPX-LB-4001-0000-01F, LPX-LB-4001-0000-01O, LPX-LB-4002-0000-01F, LPX-LB-4002-0000-01O, LPX-LB-4003-0000-01F, LPX-LB-4004-0000-01F, LPX-LB-4004-0000-01O, LPX-DU-062101-0000-CF, LPX-DU-062101-0000-CO, LPX-LB-4005-0000-01F, LPX-LB-4005-0000-01O, LPX-LB-4006-0000-01F, LPX-LB-4006-0000-01O, LPX-LB-4007-0000-01F, LPX-LB-4007-0000-01O, LPX-LB-4008-0000-01F, LPX-DU-062101-0000-DF, GMP-WS-5003-0000-01, GMP-WS-5005-0000-01, GMP-WS-5008-0000-01, GMP-WS-5009-0000-01, GMP-AE-5001-0000-01, GMP-AE-5002-0000-01, GMP-AE-5003-0000-01, GMP-AE-5006-0000-01, GMP-AE-5007-0000-01, GMP-AE-5008-0000-01, GMP-AE-5009-0000-01, GMP-LB-5001-0000-01F, GMP-LB-5007-0000-01O, GMP-LB-5008-0000-01F, GMP-LB-5008-0000-01O, GMP-LB-5009-0000-01F, RAB-AE-5004-0000-01, RAB-AE-5005-0000-01, MAP-LB-4002-0000-01F, RAB-AE-5006-0000-01, GMP-CF-5001-0000-01, RAB-CF-5004-0000-01, and LPX-CF-4004-0000-01
iron	GMP-LB-5010-0000-01F, [illegible]-5001-0000-01F, RAB-LB-5003-0000-01F, [illegible]-LB-5004-0000-01F

① Not relevant to swallows data packages. BL 5-31-02

Analyte	Samples With Positive Results Qualified as "Not-Detected" ("U")
lead	APC-AE-4008-0000-01, APC-WS-4002-0000-01, APC-WS-4003-0000-01, APC-WS-4004-0000-01, APC-WS-4007-0000-01, GMP-LB-5001-0000-01F, GMP-LB-5002-0000-01F, GMP-LB-5003-0000-01F, GMP-LB-5004-0000-01F, GMP-LB-5006-0000-01F, GMP-LB-5007-0000-01F, GMP-LB-5008-0000-01F, GMP-LB-5009-0000-01F, GMP-LB-5010-0000-01F, LPX-LB-4009-0000-01F, RAB-LB-5001-0000-01F, RAB-LB-5002-0000-01F, RAB-LB-5003-0000-01F, RAB-LB-5003-0000-01O, RAB-LB-5004-0000-01F, MAP-LB-4002-0000-01F, MAP-LB-4003-0000-01F, RAB-AE-5006-0000-01, and GMP-LB-5005-0000-01F
mercury	[illegible], GMP-AE-5009-0000-01, GMP-AE-5010-0000-01, GMP-LB-5001-0000-01F, GMP-LB-5001-0000-01O, GMP-LB-5002-0000-01F, GMP-LB-5002-0000-01O, GMP-LB-5003-0000-01F, GMP-LB-5003-0000-01O, GMP-LB-5004-0000-01F, GMP-LB-5004-0000-01O, GMP-LB-5005-0000-01F, GMP-LB-5005-0000-01O, GMP-LB-5006-0000-01F, GMP-LB-5006-0000-01O, GMP-LB-5007-0000-01F, GMP-LB-5007-0000-01O, GMP-LB-5008-0000-01F, GMP-LB-5008-0000-01O, GMP-LB-5010-0000-01F, LPX-LB-4009-0000-01F, RAB-LB-5003-0000-01F, and MAP-LB-4003-0000-01F
selenium	LPX-LB-4008-0000-01F, LPX-LB-4008-0000-01O, LPX-DU-062101-0000-DF, GMP-WS-5001-0000-01, GMP-WS-5002-0000-01, GMP-WS-5003-0000-01, GMP-WS-5004-0000-01, GMP-WS-5005-0000-01, GMP-WS-5006-0000-01, GMP-WS-5007-0000-01, GMP-WS-5008-0000-01, GMP-WS-5009-0000-01, GMP-WS-5010-0000-01, GMP-AE-5001-0000-01, GMP-AE-5002-0000-01, GMP-AE-5003-0000-01, GMP-AE-5004-0000-01, GMP-AE-5005-0000-01, GMP-AE-5006-0000-01, RAB-LB-5004-0000-01O, RAB-AE-5004-0000-01, RAB-AE-5005-0000-01, MAP-LB-4001-0000-01F, MAP-LB-4001-0000-01O, MAP-LB-4002-0000-01F, MAP-LB-4002-0000-01O, MAP-LB-4003-0000-01F, MAP-LB-4003-0000-01O, RAB-BB-5003-0000-01, RAB-AE-5006-0000-01, DYP-AE-5001-0000-01, DYP-AE-5002-0000-01, DYP-AE-5003-0000-01, GMP-LB-5003-0000-01F, GMP-LB-5006-0000-01F, and GMP-LB-5007-0000-01F
cadmium	LPX-LB-4001-0000-01F, LPX-LB-4002-0000-01F, LPX-LB-4003-0000-01F, LPX-LB-4004-0000-01F, LPX-DU-062101-0000-CF, LPX-LB-4005-0000-01F, LPX-LB-4006-0000-01F, LPX-LB-4007-0000-01F, GMP-LB-5001-0000-01F, GMP-LB-5002-0000-01F, GMP-LB-5003-0000-01F, GMP-LB-5004-0000-01F, GMP-LB-5005-0000-01F, GMP-LB-5006-0000-01F, GMP-LB-5007-0000-01F, GMP-LB-5008-0000-01F, GMP-LB-5010-0000-01F, LPX-LB-4009-0000-01F, RAB-LB-5001-0000-01F, RAB-LB-5002-0000-01F, MAP-LB-4001-0000-01F, and MAP-LB-4003-0000-01F

① Not relevent to swallow data packages. BL 5-31-02

Analyte	Samples With Positive Results Qualified as "Not-Detected" ("U")
mercury	LPX-AE-4007-0000-01, LPX-AE-4008-0000-01, LPX-AE-4009-0000-01, LPX-AE-4010-0000-01, LPX-LB-4001-0000-01F, LPX-LB-4001-0000-01O, LPX-LB-4002-0000-01F, LPX-LB-4002-0000-01O, LPX-LB-4003-0000-01F, LPX-LB-4003-0000-01O, LPX-LB-4004-0000-01F, LPX-LB-4004-0000-01O, LPX-DU-062101-0000-CF, LPX-DU-062101-0000-CO, LPX-LB-4005-0000-01F, LPX-LB-4005-0000-01O, LPX-LB-4006-0000-01F, LPX-LB-4006-0000-01O, LPX-LB-4007-0000-01F, LPX-LB-4007-0000-01O, GMP-AE-5002-0000-01, GMP-AE-5004-0000-01, GMP-AE-5005-0000-01, and GMP-AE-5006-0000-01
molybdenum	APC-AE-4001-0000-01, APC-AE-4002-0000-01, APC-AE-4003-0000-01, APC-DU-062101-0000-CF, APC-AE-4005-0000-01, APC-AE-4006-0000-01, APC-AE-4007-0000-01, APC-AE-4008-0000-01, APC-AE-4009-0000-01, APC-AE-4010-0000-01, APC-WS-4001-0000-01, APC-WS-4002-0000-01, APC-WS-4003-0000-01, APC-WS-4004-0000-01, APC-WS-4005-0000-01, APC-WS-4006-0000-01, APC-WS-4007-0000-01, GMP-AE-5008-0000-01, GMP-AE-5009-0000-01, GMP-LB-5001-0000-01F, GMP-LB-5001-0000-01O, GMP-LB-5002-0000-01F, GMP-LB-5003-0000-01F, GMP-LB-5003-0000-01O, GMP-LB-5004-0000-01F, GMP-LB-5004-0000-01O, GMP-LB-5005-0000-01F, GMP-LB-5005-0000-01O, GMP-LB-5006-0000-01F, GMP-LB-5006-0000-01O, GMP-LB-5007-0000-01F, GMP-LB-5007-0000-01O, GMP-LB-5008-0000-01F, GMP-LB-5009-0000-01F, GMP-LB-5009-0000-01O, GMP-LB-5010-0000-01F, GMP-LB-5010-0000-01O, GMP-AE-5010-0000-01, LPX-LB-4009-0000-01F, LPX-LB-4009-0000-01O, LPX-LB-4010-0000-01F, LPX-LB-4010-0000-01O, RAB-LB-5001-0000-01F, RAB-LB-5001-0000-01O, RAB-LB-5002-0000-01F, RAB-LB-5002-0000-01O, LPX-AE-4001-0000-01, LPX-AE-4002-0000-01, LPX-AE-4005-0000-01, LPX-DU-062101-E, LPX-AE-4006-0000-01, LPX-AE-4007-0000-01, LPX-AE-4008-0000-01, LPX-AE-4009-0000-01, LPX-AE-4010-0000-01, LPX-LB-4001-0000-01F, LPX-LB-4002-0000-01F, LPX-LB-4003-0000-01F, LPX-LB-4004-0000-01F, LPX-DU-062101-0000-CF, LPX-LB-4005-0000-01F, LPX-LB-4006-0000-01F, LPX-LB-4007-0000-01O, LPX-LB-4008-0000-01F, LPX-LB-4008-0000-01O, LPX-DU-062101-0000-DF, LPX-DU-062101-0000-DO, RAB-BB-5001-0000-01, RAB-BB-5002-0000-01, RAB-AE-5001-0000-01, RAB-AE-5002-0000-01, RAB-AE-5003-0000-01, RAB-LB-5003-0000-01F, RAB-LB-5003-0000-01O, RAB-LB-5004-0000-01F, RAB-AE-5004-0000-01, GMP-WS-5001-0000-01, GMP-WS-5002-0000-01, GMP-WS-5003-0000-01, GMP-WS-5004-0000-01, GMP-WS-5005-0000-01, GMP-WS-5006-0000-01, GMP-WS-5007-0000-01, GMP-WS-5008-0000-01, GMP-WS-5009-0000-01, GMP-WS-5010-0000-01, GMP-AE-5001-0000-01, GMP-AE-5002-0000-01, GMP-AE-5003-0000-01, GMP-AE-5004-0000-01, GMP-AE-5005-0000-01, GMP-AE-5006-0000-01, GMP-AE-5007-0000-01, RAB-LB-4001-0000-01F, MAP-LB-4002-0000-01F, RAB-LB-4003-0000-01, RAB-LB-5003-0000-01, RAB-AE-5006-0000-01, DYP-AE-5001-0000-01, DYP-AG-5002-0000-01, and DYP-AE-5003-0000-01

① Not relavent to swallow cloth packages. BL 5-31-02

Analyte	Samples With Positive Results Qualified as "Not-Detected" ("U")
thallium	APC-AE-4001-0000-01, APC-AE-4002-0000-01, APC-AE-4003-0000-01, APC-AE-4004-0000-01, APC-DU-062101-0000-B, APC-AE-4005-0000-01, APC-AE-4006-0000-01, APC-AE-4007-0000-01, APC-AE-4008-0000-01, APC-AE-4009-0000-01, APC-AE-4010-0000-01, APC-WS-4001-0000-01, APC-WS-4002-0000-01, APC-WS-4003-0000-01, APC-WS-4004-0000-01, APC-WS-4005-0000-01, APC-WS-4006-0000-01, APC-WS-4007-0000-01, APC-WS-4008-0000-01, APC-DU-062101-0000-4, APC-WS-4009-0000-01, APC-WS-4010-0000-01, LPX-WS-4001-0000-01, LPX-WS-4002-0000-01, LPX-WS-4003-0000-01, LPX-WS-4004-0000-01, LPX-WS-4005-0000-01, LPX-DU-062101-A, LPX-WS-4006-0000-01, LPX-WS-4007-0000-01, LPX-WS-4008-0000-01, LPX-WS-4009-0000-01, LPX-WS-4010-0000-01, LPX-AE-4001-0000-01, LPX-AE-4002-0000-01, LPX-AE-4003-0000-01, LPX-AE-4004-0000-01, LPX-AE-4005-0000-01, LPX-DU-062101-B, LPX-AE-4006-0000-01, GMP-AE-5010-0000-01, RAB-BB-5001-0000-01, RAB-AE-5003-0000-01, RAB-AE-5005-0000-01, MAP-LB-4002-0000-01F, MAP-LB-4003-0000-01F, RAB-BB-5003-0000-01, RAB-AE-5006-0000-01, DYP-AE-5001-0000-01, DYP-AE-5002-0000-01, DYP-AE-5003-0000-01, GMP-WS-5001-0000-01, GMP-WS-5006-0000-01, GMP-WS-5010-0000-01, CMS-CF-4006-0000-01, CMS-CF-4006-0000-01, and LPX-CF-4002-0000-01
silver	APC-DU-062101-0000-B, APC-AE-4005-0000-01, APC-AE-4007-0000-01, APC-AE-4008-0000-01, APC-AE-4010-0000-01, APC-WS-4001-0000-01, APC-WS-4002-0000-01, APC-WS-4003-0000-01, APC-WS-4004-0000-01, APC-WS-4005-0000-01, GMP-AE-5004-0000-01, GMP-AE-5005-0000-01, GMP-AE-5006-0000-01, GMP-AE-5007-0000-01, GMP-AE-5008-0000-01, GMP-AE-5009-0000-01, GMP-LB-5001-0000-01F, GMP-LB-5001-0000-01O, GMP-LB-5002-0000-01F, GMP-LB-5002-0000-01O, GMP-LB-5003-0000-01F, GMP-LB-5003-0000-01O, GMP-LB-5004-0000-01F, GMP-LB-5004-0000-01O, GMP-LB-5005-0000-01F, GMP-LB-5005-0000-01O, GMP-LB-5006-0000-01O, GMP-LB-5007-0000-01F, GMP-LB-5007-0000-01O, GMP-LB-5008-0000-01F, GMP-LB-5008-0000-01O, GMP-LB-5009-0000-01F, MAP-LB-4003-0000-01F, MAP-LB-4003-0000-01O, RAB-BB-5003-0000-01, RAB-AE-5006-0000-01, DYP-AE-5001-0000-01, DYP-AE-5002-0000-01, DYP-AE-5003-0000-01, RAB-BB-5001-0000-01, RAB-AE-5004-0000-01, RAB-AE-5005-0000-01, MAP-LB-4001-0000-01F, MAP-LB-4001-0000-01O, MAP-LB-4002-0000-01F, MAP-LB-4002-0000-01O, LPX-AE-4007-0000-01, LPX-AE-4008-0000-01, LPX-AE-4009-0000-01, LPX-DU-062101-0000-01, LPX-LB-4001-0000-01F, LPX-LB-4001-0000-01O, LPX-LB-4002-0000-01F, LPX-LB-4002-0000-01O, LPX-LB-4003-0000-01F, LPX-LB-4003-0000-01O, LPX-LB-4004-0000-01F, LPX-LB-4004-0000-01O, LPX-DU-062101-0000-DF, LPX-DU-062101-0000-CO, LPX-LB-4005-0000-01F, LPX-LB-4005-0000-01O, LPX-LB-4006-0000-01F, LPX-LB-4006-0000-01O, LPX-LB-4007-0000-01F, LPX-LB-4007-0000-01O, LPX-LB-4008-0000-01F, LPX-LB-4008-0000-01O, LPX-DU-062101-0000-DO, GMP-WS-5001-0000-01, GMP-WS-5002-0000-01, GMP-WS-5003-0000-01, GMP-WS-5004-0000-01, GMP-WS-5005-0000-01, GMP-WS-5006-0000-01, GMP-WS-5007-0000-01, GMP-WS-5008-0000-01, GMP-WS-5009-0000-01,

① Not relavent to swallow data packages. BL 5-31-02

Analyte	Samples With Positive Results Qualified as "Not-Detected" ("UJ")
Silver	~~GMP-WS-5008-0000-01, GMP-AE-5002-0000-01, GMP-AE-5003-0000-01~~, A-TS-35-L, A-TS-~~[illegible]~~, A-TS-48-L, A-TS-57-L, G-TS-02-L, G-TS-07-L, G-TS-22-L, G-TS-~~[illegible]~~, L-TS-63-L, L-TS-70-L, and L-TS-89-L
vanadium	~~APC-AE-4002-0000-01, APC-AE-4003-0000-01, APC-AE-4004-0000-01~~, APC-DU-062001-0000-B, APC-AE-4006-0000-01, APC-AE-4007-0000-01, APC-AE-4008-0000-01, APC-AE-4009-0000-01, APC-AE-4010-0000-01, APC-WS-4002-0000-01, APC-WS-4003-0000-01, APC-WS-4005-0000-01, APC-WS-4006-0000-01, APC-WS-4007-0000-01, LPX-AE-4009-0000-01, APC-WS-4009-0000-01, LPX-AE-4007-0000-01, LPX-LB-4001-0000-01O, LPX-LB-4002-0000-01F, LPX-LB-4002-0000-01O, LPX-AE-4002-0000-01, LPX-AE-4003-0000-01, LPX-AE-4004-0000-01, LPX-AE-4005-0000-01, LPX-DU-062101-B, LPX-WS-4004-0000-01, LPX-WS-4005-0000-01, GMP-AE-5007-0000-01, GMP-AE-5008-0000-01, GMP-AE-5009-0000-01, GMP-LB-5001-0000-01O, GMP-LB-6002-0000-01F, GMP-LB-5002-0000-01O, GMP-LB-5003-0000-01O, GMP-LB-5004-0000-01F, GMP-LB-5004-0000-01O, GMP-LB-5005-0000-01F, GMP-LB-5005-0000-01O, GMP-LB-5006-0000-01O, RAB-CF-5004-0000-01, LPX-LB-4004-0000-01F, LPX-LB-4006-0000-01O, LPX-LB-4007-0000-01F, LPX-LB-4008-0000-01F, LPX-DU-062101-0000-DF, GMP-WS-5001-0000-01, GMP-WS-5003-0000-01, GMP-AE-5004-0000-01, ~~GMP-AE-5006-0000-01, GMP-AE-5008-0000-01~~, ~~GMP-LB-5009-0000-01F~~, A-TS-35-L, A-TS-48-L, A-TS-49-L, G-TS-04-L, G-TS-29-L, L-TS-63-L, L-TS-70-L, L-TS-89-L, and A-TS-57-L
zinc	~~RAB-LB-5004-0000-01O, RAB-AE-5004-0000-01, RAB-AE-5006-0000-01~~, MAP-LB-4001-0000-01F, MAP-LB-4001-0000-01O, MAP-LB-4002-0000-01F, MAP-LB-4002-0000-01O, MAP-LB-4003-0000-01F, MAP-LB-4003-0000-01O, RAB-BB-5003-0000-01, RAB-AE-5006-0000-01, DYP-AE-5001-0000-01, DYP-AE-5002-0000-01, and DYP-AE-5003-0000-01
aluminum, cobalt, nickel, arsenic, antimony, barium, thallium, and lead	All tissue samples
chromium, selenium, and cadmium	All tissue samples except A-TS-57-L

- The detection limits for the following analytes in the samples listed below may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. In addition, any reported positive results for these analytes in the samples listed below should be considered estimated and have been flagged "J" (unless previously flagged "U") on the data tables. High %Ds (>25%), coupled with a bias towards lower recoveries, were obtained between the observed and true concentrations of these analytes in the associated SRM analyses.

① Not relevant to subtlow data packages. BL 5-31-02

Analyte	Samples With Qualified Detection Limits ("UJ") or Estimated Positive Results ("J")
aluminum	APC-AE-4001-0000-01, APC-AE-4002-0000-01, APC-AE-4003-0000-01, [illegible], APC-AE-4005-0000-01, APC-AE-[illegible], APC-AE-4007-0000-01, APC-AE-4008-0000-01, APC-AE-[illegible], APC-AE-4010-0000-01, APC-WS-4001-0000-01, [illegible], APC-WS-4004-0000-01, [illegible], APC-WS-4007-0000-01, [illegible], APC-DU-062001-0000-CF, all crayfish samples, [illegible]
selenium	LPX-AE-4007-0000-01, LPX-AE-4008-0000-01, LPX-AE-4009-0000-01, LPX-AE-4010-0000-01, LPX-LB-4001-0000-01F, LPX-LB-4001-0000-01O, LPX-LB-4002-0000-01F, LPX-LB-4002-0000-01O, LPX-LB-4003-0000-01F, LPX-LB-4003-0000-01O, LPX-LB-4004-0000-01F, LPX-LB-4004-0000-01O, LPX-DU-062101-0000-CF, LPX-DU-062101-0000-CO, LPX-LB-4005-0000-01F, LPX-LB-4005-0000-01O, LPX-LB-4006-0000-01F, LPX-LB-4006-0000-01O, LPX-LB-4007-0000-01F, LPX-LB-4007-0000-01O, LPX-LB-4008-0000-01F, LPX-LB-4008-0000-01O, LPX-DU-062101-0000-DF, LPX-DU-062101-0000-DO, GMP-WS-5001-0000-01, GMP-WS-5002-0000-01, GMP-WS-5003-0000-01, GMP-WS-5004-0000-01, GMP-WS-5005-0000-01, GMP-WS-5006-0000-01, GMP-WS-5007-0000-01, GMP-WS-5008-0000-01, GMP-WS-5009-0000-01, GMP-WS-5010-0000-01, GMP-AE-5001-0000-01, GMP-AE-5002-0000-01, GMP-AE-5003-0000-01, GMP-AE-5004-0000-01, GMP-AE-5005-0000-01, GMP-AE-5006-0000-01, GMP-LB-5009-0000-01O, GMP-LB-5010-0000-01F, GMP-LB-5010-0000-01O, GMP-AE-5010-0000-01, LPX-LB-4009-0000-01F, LPX-LB-4009-0000-01O, LPX-4010-0000-01F, LPX-4010-0000-01O, RAB-LB-5001-0000-01F, RAB-LB-5001-0000-01O, RAB-LB-5002-0000-01F, RAB-LB-5002-0000-01O, RAB-BB-5001-0000-01, RAB-BB-5002-0000-01, RAB-AE-5001-0000-01, RAB-AE-5002-0000-01, RAB-AE-5003-0000-01, RAB-LB-5003-0000-01F, RAB-LB-5003-0000-01O, and RAB-LB-5004-0000-01F

- The reported positive results for the following analytes in the samples listed below should be considered estimated and have been flagged "J" (unless previously flagged "U") on the data tables. High %Ds (>25%), couple with a bias towards higher recoveries, were obtained between the observed and true concentrations of these analytes in the associated SRM analyses.

① Not relevant to swallow data packages. BL 5-11-02

Analyte(s)	Samples With Estimated Positive Results ("J")
~~aluminum, selenium, and lead~~	~~All crayfish samples and all worm samples~~ ①
lead	APC-WS-4009-0000-01, APC-WS-4010-0000-01, LPX-WS-4001-0000-01, LPX-WS-4002-0000-01, LPX-WS-4003-0000-01, LPX-WS-4004-0000-01, LPX-WS-4005-0000-01, LPX-DU-062101-A, LPX-WS-4006-0000-01, LPX-WS-4007-0000-01, LPX-WS-4008-0000-01, LPX-WS-4009-0000-01, LPX-WS-4010-0000-01, LPX-AE-4001-0000-01, LPX-AE-4002-0000-01, LPX-AE-4003-0000-01, LPX-AE-4004-0000-01, LPX-AE-4005-0000-01, LPX-DU-062101-B, LPX-AE-4006-0000-01, GMP-LB-5010-0000-01F, LMP-LB-4009-0000-01F, RAB-LB-5001-0000-01F, RAB-LB-5002-0000-01F, RAB-LB-5003-0000-01F, RAB-LB-5004-0000-01F, GMP-LB-5009-0000-01O, GMP-LB-5010-0000-01O, GMP-AE-5010-0000-01, LPX-LB-4009-0000-01O, LPX-LB-4010-0000-01F, LPX-LB-4010-0000-01O, RAB-LB-5001-0000-01O, RAB-LB-5002-0000-01O, RAB-BB-5001-0000-01, RAB-BB-5002-0000-01, RAB-AE-5001-0000-01, RAB-AE-5002-0000-01, RAB-AE-5003-0000-01, and RAB-LB-5003-0000-01O ①
lead, iron, and zinc	LPX-AE-4007-0000-01, LPX-AE-4008-0000-01, LPX-AE-4009-0000-01, LPX-AE-4010-0000-01, LPX-LB-4001-0000-01F, LPX-LB-4001-0000-01O, LPX-LB-4002-0000-01F, LPX-LB-4002-0000-01O, LPX-LB-4003-0000-01F, LPX-LB-4003-0000-01O, LPX-LB-4004-0000-01F, LPX-LB-4004-0000-01O, LPX-DU-062101-0000-CF, LPX-DU-062101-0000-CO, LPX-LB-4005-0000-01F, LPX-LB-4005-0000-01O, LPX-LB-4006-0000-01F, LPX-LB-4006-0000-01O, LPX-LB-4007-0000-01F, and LPX-LB-4007-0000-01O ①
aluminum and chromium	All tissue samples

- The detection limits for the following analytes in the samples listed below may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. In addition, any reported positive results for these analytes in the samples listed below should be considered estimated and have been flagged "J" (unless previously flagged "U") on the data tables. Low recoveries (<70%) and/or high RPDs (>30%) were observed for these analytes in the associated MS/MSD analyses.

① Not relavent to swallow data packages. BL 5-31-02

Analyte	Samples With Biased Detection Limits ("UJ") or Estimated Positive Results ("J")
manganese	APC-AE-4001-0000-01, APC-AE-4002-0000-01, APC-AE-4003-0000-01, APC-AE-4004-0000-01, APC-DU-062001-0000-B, APC-AE-4005-0000-01, APC-AE-4006-0000-01, APC-AE-4008-0000-01, APC-AE-4009-0000-01, APC-AE-4010-0000-01, APC-WS-4001-0000-01, APC-WS-4002-0000-01, APC-WS-4003-0000-01, APC-WS-4004-0000-01, APC-WS-4005-0000-01, APC-WS-4006-0000-01, APC-WS-4007-0000-01, APC-WS-4008-0000-01, and APC-DU-062101-0000-4
[illegible]	GMP-AE-5001-0000-01, GMP-AE-5002-0000-01, GMP-AE-5009-0000-01, GMP-LB-5001-0000-01F, GMP-LB-5001-0000-01O, GMP-LB-5002-0000-01F, GMP-LB-5002-0000-01O, GMP-LB-5003-0000-01F, GMP-LB-5003-0000-01O, GMP-LB-5004-0000-01F, GMP-LB-5004-0000-01O, GMP-LB-5005-0000-01O, GMP-LB-5007-0000-01F, GMP-LB-5007-0000-01O, GMP-LB-5008-0000-01F, GMP-LB-5008-0000-01O, GMP-LB-5009-0000-01F, GMP-LB-5009-0000-01O, GMP-LB-5010-0000-01F, GMP-LB-5010-0000-01O, GMP-AE-5010-0000-01, LPX-LB-4009-0000-01F, LPX-LB-4009-0000-01O, LPX-LB-4010-0000-01F, LPX-LB-4010-0000-01O, RAB-LB-5001-0000-01F, RAB-LB-5001-0000-01O, RAB-LB-5002-0000-01F, RAB-LB-5002-0000-01O, RAB-BB-5002-0000-01, RAB-AE-5001-0000-01, RAB-AE-5002-0000-01, RAB-AE-5003-0000-01, RAB-LB-5003-0000-01F, and RAB-LB-5004-0000-01F
zinc	LPX-AE-4007-0000-01, LPX-AE-4008-0000-01, LPX-AE-4009-0000-01, LPX-AE-4010-0000-01, LPX-LB-4001-0000-01F, LPX-LB-4001-0000-01O, LPX-LB-4002-0000-01F, LPX-LB-4002-0000-01O, LPX-LB-4003-0000-01F, LPX-LB-4003-0000-01O, LPX-LB-4004-0000-01F, LPX-LB-4004-0000-01O, LPX-DU-062101-0000-CF, LPX-DU-062101-0000-CO, LPX-LB-4005-0000-01F, LPX-LB-4005-0000-01O, LPX-LB-4006-0000-01F, LPX-LB-4006-0000-01O, LPX-LB-4007-0000-01F, and LPX-LB-4007-0000-01O
beryllium, aluminum, vanadium, barium, chromium, and selenium	All aqueous samples (1)

(1) Not relevant to swallow data packages. BL 5-31-02

Analyte	Samples With Biased Detection Limits ("UJ") or Estimated Positive Results ("J")
selenium	LPX-LB-4008-0000-01F, LPX-LB-4008-0000-01O, LPX-DU-062101-0000-DF, LPX-DU-062101-0000-DO, GMP-WS-5001-0000-01, GMP-WS-5003-0000-01, GMP-WS-5004-0000-01, GMP-WS-5005-0000-01, GMP-WS-5006-0000-01, GMP-WS-5007-0000-01, GMP-WS-5008-0000-01, GMP-WS-5009-0000-01, GMP-WS-5010-0000-01, GMP-AE-5002-0000-01, GMP-AE-5003-0000-01, GMP-AE-5004-0000-01, GMP-AE-5005-0000-01, GMP-AE-5006-0000-01, RAB-LB-5004-0000-01O, RAB-AE-5004-0000-01, RAB-AE-5005-0000-01, MAP-LB-4001-0000-01F, MAP-LB-4001-0000-01O, MAP-LB-4002-0000-01F, MAP-LB-4002-0000-01O, MAP-LB-4003-0000-01F, MAP-LB-4003-0000-01O, RAB-BB-5003-0000-01, RAB-AE-5006-0000-01, DYP-AE-5001-0000-01, DYP-AE-5002-0000-01, and DYP-AE-50003-0000-01
vanadium	GMP-AE-5007-0000-01, GMP-AE-5008-0000-01, GMP-AE-5009-0000-01, GMP-LB-5001-0000-01F, GMP-LB-5001-0000-01O, GMP-LB-5002-0000-01F, GMP-LB-5002-0000-01O, GMP-LB-5003-0000-01O, GMP-LB-5004-0000-01F, GMP-LB-5004-0000-01O, GMP-LB-5006-0000-01O, GMP-LB-5007-0000-01F, GMP-LB-5007-0000-01O, GMP-LB-5008-0000-01F, GMP-LB-5008-0000-01O, GMP-LB-5009-0000-01F, GMP-LB-5009-0000-01O, GMP-LB-5010-0000-01F, GMP-LB-5010-0000-01O, GMP-AE-5010-0000-01, LPX-LB-4009-0000-01F, LPX-LB-4009-0000-01O, LPX-LB-4010-0000-01F, LPX-LB-4010-0000-01O, RAB-LB-5001-0000-01F, RAB-LB-5001-0000-01O, RAB-LB-5002-0000-01F, RAB-LB-5002-0000-01O, RAB-AE-5001-0000-01, RAB-BB-5002-0000-01, RAB-AE-5001-0000-01O, RAB-AE-5002-0000-01, RAB-AE-5003-0000-01, RAB-LB-5003-0000-01O, and RAB-LB-5004-0000-01F

- The reported positive results for the following analytes in the samples listed below should be considered estimated and have been flagged "J" (unless previously flagged "U") on the data tables. High recoveries (>130%) and/or high RPDs (>30%) were observed for these analytes in the associated MS/MSD analyses.

Analyte	Samples With Estimated Positive Results ("J")
nickel	GMP-AE-5007-0000-01, GMP-AE-5008-0000-01, GMP-AE-5009-0000-01, GMP-LB-5001-0000-01F, GMP-LB-5001-0000-01O, GMP-LB-5002-0000-01F, GMP-LB-5002-0000-01O, GMP-LB-5003-0000-01F, GMP-LB-5004-0000-01F, GMP-LB-5004-0000-01O, GMP-LB-5007-0000-01F, GMP-LB-5007-0000-01O, GMP-LB-5008-0000-01F, GMP-LB-5008-0000-01O, and GMP-LB-5009-0000-01F
copper	LPX-AE-4007-0000-01, LPX-AE-4008-0000-01, LPX-AE-4009-0000-01, LPX-AE-4010-0000-01, LPX-LB-4001-0000-01F, LPX-LB-4001-0000-01O, LPX-LB-4002-0000-01F, LPX-LB-4002-0000-01O, LPX-LB-4003-0000-01F, LPX-LB-4003-0000-01O, LPX-LB-4004-0000-01F, LPX-LB-4004-0000-01O, LPX-DU-062101-0000-CF, LPX-DU-062101-0000-CO, LPX-LB-4005-0000-01F, LPX-LB-4005-0000-01O, LPX-LB-4006-0000-01F, LPX-LB-40061-0000-01O, LPX-LB-4007-0000-01F, and LPX-LB-4007-0000-01O

① Not relavent to swallow data packages. BL 5-3-02

Analyte	Samples With Estimated Positive Results ("J")
iron	[illegible] GMP-AE-5009-0000-01, GMP-LB-[illegible]-01F, GMP-LB-[illegible]-01O, GMP-LB-5002-0000-01F, GMP-LB-5002-0000-01O, GMP-LB-5003-0000-01O, GMP-LB-5004-0000-01F, GMP-LB-5004-0000-01O, GMP-LB-5005-0000-01O, GMP-LB-5006-0000-01F, GMP-LB-5006-0000-01O, GMP-LB-5007-0000-01F, GMP-LB-5007-0000-01O, GMP-LB-5008-0000-01F, GMP-LB-5008-0000-01O, GMP-LB-5009-0000-01F, GMP-LB-5009-0000-01O, GMP-LB-5010-0000-01F, GMP-LB-5010-0000-01O, GMP-AE-5010-0000-01, LPX-LB-[illegible]-0000-01F, LPX-LB-[illegible]-0000-01O, LPX-LB-4010-0000-01F, [illegible] RAB-BB-5001-0000-01, RAB-BB-5002-0000-01, RAB-AE-5001-0000-01, RAB-AE-5002-0000-02, RAB-AE-5003-0000-01, RAB-LB-5003-0000-01O, and RAB-LB-5004-0000-01F
manganese	RAB-LB-5004-0000-01O, RAB-AE-5004-0000-01, RAB-AE-5005-0000-01, MAP-LB-4001-0000-01F, MAP-LB-4001-00001-01O, MAP-LB-4002-0000-01F, MAP-LB-4002-0000-01O, MAP-LB-4003-0000-01F, MAP-LB-4003-0000-01O, RAB-BB-5003-0000-01, RAB-AE-5006-0000-01, DYP-AE-5001-0000-01, DYP-AE-5002-0000-01, and DYP-AE-5003-0000-01
zinc	APC-AE-4001-0000-01, APC-AE-4002-0000-01, APC-AE-4003-0000-01, APC-AE-4004-0000-01, APC-DU-062001-0000-01, APC-AE-4005-0000-01, APC-AE-4006-0000-01, APC-AE-4007-0000-01, APC-AE-4008-0000-01, APC-AE-4009-0000-01, APC-AE-4010-0000-01, APC-WS-4001-0000-01, APC-WS-4002-0000-01, APC-WS-4003-0000-01, APC-WS-4004-0000-01, APC-WS-4005-0000-01, APC-WS-4006-0000-01, APC-WS-4007-0000-01, APC-DU-062001-0000-4, LPX-LB-4008-0000-01F, LPX-LB-4008-0000-01O, LPX-DU-062101-0000-DF, LPX-DU-062101-0000-DO, GMP-WS-5001-0000-01, GMP-WS-5003-0000-01, GMP-WS-5004-0000-01, GMP-WS-5005-0000-01, GMP-WS-5006-0000-01, GMP-WS-5007-0000-01, GMP-WS-5008-0000-01, GMP-WS-5009-0000-01, GMP-WS-5010-0000-01, GMP-AE-5002-0000-01, GMP-AE-5003-0000-01, GMP-AE-5004-0000-01, GMP-AE-5005-0000-01, GMP-AE-5006-0000-01, GMP-AE-5007-0000-01, GMP-AE-5008-0000-01, GMP-AE-5009-0000-01, GMP-LB-5001-0000-01F, GMP-LB-5001-0000-01O, GMP-LB-5002-0000-01F, GMP-LB-5002-0000-01O, GMP-LB-5004-0000-01F, GMP-LB-5004-0000-01O, GMP-LB-5006-0000-01O, GMP-LB-5007-0000-01F, GMP-LB-5007-0000-01O, GMP-LB-5008-0000-01F, GMP-LB-5008-0000-01O, and GMP-LB-5009-0000-01F

- The detection limits for silver and/or mercury in the following samples may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. In addition, any reported positive results for silver and/or mercury in these samples should be considered estimated and have been flagged "J" (unless previously flagged "U") on the data tables. Low recoveries (<70%) were observed for silver in the associated blank spike analyses.

① Not relavent to swallow data packages BL 5-31-02

Analyte(s)	Samples With Qualified Detection Limits ("UJ") or Estimated Positive Results ("J")
silver	LPX-AE-4007-0000-01, LPX-AE-4008-0000-01, LPX-AE-4009-0000-01, LPX-AE-4010-0000-01, LPX-LB-4001-0000-01F, LPX-LB-4001-0000-01O, LPX-LB-4002-0000-01F, LPX-LB-4002-0000-01O, LPX-LB-4003-0000-01F, LPX-LB-4003-0000-01O, LPX-LB-4004-0000-01F, LPX-LB-4004-0000-01O, LPX-LB-4004-0000-01F, LPX-DU-062101-0000-CD, LPX-LB-4005-0000-01F, LPX-LB-4005-0000-01O, LPX-LB-4006-0000-01F, LPX-LB-4006-0000-01O, LPX-LB-4007-0000-01F, and LPX-LB-4007-0000-01O
silver and mercury	GMP-AE-5007-0000-01, GMP-AE-5008-0000-01, GMP-AE-5009-0000-01, GMP-LB-5001-0000-01F, GMP-LB-5001-0000-01O, GMP-LB-5002-0000-01F, GMP-LB-5002-0000-01O, GMP-LB-5003-0000-01F, GMP-LB-5003-0000-01O, GMP-LB-5004-0000-01F, GMP-LB-5004-0000-01O, GMP-LB-5005-0000-01F, GMP-LB-5005-0000-01O, GMP-LB-5006-0000-01F, GMP-LB-5006-0000-01O, GMP-LB-5007-0000-01F, GMP-LB-5007-0000-01O, GMP-LB-5008-0000-01F, GMP-LB-5008-0000-01O, and GMP-LB-5009-0000-01F

The reported positive results for the following analytes in the samples listed below should be considered estimated and have been flagged "J" on the data tables. Large discrepancies were obtained for these analytes in the associated laboratory duplicate analyses.

Analyte	Sample(s) With Estimated Positive Results ("J")
barium	All fish samples except LPX-LB-4004-0000-01O, LPX-LB-4006-0000-01F, LPX-LB-4010-0000-01O, RAB-LB-5004-0000-01O, RAB-AE-5004-0000-01, RAB-AE-5005-0000-01, MAP-LB-4001-0000-01F, MAP-LB-4001-0000-01O, MAP-LB-4002-0000-01F, MAP-LB-4002-0000-01O, MAP-LB-4003-0000-01F, MAP-LB-4003-0000-01O, RAB-BB-5003-0000-01, RAB-AE-5006-0000-01, DYP-AE-5001-0000-01, DYP-AE-5002-0000-01, and DYP-AE-5003-0000-01
beryllium	~~All worm samples~~ ①
copper	APC-AE-4001-0000-01, APC-AE-4002-0000-01, APC-AE-4003-0000-01, APC-AE-4004-0000-01, APC-DU-062001-0000-B, APC-AE-4005-0000-01, APC-AE-4006-0000-01, APC-AE-4007-0000-01, APC-AE-4008-0000-01, APC-AE-4009-0000-01, APC-AE-4010-0000-01, APC-WS-4001-0000-01, APC-WS-4002-0000-01, APC-WS-4003-0000-01, APC-WS-4004-0000-01, APC-WS-4005-0000-01, APC-WS-4006-0000-01, APC-WS-4007-0000-01, APC-DU-062001-0000-D, LPX-LB-4008-0000-01F, LPX-DU-062101-0000-DF, LPX-DU-062101-0000-DO, GMP-WS-5001-0000-01, GMP-WS-5002-0000-01, GMP-WS-5003-0000-01, GMP-WS-5004-0000-01, GMP-WS-5005-0000-01, GMP-WS-5006-0000-01, GMP-WS-5007-0000-01, GMP-WS-5008-0000-01, GMP-WS-5009-0000-01, GMP-WS-5010-0000-01, GMP-AE-5001-0000-01, GMP-AE-5002-0000-01, GMP-AE-5003-0000-01, GMP-AE-5004-0000-01, GMP-AE-5005-0000-01, and GMP-AE-5006-0000-01

① Not relavent to swallow data packages.

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Analyte	Sample(s) With Estimated Positive Results ("J")
iron	All crayfish samples ①
lead	APC-AE-4001-0000-01, APC-AE-4002-0000-01, APC-AE-4003-0000-01, APC-AE-4004-0000-01, APC-DU-062001-0000-B, APC-AE-4005-0000-01, APC-AE-4006-0000-01, APC-AE-4007-0000-01, APC-AE-4008-0000-01, APC-AE-4009-0000-01, APC-AE-4010-0000-01, APC-WS-4001-0000-01, APC-WS-4002-0000-01, APC-WS-4003-0000-01, APC-WS-4004-0000-01, APC-WS-4005-0000-01, APC-WS-4006-0000-01, APC-WS-4007-0000-01, APC-WS-4008-0000-01, APC-DU-062001-0000-4, LPX-LB-4008-0000-01O
manganese	APC-AE-4001-0000-01, APC-AE-4002-0000-01, APC-AE-4003-0000-01, APC-AE-4004-0000-01, APC-DU-062001-0000-B, APC-AE-4005-0000-01, APC-AE-4006-0000-01, APC-AE-4007-0000-01, APC-AE-4008-0000-01, APC-AE-4009-0000-01, APC-AE-4010-0000-01, APC-WS-4001-0000-01, APC-WS-4002-0000-01, APC-WS-4003-0000-01, APC-WS-4004-0000-01, APC-WS-4005-0000-01, APC-WS-4006-0000-01, APC-WS-4007-0000-01, APC-WS-4008-0000-01, APC-DU-062001-0000-4, LPX-LB-4008-0000-01F, LPX-DU-062101-0000-DF, LPX-DU-062101-0000-DO, GMP-WS-5001-0000-01, GMP-WS-5002-0000-01, GMP-WS-5003-0000-01, GMP-WS-5004-0000-01, GMP-WS-5005-0000-01, GMP-WS-5006-0000-01, GMP-WS-5007-0000-01, GMP-WS-5008-0000-01, GMP-WS-5009-0000-01, GMP-WS-5010-0000-01, GMP-AE-5001-0000-01, GMP-AE-5002-0000-01, GMP-AE-5003-0000-01, GMP-AE-5004-0000-01, GMP-AE-5005-0000-01, GMP-AE-5006-0000-01, GMP-LB-5009-0000-01F, GMP-LB-5009-0000-01O, GMP-LB-5010-0000-01F, GMP-LB-5010-0000-01O, GMP-AE-5010-0000-01, LPX-LB-4009-0000-01F, LPX-LB-4009-0000-01O, LPX-LB-4010-0000-01F, RAB-LB-5001-0000-01F, RAB-LB-5001-0000-01O, RAB-LB-5002-0000-01F, , RAB-LB-5002-0000-01O, RAB-BB-5001-0000-01, RAB-BB-5002-0000-01, RAB-AE-5001-0000-01, RAB-AE-5002-0000-01, RAB-AE-5003-0000-01, RAB-LB-5003-0000-01F, RAB-LB-5003-0000-01O, and RAB-LB-5004-0000-01F
zinc	LPX-AE-4007-0000-01, LPX-AE-4008-0000-01, LPX-AE-4009-0000-01, LPX-AE-4010-0000-01, LPX-LB-4001-0000-01F, LPX-LB-4001-0000-01O, LPX-LB-4002-0000-01F, LPX-LB-4002-0000-01O, LPX-LB-4003-0000-01F, LPX-LB-4003-0000-01O, LPX-DU-062101-0000-CF, LPX-DU-062101-0000-CO, LPX-LB-4005-0000-01F, LPX-LB-4005-0000-01O, LPX-LB-4006-0000-01O, LPX-LB-4007-0000-01F, LPX-LB-4007-0000-01O, GMP-AE-5007-0000-01, GMP-AE-5008-0000-01, GMP-AE-5009-0000-01, GMP-LB-5001-0000-01F, GMP-LB-5001-0000-01O, GMP-LB-5002-0000-01F, GMP-LB-5002-0000-01O, GMP-LB-5003-0000-01F, GMP-LB-5003-0000-01O, GMP-LB-5004-0000-01F, GMP-LB-5004-0000-01O, GMP-LB-5005-0000-01F, GMP-LB-5005-0000-01O, GMP-LB-5006-0000-01F, GMP-LB-5006-0000-01O, GMP-LB-5007-0000-01F, GMP-LB-5007-0000-01O, GMP-LB-5008-0000-01F, GMP-LB-5008-0000-01O, and GMP-LB-5009-0000-01F

① Not relevant to swallow data packages. BL 5-31-02

- The reported positive results for zinc in all tissue samples should be considered estimated and have been flagged "J" (unless previously flagged "U") on the data tables. Low recoveries (<70%) were observed for these analytes in the associated MS/MSD analyses.

- The reported positive results for iron in all tissue samples should be considered estimated and have been flagged "J" on the data tables. High recoveries (>125%) were observed for these analytes in the associated blank spike analyses.

- Nine field duplicate pairs (sample APC-AE-4004-0000-01 and its field duplicate, sample APC-DU-062001-0000-B; sample APC-WS-4008-0000-01 and its field duplicate, sample APC-DU-062001-0000-4; sample LPX-WS-4005-0000-01 and its field duplicate, sample LPX-DU-062101-A; sample LPX-AE-4005-0000-01 and its field duplicate, sample LPX-DU-062101-B; sample LPX-LB-4004-0000-01F and its field duplicate, sample LPX-DU-062101-0000-CF; sample LPX-LB-4004-0000-01O and its field duplicate, sample LPX-DU-062101-0000-CO; sample LPX-LB-4008-0000-01F and its field duplicate sample LPX-DU-062101-0000-DF; sample LPX-LB-4008-0000-01O and its field duplicate sample LPX-DU-062101-0000-DO; and sample CMS-EW-4001-0000-01 and its field duplicate, sample CMS-DU-072001-A) were submitted to the laboratory with this data set. Acceptable precision and sample representativeness were demonstrated by the reported positive results in these field QC samples with the following exceptions. The detection limits for the following analytes in the samples listed below may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. In addition, any reported positive results for these analytes in the samples listed below should be considered estimated and have been flagged "J" (unless previously flagged "U") on the data tables. Large discrepancies (RPD>40% when both results were ≥5× the MDL or difference >2× the MDL when one or both results was <5× the MDL) were observed between the results for these analytes in the field duplicate analyses. A complete comparison of the field duplicate results is included in Section 3.

Analyte(s)	Samples With Qualified Detection Limits ("UJ") or Estimated Positive Results ("J")
methylmercury and lead	LPX-LB-4008-0000-01O and LPX-DU-062101-0000-DO
aluminum, copper, manganese, and zinc	LPX-LB-4008-0000-01F and LPX-DU-062101-0000-DF

- Based on standard project reporting requirements, all positive results reported with concentrations below the project-required quantitation limits have been flagged "J" (unless previously flagged "U") on the data tables.

① Not relavent to swallow data packages.

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Complete support documentation for this inorganic QA review is presented in Section 3 of this report. The cover sheet for this section is a checklist of all QA procedures required by the methods and examined in this data review.

B. Conclusions

Overall, the data quality is satisfactory. Based on this QA review, several inorganic results were qualified due to blank contamination, laboratory and field duplicate imprecision, low and high MS/MSD recoveries, MS/MSD imprecision, SRM imprecision, low and high blank spike recoveries, and results below the MDL. Overall, the data are acceptable for use, provided the data user understands the limitations and qualifications stated in this QA review. The Laboratory Case Narratives and Chain-of-Custody Records are presented in Sections 4 and 5, respectively.

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