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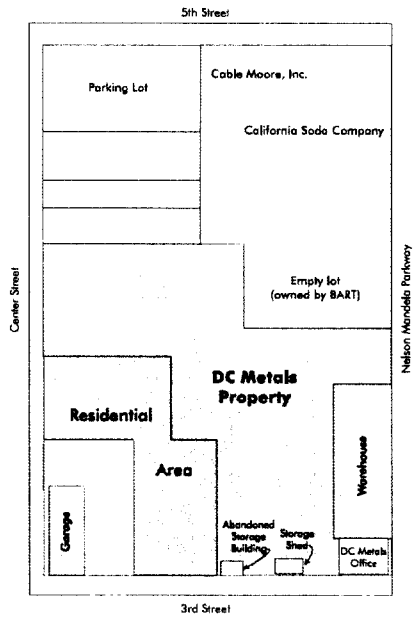
AMCO Chemical Site
(aka DC Metals)
Oakland, California



Preliminary Assessment/Site Investigation Report

Volume 4

Final
August 2001

Prepared For:

U.S. Environmental Protection Agency

EPA
REGION IX

Prepared By:

Ecology and Environment, Inc.

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

REGION 9
START

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Volume 4

Appendix D: Data Summaries

Soil and Groundwater (Borings) 4/24-26/00 - Volatile Organics Compounds

DATA SUMMARIES

Sample Marix:	Soil and Groundwater (Borings)
Analysis:	Volatile Organic Compounds by 8260B
Sample Date(s):	4/24-26/00
Laboratory:	Curtis and Tompkins, Ltd.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX
Laboratory: Curtis & Tompkins, LTD.	Lab Project Number: 145315
Sampling Dates: 04/26-28/00	Sample Matrix: Water
Analytical Method: *GC-MS (EPA 8260B)*	Data Reviewer: Mindy Song

REVIEW AND APPROVAL:

Data Reviewer: Mindy C. Song Date: 6/12/00

Technical QA Reviewer: _____ Date: _____

Project Manager: [illegible] Date: 6/15/00

SAMPLE IDENTIFICATION:

Sample No.	Sample I.D.	Laboratory I.D.
1	GW-113-20	145315-001
2	GW-113-25	145315-002
3	GW-113-30	145315-003
4	GW-113-35	145315-004
5	GW-113-40	145315-005
6	GW-11-4-00	145315-006
7	GW-114-20	145315-007
8	GW-114-25	145315-008
9	GW-114-30	145315-009
10	GW-114-35	145315-010
11	GW-114-40	145315-011
12	MW14-4-00	145315-012
13	MW13-4-00	145315-013
14	MW15-4-00	145315-014
15	MW16-4-00	145315-015
16	GW-116-20	145315-016
17	GW-116-30	145315-017
18	GW-116-34	145315-018
19	GW-115-30	145315-019
20		

Groundwater Monitoring Wells

Groundwater Monitoring Wells

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

DATA PACKAGE COMPLETENESS CHECKLIST:

Checklist Code:

- X Included: no problems
- * Included: problems noted in review
- O Not Included and/or Not Available
- NR Not Required
- RS Provided As Re-submission

Case Narrative:

- X Case Narrative present

Quality Control Summary Package:

- X Data Summary sheets
- X Matrix Spike/Spike Duplicate Recoveries
- X Laboratory Control Sample Recoveries
- X Method Blank Summaries
- X GC/MS Tuning and Mass Calibration
- X Initial Calibration Data
- X Continuing Calibration Data
- X Surrogate Compound Recovery Summary
- X Internal Standard Area Summary

Sample and Blank Data Package Section

- X Reconstructed Ion Current (RIC) Chromatogram
- X Quantitation Reports
- X Raw and Enhanced Mass Spectra
- X Reference Mass Spectra for Target Compounds
- X Mass Spectral Library Search for TICs

Raw QC Data Package Section

- X DFTPP and/or BFB mass spectra and mass listings
- X RIC Chromatogram for Standards, LCS, and MS/MSD
- X Quantitation Reports for Standards, LCS, and MS/MSD
- NR List of Instrument Detection Limits
- X Chain-of-Custody Records
- X Sample Preparation and Analysis Run Logs

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

DATA VALIDATION SUMMARY

The data were reviewed following procedures and limits specified in the EPA OSWER directive, *Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan and Data Validation Procedures* (EPA/540/G-90/004, OSWER Directive 9360.4-01, dated April 1990).

Indicate with a YES or NO whether each item is acceptable:

1	Holding Times	YES
2	GC/MS Tuning Criteria	YES
3	Initial Calibrations	YES
4	Continuing Calibrations	YES
5	Laboratory Control Sample	YES
6	Matrix Spike/Matrix Spike Duplicate	YES
7	Blanks and Background Samples	YES
8	Surrogate Compounds	YES
9	Internal Standards	YES
10	Duplicate Analyses	YES
11	Analyte Identification	YES
12	Analyte Quantitation	YES
13	Overall Assessment of Data	YES
14	Usability of Data	YES

Comments: Nineteen water samples were delivered to the laboratory for volatile organic compounds including MTBE by EPA 8260B on April 28, 2000.
The water samples were analyzed by two different instruments (MSVOA05 &MSVOA06) and fourteen samples were analyzed with dilution and reported due to high concentration of target analyte compounds.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

1. HOLDING TIMES

__X__ Acceptable
_____ Acceptable with qualification
_____ Unacceptable

Samples were extracted and analyzed within required holding times except as noted under Comments. In addition, no problems were identified with regard to sample preservation or custody unless specified. For those samples analyzed outside holding time requirements, the detected results have been qualified as estimated (J), and the nondetected results have been qualified either as estimated (UJ) or rejected (R) based on the reviewer's judgement.

Water Samples:
EPA 8260B: 14 days (from collection) for analysis.
EPA 8270C: 7 days (from collection) for extraction; 40 days (from extraction) for analysis.
Soil or Other Matrices:
EPA 8260B: 14 days (from collection) for analysis.
EPA 8270C:14 days (from collection) for extraction;40 days (from extraction) for analysis.

Comments: The water samples were analyzed 4 to 7 days from the time of collection.

2. GC/MS INSTRUMENT PERFORMANCE CRITERIA

__X__ **BFB (EPA 8260B) or DFTPP (EPA 8270C) has been run for every 12 hours of sample analysis per instrument.**

__X__ **The BFB or DFTPP ion abundance criteria indicated in EPA/540/G-90/004 have been met for each instrument.**

Comments: None.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

3. INITIAL CALIBRATIONS

__X__ **Acceptable**
_____ **Acceptable with qualification**
_____ **Unacceptable**

Unless flagged below, a 5-point initial calibration was run. In addition, average Relative Response Factor (RRF), and percent relative Standard Deviation (%RSD) values were within control limits (average RRF >= 0.05; %RSD <= 30). For analytes which exceeded the %RSD control limit, associated detected results are qualified as estimated (J). If the low calibration level was not detected, the nondetected results are qualified (UJ). For analytes which exceeded the RRF control limit, associated detected results are qualified as estimated (J) and the nondetected results are qualified as rejected (R).

Comments: The linear regression was used for Chloromethane, Chloroethane, Chloroform and Hexachlorobutadiene, Vinyl chloride and 1,2-Dibromo-3-chloropropane in ICAL from Instrument MSVOA05.

4. CONTINUING CALIBRATIONS

__X__ **Acceptable**
_____ **Acceptable with qualification**
_____ **Unacceptable**

Unless flagged below, continuing calibrations were performed at the beginning and at the end of any group of samples and at least every 12 hours. In addition, Percent Difference (%D) values were within the control limit (%D <= 25). For analytes which exceeded the %D control limit, associated detected results are qualified as estimated (J). In cases where the %D is very high and indicates a severe loss of instrument sensitivity, the associated nondetected results may be qualified as estimated (UJ) or rejected (R) based on the professional judgement of the reviewer.

Comments: Percent difference of 2-Hexanone and Cyclohexanone in CCVs (file ID: ee103 & EE112), MTBE and 4-Methyl-2-pentanone in CCV (file ID:ee204), Bromomethane and Cyclohexanone in CCV (file ID:fe302) and Bromomethane, Carbon disulfide, Cyclohexanone and Naphathalene in CCV (file ID:fe315) were outside of control limit. Naphthalene result was qualified as estimated for sample MW14-4-00.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

5. LABORATORY CONTROL SAMPLE

__X__ **Acceptable**
_____ **Acceptable with qualification**
_____ **Unacceptable**
_____ **No Laboratory Control Samples Analyzed**

Laboratory control sample recoveries are used for a qualitative indication of accuracy (bias) independent of matrix effects. Spike recovery limits of 80% to 120% are specified in EPA/540/G-90/004. For analytes which exceeded these control limits, associated detected results are qualified as estimated (J). At the discretion of the reviewer, other limits may be used only if justification can be provided.

Comments: All recoveries were within the control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

__X__ **Acceptable**
_____ **Acceptable with qualification**
_____ **Unacceptable**
_____ **No Matrix Spike/Matrix Spike Duplicates Analyzed**

Matrix spike and matrix spike duplicate recoveries are used for a qualitative indication of accuracy (bias) due to matrix effects. The RPD between the recoveries is used for a qualitative indication of precision. Spike recovery limits of 80% to 120% are specified in EPA/540/G-90/004. For analytes which exceeded these control limits, associated detected results are qualified as estimated (J). At the discretion of the reviewer, other limits may be used only if justification can be provided.

Comments: Sample GW-11-4-00 was used for matrix spike and matrix spike duplicate and all recoveries were within the control limit.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

7. BLANKS AND BACKGROUND SAMPLES

__X__ Acceptable
_____ Detection Limits Adjusted

The following blanks were analyzed:
__X__ Method (preparation) Blanks
_____ Field Blanks
_____ Instrument Blanks
_____ Rinsate Blanks
_____ Background Samples
_____ VOA Trip Blanks

Preparation (method) blanks were prepared for each batch of samples extracted. A preparation blank was analyzed after every continuing calibration standard, prior to sample analysis unless noted below. Any compound detected in the sample and also detected in any associated blank, must be qualified as non-detect (U) when the sample concentration is less than 5x the blank concentration.

Comments: No contamination was found in the method blank.

8. SURROGATE COMPOUNDS

__X__ Acceptable
_____ Acceptable with qualification
_____ Unacceptable

Surrogate compound recoveries for samples analyzed within a sample group must be within the limits specified in the method. If the surrogate recovery is between 10% and the lower limit, the associated detected results are qualified as estimated (J) and the nondetected results are qualified as estimated (UJ). If the surrogate recovery is <10%, the associated detected results are qualified as estimated (J) and the nondetected results are rejected (R). If the surrogate recovery is above the upper limit, the associated detected results are qualified as estimated (J). Surrogate recoveries which exceeded these limits are noted below and the associated results are qualified on the attached sample report forms.

Comments: All surrogate recoveries were within the control limits.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

9. INTERNAL STANDARDS

__X__ Acceptable
_____ Acceptable with qualification
_____ Unacceptable

Internal Standard area counts for samples analyzed within a sample group must be within the range of 50% to 200% of the internal standard area for the continuing calibration. If the internal standard area is between 10% and 50% of this value, the associated detected results are qualified as estimated (J) and the nondetected results are qualified as estimated (UJ). If the internal standard area is <10% of the calibration area, both the detected and nondetected results are rejected (R). If the internal standard area is >200% of the calibration area, the associated detected results are qualified as estimated (J). Internal standards which exceeded these limits are noted below and the associated results are qualified on the attached sample report forms.

Comment: None.

10. DUPLICATE ANALYSES

__X__ Acceptable
_____ Acceptable with qualification
_____ Unacceptable
_____ No Duplicates Analyzed

Type of duplicates analyzed:
_____ Field Duplicates
__X__ Laboratory Duplicates

Calculate the relative Percent Difference (RPD) between the members of duplicate pairs using the equation indicated below. Qualify the results as estimated (J) for any analyte whose RPD exceeds that specified in the Sampling and Analysis Plan.

$$RPD = \frac{2(\text{Value 1} - \text{Value 2})}{\text{Value 1} + \text{Value 2}} \times 100\%$$

Comments: RPD's of MS/MSD< 50%.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

11. ANALYTE IDENTIFICATION

Evaluate the ion profiles for the sample analytes and compare them to the library ion profiles provided by the laboratory. Note any identifications which are not sufficiently supported by comparison to known ion profiles.

Comments: Analyte identification is acceptable.

12. ANALYTE QUANTITATION

Confirm that analyte quantitation was performed correctly using the following formulas:

EPA 8260B, water samples:

$$\text{ug/L} = \frac{\text{(analyte area)(amount of internal standard, ng)}}{\text{(internal standard area)(RF)(volume of water purged, mL)}}$$

EPA 8260B, soil samples:

$$\text{ug/kg} = \frac{\text{(analyte area)(amount of internal standard, ng)}}{\text{(internal standard area)(RF)(weight of soil extracted, g)(fraction solids)}}$$

EPA 8270C, water samples:

$$\text{ug/L} = \frac{\text{(analyte area)(amount of internal standard, ng)(total volume of extract, uL)}}{\text{(internal standard area)(RF)(volume of sample extracted, mL)(injection volume, uL)}}$$

EPA 8270C, soil samples:

$$\text{ug/kg} = \frac{\text{(analyte area)(amount of internal standard, ng)(total volume of extract, uL)}}{\text{(internal standard area)(RF)(weight of sample extracted, g)(fraction solids)(injection volume, uL)}}$$

Comments: Analyte quantitation is acceptable.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

13. OVERALL ASSESSMENT OF DATA

On the basis of this review, the following determination has been made with regard to the overall data usability for the specified level.

__X__ **Acceptable**
_____ **Acceptable with Qualification**
_____ **Rejected**

Accepted data meet the minimum requirements for the following EPA data category:
_____ **ERS Screening**
_____ **Non-definitive with 10 % Conformation by Definitive Methodology**
_____ **Definitive, Comprehensive Statistical Error Determination was performed.**
__X__ **Definitive, Comprehensive Statistical Error Determination was not performed.**

Any qualifications to individual sample analysis results are detailed in the appropriate section above or appear under the comments section below. In cases where several QC criteria are out of specification, it may be appropriate to further qualify the data usability. The data reviewer must use professional judgment and express concerns and comments on the data validity for each specific data package.

Comments: Data as reported is valid.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

14. USABILITY OF DATA

A. These data are considered usable for the following the data use objectives stated in the *DC METALS SITE, OAKLAND, CALIFORNIA, FIELD SAMPLING PLAN AND QUALITY ASSURANCE PROJECT PLAN (SAP), AUGUST 1999.*

The following data use objectives were indicated in the *SAP:*

TO DETERMINE WHETHER AIR EXHAUST SYSTEMS SHOULD BE INSTALLED IN RESIDENTIAL CRAWLSPACES.

TO DETERMINE THE VOLUME OF SOIL THAT NEEDS TO BE ADDRESSED FOR REMOVAL AND/OR REMEDIATION.

TO PROVIDE INITIAL DATA NECESSARY TO BEGIN A HAZARD RANKING SYSTEM PACKAGE FOR THE SITE.

TO DETERMINE WHETHER FURTHER SITE CHARACTERIZATION IS NECESSARY.

THE DATA ARE USABLE FOR THE ABOVE OBJECTIVES.

B. These data meet quality objectives stated in the *SAP.*

AS INDICATED IN SECTION 3.5.2 OF THE SAP, THE INVESTIGATION WILL GENERATE DEFINITIVE DATA AND TABLE 3-2 OF THE SAP OUTLINES THE DATA QUALITY INDICATOR GOALS APPLICABLE TO THE DEFINITIVE DATA QUALITY LEVEL. THE DATA IN THIS PACKAGE MEET THESE REQUIREMENTS.

15. DOCUMENTATION OF LABORATORY CORRECTIVE

Problem: No problems requiring corrective action were found.

Resolution: Not required.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

APPENDIX A. ANNOTATED DATA SUMMARY SHEETS

Attached are copies of all data summary sheets, with data qualifiers indicated (hand-annotated), and a copy of the chains of custody for the samples.

When appropriate, the practical quantitation limits have been adjusted to reflect the qualifications noted during the data validation. Errors in the reporting of detected results will not usually be changed by hand. In these cases, the laboratory may be required to re-submit the affected data summary sheets and any associated portions of the data package.

The following data validation qualifiers may be used in this review. Their definitions are taken from the EPA OSWER directive, *Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan and Data Validation Procedures* (EPA/540/G-90/004, OSWER Directive 9360.4-01, dated April 1990).

J The associated numerical value is an estimated quantity because the reported concentrations were less than the required practical quantitation limits or because quality control criteria were not met.

R The sample results are rejected (analyte may or may not be present) due to gross deficiencies in quality control criteria. Any reported value is unusable. Resampling and/or reanalysis is necessary for verification.

U The material was analyzed for, but not detected. The associated numerical value is the sample practical quantitation limit or adjusted sample practical quantitation limit.

UJ The material was analyzed for, but not detected. The reported practical quantitation limit is estimated because quality control criteria were not met.

NJ Presumptive evidence of the presence of the material (tentatively identified compound) at an estimated quantity.

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-113-20	Batch#:	55553
Lab ID:	145315-001	Sampled:	04/26/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/03/00
Diln Fac:	2.500		

Analyte	Result	RL
Freon 12	ND	25,000
Chloromethane	ND	25,000
Vinyl Chloride	ND	25,000
Bromomethane	ND	25,000
Chloroethane	ND	25,000
Trichlorofluoromethane	ND	13,000
Acetone	ND	50,000
Freon 113	ND	13,000
1,1-Dichloroethene	ND	13,000
Methylene Chloride	ND	50,000
Carbon Disulfide	ND	13,000
MTBE	ND	13,000
trans-1,2-Dichloroethene	ND	13,000
Vinyl Acetate	ND	130,000
1,1-Dichloroethane	ND	13,000
2-Butanone	440,000	25,000
cis-1,2-Dichloroethene	19,000	13,000
2,2-Dichloropropane	ND	13,000
Chloroform	ND	13,000
Bromochloromethane	ND	25,000
1,1,1-Trichloroethane	ND	13,000
1,1-Dichloropropene	ND	13,000
Carbon Tetrachloride	ND	13,000
1,2-Dichloroethane	ND	13,000
Benzene	ND	13,000
Trichloroethene	ND	13,000
1,2-Dichloropropane	ND	13,000
Bromodichloromethane	ND	13,000
Dibromomethane	ND	13,000
4-Methyl-2-Pentanone	77,000	25,000
cis-1,3-Dichloropropene	ND	13,000
Toluene	12,000 J	13,000
trans-1,3-Dichloropropene	ND	13,000
1,1,2-Trichloroethane	ND	13,000
2-Hexanone	ND	25,000
1,3-Dichloropropane	ND	13,000
Tetrachloroethene	ND	13,000
Dibromochloromethane	ND	13,000
1,2-Dibromoethane	ND	13,000
Chlorobenzene	ND	13,000
1,1,1,2-Tetrachloroethane	ND	13,000
Ethylbenzene	ND	13,000
m,p-Xylenes	ND	13,000
o-Xylene	ND	13,000
Styrene	ND	13,000
Bromoform	ND	13,000
Isopropylbenzene	ND	13,000
1,1,2,2-Tetrachloroethane	ND	13,000
1,2,3-Trichloropropane	ND	13,000
Propylbenzene	ND	13,000
Bromobenzene	ND	13,000
1,3,5-Trimethylbenzene	ND	13,000
2-Chlorotoluene	ND	13,000
4-Chlorotoluene	ND	13,000

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-113-20	Batch#:	55553
Lab ID:	145315-001	Sampled:	04/26/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/03/00
Diln Fac:	2,500		

Analyte	Result	RL
tert-Butylbenzene	ND	13,000
1,2,4-Trimethylbenzene	ND	13,000
sec-Butylbenzene	ND	13,000
para-Isopropyl Toluene	ND	13,000
1,3-Dichlorobenzene	ND	13,000
1,4-Dichlorobenzene	ND	13,000
n-Butylbenzene	ND	13,000
1,2-Dichlorobenzene	ND	13,000
1,2-Dibromo-3-Chloropropane	ND	13,000
1,2,4-Trichlorobenzene	ND	13,000
Hexachlorobutadiene	ND	13,000
Naphthalene	ND	13,000
1,2,3-Trichlorobenzene	ND	13,000

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	108	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	102	80-115

6/12/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-113-25	Batch#:	55553
Lab ID:	145315-002	Sampled:	04/26/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/03/00
Diln Fac:	2,500		

Analyte	Result	RL
Freon 12	ND	25,000
Chloromethane	ND	25,000
Vinyl Chloride	ND	25,000
Bromomethane	ND	25,000
Chloroethane	ND	25,000
Trichlorofluoromethane	ND	13,000
Acetone	ND	50,000
Freon 113	ND	13,000
1,1-Dichloroethene	ND	13,000
Methylene Chloride	ND	50,000
Carbon Disulfide	ND	13,000
MTBE	ND	13,000
trans-1,2-Dichloroethene	ND	13,000
Vinyl Acetate	ND	130,000
1,1-Dichloroethane	ND	13,000
2-Butanone	410,000	25,000
cis-1,2-Dichloroethene	19,000	13,000
2,2-Dichloropropane	ND	13,000
Chloroform	ND	13,000
Bromochloromethane	ND	25,000
1,1,1-Trichloroethane	ND	13,000
1,1-Dichloropropene	ND	13,000
Carbon Tetrachloride	ND	13,000
1,2-Dichloroethane	ND	13,000
Benzene	ND	13,000
Trichloroethene	ND	13,000
1,2-Dichloropropane	ND	13,000
Bromodichloromethane	ND	13,000
Dibromomethane	ND	13,000
4-Methyl-2-Pentanone	75,000	25,000
cis-1,3-Dichloropropene	ND	13,000
Toluene	13,000	13,000
trans-1,3-Dichloropropene	ND	13,000
1,1,2-Trichloroethane	ND	13,000
2-Hexanone	ND	25,000
1,3-Dichloropropane	ND	13,000
Tetrachloroethene	ND	13,000

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-113-25	Batch#:	55553
Lab ID:	145315-002	Sampled:	04/26/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/03/00
Diln Fac:	2,500		

Analyte	Result	RL
Dibromochloromethane	ND	13,000
1,2-Dibromoethane	ND	13,000
Chlorobenzene	ND	13,000
1,1,1,2-Tetrachloroethane	ND	13,000
Ethylbenzene	ND	13,000
m,p-Xylenes	ND	13,000
o-Xylene	ND	13,000
Styrene	ND	13,000
Bromoform	ND	13,000
Isopropylbenzene	ND	13,000
1,1,2,2-Tetrachloroethane	ND	13,000
1,2,3-Trichloropropane	ND	13,000
Propylbenzene	ND	13,000
Bromobenzene	ND	13,000
1,3,5-Trimethylbenzene	ND	13,000
2-Chlorotoluene	ND	13,000
4-Chlorotoluene	ND	13,000
tert-Butylbenzene	ND	13,000
1,2,4-Trimethylbenzene	ND	13,000
sec-Butylbenzene	ND	13,000
para-Isopropyl Toluene	ND	13,000
1,3-Dichlorobenzene	ND	13,000
1,4-Dichlorobenzene	ND	13,000
n-Butylbenzene	ND	13,000
1,2-Dichlorobenzene	ND	13,000
1,2-Dibromo-3-Chloropropane	ND	13,000
1,2,4-Trichlorobenzene	ND	13,000
Hexachlorobutadiene	ND	13,000
Naphthalene	ND	13,000
1,2,3-Trichlorobenzene	ND	13,000

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	107	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	102	80-115

ND = Not Detected
RL = Reporting Limit

6/12/00

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-113-30	Batch#:	55553
Lab ID:	145315-003	Sampled:	04/26/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/03/00
Diln Fac:	1,667		

Analyte	Result	RL
Freon 12	ND	17,000
Chloromethane	ND	17,000
Vinyl Chloride	ND	17,000
Bromomethane	ND	17,000
Chloroethane	ND	17,000
Trichlorofluoromethane	ND	8,300
Acetone	ND	33,000
Freon 113	ND	8,300
1,1-Dichloroethene	ND	8,300
Methylene Chloride	ND	33,000
Carbon Disulfide	ND	8,300
MTBE	ND	8,300
trans-1,2-Dichloroethene	ND	8,300
Vinyl Acetate	ND	83,000
1,1-Dichloroethane	ND	8,300
2-Butanone	46,000	17,000
cis-1,2-Dichloroethene	ND	8,300
2,2-Dichloropropane	ND	8,300
Chloroform	ND	8,300
Bromochloromethane	ND	17,000
1,1,1-Trichloroethane	ND	8,300
1,1-Dichloropropene	ND	8,300
Carbon Tetrachloride	ND	8,300
1,2-Dichloroethane	ND	8,300
Benzene	ND	8,300
Trichloroethene	ND	8,300
1,2-Dichloropropane	ND	8,300
Bromodichloromethane	ND	8,300
Dibromomethane	ND	8,300
4-Methyl-2-Pentanone	ND	17,000
cis-1,3-Dichloropropene	ND	8,300
Toluene	ND	8,300
trans-1,3-Dichloropropene	ND	8,300
1,1,2-Trichloroethane	ND	8,300
2-Hexanone	ND	17,000
1,3-Dichloropropane	ND	8,300
Tetrachloroethene	ND	8,300

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-113-30	Batch#:	55553
Lab ID:	145315-003	Sampled:	04/26/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/03/00
Diln Fac:	1,667		

Analyte	Result	RL
Dibromochloromethane	ND	8,300
1,2-Dibromoethane	ND	8,300
Chlorobenzene	ND	8,300
1,1,1,2-Tetrachloroethane	ND	8,300
Ethylbenzene	ND	8,300
m,p-Xylenes	ND	8,300
o-Xylene	ND	8,300
Styrene	ND	8,300
Bromoform	ND	8,300
Isopropylbenzene	ND	8,300
1,1,2,2-Tetrachloroethane	ND	8,300
1,2,3-Trichloropropane	ND	8,300
Propylbenzene	ND	8,300
Bromobenzene	ND	8,300
1,3,5-Trimethylbenzene	ND	8,300
2-Chlorotoluene	ND	8,300
4-Chlorotoluene	ND	8,300
tert-Butylbenzene	ND	8,300
1,2,4-Trimethylbenzene	ND	8,300
sec-Butylbenzene	ND	8,300
para-Isopropyl Toluene	ND	8,300
1,3-Dichlorobenzene	ND	8,300
1,4-Dichlorobenzene	ND	8,300
n-Butylbenzene	ND	8,300
1,2-Dichlorobenzene	ND	8,300
1,2-Dibromo-3-Chloropropane	ND	8,300
1,2,4-Trichlorobenzene	ND	8,300
Hexachlorobutadiene	ND	8,300
Naphthalene	ND	8,300
1,2,3-Trichlorobenzene	ND	8,300

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	110	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	102	80-115

ND = Not Detected
RL = Reporting Limit

6/12/00

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-113-35	Batch#:	55553
Lab ID:	145315-004	Sampled:	04/26/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/03/00
Diln Fac:	333.3		

Analyte	Result	RL
Freon 12	ND	3,300
Chloromethane	ND	3,300
Vinyl Chloride	ND	3,300
Bromomethane	ND	3,300
Chloroethane	ND	3,300
Trichlorofluoromethane	ND	1,700
Acetone	ND	6,700
Freon 113	ND	1,700
1,1-Dichloroethene	ND	1,700
Methylene Chloride	ND	6,700
Carbon Disulfide	ND	1,700
MTBE	ND	1,700
trans-1,2-Dichloroethene	ND	1,700
Vinyl Acetate	ND	17,000
1,1-Dichloroethane	ND	1,700
2-Butanone	43,000	3,300
cis-1,2-Dichloroethene	2,400	1,700
2,2-Dichloropropane	ND	1,700
Chloroform	ND	1,700
Bromochloromethane	ND	3,300
1,1,1-Trichloroethane	ND	1,700
1,1-Dichloropropene	ND	1,700
Carbon Tetrachloride	ND	1,700
1,2-Dichloroethane	ND	1,700
Benzene	ND	1,700
Trichloroethene	2,000	1,700
1,2-Dichloropropane	ND	1,700
Bromodichloromethane	ND	1,700
Dibromomethane	ND	1,700
4-Methyl-2-Pentanone	8,100	3,300
cis-1,3-Dichloropropene	ND	1,700
Toluene	3,200	1,700
trans-1,3-Dichloropropene	ND	1,700
1,1,2-Trichloroethane	ND	1,700
2-Hexanone	ND	3,300
1,3-Dichloropropane	ND	1,700
Tetrachloroethene	ND	1,700

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-113-35	Batch#:	55553
Lab ID:	145315-004	Sampled:	04/26/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/03/00
Diln Fac:	333.3		

Analyte	Result	RL
Dibromochloromethane	ND	1,700
1,2-Dibromoethane	ND	1,700
Chlorobenzene	ND	1,700
1,1,1,2-Tetrachloroethane	ND	1,700
Ethylbenzene	ND	1,700
m,p-Xylenes	ND	1,700
o-Xylene	ND	1,700
Styrene	ND	1,700
Bromoform	ND	1,700
Isopropylbenzene	ND	1,700
1,1,2,2-Tetrachloroethane	ND	1,700
1,2,3-Trichloropropane	ND	1,700
Propylbenzene	ND	1,700
Bromobenzene	ND	1,700
1,3,5-Trimethylbenzene	ND	1,700
2-Chlorotoluene	ND	1,700
4-Chlorotoluene	ND	1,700
tert-Butylbenzene	ND	1,700
1,2,4-Trimethylbenzene	ND	1,700
sec-Butylbenzene	ND	1,700
para-Isopropyl Toluene	ND	1,700
1,3-Dichlorobenzene	ND	1,700
1,4-Dichlorobenzene	ND	1,700
n-Butylbenzene	ND	1,700
1,2-Dichlorobenzene	ND	1,700
1,2-Dibromo-3-Chloropropane	ND	1,700
1,2,4-Trichlorobenzene	ND	1,700
Hexachlorobutadiene	ND	1,700
Naphthalene	ND	1,700
1,2,3-Trichlorobenzene	ND	1,700

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	109	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	101	80-115

ND = Not Detected
RL = Reporting Limit

6/12/00

015

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-113-40	Batch#:	55482
Lab ID:	145315-005	Sampled:	04/26/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	100.0		

Analyte	Result	RL
Freon 12	ND	1,000
Chloromethane	ND	1,000
Vinyl Chloride	ND	1,000
Bromomethane	ND	1,000
Chloroethane	ND	1,000
Trichlorofluoromethane	ND	500
Acetone	ND	2,000
Freon 113	ND	500
1,1-Dichloroethene	4,100	500
Methylene Chloride	ND	2,000
Carbon Disulfide	ND	500
MTBE	ND	500
trans-1,2-Dichloroethene	ND	500
Vinyl Acetate	ND	5,000
1,1-Dichloroethane	360 J	500
2-Butanone	4,800	1,000
cis-1,2-Dichloroethene	420 J	500
2,2-Dichloropropane	ND	500
Chloroform	ND	500
Bromochloromethane	ND	1,000
1,1,1-Trichloroethane	15,000	500
1,1-Dichloropropene	ND	500
Carbon Tetrachloride	ND	500
1,2-Dichloroethane	ND	500
Benzene	ND	500
Trichloroethene	7,500	500
1,2-Dichloropropane	ND	500
Bromodichloromethane	ND	500
Dibromomethane	ND	500
4-Methyl-2-Pentanone	690 J	1,000
cis-1,3-Dichloropropene	ND	500
Toluene	720	500
trans-1,3-Dichloropropene	ND	500
1,1,2-Trichloroethane	ND	500
2-Hexanone	ND	1,000
1,3-Dichloropropane	ND	500
Tetrachloroethene	860	500
Dibromochloromethane	ND	500
1,2-Dibromoethane	ND	500
Chlorobenzene	ND	500
1,1,1,2-Tetrachloroethane	ND	500
Ethylbenzene	ND	500
m,p-Xylenes	ND	500
o-Xylene	ND	500
Styrene	ND	500
Bromoform	ND	500
Isopropylbenzene	ND	500
1,1,2,2-Tetrachloroethane	ND	500
1,2,3-Trichloropropane	ND	500
Propylbenzene	ND	500
Bromobenzene	ND	500
1,3,5-Trimethylbenzene	ND	500
2-Chlorotoluene	ND	500
4-Chlorotoluene	ND	500

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-113-40	Batch#:	55482
Lab ID:	145315-005	Sampled:	04/26/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	100.0		

Analyte	Result	RL
tert-Butylbenzene	ND	500
1,2,4-Trimethylbenzene	ND	500
sec-Butylbenzene	ND	500
para-Isopropyl Toluene	ND	500
1,3-Dichlorobenzene	ND	500
1,4-Dichlorobenzene	ND	500
n-Butylbenzene	ND	500
1,2-Dichlorobenzene	ND	500
1,2-Dibromo-3-Chloropropane	ND	500
1,2,4-Trichlorobenzene	ND	500
Hexachlorobutadiene	ND	500
Naphthalene	ND	500
1,2,3-Trichlorobenzene	ND	500

Surrogate	%REC	Limits
Dibromofluoromethane	118	80-122
1,2-Dichloroethane-d4	104	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	95	80-115

6/12/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-114-20	Batch#:	55482
Lab ID:	145315-007	Sampled:	04/27/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	2.500		

Analyte	Result	RL
Freon 12	ND	25
Chloromethane	ND	25
Vinyl Chloride	ND	25
Bromomethane	ND	25
Chloroethane	ND	25
Trichlorofluoromethane	ND	13
Acetone	ND	50
Freon 113	ND	13
1,1-Dichloroethene	ND	13
Methylene Chloride	ND	50
Carbon Disulfide	ND	13
MTBE	ND	13
trans-1,2-Dichloroethene	ND	13
Vinyl Acetate	ND	130
1,1-Dichloroethane	ND	13
2-Butanone	ND	25
cis-1,2-Dichloroethene	20	13
2,2-Dichloropropane	ND	13
Chloroform	ND	13
Bromochloromethane	ND	25
1,1,1-Trichloroethane	ND	13
1,1-Dichloropropene	ND	13
Carbon Tetrachloride	ND	13
1,2-Dichloroethane	ND	13
Benzene	ND	13
Trichloroethene	ND	13
1,2-Dichloropropane	ND	13
Bromodichloromethane	ND	13
Dibromomethane	ND	13
4-Methyl-2-Pentanone	ND	25
cis-1,3-Dichloropropene	ND	13
Toluene	ND	13
trans-1,3-Dichloropropene	ND	13
1,1,2-Trichloroethane	ND	13
2-Hexanone	ND	25
1,3-Dichloropropane	ND	13
Tetrachloroethene	ND	13
Dibromochloromethane	ND	13
1,2-Dibromoethane	ND	13
Chlorobenzene	270	13
1,1,1,2-Tetrachloroethane	ND	13
Ethylbenzene	ND	13
m,p-Xylenes	ND	13
o-Xylene	ND	13
Styrene	ND	13
Bromoform	ND	13
Isopropylbenzene	ND	13
1,1,2,2-Tetrachloroethane	ND	13
1,2,3-Trichloropropane	ND	13
Propylbenzene	ND	13
Bromobenzene	ND	13
1,3,5-Trimethylbenzene	ND	13
2-Chlorotoluene	ND	13
4-Chlorotoluene	ND	13

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-114-20	Batch#:	55482
Lab ID:	145315-007	Sampled:	04/27/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	2.500		

Analyte	Result	RL
tert-Butylbenzene	ND	13
1,2,4-Trimethylbenzene	ND	13
sec-Butylbenzene	ND	13
para-Isopropyl Toluene	ND	13
1,3-Dichlorobenzene	7.9 J	13
1,4-Dichlorobenzene	99	13
n-Butylbenzene	ND	13
1,2-Dichlorobenzene	220	13
1,2-Dibromo-3-Chloropropane	ND	13
1,2,4-Trichlorobenzene	ND	13
Hexachlorobutadiene	ND	13
Naphthalene	ND	13
1,2,3-Trichlorobenzene	ND	13

Surrogate	%REC	Limits
Dibromofluoromethane	120	80-122
1,2-Dichloroethane-d4	106	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	92	80-115

6/12/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-114-25	Batch#:	55482
Lab ID:	145315-008	Sampled:	04/27/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	3.333		

Analyte	Result	RL
Freon 12	ND	33
Chloromethane	ND	33
Vinyl Chloride	ND	33
Bromomethane	ND	33
Chloroethane	ND	33
Trichlorofluoromethane	ND	17
Acetone	ND	67
Freon 113	ND	17
1,1-Dichloroethene	ND	17
Methylene Chloride	ND	67
Carbon Disulfide	ND	17
MTBE	ND	17
trans-1,2-Dichloroethene	ND	17
Vinyl Acetate	ND	170
1,1-Dichloroethane	ND	17
2-Butanone	ND	33
cis-1,2-Dichloroethene	20	17
2,2-Dichloropropane	ND	17
Chloroform	ND	17
Bromochloromethane	ND	33
1,1,1-Trichloroethane	ND	17
1,1-Dichloropropene	ND	17
Carbon Tetrachloride	ND	17
1,2-Dichloroethane	ND	17
Benzene	ND	17
Trichloroethene	ND	17
1,2-Dichloropropane	ND	17
Bromodichloromethane	ND	17
Dibromomethane	ND	17
4-Methyl-2-Pentanone	ND	33
cis-1,3-Dichloropropene	ND	17
Toluene	8.8 J	17
trans-1,3-Dichloropropene	ND	17
1,1,2-Trichloroethane	ND	17
2-Hexanone	ND	33
1,3-Dichloropropane	ND	17
Tetrachloroethene	ND	17
Dibromochloromethane	ND	17
1,2-Dibromoethane	ND	17
Chlorobenzene	270	17
1,1,1,2-Tetrachloroethane	ND	17
Ethylbenzene	ND	17
m,p-Xylenes	ND	17
o-Xylene	ND	17
Styrene	ND	17
Bromoform	ND	17
Isopropylbenzene	ND	17
1,1,2,2-Tetrachloroethane	ND	17
1,2,3-Trichloropropane	ND	17
Propylbenzene	ND	17
Bromobenzene	ND	17
1,3,5-Trimethylbenzene	ND	17
2-Chlorotoluene	ND	17
4-Chlorotoluene	ND	17

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins Ltd

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-114-25	Batch#:	55482
Lab ID:	145315-008	Sampled:	04/27/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	3.333		

Analyte	Result	RL
tert-Butylbenzene	ND	17
1,2,4-Trimethylbenzene	ND	17
sec-Butylbenzene	ND	17
para-Isopropyl Toluene	ND	17
1,3-Dichlorobenzene	17 J	17
1,4-Dichlorobenzene	150	17
n-Butylbenzene	ND	17
1,2-Dichlorobenzene	420	17
1,2-Dibromo-3-Chloropropane	ND	17
1,2,4-Trichlorobenzene	ND	17
Hexachlorobutadiene	ND	17
Naphthalene	ND	17
1,2,3-Trichlorobenzene	ND	17

Surrogate	%REC	Limits
Dibromofluoromethane	121	80-122
1,2-Dichloroethane-d4	107	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	94	80-115

6/12/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-114-30	Batch#:	55482
Lab ID:	145315-009	Sampled:	04/27/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	4.000		

Analyte	Result	RL
Freon 12	ND	40
Chloromethane	ND	40
Vinyl Chloride	ND	40
Bromomethane	ND	40
Chloroethane	ND	40
Trichlorofluoromethane	ND	20
Acetone	ND	80
Freon 113	ND	20
1,1-Dichloroethene	ND	20
Methylene Chloride	ND	80
Carbon Disulfide	ND	20
MTBE	ND	20
trans-1,2-Dichloroethene	ND	20
Vinyl Acetate	ND	200
1,1-Dichloroethane	ND	20
2-Butanone	ND	40
cis-1,2-Dichloroethene	18 J	20
2,2-Dichloropropane	ND	20
Chloroform	ND	20
Bromochloromethane	ND	40
1,1,1-Trichloroethane	ND	20
1,1-Dichloropropene	ND	20
Carbon Tetrachloride	ND	20
1,2-Dichloroethane	ND	20
Benzene	ND	20
Trichloroethene	ND	20
1,2-Dichloropropane	ND	20
Bromodichloromethane	ND	20
Dibromomethane	ND	20
4-Methyl-2-Pentanone	ND	40
cis-1,3-Dichloropropene	ND	20
Toluene	12 J	20
trans-1,3-Dichloropropene	ND	20
1,1,2-Trichloroethane	ND	20
2-Hexanone	ND	40
1,3-Dichloropropane	ND	20
Tetrachloroethene	ND	20
Dibromochloromethane	ND	20
1,2-Dibromoethane	ND	20
Chlorobenzene	220	20
1,1,1,2-Tetrachloroethane	ND	20
Ethylbenzene	ND	20
m,p-Xylenes	ND	20
o-Xylene	ND	20
Styrene	ND	20
Bromoform	ND	20
Isopropylbenzene	ND	20
1,1,2,2-Tetrachloroethane	ND	20
1,2,3-Trichloropropane	ND	20
Propylbenzene	ND	20
Bromobenzene	ND	20
1,3,5-Trimethylbenzene	ND	20
2-Chlorotoluene	ND	20
4-Chlorotoluene	ND	20

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-114-30	Batch#:	55482
Lab ID:	145315-009	Sampled:	04/27/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	4.000		

Analyte	Result	RL
tert-Butylbenzene	ND	20
1,2,4-Trimethylbenzene	ND	20
sec-Butylbenzene	ND	20
para-Isopropyl Toluene	ND	20
1,3-Dichlorobenzene	20	20
1,4-Dichlorobenzene	160	20
n-Butylbenzene	ND	20
1,2-Dichlorobenzene	530	20
1,2-Dibromo-3-Chloropropane	ND	20
1,2,4-Trichlorobenzene	ND	20
Hexachlorobutadiene	ND	20
Naphthalene	11 J	20
1,2,3-Trichlorobenzene	ND	20

Surrogate	%REC	Limits
Dibromofluoromethane	120	80-122
1,2-Dichloroethane-d4	106	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	93	80-115

6/12/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-114-35	Batch#:	55482
Lab ID:	145315-010	Sampled:	04/27/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/02/00
Diln Fac:	1.429		

Analyte	Result	RL
Freon 12	ND	14
Chloromethane	ND	14
Vinyl Chloride	ND	14
Bromomethane	ND	14
Chloroethane	ND	14
Trichlorofluoromethane	ND	7.1
Acetone	ND	29
Freon 113	ND	7.1
1,1-Dichloroethene	ND	7.1
Methylene Chloride	ND	29
Carbon Disulfide	ND	7.1
MTBE	ND	7.1
trans-1,2-Dichloroethene	ND	7.1
Vinyl Acetate	ND	71
1,1-Dichloroethane	ND	7.1
2-Butanone	ND	14
cis-1,2-Dichloroethene	4.1 J	7.1
2,2-Dichloropropane	ND	7.1
Chloroform	ND	7.1
Bromochloromethane	ND	14
1,1,1-Trichloroethane	ND	7.1
1,1-Dichloropropene	ND	7.1
Carbon Tetrachloride	ND	7.1
1,2-Dichloroethane	ND	7.1
Benzene	ND	7.1
Trichloroethene	ND	7.1
1,2-Dichloropropane	ND	7.1
Bromodichloromethane	ND	7.1
Dibromomethane	ND	7.1
4-Methyl-2-Pentanone	ND	14
cis-1,3-Dichloropropene	ND	7.1
Toluene	3.9 J	7.1
trans-1,3-Dichloropropene	ND	7.1
1,1,2-Trichloroethane	ND	7.1
2-Hexanone	ND	14
1,3-Dichloropropane	ND	7.1
Tetrachloroethene	ND	7.1
Dibromochloromethane	ND	7.1
1,2-Dibromoethane	ND	7.1
Chlorobenzene	47	7.1
1,1,1,2-Tetrachloroethane	ND	7.1
Ethylbenzene	ND	7.1
m,p-Xylenes	ND	7.1
o-Xylene	ND	7.1
Styrene	ND	7.1
Bromoform	ND	7.1
Isopropylbenzene	ND	7.1
1,1,2,2-Tetrachloroethane	ND	7.1
1,2,3-Trichloropropane	ND	7.1
Propylbenzene	ND	7.1
Bromobenzene	ND	7.1
1,3,5-Trimethylbenzene	ND	7.1
2-Chlorotoluene	ND	7.1
4-Chlorotoluene	ND	7.1

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-114-35	Batch#:	55482
Lab ID:	145315-010	Sampled:	04/27/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/02/00
Diln Fac:	1.429		

Analyte	Result	RL
tert-Butylbenzene	ND	7.1
1,2,4-Trimethylbenzene	ND	7.1
sec-Butylbenzene	ND	7.1
para-Isopropyl Toluene	ND	7.1
1,3-Dichlorobenzene	7.1 J	7.1
1,4-Dichlorobenzene	49	7.1
n-Butylbenzene	ND	7.1
1,2-Dichlorobenzene	190	7.1
1,2-Dibromo-3-Chloropropane	ND	7.1
1,2,4-Trichlorobenzene	ND	7.1
Hexachlorobutadiene	ND	7.1
Naphthalene	4.9 J	7.1
1,2,3-Trichlorobenzene	ND	7.1

Surrogate	%REC	Limits
Dibromofluoromethane	121	80-122
1,2-Dichloroethane-d4	106	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	93	80-115

6/12/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-114-40	Batch#:	55482
Lab ID:	145315-011	Sampled:	04/27/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/02/00
Diln Fac:	16.67		

Analyte	Result	RL
Freon 12	ND	170
Chloromethane	ND	170
Vinyl Chloride	ND	170
Bromomethane	ND	170
Chloroethane	ND	170
Trichlorofluoromethane	ND	83
Acetone	ND	330
Freon 113	ND	83
1,1-Dichloroethene	ND	83
Methylene Chloride	ND	330
Carbon Disulfide	ND	83
MTBE	ND	83
trans-1,2-Dichloroethene	ND	83
Vinyl Acetate	ND	830
1,1-Dichloroethane	ND	83
2-Butanone	ND	170
cis-1,2-Dichloroethene	ND	83
2,2-Dichloropropane	ND	83
Chloroform	ND	83
Bromochloromethane	ND	170
1,1,1-Trichloroethane	ND	83
1,1-Dichloropropene	ND	83
Carbon Tetrachloride	ND	83
1,2-Dichloroethane	ND	83
Benzene	ND	83
Trichloroethene	ND	83
1,2-Dichloropropane	ND	83
Bromodichloromethane	ND	83
Dibromomethane	ND	83
4-Methyl-2-Pentanone	ND	170
cis-1,3-Dichloropropene	ND	83
Toluene	60 J	83
trans-1,3-Dichloropropene	ND	83
1,1,2-Trichloroethane	ND	83
2-Hexanone	ND	170
1,3-Dichloropropane	ND	83
Tetrachloroethene	ND	83
Dibromochloromethane	ND	83
1,2-Dibromoethane	ND	83
Chlorobenzene	75 J	83
1,1,1,2-Tetrachloroethane	ND	83
Ethylbenzene	ND	83
m,p-Xylenes	ND	83
o-Xylene	ND	83
Styrene	ND	83
Bromoform	ND	83
Isopropylbenzene	ND	83
1,1,2,2-Tetrachloroethane	ND	83
1,2,3-Trichloropropane	ND	83
Propylbenzene	ND	83
Bromobenzene	ND	83
1,3,5-Trimethylbenzene	ND	83
2-Chlorotoluene	ND	83
4-Chlorotoluene	ND	83

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-114-40	Batch#:	55482
Lab ID:	145315-011	Sampled:	04/27/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/02/00
Diln Fac:	16.67		

Analyte	Result	RL
tert-Butylbenzene	ND	83
1,2,4-Trimethylbenzene	ND	83
sec-Butylbenzene	ND	83
para-Isopropyl Toluene	ND	83
1,3-Dichlorobenzene	72 J	83
1,4-Dichlorobenzene	450	83
n-Butylbenzene	ND	83
1,2-Dichlorobenzene	2,100	83
1,2-Dibromo-3-Chloropropane	ND	83
1,2,4-Trichlorobenzene	ND	83
Hexachlorobutadiene	ND	83
Naphthalene	47 J	83
1,2,3-Trichlorobenzene	ND	83

Surrogate	%REC	Limits
Dibromofluoromethane	122	80-122
1,2-Dichloroethane-d4	105	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	93	80-115

6/12/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-116-20	Batch#:	55482
Lab ID:	145315-016	Sampled:	04/28/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-116-20	Batch#:	55482
Lab ID:	145315-016	Sampled:	04/28/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	118	80-122
1,2-Dichloroethane-d4	102	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	94	80-115

6/12/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-116-30	Batch#:	55514
Lab ID:	145315-017	Sampled:	04/28/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/02/00
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-116-30	Batch#:	55514
Lab ID:	145315-017	Sampled:	04/28/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/02/00
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	122	80-122
1,2-Dichloroethane-d4	106	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	90	80-115

ND = Not Detected
RL = Reporting Limit

6/12/00

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-116-34	Batch#:	55514
Lab ID:	145315-018	Sampled:	04/28/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/02/00
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	11	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	88	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	150	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	69	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	100	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-116-34	Batch#:	55514
Lab ID:	145315-018	Sampled:	04/28/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/02/00
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	117	80-122
1,2-Dichloroethane-d4	106	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	92	80-115

ND = Not Detected
RL = Reporting Limit

6/12/00

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-115-30	Batch#:	55514
Lab ID:	145315-019	Sampled:	04/28/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/02/00
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-115-30	Batch#:	55514
Lab ID:	145315-019	Sampled:	04/28/00
Matrix:	Water	Received:	04/28/00
Units:	ug/L	Analyzed:	05/02/00
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	121	80-122
1,2-Dichloroethane-d4	106	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	92	80-115

ND = Not Detected
RL = Reporting Limit

6/12/00

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114266	Batch#:	55482
Matrix:	Water	Analyzed:	05/01/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114266	Batch#:	55482
Matrix:	Water	Analyzed:	05/01/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-122
1,2-Dichloroethane-d4	99	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	93	80-115

6/12/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114267	Batch#:	55482
Matrix:	Water	Analyzed:	05/01/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114267	Batch#:	55482
Matrix:	Water	Analyzed:	05/01/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	117	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	96	80-115

6/12/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114388	Batch#:	55514
Matrix:	Water	Analyzed:	05/02/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114388	Batch#:	55514
Matrix:	Water	Analyzed:	05/02/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	119	80-122
1,2-Dichloroethane-d4	103	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	91	80-115

6/12/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114389	Batch#:	55514
Matrix:	Water	Analyzed:	05/02/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114389	Batch#:	55514
Matrix:	Water	Analyzed:	05/02/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	122	80-122
1,2-Dichloroethane-d4	105	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	94	80-115

6/12/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114531	Batch#:	55553
Matrix:	Water	Analyzed:	05/03/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114531	Batch#:	55553
Matrix:	Water	Analyzed:	05/03/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-122
1,2-Dichloroethane-d4	107	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	99	80-115

6/12/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114532	Batch#:	55553
Matrix:	Water	Analyzed:	05/03/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145315	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114532	Batch#:	55553
Matrix:	Water	Analyzed:	05/03/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	108	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	102	80-115

6/12/00

ND = Not Detected
RL = Reporting Limit

Office of Enforcement

145315

CHAIN OF CUSTODY RECORD

San Francisco, California 94105

PROJ NO.: 6256DCSTXX

PROJECT NAME: DC Metals

SAMPLERS: (Signature) W. Duncan, C. LeCompte, C. McLeod

Standard turnaround.
FAX summaries to: C. McLeod 415 981 0801
Mail data packages to: C. McLeod, Ecology & Environ. 350 Sansome St, Suite 300 San Francisco, CA 94104

	STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	8260B (VOCs + MTBE)	8270	6010 (CAM Metals)	MS/MSD		REMARKS
1	D	4/26/00	1630		✓	GW-113-20	2 x VOA	✓					High concentration samples. Dilutions will be required to meet project RL for SOW's for volatiles.
2			1645		✓	GW-113-25	"	✓					
3			1725		✓	GW-113-30	"	✓					
4			1750		✓	GW-113-35	"	✓					
5			1815		✓	GW-113-40	"	✓					
6		4/27/00	1145		✓	GW11-4-00	4 x VOA	✓			✓		
			1145		✓	GW11-4-00	1 x 1L		✓		✓		can't do MS/MSD on 1 liter! JM 4/28/00
			1145		✓	GW11-4-00	1 x 1L			✓	✓		
			~~1145~~										
7	Q	4/27/00	1515		✓	GW-114-20	3 x VOA	✓			✓		Expected medium concentration samples. Dilutions may be required to meet Project Det. limits in SOW.
8			1530		✓	GW-114-25	3 x VOA	✓			✓		
9			1600		✓	GW-114-30	2 x VOA	✓					
10			1625		✓	GW-114-35	2 x VOA	✓					
11			1715		✓	GW-114-40	2 x VOA	✓					

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
CMcLeod	4/28/00 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
			4/28/00 1700	TEMP. RECEIVED: 3.5, 4.0 °C RECEIVED BY:	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

9 243A

Office of Enforcement

CHAIN OF CUSTODY RECORD

San Francisco, California 94105

PROJ. NO.	PROJECT NAME
0256DCSTXX	DC Metals

SAMPLERS: (Signature)

labels read GW14-4-00 on 4/28/00

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	8260B (VOCs + MTBE)	8270	6010 (CAM Metals)	MS/MSD		
2	4/27/00	1600		✓	MW14-4-00	3×VOA	✓					
		"		✓	MW14-4-00	1×1L		✓				
		"		✓	MW14-4-00	1×1L			✓			
3		1710		✓	MW13-4-00	3×VOA	✓					
		"		✓	MW13-4-00 – labels read GW13-4-00 on 4/28/00	1×1L		✓				
		"		✓	MW13-4-00	1×1L			✓			
4		"		✓	MW15-4-00	3×VOA	✓					
		"		✓	MW15-4-00 – labels read GW14-4-00 on 4/28/00	1×1L		✓				
		"		✓	MW15-4-00	1×1L			✓			
5		1745		✓	MW16-4-00	3×VOA	✓					

labels read GW16-4-00 on 4/28/00

REMARKS

Standard turnaround.
FAX summaries to: C. McLeod 415 981 0801
Mail data packages to: C. McLeod, Ecology & Env. 350 Sansome St. Suite 300 San Francisco, CA 94104

Very high concentration of VOCs. Samples will require dilutions to meet detection limits for project.

Expected high concentration of VOCs. Samples may require dilutions to meet Detection Limits for Project. (See SOW).

0005

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
C McLeod	4/28/00 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
			4/28/00 1700	TEMP. RECEIVED: 35, 4.0 °C RECEIVED BY:	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

9 24343

Office of Enforcement

145 25

CHAIN OF CUSTODY RECORD

San Francisco, California 94105

0006

PROJ NO.	PROJECT NAME
0256DCSTXX	DC Metals

SAMPLERS (Signature): C. LeCompte, C. McLeod

STA NO.	DATE	TIME	COMP	GRAB	STATION LOCATION		NO. OF CONTAINERS	8260B (VOCs + MTBE)	MS/MSD	REMARKS
Downgr	4/28/00	0925		✓	GW-116-20	16	2xVOA	✓		Low Concentration samples.
	"	1015		✓	GW-116-30	17	"	✓		
	"	1120		✓	GW-116-34	18	"	✓		
Upgrad	4/28/00	1500		✓	GW-115-30	16	3xVOA	✓	✓	

Standard turn around.

FAX summaries to:
C. McLeod (415) 981-0801

Mail data to:
C. McLeod, Ecology & Environment
350 Sansome St. Suite 300
San Francisco, CA 94104

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
C. McLeod	4/28/00 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
			4/28/00 1700	TEMP. RECEIVED: 3.5, 4.0 °C RECEIVED BY:	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX
Laboratory: Curtis & Tompkins, LTD.	Lab Project Number: 145357
Sampling Dates: 04/26-28/00	Sample Matrix: Soil
Analytical Method: *GC-MS (EPA 8260B)*	Data Reviewer: Mindy Song

REVIEW AND APPROVAL:

Data Reviewer: Mindy C. Song Date: 6/13/00

Technical QA Reviewer: _____ Date: _____

Project Manager: _____ Date: 6/15/00

SAMPLE IDENTIFICATION:

Sample No.	Sample I.D.	Laboratory I.D.
1	S-113-20	145357-001
2	S-113-25	145357-002
3	S-113-30	145357-003
4	S-113-35	145357-004
5	S-113-40	145357-005
6	S-113-43	145357-006
7	S-114-5	145357-007
8	S-114-10	145357-008
9	S-114-15	145357-009
10	S-114-20	145357-010
11	S-114-25	145357-011
12	S-114-30	145357-012
13	S-114-35	145357-013
14	S-114-40	145357-014
15	S-114-45	145357-015
16	S-116-5	145357-016
17	S-116-10	145357-017
18	S-116-20	145357-018
19	S-116-30	145357-019
20	S-116-34	145357-020

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

DATA PACKAGE COMPLETENESS CHECKLIST:

Checklist Code:

- X Included: no problems
- * Included: problems noted in review
- O Not Included and/or Not Available
- NR Not Required
- RS Provided As Re-submission

Case Narrative:

- X Case Narrative present

Quality Control Summary Package:

- X Data Summary sheets
- X Matrix Spike/Spike Duplicate Recoveries
- X Laboratory Control Sample Recoveries
- X Method Blank Summaries
- X GC/MS Tuning and Mass Calibration
- X Initial Calibration Data
- X Continuing Calibration Data
- X Surrogate Compound Recovery Summary
- X Internal Standard Area Summary

Sample and Blank Data Package Section

- X Reconstructed Ion Current (RIC) Chromatogram
- X Quantitation Reports
- X Raw and Enhanced Mass Spectra
- X Reference Mass Spectra for Target Compounds
- X Mass Spectral Library Search for TICs

Raw QC Data Package Section

- X DFTPP and/or BFB mass spectra and mass listings
- X RIC Chromatogram for Standards, LCS, and MS/MSD
- X Quantitation Reports for Standards, LCS, and MS/MSD
- NR List of Instrument Detection Limits
- X Chain-of-Custody Records
- X Sample Preparation and Analysis Run Logs

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

1. HOLDING TIMES

__X__ Acceptable
_____ Acceptable with qualification
_____ Unacceptable

Samples were extracted and analyzed within required holding times except as noted under Comments. In addition, no problems were identified with regard to sample preservation or custody unless specified. For those samples analyzed outside holding time requirements, the detected results have been qualified as estimated (J), and the nondetected results have been qualified either as estimated (UJ) or rejected (R) based on the reviewer's judgement.

Water Samples:
EPA 8260B: 14 days (from collection) for analysis.
EPA 8270C: 7 days (from collection) for extraction; 40 days (from extraction) for analysis.
Soil or Other Matrices:
EPA 8260B: 14 days (from collection) for analysis.
EPA 8270C:14 days (from collection) for extraction;40 days (from extraction) for analysis.

Comments: The soil samples were analyzed 8 to 14 days from the time of collection.

2. GC/MS INSTRUMENT PERFORMANCE CRITERIA

__X__ BFB (EPA 8260B) or DFTPP (EPA 8270C) has been run for every 12 hours of sample analysis per instrument.

__X__ The BFB or DFTPP ion abundance criteria indicated in EPA/540/G-90/004 have been met for each instrument.

Comments: None.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

5. LABORATORY CONTROL SAMPLE

__X__ **Acceptable**
_____ **Acceptable with qualification**
_____ **Unacceptable**
_____ **No Laboratory Control Samples Analyzed**

Laboratory control sample recoveries are used for a qualitative indication of accuracy (bias) independent of matrix effects. Spike recovery limits of 80% to 120% are specified in EPA/540/G-90/004. For analytes which exceeded these control limits, associated detected results are qualified as estimated (J). At the discretion of the reviewer, other limits may be used only if justification can be provided.

Comments: All recoveries were within the control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

__X__ **Acceptable**
_____ **Acceptable with qualification**
_____ **Unacceptable**
_____ **No Matrix Spike/Matrix Spike Duplicates Analyzed**

Matrix spike and matrix spike duplicate recoveries are used for a qualitative indication of accuracy (bias) due to matrix effects. The RPD between the recoveries is used for a qualitative indication of precision. Spike recovery limits of 80% to 120% are specified in EPA/540/G-90/004. For analytes which exceeded these control limits, associated detected results are qualified as estimated (J). At the discretion of the reviewer, other limits may be used only if justification can be provided.

Comments: Sample S-114-10, S-114-15, S-114-25 and S-115-10 were used for matrix spike and matrix spike duplicate and all recoveries were within the control limit (70-130%) except recovery of toluene and chlorobenzene in S-115-10-MS and chlorobenzene in S-115-10-MSD. Matrix interferences are indicated based on the blank spike recoveries.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

9. INTERNAL STANDARDS

__X__ Acceptable
_____ Acceptable with qualification
_____ Unacceptable

Internal Standard area counts for samples analyzed within a sample group must be within the range of 50% to 200% of the internal standard area for the continuing calibration. If the internal standard area is between 10% and 50% of this value, the associated detected results are qualified as estimated (J) and the nondetected results are qualified as estimated (UJ). If the internal standard area is <10% of the calibration area, both the detected and nondetected results are rejected (R). If the internal standard area is >200% of the calibration area, the associated detected results are qualified as estimated (J). Internal standards which exceeded these limits are noted below and the associated results are qualified on the attached sample report forms.

Comment: None.

10. DUPLICATE ANALYSES

__X__ Acceptable
_____ Acceptable with qualification
_____ Unacceptable
_____ No Duplicates Analyzed

Type of duplicates analyzed:
_____ Field Duplicates
__X__ Laboratory Duplicates

Calculate the relative Percent Difference (RPD) between the members of duplicate pairs using the equation indicated below. Qualify the results as estimated (J) for any analyte whose RPD exceeds that specified in the Sampling and Analysis Plan.

$$RPD = \frac{2(\text{Value 1} - \text{Value 2})}{\text{Value 1} + \text{Value 2}} \times 100\%$$

Comments: RPD's of MS/MSD< 50%.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

13. OVERALL ASSESSMENT OF DATA

On the basis of this review, the following determination has been made with regard to the overall data usability for the specified level.

__X__ **Acceptable**
_____ **Acceptable with Qualification**
_____ **Rejected**

Accepted data meet the minimum requirements for the following EPA data category:
_____ **ERS Screening**
_____ **Non-definitive with 10 % Conformation by Definitive Methodology**
_____ **Definitive, Comprehensive Statistical Error Determination was performed.**
__X__ **Definitive, Comprehensive Statistical Error Determination was not performed.**

Any qualifications to individual sample analysis results are detailed in the appropriate section above or appear under the comments section below. In cases where several QC criteria are out of specification, it may be appropriate to further qualify the data usability. The data reviewer must use professional judgment and express concerns and comments on the data validity for each specific data package.

Comments: Data as reported is valid.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

APPENDIX A. ANNOTATED DATA SUMMARY SHEETS

Attached are copies of all data summary sheets, with data qualifiers indicated (hand-annotated), and a copy of the chains of custody for the samples.

When appropriate, the practical quantitation limits have been adjusted to reflect the qualifications noted during the data validation. Errors in the reporting of detected results will not usually be changed by hand. In these cases, the laboratory may be required to re-submit the affected data summary sheets and any associated portions of the data package.

The following data validation qualifiers may be used in this review. Their definitions are taken from the EPA OSWER directive, *Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan and Data Validation Procedures* (EPA/540/G-90/004, OSWER Directive 9360.4-01, dated April 1990).

J The associated numerical value is an estimated quantity because the reported concentrations were less than the required practical quantitation limits or because quality control criteria were not met.

R The sample results are rejected (analyte may or may not be present) due to gross deficiencies in quality control criteria. Any reported value is unusable. Resampling and/or reanalysis is necessary for verification.

U The material was analyzed for, but not detected. The associated numerical value is the sample practical quantitation limit or adjusted sample practical quantitation limit.

UJ The material was analyzed for, but not detected. The reported practical quantitation limit is estimated because quality control criteria were not met.

NJ Presumptive evidence of the presence of the material (tentatively identified compound) at an estimated quantity.

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-20	Diln Fac:	4.167
Lab ID:	145357-001	Batch#:	55673
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/08/00

Analyte	Result	RL
2-Chlorotoluene	ND	23
4-Chlorotoluene	ND	23
tert-Butylbenzene	ND	23
1,2,4-Trimethylbenzene	ND	23
sec-Butylbenzene	ND	23
para-Isopropyl Toluene	ND	23
1,3-Dichlorobenzene	ND	23
1,4-Dichlorobenzene	ND	23
n-Butylbenzene	ND	23
1,2-Dichlorobenzene	ND	23
1,2-Dibromo-3-Chloropropane	ND	23
1,2,4-Trichlorobenzene	ND	23
Hexachlorobutadiene	ND	23
Naphthalene	ND	23
1,2,3-Trichlorobenzene	ND	23

Surrogate	%REC	Limits
Dibromofluoromethane	101	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	104	77-126

6/14/00
13 (MS)

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-25	Basis:	dry
Lab ID:	145357-002	Sampled:	04/26/00
Matrix:	Soil	Received:	04/28/00
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
4-Chlorotoluene	ND	6.0	1.000	55624	05/06/00
tert-Butylbenzene	ND	6.0	1.000	55624	05/06/00
1,2,4-Trimethylbenzene	38	23	3.846	55673	05/08/00
sec-Butylbenzene	55	6.0	1.000	55624	05/06/00
para-Isopropyl Toluene	80	6.0	1.000	55624	05/06/00
1,3-Dichlorobenzene	ND	6.0	1.000	55624	05/06/00
1,4-Dichlorobenzene	ND	6.0	1.000	55624	05/06/00
n-Butylbenzene	120	6.0	1.000	55624	05/06/00
1,2-Dichlorobenzene	30	6.0	1.000	55624	05/06/00
1,2-Dibromo-3-Chloropropane	ND	6.0	1.000	55624	05/06/00
1,2,4-Trichlorobenzene	ND	6.0	1.000	55624	05/06/00
Hexachlorobutadiene	ND	6.0	1.000	55624	05/06/00
Naphthalene	70	6.0	1.000	55624	05/06/00
1,2,3-Trichlorobenzene	ND	6.0	1.000	55624	05/06/00

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	103	63-133	1.000	55624	05/06/00
1,2-Dichloroethane-d4	105	76-127	1.000	55624	05/06/00
Toluene-d8	97	80-111	1.000	55624	05/06/00
Bromofluorobenzene	130 *	77-126	1.000	55624	05/06/00

6/13/00

* = Value outside of QC limits; see narrative
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-30	Basis:	dry
Lab ID:	145357-003	Sampled:	04/26/00
Matrix:	Soil	Received:	04/28/00
Units:	ug/Kg	Analyzed:	05/10/00

Analyte	Result	RL	Diln Fac	Batch#
Tetrachloroethene	ND	5.7	0.9615	55706
Dibromochloromethane	ND	5.7	0.9615	55706
1,2-Dibromoethane	ND	5.7	0.9615	55706
Chlorobenzene	ND	5.7	0.9615	55706
1,1,1,2-Tetrachloroethane	ND	5.7	0.9615	55706
Ethylbenzene	ND	5.7	0.9615	55706
m,p-Xylenes	ND	5.7	0.9615	55706
o-Xylene	ND	5.7	0.9615	55706
Styrene	ND	5.7	0.9615	55706
Bromoform	ND	5.7	0.9615	55706
Isopropylbenzene	ND	5.7	0.9615	55706
1,1,2,2-Tetrachloroethane	ND	5.7	0.9615	55706
1,2,3-Trichloropropane	ND	5.7	0.9615	55706
Propylbenzene	ND	5.7	0.9615	55706
Bromobenzene	ND	5.7	0.9615	55706
1,3,5-Trimethylbenzene	ND	5.7	0.9615	55706
2-Chlorotoluene	ND	5.7	0.9615	55706
4-Chlorotoluene	ND	5.7	0.9615	55706
tert-Butylbenzene	ND	5.7	0.9615	55706
1,2,4-Trimethylbenzene	ND	5.7	0.9615	55706
sec-Butylbenzene	ND	5.7	0.9615	55706
para-Isopropyl Toluene	ND	5.7	0.9615	55706
1,3-Dichlorobenzene	ND	5.7	0.9615	55706
1,4-Dichlorobenzene	ND	5.7	0.9615	55706
n-Butylbenzene	ND	5.7	0.9615	55706
1,2-Dichlorobenzene	ND	5.7	0.9615	55706
1,2-Dibromo-3-Chloropropane	ND	5.7	0.9615	55706
1,2,4-Trichlorobenzene	ND	5.7	0.9615	55706
Hexachlorobutadiene	ND	5.7	0.9615	55706
Naphthalene	ND	5.7	0.9615	55706
1,2,3-Trichlorobenzene	ND	5.7	0.9615	55706

Surrogate	%REC	Limits	Diln Fac	Batch#
Dibromofluoromethane	99	63-133	0.9615	55706
1,2-Dichloroethane-d4	105	76-127	0.9615	55706
Toluene-d8	103	80-111	0.9615	55706
Bromofluorobenzene	102	77-126	0.9615	55706

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-35	Diln Fac:	0.9615
Lab ID:	145357-004	Batch#:	55624
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/06/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.5
4-Chlorotoluene	ND	5.5
tert-Butylbenzene	ND	5.5
1,2,4-Trimethylbenzene	ND	5.5
sec-Butylbenzene	ND	5.5
para-Isopropyl Toluene	ND	5.5
1,3-Dichlorobenzene	ND	5.5
1,4-Dichlorobenzene	ND	5.5
n-Butylbenzene	ND	5.5
1,2-Dichlorobenzene	ND	5.5
1,2-Dibromo-3-Chloropropane	ND	5.5
1,2,4-Trichlorobenzene	ND	5.5
Hexachlorobutadiene	ND	5.5
Naphthalene	ND	5.5
1,2,3-Trichlorobenzene	ND	5.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	103	80-111
Bromofluorobenzene	106	77-126

6/13/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-40	Diln Fac:	2.083
Lab ID:	145357-005	Batch#:	55673
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/09/00

Analyte	Result	RL
2-Chlorotoluene	ND	12
4-Chlorotoluene	ND	12
tert-Butylbenzene	ND	12
1,2,4-Trimethylbenzene	ND	12
sec-Butylbenzene	ND	12
para-Isopropyl Toluene	ND	12
1,3-Dichlorobenzene	ND	12
1,4-Dichlorobenzene	ND	12
n-Butylbenzene	ND	12
1,2-Dichlorobenzene	ND	12
1,2-Dibromo-3-Chloropropane	ND	12
1,2,4-Trichlorobenzene	ND	12
Hexachlorobutadiene	ND	12
Naphthalene	ND	12
1,2,3-Trichlorobenzene	ND	12

Surrogate	%REC	Limits
Dibromofluoromethane	102	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	102	77-126

6/13/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-43	Diln Fac:	2.000
Lab ID:	145357-006	Batch#:	55673
Matrix:	Soil	Sampled:	04/27/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/09/00

Analyte	Result	RL
4-Chlorotoluene	ND	12
tert-Butylbenzene	ND	12
1,2,4-Trimethylbenzene	ND	12
sec-Butylbenzene	ND	12
para-Isopropyl Toluene	ND	12
1,3-Dichlorobenzene	ND	12
1,4-Dichlorobenzene	ND	12
n-Butylbenzene	ND	12
1,2-Dichlorobenzene	ND	12
1,2-Dibromo-3-Chloropropane	ND	12
1,2,4-Trichlorobenzene	ND	12
Hexachlorobutadiene	ND	12
Naphthalene	ND	12
1,2,3-Trichlorobenzene	ND	12

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	103	80-111
Bromofluorobenzene	104	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-114-5	Diln Fac:	187.5
Lab ID:	145357-007	Batch#:	55702
Matrix:	Soil	Sampled:	04/27/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/09/00

Analyte	Result	RL
2-Chlorotoluene	ND	1,200
4-Chlorotoluene	ND	1,200
tert-Butylbenzene	ND	1,200
1,2,4-Trimethylbenzene	1,900	1,200
sec-Butylbenzene	ND	1,200
para-Isopropyl Toluene	920 J	1,200
1,3-Dichlorobenzene	2,500	1,200
1,4-Dichlorobenzene	11,000	1,200
n-Butylbenzene	1,600	1,200
1,2-Dichlorobenzene	40,000	1,200
1,2-Dibromo-3-Chloropropane	ND	1,200
1,2,4-Trichlorobenzene	3,000	1,200
Hexachlorobutadiene	ND	1,200
Naphthalene	1,300	1,200
1,2,3-Trichlorobenzene	1,100 J	1,200

Surrogate	%REC	Limits
Dibromofluoromethane	98	63-133
1,2-Dichloroethane-d4	97	76-127
Toluene-d8	97	80-111
Bromofluorobenzene	92	77-126

6/13/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-114-10	Diln Fac:	7,143
Lab ID:	145357-008	Batch#:	55739
Matrix:	Soil	Sampled:	04/27/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Analyte	Result	RL
2-Chlorotoluene	ND	43,000
4-Chlorotoluene	ND	43,000
tert-Butylbenzene	ND	43,000
1,2,4-Trimethylbenzene	46,000	43,000
sec-Butylbenzene	ND	43,000
para-Isopropyl Toluene	ND	43,000
1,3-Dichlorobenzene	75,000	43,000
1,4-Dichlorobenzene	400,000	43,000
n-Butylbenzene	34,000 J	43,000
1,2-Dichlorobenzene	1,300,000	43,000
1,2-Dibromo-3-Chloropropane	ND	43,000
1,2,4-Trichlorobenzene	42,000 J	43,000
Hexachlorobutadiene	ND	43,000
Naphthalene	25,000 J	43,000
1,2,3-Trichlorobenzene	ND	43,000

Surrogate	%REC	Limits
Dibromofluoromethane	100	63-133
1,2-Dichloroethane-d4	102	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	100	77-126

6/13/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-114-15	Basis:	dry
Lab ID:	145357-009	Sampled:	04/27/00
Matrix:	Soil	Received:	04/28/00
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
4-Chlorotoluene	ND	500	100.0	55656	05/06/00
tert-Butylbenzene	ND	500	100.0	55656	05/06/00
1,2,4-Trimethylbenzene	4,500	500	100.0	55656	05/06/00
sec-Butylbenzene	350 J	500	100.0	55656	05/06/00
para-Isopropyl Toluene	690	500	100.0	55656	05/06/00
1,3-Dichlorobenzene	8,300	500	100.0	55656	05/06/00
1,4-Dichlorobenzene	44,000	4,200	833.3	55661	05/07/00
n-Butylbenzene	1,000	500	100.0	55656	05/06/00
1,2-Dichlorobenzene	130,000	4,200	833.3	55661	05/07/00
1,2-Dibromo-3-Chloropropane	ND	500	100.0	55656	05/06/00
1,2,4-Trichlorobenzene	4,900 J MS 6/13/00	500	100.0	55656	05/06/00
Hexachlorobutadiene	ND	500	100.0	55656	05/06/00
Naphthalene	1,600	500	100.0	55656	05/06/00
1,2,3-Trichlorobenzene	1,000	500	100.0	55656	05/06/00

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	92	63-133	100.0	55656	05/06/00
1,2-Dichloroethane-d4	94	76-127	100.0	55656	05/06/00
Toluene-d8	97	80-111	100.0	55656	05/06/00
Bromofluorobenzene	91	77-126	100.0	55656	05/06/00

6/13/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-114-20	Diln Fac:	0.9615
Lab ID:	145357-010	Batch#:	55673
Matrix:	Soil	Sampled:	04/27/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/08/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.5
4-Chlorotoluene	ND	5.5
tert-Butylbenzene	ND	5.5
1,2,4-Trimethylbenzene	ND	5.5
sec-Butylbenzene	ND	5.5
para-Isopropyl Toluene	ND	5.5
1,3-Dichlorobenzene	ND	5.5
1,4-Dichlorobenzene	ND	5.5
n-Butylbenzene	ND	5.5
1,2-Dichlorobenzene	ND	5.5
1,2-Dibromo-3-Chloropropane	ND	5.5
1,2,4-Trichlorobenzene	ND	5.5
Hexachlorobutadiene	ND	5.5
Naphthalene	ND	5.5
1,2,3-Trichlorobenzene	ND	5.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	107	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	101	77-126

6/13/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-114-25	Diln Fac:	0.9804
Lab ID:	145357-011	Batch#:	55624
Matrix:	Soil	Sampled:	04/27/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/05/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.8
tert-Butylbenzene	ND	5.8
1,2,4-Trimethylbenzene	ND	5.8
sec-Butylbenzene	ND	5.8
para-Isopropyl Toluene	ND	5.8
1,3-Dichlorobenzene	ND	5.8
1,4-Dichlorobenzene	ND	5.8
n-Butylbenzene	ND	5.8
1,2-Dichlorobenzene	ND	5.8
1,2-Dibromo-3-Chloropropane	ND	5.8
1,2,4-Trichlorobenzene	ND	5.8
Hexachlorobutadiene	ND	5.8
Naphthalene	ND	5.8
1,2,3-Trichlorobenzene	ND	5.8

Surrogate	%REC	Limits
Dibromofluoromethane	97	63-133
1,2-Dichloroethane-d4	101	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	101	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-114-30	Diln Fac:	1.000
Lab ID:	145357-012	Batch#:	55673
Matrix:	Soil	Sampled:	04/27/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/08/00

Analyte	Result	RL
4-Chlorotoluene	ND	6.0
tert-Butylbenzene	ND	6.0
1,2,4-Trimethylbenzene	ND	6.0
sec-Butylbenzene	ND	6.0
para-Isopropyl Toluene	ND	6.0
1,3-Dichlorobenzene	ND	6.0
1,4-Dichlorobenzene	ND	6.0
n-Butylbenzene	ND	6.0
1,2-Dichlorobenzene	ND	6.0
1,2-Dibromo-3-Chloropropane	ND	6.0
1,2,4-Trichlorobenzene	ND	6.0
Hexachlorobutadiene	ND	6.0
Naphthalene	ND	6.0
1,2,3-Trichlorobenzene	ND	6.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	103	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-114-35	Diln Fac:	1.042
Lab ID:	145357-013	Batch#:	55752
Matrix:	Soil	Sampled:	04/27/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Analyte	Result	RL
4-Chlorotoluene	ND	6.3
tert-Butylbenzene	ND	6.3
1,2,4-Trimethylbenzene	ND	6.3
sec-Butylbenzene	ND	6.3
para-Isopropyl Toluene	ND	6.3
1,3-Dichlorobenzene	ND	6.3
1,4-Dichlorobenzene	ND	6.3
n-Butylbenzene	ND	6.3
1,2-Dichlorobenzene	ND	6.3
1,2-Dibromo-3-Chloropropane	ND	6.3
1,2,4-Trichlorobenzene	ND	6.3
Hexachlorobutadiene	ND	6.3
Naphthalene	ND	6.3
1,2,3-Trichlorobenzene	ND	6.3

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	103	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	108	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-114-40	Diln Fac:	0.9615
Lab ID:	145357-014	Batch#:	55752
Matrix:	Soil	Sampled:	04/27/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.5
tert-Butylbenzene	ND	5.5
1,2,4-Trimethylbenzene	ND	5.5
sec-Butylbenzene	ND	5.5
para-Isopropyl Toluene	ND	5.5
1,3-Dichlorobenzene	ND	5.5
1,4-Dichlorobenzene	ND	5.5
n-Butylbenzene	ND	5.5
1,2-Dichlorobenzene	ND	5.5
1,2-Dibromo-3-Chloropropane	ND	5.5
1,2,4-Trichlorobenzene	ND	5.5
Hexachlorobutadiene	ND	5.5
Naphthalene	ND	5.5
1,2,3-Trichlorobenzene	ND	5.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	106	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-114-45	Diln Fac:	0.9615
Lab ID:	145357-015	Batch#:	55752
Matrix:	Soil	Sampled:	04/27/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	ND	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	ND	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%REC	Limits
Dibromofluoromethane	103	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	107	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-116-5	Diln Fac:	1.000
Lab ID:	145357-016	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	ND	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	ND	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	107	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-116-10	Diln Fac:	0.9615
Lab ID:	145357-017	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.6
tert-Butylbenzene	ND	5.6
1,2,4-Trimethylbenzene	ND	5.6
sec-Butylbenzene	ND	5.6
para-Isopropyl Toluene	ND	5.6
1,3-Dichlorobenzene	ND	5.6
1,4-Dichlorobenzene	ND	5.6
n-Butylbenzene	ND	5.6
1,2-Dichlorobenzene	ND	5.6
1,2-Dibromo-3-Chloropropane	ND	5.6
1,2,4-Trichlorobenzene	ND	5.6
Hexachlorobutadiene	ND	5.6
Naphthalene	ND	5.6
1,2,3-Trichlorobenzene	ND	5.6

Surrogate	%REC	Limits
Dibromofluoromethane	106	63-133
1,2-Dichloroethane-d4	107	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	108	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-116-20	Diln Fac:	0.9615
Lab ID:	145357-018	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	ND	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	ND	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%REC	Limits
Dibromofluoromethane	107	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	107	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-116-30	Diln Fac:	1.020
Lab ID:	145357-019	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Moisture: 16%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	6.1
Acetone	32	24
Freon 113	ND	6.1
1,1-Dichloroethene	ND	6.1
Methylene Chloride	ND	24
Carbon Disulfide	ND	6.1
MTBE	ND	6.1
trans-1,2-Dichloroethene	ND	6.1
Vinyl Acetate	ND	61
1,1-Dichloroethane	ND	6.1
2-Butanone	ND	12
cis-1,2-Dichloroethene	ND	6.1
2,2-Dichloropropane	ND	6.1
Chloroform	ND	6.1
Bromochloromethane	ND	6.1
1,1,1-Trichloroethane	ND	6.1
1,1-Dichloropropene	ND	6.1
Carbon Tetrachloride	ND	6.1
1,2-Dichloroethane	ND	6.1
Benzene	ND	6.1
Trichloroethene	ND	6.1
1,2-Dichloropropane	ND	6.1
Bromodichloromethane	ND	6.1
Dibromomethane	ND	6.1
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	6.1
Toluene	ND	6.1
trans-1,3-Dichloropropene	ND	6.1
1,1,2-Trichloroethane	ND	6.1
2-Hexanone	ND	12
1,3-Dichloropropane	ND	6.1
Tetrachloroethene	ND	6.1
Dibromochloromethane	ND	6.1
1,2-Dibromoethane	ND	6.1
Chlorobenzene	ND	6.1
1,1,1,2-Tetrachloroethane	ND	6.1
Ethylbenzene	ND	6.1
m,p-Xylenes	ND	6.1
o-Xylene	ND	6.1
Styrene	ND	6.1
Bromoform	ND	6.1
Isopropylbenzene	ND	6.1
1,1,2,2-Tetrachloroethane	ND	6.1
1,2,3-Trichloropropane	ND	6.1
Propylbenzene	ND	6.1
Bromobenzene	ND	6.1
1,3,5-Trimethylbenzene	ND	6.1
2-Chlorotoluene	ND	6.1

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-116-30	Diln Fac:	1.020
Lab ID:	145357-019	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Analyte	Result	RL
4-Chlorotoluene	ND	6.1
tert-Butylbenzene	ND	6.1
1,2,4-Trimethylbenzene	ND	6.1
sec-Butylbenzene	ND	6.1
para-Isopropyl Toluene	ND	6.1
1,3-Dichlorobenzene	ND	6.1
1,4-Dichlorobenzene	ND	6.1
n-Butylbenzene	ND	6.1
1,2-Dichlorobenzene	ND	6.1
1,2-Dibromo-3-Chloropropane	ND	6.1
1,2,4-Trichlorobenzene	ND	6.1
Hexachlorobutadiene	ND	6.1
Naphthalene	ND	6.1
1,2,3-Trichlorobenzene	ND	6.1

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	106	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-116-34	Diln Fac:	0.9615
Lab ID:	145357-020	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Moisture: 13%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.5
Acetone	23	22
Freon 113	ND	5.5
1,1-Dichloroethene	ND	5.5
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.5
MTBE	ND	5.5
trans-1,2-Dichloroethene	ND	5.5
Vinyl Acetate	ND	55
1,1-Dichloroethane	ND	5.5
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.5
2,2-Dichloropropane	ND	5.5
Chloroform	ND	5.5
Bromochloromethane	ND	5.5
1,1,1-Trichloroethane	ND	5.5
1,1-Dichloropropene	ND	5.5
Carbon Tetrachloride	ND	5.5
1,2-Dichloroethane	ND	5.5
Benzene	ND	5.5
Trichloroethene	ND	5.5
1,2-Dichloropropane	ND	5.5
Bromodichloromethane	ND	5.5
Dibromomethane	ND	5.5
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.5
Toluene	ND	5.5
trans-1,3-Dichloropropene	ND	5.5
1,1,2-Trichloroethane	ND	5.5
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.5
Tetrachloroethene	ND	5.5
Dibromochloromethane	ND	5.5
1,2-Dibromoethane	ND	5.5
Chlorobenzene	ND	5.5
1,1,1,2-Tetrachloroethane	ND	5.5
Ethylbenzene	ND	5.5
m,p-Xylenes	ND	5.5
o-Xylene	ND	5.5
Styrene	ND	5.5
Bromoform	ND	5.5
Isopropylbenzene	ND	5.5
1,1,2,2-Tetrachloroethane	ND	5.5
1,2,3-Trichloropropane	ND	5.5
Propylbenzene	ND	5.5
Bromobenzene	ND	5.5
1,3,5-Trimethylbenzene	ND	5.5
2-Chlorotoluene	ND	5.5

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-116-34	Diln Fac:	0.9615
Lab ID:	145357-020	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.5
tert-Butylbenzene	ND	5.5
1,2,4-Trimethylbenzene	ND	5.5
sec-Butylbenzene	ND	5.5
para-Isopropyl Toluene	ND	5.5
1,3-Dichlorobenzene	ND	5.5
1,4-Dichlorobenzene	ND	5.5
n-Butylbenzene	ND	5.5
1,2-Dichlorobenzene	ND	5.5
1,2-Dibromo-3-Chloropropane	ND	5.5
1,2,4-Trichlorobenzene	ND	5.5
Hexachlorobutadiene	ND	5.5
Naphthalene	ND	5.5
1,2,3-Trichlorobenzene	ND	5.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	107	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-115-5	Diln Fac:	1.020
Lab ID:	145357-021	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Moisture: 23%

Analyte	Result	RL
Freon 12	ND	13
Chloromethane	ND	13
Vinyl Chloride	ND	13
Bromomethane	ND	13
Chloroethane	ND	13
Trichlorofluoromethane	ND	6.6
Acetone	62	27
Freon 113	ND	6.6
1,1-Dichloroethene	ND	6.6
Methylene Chloride	ND	27
Carbon Disulfide	ND	6.6
MTBE	ND	6.6
trans-1,2-Dichloroethene	ND	6.6
Vinyl Acetate	ND	66
1,1-Dichloroethane	ND	6.6
2-Butanone	ND	13
cis-1,2-Dichloroethene	ND	6.6
2,2-Dichloropropane	ND	6.6
Chloroform	ND	6.6
Bromochloromethane	ND	6.6
1,1,1-Trichloroethane	ND	6.6
1,1-Dichloropropene	ND	6.6
Carbon Tetrachloride	ND	6.6
1,2-Dichloroethane	ND	6.6
Benzene	ND	6.6
Trichloroethene	ND	6.6
1,2-Dichloropropane	ND	6.6
Bromodichloromethane	ND	6.6
Dibromomethane	ND	6.6
4-Methyl-2-Pentanone	ND	13
cis-1,3-Dichloropropene	ND	6.6
Toluene	ND	6.6
trans-1,3-Dichloropropene	ND	6.6
1,1,2-Trichloroethane	ND	6.6
2-Hexanone	ND	13
1,3-Dichloropropane	ND	6.6
Tetrachloroethene	ND	6.6
Dibromochloromethane	ND	6.6
1,2-Dibromoethane	ND	6.6
Chlorobenzene	ND	6.6
1,1,1,2-Tetrachloroethane	ND	6.6
Ethylbenzene	ND	6.6
m,p-Xylenes	ND	6.6
o-Xylene	ND	6.6
Styrene	ND	6.6
Bromoform	ND	6.6
Isopropylbenzene	ND	6.6
1,1,2,2-Tetrachloroethane	ND	6.6
1,2,3-Trichloropropane	ND	6.6
Propylbenzene	ND	6.6
Bromobenzene	ND	6.6
1,3,5-Trimethylbenzene	ND	6.6
2-Chlorotoluene	ND	6.6

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-115-5	Diln Fac:	1.020
Lab ID:	145357-021	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Analyte	Result	RL
4-Chlorotoluene	ND	6.6
tert-Butylbenzene	ND	6.6
1,2,4-Trimethylbenzene	ND	6.6
sec-Butylbenzene	ND	6.6
para-Isopropyl Toluene	ND	6.6
1,3-Dichlorobenzene	ND	6.6
1,4-Dichlorobenzene	ND	6.6
n-Butylbenzene	ND	6.6
1,2-Dichlorobenzene	ND	6.6
1,2-Dibromo-3-Chloropropane	ND	6.6
1,2,4-Trichlorobenzene	ND	6.6
Hexachlorobutadiene	ND	6.6
Naphthalene	ND	6.6
1,2,3-Trichlorobenzene	ND	6.6

Surrogate	%REC	Limits
Dibromofluoromethane	103	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	106	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-115-10	Diln Fac:	0.9434
Lab ID:	145357-022	Batch#:	55782
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/11/00

Moisture: 43%

Analyte	Result	RL
Freon 12	ND	17
Chloromethane	ND	17
Vinyl Chloride	ND	17
Bromomethane	ND	17
Chloroethane	ND	17
Trichlorofluoromethane	ND	8.3
Acetone	67	33
Freon 113	ND	8.3
1,1-Dichloroethene	ND	8.3
Methylene Chloride	ND	33
Carbon Disulfide	12	8.3
MTBE	ND	8.3
trans-1,2-Dichloroethene	ND	8.3
Vinyl Acetate	ND	83
1,1-Dichloroethane	ND	8.3
2-Butanone	ND	17
cis-1,2-Dichloroethene	ND	8.3
2,2-Dichloropropane	ND	8.3
Chloroform	ND	8.3
Bromochloromethane	ND	8.3
1,1,1-Trichloroethane	ND	8.3
1,1-Dichloropropene	ND	8.3
Carbon Tetrachloride	ND	8.3
1,2-Dichloroethane	ND	8.3
Benzene	ND	8.3
Trichloroethene	ND	8.3
1,2-Dichloropropane	ND	8.3
Bromodichloromethane	ND	8.3
Dibromomethane	ND	8.3
4-Methyl-2-Pentanone	ND	17
cis-1,3-Dichloropropene	ND	8.3
Toluene	ND	8.3
trans-1,3-Dichloropropene	ND	8.3
1,1,2-Trichloroethane	ND	8.3
2-Hexanone	ND	17
1,3-Dichloropropane	ND	8.3
Tetrachloroethene	ND	8.3
Dibromochloromethane	ND	8.3
1,2-Dibromoethane	ND	8.3
Chlorobenzene	ND	8.3
1,1,1,2-Tetrachloroethane	ND	8.3
Ethylbenzene	ND	8.3
m,p-Xylenes	ND	8.3
o-Xylene	ND	8.3
Styrene	ND	8.3
Bromoform	ND	8.3
Isopropylbenzene	ND	8.3
1,1,2,2-Tetrachloroethane	ND	8.3
1,2,3-Trichloropropane	ND	8.3
Propylbenzene	ND	8.3
Bromobenzene	ND	8.3
1,3,5-Trimethylbenzene	ND	8.3
2-Chlorotoluene	ND	8.3

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-115-10	Diln Fac:	0.9434
Lab ID:	145357-022	Batch#:	55782
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/11/00

Analyte	Result	RL
4-Chlorotoluene	ND	8.3
tert-Butylbenzene	ND	8.3
1,2,4-Trimethylbenzene	ND	8.3
sec-Butylbenzene	ND	8.3
para-Isopropyl Toluene	ND	8.3
1,3-Dichlorobenzene	ND	8.3
1,4-Dichlorobenzene	ND	8.3
n-Butylbenzene	ND	8.3
1,2-Dichlorobenzene	ND	8.3
1,2-Dibromo-3-Chloropropane	ND	8.3
1,2,4-Trichlorobenzene	ND	8.3
Hexachlorobutadiene	ND	8.3
Naphthalene	ND	8.3
1,2,3-Trichlorobenzene	ND	8.3

Surrogate	%REC	Limits
Dibromofluoromethane	97	63-133
1,2-Dichloroethane-d4	100	76-127
Toluene-d8	98	80-111
Bromofluorobenzene	101	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-115-20	Diln Fac:	0.9434
Lab ID:	145357-023	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Moisture: 17%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.7
Acetone	25	23
Freon 113	ND	5.7
1,1-Dichloroethene	ND	5.7
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.7
MTBE	ND	5.7
trans-1,2-Dichloroethene	ND	5.7
Vinyl Acetate	ND	57
1,1-Dichloroethane	ND	5.7
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.7
2,2-Dichloropropane	ND	5.7
Chloroform	ND	5.7
Bromochloromethane	ND	5.7
1,1,1-Trichloroethane	ND	5.7
1,1-Dichloropropene	ND	5.7
Carbon Tetrachloride	ND	5.7
1,2-Dichloroethane	ND	5.7
Benzene	ND	5.7
Trichloroethene	ND	5.7
1,2-Dichloropropane	ND	5.7
Bromodichloromethane	ND	5.7
Dibromomethane	ND	5.7
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.7
Toluene	ND	5.7
trans-1,3-Dichloropropene	ND	5.7
1,1,2-Trichloroethane	ND	5.7
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.7
Tetrachloroethene	ND	5.7
Dibromochloromethane	ND	5.7
1,2-Dibromoethane	ND	5.7
Chlorobenzene	ND	5.7
1,1,1,2-Tetrachloroethane	ND	5.7
Ethylbenzene	ND	5.7
m,p-Xylenes	ND	5.7
o-Xylene	ND	5.7
Styrene	ND	5.7
Bromoform	ND	5.7
Isopropylbenzene	ND	5.7
1,1,2,2-Tetrachloroethane	ND	5.7
1,2,3-Trichloropropane	ND	5.7
Propylbenzene	ND	5.7
Bromobenzene	ND	5.7
1,3,5-Trimethylbenzene	ND	5.7
2-Chlorotoluene	ND	5.7

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-115-20	Diln Fac:	0.9434
Lab ID:	145357-023	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	ND	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	ND	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	106	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-115-30	Diln Fac:	0.9804
Lab ID:	145357-024	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/11/00

Moisture: 15%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	5.8
Acetone	ND	23
Freon 113	ND	5.8
1,1-Dichloroethene	ND	5.8
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.8
MTBE	ND	5.8
trans-1,2-Dichloroethene	ND	5.8
Vinyl Acetate	ND	58
1,1-Dichloroethane	ND	5.8
2-Butanone	ND	12
cis-1,2-Dichloroethene	ND	5.8
2,2-Dichloropropane	ND	5.8
Chloroform	ND	5.8
Bromochloromethane	ND	5.8
1,1,1-Trichloroethane	ND	5.8
1,1-Dichloropropene	ND	5.8
Carbon Tetrachloride	ND	5.8
1,2-Dichloroethane	ND	5.8
Benzene	ND	5.8
Trichloroethene	ND	5.8
1,2-Dichloropropane	ND	5.8
Bromodichloromethane	ND	5.8
Dibromomethane	ND	5.8
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	5.8
Toluene	ND	5.8
trans-1,3-Dichloropropene	ND	5.8
1,1,2-Trichloroethane	ND	5.8
2-Hexanone	ND	12
1,3-Dichloropropane	ND	5.8
Tetrachloroethene	ND	5.8
Dibromochloromethane	ND	5.8
1,2-Dibromoethane	ND	5.8
Chlorobenzene	ND	5.8
1,1,1,2-Tetrachloroethane	ND	5.8
Ethylbenzene	ND	5.8
m,p-Xylenes	ND	5.8
o-Xylene	ND	5.8
Styrene	ND	5.8
Bromoform	ND	5.8
Isopropylbenzene	ND	5.8
1,1,2,2-Tetrachloroethane	ND	5.8
1,2,3-Trichloropropane	ND	5.8
Propylbenzene	ND	5.8
Bromobenzene	ND	5.8
1,3,5-Trimethylbenzene	ND	5.8
2-Chlorotoluene	ND	5.8

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-115-30	Diln Fac:	0.9804
Lab ID:	145357-024	Batch#:	55752
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/11/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.8
tert-Butylbenzene	ND	5.8
1,2,4-Trimethylbenzene	ND	5.8
sec-Butylbenzene	ND	5.8
para-Isopropyl Toluene	ND	5.8
1,3-Dichlorobenzene	ND	5.8
1,4-Dichlorobenzene	ND	5.8
n-Butylbenzene	ND	5.8
1,2-Dichlorobenzene	ND	5.8
1,2-Dibromo-3-Chloropropane	ND	5.8
1,2,4-Trichlorobenzene	ND	5.8
Hexachlorobutadiene	ND	5.8
Naphthalene	ND	5.8
1,2,3-Trichlorobenzene	ND	5.8

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	106	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-45	Diln Fac:	25.00
Lab ID:	145357-025	Batch#:	55739
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Moisture: 16%

Analyte	Result	RL
Freon 12	ND	300
Chloromethane	ND	300
Vinyl Chloride	ND	300
Bromomethane	ND	300
Chloroethane	ND	300
Trichlorofluoromethane	ND	150
Acetone	ND	600
Freon 113	ND	150
1,1-Dichloroethene	ND	150
Methylene Chloride	ND	600
Carbon Disulfide	ND	150
MTBE	ND	150
trans-1,2-Dichloroethene	ND	150
Vinyl Acetate	ND	1,500
1,1-Dichloroethane	ND	150
2-Butanone	1,700	300
cis-1,2-Dichloroethene	ND	150
2,2-Dichloropropane	ND	150
Chloroform	ND	150
Bromochloromethane	ND	150
1,1,1-Trichloroethane	ND	150
1,1-Dichloropropene	ND	150
Carbon Tetrachloride	ND	150
1,2-Dichloroethane	ND	150
Benzene	ND	150
Trichloroethene	ND	150
1,2-Dichloropropane	ND	150
Bromodichloromethane	ND	150
Dibromomethane	ND	150
4-Methyl-2-Pentanone	ND	300
cis-1,3-Dichloropropene	ND	150
Toluene	ND	150
trans-1,3-Dichloropropene	ND	150
1,1,2-Trichloroethane	ND	150
2-Hexanone	ND	300
1,3-Dichloropropane	ND	150
Tetrachloroethene	ND	150
Dibromochloromethane	ND	150
1,2-Dibromoethane	ND	150
Chlorobenzene	ND	150
1,1,1,2-Tetrachloroethane	ND	150
Ethylbenzene	ND	150
m,p-Xylenes	ND	150
o-Xylene	ND	150
Styrene	ND	150
Bromoform	ND	150
Isopropylbenzene	ND	150
1,1,2,2-Tetrachloroethane	ND	150
1,2,3-Trichloropropane	ND	150
Propylbenzene	ND	150
Bromobenzene	ND	150
1,3,5-Trimethylbenzene	ND	150
2-Chlorotoluene	ND	150

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-45	Diln Fac:	25.00
Lab ID:	145357-025	Batch#:	55739
Matrix:	Soil	Sampled:	04/28/00
Units:	ug/Kg	Received:	04/28/00
Basis:	dry	Analyzed:	05/10/00

Analyte	Result	RL
4-Chlorotoluene	ND	150
tert-Butylbenzene	ND	150
1,2,4-Trimethylbenzene	ND	150
sec-Butylbenzene	ND	150
para-Isopropyl Toluene	ND	150
1,3-Dichlorobenzene	ND	150
1,4-Dichlorobenzene	ND	150
n-Butylbenzene	ND	150
1,2-Dichlorobenzene	ND	150
1,2-Dibromo-3-Chloropropane	ND	150
1,2,4-Trichlorobenzene	ND	150
Hexachlorobutadiene	ND	150
Naphthalene	ND	150
1,2,3-Trichlorobenzene	ND	150

Surrogate	%REC	Limits
Dibromofluoromethane	96	63-133
1,2-Dichloroethane-d4	99	76-127
Toluene-d8	98	80-111
Bromofluorobenzene	95	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114788	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55624
Units:	ug/Kg	Analyzed:	05/05/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114788	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55624
Units:	ug/Kg	Analyzed:	05/05/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	100	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114904	Batch#:	55656
Matrix:	Water	Analyzed:	05/06/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114904	Batch#:	55656
Matrix:	Water	Analyzed:	05/06/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	96	63-133
1,2-Dichloroethane-d4	97	76-127
Toluene-d8	98	80-111
Bromofluorobenzene	99	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114926	Batch#:	55661
Matrix:	Water	Analyzed:	05/07/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114926	Batch#:	55661
Matrix:	Water	Analyzed:	05/07/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	95	63-133
1,2-Dichloroethane-d4	97	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	97	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114979	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55673
Units:	ug/Kg	Analyzed:	05/08/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114979	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55673
Units:	ug/Kg	Analyzed:	05/08/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	6.1	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	102	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114996	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55673
Units:	ug/Kg	Analyzed:	05/08/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114996	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55673
Units:	ug/Kg	Analyzed:	05/08/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	103	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC115095	Batch#:	55702
Matrix:	Water	Analyzed:	05/09/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC115095	Batch#:	55702
Matrix:	Water	Analyzed:	05/09/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	98	63-133
1,2-Dichloroethane-d4	99	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	101	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC115151	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55706
Units:	ug/Kg	Analyzed:	05/09/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC115151	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55706
Units:	ug/Kg	Analyzed:	05/09/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	99	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	100	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC115248	Batch#:	55739
Matrix:	Water	Analyzed:	05/10/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC115248	Batch#:	55739
Matrix:	Water	Analyzed:	05/10/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	63-133
1,2-Dichloroethane-d4	102	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	105	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC115287	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55752
Units:	ug/Kg	Analyzed:	05/10/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC115287	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55752
Units:	ug/Kg	Analyzed:	05/10/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	106	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC115296	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55754
Units:	ug/Kg	Analyzed:	05/10/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC115296	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55754
Units:	ug/Kg	Analyzed:	05/10/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	7.0	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	8.1	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	6.9	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	11	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	11	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	63-133
1,2-Dichloroethane-d4	89	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	107	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC115407	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55782
Units:	ug/Kg	Analyzed:	05/11/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145357	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC115407	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55782
Units:	ug/Kg	Analyzed:	05/11/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	101	63-133
1,2-Dichloroethane-d4	102	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	101	77-126

6/13/00

ND = Not Detected
RL = Reporting Limit

Office of Enforcement

CHAIN OF CUSTODY RECORD

San Francisco, California 94105

PROJ. NO.: 1256DCSTXY

PROJECT NAME: DC Metals

SAMPLERS: (Signature) W. Duncan, C. LeCompte, C. McLeod

Standard turn around.

FAX summaries to: C. McLeod 415 981 0801

REMARKS: Mail data packages to: C. McLeod, Ecology & Envir. 350 Sansome St, Suite 300, San Francisco, CA 94104

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	8260B (VOCs + MTBE)	MS/MSD				
D	4/26/00	1615		✓	S-113-20	1x4oz	✓					
D		1640		✓	S-113-25	"	✓					
D		1720		✓	S-113-30	"	✓					
D		1750		✓	S-113-35	"	✓					
D		1815		✓	S-113-40	"	✓					
D	4/27/00	0825		✓	S-113-43	"	✓					
Q		1400		✓	S-114-5	"	✓					
Q		1435		✓	S-114-10	"	✓					
Q		1500		✓	S-114-15	2x4oz	✓	✓				
Q		1510		✓	S-114-20	1x4oz	✓					
Q		1525		✓	S-114-25	2x4oz	✓	✓				
Q		1555		✓	S-114-30	1x4oz	✓					
Q		1620		✓	S-114-35	"	✓					
Q		1710		✓	S-114-40	"	✓					
Q		1745		✓	S-114-45	"	✓					

Expected Med to High concentration samples. Dilutions will be required to meet project D.L.s.

Med to Low concentration samples. Dilutions may be required to meet project DL's.

TEMP. RECEIVED: 3.8 °C

RECEIVED BY:

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
CLMcLeod	4/28/00 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
			4/28/00 1700		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

9 21330

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX
Laboratory: Curtis & Tompkins, Ltd.	Lab Project Number: 145296
Sampling Dates: 04/24-26/00	Sample Matrix: Water & Soil
Analytical Method: *GC-MS (EPA 8260B)*	Data Reviewer: Mindy Song

REVIEW AND APPROVAL:

Data Reviewer: Mindy C. Song Date: 6/12/00

Technical QA Reviewer: _____ Date: _____

Project Manager: Mcheard Date: 6/15/00

SAMPLE IDENTIFICATION:

Sample No.	Sample I.D.	Laboratory I.D.
21	S-111-40	145296-021
22	GW-110-20	145296-022
23	GW-110-25	145296-023
24	GW-110-30	145296-024
25	GW-110-35	145296-025
26	GW-110-40	145296-026
27	GW-111-20	145296-027
28	GW-111-25	145296-028
29	GW-111-30	145296-029
30	GW-111-35	145296-030
31	GW-111-40	145296-031
32	GW-112-20	145296-032
33	GW-112-25	145296-033
34	GW-112-30	145296-034
35	GW-112-35	145296-035
36	GW-112-40	145296-036
37	GW-113-5	145296-037
38	S-112-5	145296-038
39	S-112-10	145296-039
40	S-112-15	145296-040

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX
Laboratory: Curtis & Tompkins, Ltd.	Lab Project Number: 145296
Sampling Dates: 04/24-26/00	Sample Matrix: Water & Soil
Analytical Method: *GC-MS (EPA 8260B)*	Data Reviewer: Mindy Song

REVIEW AND APPROVAL:

Data Reviewer: Mindy C. Song Date: 6/12/00

Technical QA Reviewer: _____ Date: _____

Project Manager: _____ Date: _____

SAMPLE IDENTIFICATION:

Sample No.	Sample I.D.	Laboratory I.D.
41	S-112-20	145296-041
42	S-112-25	145296-042
43	S-112-30	145296-043
44	S-112-35	145296-044
45	S-112-40	145296-045
46	S-112-45	145296-046
47	S-113-5	145296-047
48	S-113-10	145296-048
49	S-113-15	145296-049
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ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

DATA PACKAGE COMPLETENESS CHECKLIST:

Checklist Code:

- X Included: no problems
- * Included: problems noted in review
- O Not Included and/or Not Available
- NR Not Required
- RS Provided As Re-submission

Case Narrative:

- X Case Narrative present

Quality Control Summary Package:

- X Data Summary sheets
- X Matrix Spike/Spike Duplicate Recoveries
- X Laboratory Control Sample Recoveries
- X Method Blank Summaries
- X GC/MS Tuning and Mass Calibration
- X Initial Calibration Data
- X Continuing Calibration Data
- X Surrogate Compound Recovery Summary
- X Internal Standard Area Summary

Sample and Blank Data Package Section

- X Reconstructed Ion Current (RIC) Chromatogram
- X Quantitation Reports
- X Raw and Enhanced Mass Spectra
- X Reference Mass Spectra for Target Compounds
- X Mass Spectral Library Search for TICs

Raw QC Data Package Section

- X DFTPP and/or BFB mass spectra and mass listings
- X RIC Chromatogram for Standards, LCS, and MS/MSD
- X Quantitation Reports for Standards, LCS, and MS/MSD
- NR List of Instrument Detection Limits
- X Chain-of-Custody Records
- X Sample Preparation and Analysis Run Logs

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

DATA VALIDATION SUMMARY

The data were reviewed following procedures and limits specified in the EPA OSWER directive, *Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan and Data Validation Procedures* (EPA/540/G-90/004, OSWER Directive 9360.4-01, dated April 1990).

Indicate with a YES or NO whether each item is acceptable:

1	Holding Times	YES
2	GC/MS Tuning Criteria	YES
3	Initial Calibrations	YES
4	Continuing Calibrations	YES
5	Laboratory Control Sample	YES
6	Matrix Spike/Matrix Spike Duplicate	YES
7	Blanks and Background Samples	YES
8	Surrogate Compounds	YES
9	Internal Standards	YES
10	Duplicate Analyses	YES
11	Analyte Identification	YES
12	Analyte Quantitation	YES
13	Overall Assessment of Data	YES
14	Usability of Data	YES

Comments: Thirty three soil samples and sixteen water samples were delivered to the laboratory for volatile organic compounds including MTBE by EPA 8260B on April 26, 2000. The soil samples were analyzed by three different GC/MS instruments (MSVOA02,MSVOA03 & MSVOA04) and the water samples were analyzed by two different instruments (MSVOA05 &MSVOA06). Seven soil and ten water samples were analyzed with dilution and reported due to high concentration of target analyte compounds.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

1. HOLDING TIMES

__X__ Acceptable
_____ Acceptable with qualification
_____ Unacceptable

Samples were extracted and analyzed within required holding times except as noted under Comments. In addition, no problems were identified with regard to sample preservation or custody unless specified. For those samples analyzed outside holding time requirements, the detected results have been qualified as estimated (J), and the nondetected results have been qualified either as estimated (UJ) or rejected (R) based on the reviewer's judgement.

Water Samples:
EPA 8260B: 14 days (from collection) for analysis.
EPA 8270C: 7 days (from collection) for extraction; 40 days (from extraction) for analysis.
Soil or Other Matrices:
EPA 8260B: 14 days (from collection) for analysis.
EPA 8270C:14 days (from collection) for extraction;40 days (from extraction) for analysis.

Comments: The samples were analyzed 4 to 14 days from the time of collection.

2. GC/MS INSTRUMENT PERFORMANCE CRITERIA

__X__ **BFB (EPA 8260B) or DFTPP (EPA 8270C) has been run for every 12 hours of sample analysis per instrument.**

__X__ **The BFB or DFTPP ion abundance criteria indicated in EPA/540/G-90/004 have been met for each instrument.**

Comments: None.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

3. INITIAL CALIBRATIONS

__X__ **Acceptable**
_____ **Acceptable with qualification**
_____ **Unacceptable**

Unless flagged below, a 5-point initial calibration was run. In addition, average Relative Response Factor (RRF), and percent relative Standard Deviation (%RSD) values were within control limits (average RRF >= 0.05; %RSD <= 30). For analytes which exceeded the %RSD control limit, associated detected results are qualified as estimated (J). If the low calibration level was not detected, the nondetected results are qualified (UJ). For analytes which exceeded the RRF control limit, associated detected results are qualified as estimated (J) and the nondetected results are qualified as rejected (R).

Comments: Percent RSD of hexachlorobutadiene in ICV performed on 5/4/00 from the Instrument MSVOA03 was outside of control limit. (30.7%)
Finding does not affect the reported results because this compound was not detected.

4. CONTINUING CALIBRATIONS

__X__ **Acceptable**
_____ **Acceptable with qualification**
_____ **Unacceptable**

Unless flagged below, continuing calibrations were performed at the beginning and at the end of any group of samples and at least every 12 hours. In addition, Percent Difference (%D) values were within the control limit (%D <= 25). For analytes which exceeded the %D control limit, associated detected results are qualified as estimated (J). In cases where the %D is very high and indicates a severe loss of instrument sensitivity, the associated nondetected results may be qualified as estimated (UJ) or rejected (R) based on the professional judgement of the reviewer.

Comments: Percent difference of 4-methyl-2-pentanone was outside of control limit in CCV from MSVOA05 (file ID:edu11 and ee112). The detected results were qualified as estimated for sample GW-112-35, GW-112-40 and GW-113-5.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

5. LABORATORY CONTROL SAMPLE

__X__ Acceptable
_____ Acceptable with qualification
_____ Unacceptable
_____ No Laboratory Control Samples Analyzed

Laboratory control sample recoveries are used for a qualitative indication of accuracy (bias) independent of matrix effects. Spike recovery limits of 80% to 120% are specified in EPA/540/G-90/004. For analytes which exceeded these control limits, associated detected results are qualified as estimated (J). At the discretion of the reviewer, other limits may be used only if justification can be provided.

Comments: All recoveries were within the control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

__X__ Acceptable
_____ Acceptable with qualification
_____ Unacceptable
_____ No Matrix Spike/Matrix Spike Duplicates Analyzed

Matrix spike and matrix spike duplicate recoveries are used for a qualitative indication of accuracy (bias) due to matrix effects. The RPD between the recoveries is used for a qualitative indication of precision. Spike recovery limits of 80% to 120% are specified in EPA/540/G-90/004. For analytes which exceeded these control limits, associated detected results are qualified as estimated (J). At the discretion of the reviewer, other limits may be used only if justification can be provided.

Comments: For water sample, three sets of LCS/LCD were analyzed and all recoveries were within the control limit. Soil sample S-117, S-111-30 and S-113-5 were used for matrix spike and matrix spike duplicate. Percent recovery of chlorobenzene in S-117-MS and trichloroethene, toluene and chlorobenzene in S-117-MSD was outside of control limit, but within the limit generated by the laboratory.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

7. BLANKS AND BACKGROUND SAMPLES

__X__ **Acceptable**
_____ **Detection Limits Adjusted**

The following blanks were analyzed:
__X__ **Method (preparation) Blanks**
_____ **Field Blanks**
_____ **Instrument Blanks**
_____ **Rinsate Blanks**
_____ **Background Samples**
_____ **VOA Trip Blanks**

Preparation (method) blanks were prepared for each batch of samples extracted. A preparation blank was analyzed after every continuing calibration standard, prior to sample analysis unless noted below. Any compound detected in the sample and also detected in any associated blank, must be qualified as non-detect (U) when the sample concentration is less than 5x the blank concentration.

Comments: The method blank for soil matrix from MSVOA03(file ID:ce806) contained 6.1 ug/kg of naphthalene, but finding does not affect the reported results.

8. SURROGATE COMPOUNDS

__X__ **Acceptable**
_____ **Acceptable with qualification**
_____ **Unacceptable**

Surrogate compound recoveries for samples analyzed within a sample group must be within the limits specified in the method. If the surrogate recovery is between 10% and the lower limit, the associated detected results are qualified as estimated (J) and the nondetected results are qualified as estimated (UJ). If the surrogate recovery is <10%, the associated detected results are qualified as estimated (J) and the nondetected results are rejected (R). If the surrogate recovery is above the upper limit, the associated detected results are qualified as estimated (J). Surrogate recoveries which exceeded these limits are noted below and the associated results are qualified on the attached sample report forms.

Comments: All surrogate recoveries were within the control limits.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

9. INTERNAL STANDARDS

__X__ Acceptable
_____ Acceptable with qualification
_____ Unacceptable

Internal Standard area counts for samples analyzed within a sample group must be within the range of 50% to 200% of the internal standard area for the continuing calibration. If the internal standard area is between 10% and 50% of this value, the associated detected results are qualified as estimated (J) and the nondetected results are qualified as estimated (UJ). If the internal standard area is <10% of the calibration area, both the detected and nondetected results are rejected (R). If the internal standard area is >200% of the calibration area, the associated detected results are qualified as estimated (J). Internal standards which exceeded these limits are noted below and the associated results are qualified on the attached sample report forms.

Comment: None.

10. DUPLICATE ANALYSES

__X__ Acceptable
_____ Acceptable with qualification
_____ Unacceptable
_____ No Duplicates Analyzed

Type of duplicates analyzed:
__X__ Field Duplicates
_____ Laboratory Duplicates

Calculate the relative Percent Difference (RPD) between the members of duplicate pairs using the equation indicated below. Qualify the results as estimated (J) for any analyte whose RPD exceeds that specified in the Sampling and Analysis Plan.

$$RPD = \frac{2(\text{Value 1} - \text{Value 2})}{\text{Value 1} + \text{Value 2}} \times 100\%$$

Comments: RPD's of Sample & Sample Dup< 50%.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

11. ANALYTE IDENTIFICATION

Evaluate the ion profiles for the sample analytes and compare them to the library ion profiles provided by the laboratory. Note any identifications which are not sufficiently supported by comparison to known ion profiles.

Comments: Analyte identification is acceptable.

12. ANALYTE QUANTITATION

Confirm that analyte quantitation was performed correctly using the following formulas:

EPA 8260B, water samples:

$$ug/L = \frac{(\text{analyte area})(\text{amount of internal standard, ng})}{(\text{internal standard area})(RF)(\text{volume of water purged, mL})}$$

EPA 8260B, soil samples:

$$ug/kg = \frac{(\text{analyte area})(\text{amount of internal standard, ng})}{(\text{internal standard area})(RF)(\text{weight of soil extracted, g})(\text{fraction solids})}$$

EPA 8270C, water samples:

$$ug/L = \frac{(\text{analyte area})(\text{amount of internal standard, ng})(\text{total volume of extract, uL})}{(\text{internal standard area})(RF)(\text{volume of sample extracted, mL})(\text{injection volume, uL})}$$

EPA 8270C, soil samples:

$$ug/kg = \frac{(\text{analyte area})(\text{amount of internal standard, ng})(\text{total volume of extract, uL})}{(\text{internal standard area})(RF)(\text{weight of sample extracted, g})(\text{fraction solids})(\text{injection volume, uL})}$$

Comments: Analyte quantitation is acceptable.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

13. OVERALL ASSESSMENT OF DATA

On the basis of this review, the following determination has been made with regard to the overall data usability for the specified level.

__X__ Acceptable
_____ Acceptable with Qualification
_____ Rejected

Accepted data meet the minimum requirements for the following EPA data category:
_____ ERS Screening
_____ Non-definitive with 10 % Conformation by Definitive Methodology
_____ Definitive, Comprehensive Statistical Error Determination was performed.
__X__ Definitive, Comprehensive Statistical Error Determination was not performed.

Any qualifications to individual sample analysis results are detailed in the appropriate section above or appear under the comments section below. In cases where several QC criteria are out of specification, it may be appropriate to further qualify the data usability. The data reviewer must use professional judgment and express concerns and comments on the data validity for each specific data package.

Comments: Data as reported is valid.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

14. USABILITY OF DATA

A. These data are considered usable for the following the data use objectives stated in the ***DC METALS SITE, OAKLAND, CALIFORNIA, FIELD SAMPLING PLAN AND QUALITY ASSURANCE PROJECT PLAN (SAP), AUGUST 1999.***

The following data use objectives were indicated in the ***SAP:***

TO DETERMINE WHETHER AIR EXHAUST SYSTEMS SHOULD BE INSTALLED IN RESIDENTIAL CRAWLSPACES.

TO DETERMINE THE VOLUME OF SOIL THAT NEEDS TO BE ADDRESSED FOR REMOVAL AND/OR REMEDIATION.

TO PROVIDE INITIAL DATA NECESSARY TO BEGIN A HAZARD RANKING SYSTEM PACKAGE FOR THE SITE.

TO DETERMINE WHETHER FURTHER SITE CHARACTERIZATION IS NECESSARY.

THE DATA ARE USABLE FOR THE ABOVE OBJECTIVES.

B. These data meet quality objectives stated in the ***SAP.***

AS INDICATED IN SECTION 3.5.2 OF THE SAP, THE INVESTIGATION WILL GENERATE DEFINITIVE DATA AND TABLE 3-2 OF THE SAP OUTLINES THE DATA QUALITY INDICATOR GOALS APPLICABLE TO THE DEFINITIVE DATA QUALITY LEVEL. THE DATA IN THIS PACKAGE MEET THESE REQUIREMENTS.

15. DOCUMENTATION OF LABORATORY CORRECTIVE

Problem: No problems requiring corrective action were found.

Resolution: Not required.

ANALYTICAL DATA REVIEW SUMMARY

Site Name: DC Metals	Location: Oakland, California
Project TDD Number: 09-97-12-0005	PAN: 09-0256-DCST-XX

APPENDIX A. ANNOTATED DATA SUMMARY SHEETS

Attached are copies of all data summary sheets, with data qualifiers indicated (hand-annotated), and a copy of the chains of custody for the samples.

When appropriate, the practical quantitation limits have been adjusted to reflect the qualifications noted during the data validation. Errors in the reporting of detected results will not usually be changed by hand. In these cases, the laboratory may be required to re-submit the affected data summary sheets and any associated portions of the data package.

The following data validation qualifiers may be used in this review. Their definitions are taken from the EPA OSWER directive, *Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan and Data Validation Procedures* (EPA/540/G-90/004, OSWER Directive 9360.4-01, dated April 1990).

J The associated numerical value is an estimated quantity because the reported concentrations were less than the required practical quantitation limits or because quality control criteria were not met.

R The sample results are rejected (analyte may or may not be present) due to gross deficiencies in quality control criteria. Any reported value is unusable. Resampling and/or reanalysis is necessary for verification.

U The material was analyzed for, but not detected. The associated numerical value is the sample practical quantitation limit or adjusted sample practical quantitation limit.

UJ The material was analyzed for, but not detected. The reported practical quantitation limit is estimated because quality control criteria were not met.

NJ Presumptive evidence of the presence of the material (tentatively identified compound) at an estimated quantity.

5094-00169

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-118	Diln Fac:	0.9434
Lab ID:	145296-002	Batch#:	55525
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 17%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.7
Acetone	ND	23
Freon 113	ND	5.7
1,1-Dichloroethene	ND	5.7
Methylene Chloride	32	23
Carbon Disulfide	ND	5.7
MTBE	ND	5.7
trans-1,2-Dichloroethene	ND	5.7
Vinyl Acetate	ND	57
1,1-Dichloroethane	ND	5.7
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.7
2,2-Dichloropropane	ND	5.7
Chloroform	ND	5.7
Bromochloromethane	ND	5.7
1,1,1-Trichloroethane	ND	5.7
1,1-Dichloropropene	ND	5.7
Carbon Tetrachloride	ND	5.7
1,2-Dichloroethane	ND	5.7
Benzene	ND	5.7
Trichloroethene	ND	5.7
1,2-Dichloropropane	ND	5.7
Bromodichloromethane	ND	5.7
Dibromomethane	ND	5.7
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.7
Toluene	ND	5.7
trans-1,3-Dichloropropene	ND	5.7
1,1,2-Trichloroethane	ND	5.7
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.7
Tetrachloroethene	ND	5.7
Dibromochloromethane	ND	5.7
1,2-Dibromoethane	ND	5.7
Chlorobenzene	ND	5.7
1,1,1,2-Tetrachloroethane	ND	5.7
Ethylbenzene	ND	5.7
m,p-Xylenes	ND	5.7
o-Xylene	ND	5.7
Styrene	ND	5.7
Bromoform	ND	5.7
Isopropylbenzene	ND	5.7
1,1,2,2-Tetrachloroethane	ND	5.7
1,2,3-Trichloropropane	ND	5.7
Propylbenzene	ND	5.7
Bromobenzene	ND	5.7
1,3,5-Trimethylbenzene	ND	5.7
2-Chlorotoluene	ND	5.7

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-118	Diln Fac:	0.9434
Lab ID:	145296-002	Batch#:	55525
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	ND	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	ND	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	100	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-117	Diln Fac:	1.000
Lab ID:	145296-001	Batch#:	55525
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 13%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.7
Acetone	ND	23
Freon 113	ND	5.7
1,1-Dichloroethene	ND	5.7
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.7
MTBE	ND	5.7
trans-1,2-Dichloroethene	ND	5.7
Vinyl Acetate	ND	57
1,1-Dichloroethane	ND	5.7
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.7
2,2-Dichloropropane	ND	5.7
Chloroform	ND	5.7
Bromochloromethane	ND	5.7
1,1,1-Trichloroethane	ND	5.7
1,1-Dichloropropene	ND	5.7
Carbon Tetrachloride	ND	5.7
1,2-Dichloroethane	ND	5.7
Benzene	ND	5.7
Trichloroethene	ND	5.7
1,2-Dichloropropane	ND	5.7
Bromodichloromethane	ND	5.7
Dibromomethane	ND	5.7
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.7
Toluene	ND	5.7
trans-1,3-Dichloropropene	ND	5.7
1,1,2-Trichloroethane	ND	5.7
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.7
Tetrachloroethene	ND	5.7
Dibromochloromethane	ND	5.7
1,2-Dibromoethane	ND	5.7
Chlorobenzene	ND	5.7
1,1,1,2-Tetrachloroethane	ND	5.7
Ethylbenzene	ND	5.7
m,p-Xylenes	ND	5.7
o-Xylene	ND	5.7
Styrene	ND	5.7
Bromoform	ND	5.7
Isopropylbenzene	ND	5.7
1,1,2,2-Tetrachloroethane	ND	5.7
1,2,3-Trichloropropane	ND	5.7
Propylbenzene	ND	5.7
Bromobenzene	ND	5.7
1,3,5-Trimethylbenzene	ND	5.7
2-Chlorotoluene	ND	5.7

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-117	Diln Fac:	1.000
Lab ID:	145296-001	Batch#:	55525
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	ND	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	ND	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%REC	Limits
Dibromofluoromethane	103	63-133
1,2-Dichloroethane-d4	103	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	100	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-120	Diln Fac:	0.9804
Lab ID:	145296-004	Batch#:	55525
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 13%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.6
Acetone	ND	23
Freon 113	ND	5.6
1,1-Dichloroethene	ND	5.6
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.6
MTBE	ND	5.6
trans-1,2-Dichloroethene	ND	5.6
Vinyl Acetate	ND	56
1,1-Dichloroethane	ND	5.6
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.6
2,2-Dichloropropane	ND	5.6
Chloroform	ND	5.6
Bromochloromethane	ND	5.6
1,1,1-Trichloroethane	ND	5.6
1,1-Dichloropropene	ND	5.6
Carbon Tetrachloride	ND	5.6
1,2-Dichloroethane	ND	5.6
Benzene	ND	5.6
Trichloroethene	ND	5.6
1,2-Dichloropropane	ND	5.6
Bromodichloromethane	ND	5.6
Dibromomethane	ND	5.6
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.6
Toluene	ND	5.6
trans-1,3-Dichloropropene	ND	5.6
1,1,2-Trichloroethane	ND	5.6
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.6
Tetrachloroethene	ND	5.6
Dibromochloromethane	ND	5.6
1,2-Dibromoethane	ND	5.6
Chlorobenzene	ND	5.6
1,1,1,2-Tetrachloroethane	ND	5.6
Ethylbenzene	ND	5.6
m,p-Xylenes	ND	5.6
o-Xylene	ND	5.6
Styrene	ND	5.6
Bromoform	ND	5.6
Isopropylbenzene	ND	5.6
1,1,2,2-Tetrachloroethane	ND	5.6
1,2,3-Trichloropropane	ND	5.6
Propylbenzene	ND	5.6
Bromobenzene	ND	5.6
1,3,5-Trimethylbenzene	ND	5.6
2-Chlorotoluene	ND	5.6

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-120	Diln Fac:	0.9804
Lab ID:	145296-004	Batch#:	55525
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.6
tert-Butylbenzene	ND	5.6
1,2,4-Trimethylbenzene	ND	5.6
sec-Butylbenzene	ND	5.6
para-Isopropyl Toluene	ND	5.6
1,3-Dichlorobenzene	ND	5.6
1,4-Dichlorobenzene	ND	5.6
n-Butylbenzene	ND	5.6
1,2-Dichlorobenzene	ND	5.6
1,2-Dibromo-3-Chloropropane	ND	5.6
1,2,4-Trichlorobenzene	ND	5.6
Hexachlorobutadiene	ND	5.6
Naphthalene	ND	5.6
1,2,3-Trichlorobenzene	ND	5.6

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	100	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-121	Diln Fac:	0.9615
Lab ID:	145296-005	Batch#:	55548
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 25%

Analyte	Result	RL
Freon 12	ND	13
Chloromethane	ND	13
Vinyl Chloride	ND	13
Bromomethane	ND	13
Chloroethane	ND	13
Trichlorofluoromethane	ND	6.4
Acetone	ND	26
Freon 113	ND	6.4
1,1-Dichloroethene	ND	6.4
Methylene Chloride	50	26
Carbon Disulfide	ND	6.4
MTBE	ND	6.4
trans-1,2-Dichloroethene	ND	6.4
Vinyl Acetate	ND	64
1,1-Dichloroethane	ND	6.4
2-Butanone	ND	13
cis-1,2-Dichloroethene	ND	6.4
2,2-Dichloropropane	ND	6.4
Chloroform	ND	6.4
Bromochloromethane	ND	6.4
1,1,1-Trichloroethane	ND	6.4
1,1-Dichloropropene	ND	6.4
Carbon Tetrachloride	ND	6.4
1,2-Dichloroethane	ND	6.4
Benzene	ND	6.4
Trichloroethene	ND	6.4
1,2-Dichloropropane	ND	6.4
Bromodichloromethane	ND	6.4
Dibromomethane	ND	6.4
4-Methyl-2-Pentanone	ND	13
cis-1,3-Dichloropropene	ND	6.4
Toluene	ND	6.4
trans-1,3-Dichloropropene	ND	6.4
1,1,2-Trichloroethane	ND	6.4
2-Hexanone	ND	13
1,3-Dichloropropane	ND	6.4
Tetrachloroethene	ND	6.4
Dibromochloromethane	ND	6.4
1,2-Dibromoethane	ND	6.4
Chlorobenzene	ND	6.4
1,1,1,2-Tetrachloroethane	ND	6.4
Ethylbenzene	ND	6.4
m,p-Xylenes	ND	6.4
o-Xylene	ND	6.4
Styrene	ND	6.4
Bromoform	ND	6.4
Isopropylbenzene	ND	6.4
1,1,2,2-Tetrachloroethane	ND	6.4
1,2,3-Trichloropropane	ND	6.4
Propylbenzene	ND	6.4
Bromobenzene	ND	6.4
1,3,5-Trimethylbenzene	ND	6.4
2-Chlorotoluene	ND	6.4

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-121	Diln Fac:	0.9615
Lab ID:	145296-005	Batch#:	55548
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
4-Chlorotoluene	ND	6.4
tert-Butylbenzene	ND	6.4
1,2,4-Trimethylbenzene	ND	6.4
sec-Butylbenzene	ND	6.4
para-Isopropyl Toluene	ND	6.4
1,3-Dichlorobenzene	ND	6.4
1,4-Dichlorobenzene	ND	6.4
n-Butylbenzene	ND	6.4
1,2-Dichlorobenzene	ND	6.4
1,2-Dibromo-3-Chloropropane	ND	6.4
1,2,4-Trichlorobenzene	ND	6.4
Hexachlorobutadiene	ND	6.4
Naphthalene	ND	6.4
1,2,3-Trichlorobenzene	ND	6.4

Surrogate	%REC	Limits
Dibromofluoromethane	106	63-133
1,2-Dichloroethane-d4	107	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	104	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-119	Diln Fac:	1.020
Lab ID:	145296-003	Batch#:	55525
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 39%

Analyte	Result	RL
Freon 12	ND	17
Chloromethane	ND	17
Vinyl Chloride	ND	17
Bromomethane	ND	17
Chloroethane	ND	17
Trichlorofluoromethane	ND	8.4
Acetone	ND	33
Freon 113	ND	8.4
1,1-Dichloroethene	ND	8.4
Methylene Chloride	150	33
Carbon Disulfide	ND	8.4
MTBE	ND	8.4
trans-1,2-Dichloroethene	ND	8.4
Vinyl Acetate	ND	84
1,1-Dichloroethane	ND	8.4
2-Butanone	ND	17
cis-1,2-Dichloroethene	ND	8.4
2,2-Dichloropropane	ND	8.4
Chloroform	ND	8.4
Bromochloromethane	ND	8.4
1,1,1-Trichloroethane	ND	8.4
1,1-Dichloropropene	ND	8.4
Carbon Tetrachloride	ND	8.4
1,2-Dichloroethane	ND	8.4
Benzene	ND	8.4
Trichloroethene	ND	8.4
1,2-Dichloropropane	ND	8.4
Bromodichloromethane	ND	8.4
Dibromomethane	ND	8.4
4-Methyl-2-Pentanone	ND	17
cis-1,3-Dichloropropene	ND	8.4
Toluene	ND	8.4
trans-1,3-Dichloropropene	ND	8.4
1,1,2-Trichloroethane	ND	8.4
2-Hexanone	ND	17
1,3-Dichloropropane	ND	8.4
Tetrachloroethene	ND	8.4
Dibromochloromethane	ND	8.4
1,2-Dibromoethane	ND	8.4
Chlorobenzene	ND	8.4
1,1,1,2-Tetrachloroethane	ND	8.4
Ethylbenzene	ND	8.4
m,p-Xylenes	ND	8.4
o-Xylene	ND	8.4
Styrene	ND	8.4
Bromoform	ND	8.4
Isopropylbenzene	ND	8.4
1,1,2,2-Tetrachloroethane	ND	8.4
1,2,3-Trichloropropane	ND	8.4
Propylbenzene	ND	8.4
Bromobenzene	ND	8.4
1,3,5-Trimethylbenzene	ND	8.4
2-Chlorotoluene	ND	8.4

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-119	Diln Fac:	1.020
Lab ID:	145296-003	Batch#:	55525
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
4-Chlorotoluene	ND	8.4
tert-Butylbenzene	ND	8.4
1,2,4-Trimethylbenzene	ND	8.4
sec-Butylbenzene	ND	8.4
para-Isopropyl Toluene	ND	8.4
1,3-Dichlorobenzene	ND	8.4
1,4-Dichlorobenzene	ND	8.4
n-Butylbenzene	ND	8.4
1,2-Dichlorobenzene	ND	8.4
1,2-Dibromo-3-Chloropropane	ND	8.4
1,2,4-Trichlorobenzene	ND	8.4
Hexachlorobutadiene	ND	8.4
Naphthalene	ND	8.4
1,2,3-Trichlorobenzene	ND	8.4

Surrogate	%REC	Limits
Dibromofluoromethane	103	63-133
1,2-Dichloroethane-d4	102	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	100	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-122	Diln Fac:	0.9434
Lab ID:	145296-006	Batch#:	55548
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 23%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	6.1
Acetone	ND	25
Freon 113	ND	6.1
1,1-Dichloroethene	ND	6.1
Methylene Chloride	ND	25
Carbon Disulfide	ND	6.1
MTBE	ND	6.1
trans-1,2-Dichloroethene	ND	6.1
Vinyl Acetate	ND	61
1,1-Dichloroethane	ND	6.1
2-Butanone	ND	12
cis-1,2-Dichloroethene	ND	6.1
2,2-Dichloropropane	ND	6.1
Chloroform	ND	6.1
Bromochloromethane	ND	6.1
1,1,1-Trichloroethane	ND	6.1
1,1-Dichloropropene	ND	6.1
Carbon Tetrachloride	ND	6.1
1,2-Dichloroethane	ND	6.1
Benzene	ND	6.1
Trichloroethene	ND	6.1
1,2-Dichloropropane	ND	6.1
Bromodichloromethane	ND	6.1
Dibromomethane	ND	6.1
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	6.1
Toluene	ND	6.1
trans-1,3-Dichloropropene	ND	6.1
1,1,2-Trichloroethane	ND	6.1
2-Hexanone	ND	12
1,3-Dichloropropane	ND	6.1
Tetrachloroethene	ND	6.1
Dibromochloromethane	ND	6.1
1,2-Dibromoethane	ND	6.1
Chlorobenzene	ND	6.1
1,1,1,2-Tetrachloroethane	ND	6.1
Ethylbenzene	ND	6.1
m,p-Xylenes	ND	6.1
o-Xylene	ND	6.1
Styrene	ND	6.1
Bromoform	ND	6.1
Isopropylbenzene	ND	6.1
1,1,2,2-Tetrachloroethane	ND	6.1
1,2,3-Trichloropropane	ND	6.1
Propylbenzene	ND	6.1
Bromobenzene	ND	6.1
1,3,5-Trimethylbenzene	ND	6.1
2-Chlorotoluene	ND	6.1

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-122	Diln Fac:	0.9434
Lab ID:	145296-006	Batch#:	55548
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
4-Chlorotoluene	ND	6.1
tert-Butylbenzene	ND	6.1
1,2,4-Trimethylbenzene	ND	6.1
sec-Butylbenzene	ND	6.1
para-Isopropyl Toluene	ND	6.1
1,3-Dichlorobenzene	ND	6.1
1,4-Dichlorobenzene	ND	6.1
n-Butylbenzene	ND	6.1
1,2-Dichlorobenzene	ND	6.1
1,2-Dibromo-3-Chloropropane	ND	6.1
1,2,4-Trichlorobenzene	ND	6.1
Hexachlorobutadiene	ND	6.1
Naphthalene	ND	6.1
1,2,3-Trichlorobenzene	ND	6.1

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	101	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-126	Diln Fac:	0.9615
Lab ID:	145296-007	Batch#:	55548
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 23%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	6.2
Acetone	ND	25
Freon 113	ND	6.2
1,1-Dichloroethene	ND	6.2
Methylene Chloride	ND	25
Carbon Disulfide	ND	6.2
MTBE	ND	6.2
trans-1,2-Dichloroethene	ND	6.2
Vinyl Acetate	ND	62
1,1-Dichloroethane	ND	6.2
2-Butanone	ND	12
cis-1,2-Dichloroethene	ND	6.2
2,2-Dichloropropane	ND	6.2
Chloroform	ND	6.2
Bromochloromethane	ND	6.2
1,1,1-Trichloroethane	ND	6.2
1,1-Dichloropropene	ND	6.2
Carbon Tetrachloride	ND	6.2
1,2-Dichloroethane	ND	6.2
Benzene	ND	6.2
Trichloroethene	ND	6.2
1,2-Dichloropropane	ND	6.2
Bromodichloromethane	ND	6.2
Dibromomethane	ND	6.2
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	6.2
Toluene	ND	6.2
trans-1,3-Dichloropropene	ND	6.2
1,1,2-Trichloroethane	ND	6.2
2-Hexanone	ND	12
1,3-Dichloropropane	ND	6.2
Tetrachloroethene	ND	6.2
Dibromochloromethane	ND	6.2
1,2-Dibromoethane	ND	6.2
Chlorobenzene	ND	6.2
1,1,1,2-Tetrachloroethane	ND	6.2
Ethylbenzene	ND	6.2
m,p-Xylenes	ND	6.2
o-Xylene	ND	6.2
Styrene	ND	6.2
Bromoform	ND	6.2
Isopropylbenzene	ND	6.2
1,1,2,2-Tetrachloroethane	ND	6.2
1,2,3-Trichloropropane	ND	6.2
Propylbenzene	ND	6.2
Bromobenzene	ND	6.2
1,3,5-Trimethylbenzene	ND	6.2
2-Chlorotoluene	ND	6.2

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-126	Diln Fac:	0.9615
Lab ID:	145296-007	Batch#:	55548
Matrix:	Soil	Sampled:	04/24/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
4-Chlorotoluene	ND	6.2
tert-Butylbenzene	ND	6.2
1,2,4-Trimethylbenzene	ND	6.2
sec-Butylbenzene	ND	6.2
para-Isopropyl Toluene	ND	6.2
1,3-Dichlorobenzene	ND	6.2
1,4-Dichlorobenzene	ND	6.2
n-Butylbenzene	ND	6.2
1,2-Dichlorobenzene	ND	6.2
1,2-Dibromo-3-Chloropropane	ND	6.2
1,2,4-Trichlorobenzene	ND	6.2
Hexachlorobutadiene	ND	6.2
Naphthalene	ND	6.2
1,2,3-Trichlorobenzene	ND	6.2

Surrogate	%REC	Limits
Dibromofluoromethane	107	63-133
1,2-Dichloroethane-d4	107	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	99	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-5	Diln Fac:	1.000
Lab ID:	145296-008	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 14%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	5.8
Acetone	34	23
Freon 113	ND	5.8
1,1-Dichloroethene	ND	5.8
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.8
MTBE	4.2 J	5.8
trans-1,2-Dichloroethene	ND	5.8
Vinyl Acetate	ND	58
1,1-Dichloroethane	ND	5.8
2-Butanone	ND	12
cis-1,2-Dichloroethene	ND	5.8
2,2-Dichloropropane	ND	5.8
Chloroform	ND	5.8
Bromochloromethane	ND	5.8
1,1,1-Trichloroethane	ND	5.8
1,1-Dichloropropene	ND	5.8
Carbon Tetrachloride	ND	5.8
1,2-Dichloroethane	ND	5.8
Benzene	ND	5.8
Trichloroethene	ND	5.8
1,2-Dichloropropane	ND	5.8
Bromodichloromethane	ND	5.8
Dibromomethane	ND	5.8
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	5.8
Toluene	ND	5.8
trans-1,3-Dichloropropene	ND	5.8
1,1,2-Trichloroethane	ND	5.8
2-Hexanone	ND	12
1,3-Dichloropropane	ND	5.8
Tetrachloroethene	ND	5.8
Dibromochloromethane	ND	5.8
1,2-Dibromoethane	ND	5.8
Chlorobenzene	ND	5.8
1,1,1,2-Tetrachloroethane	ND	5.8
Ethylbenzene	ND	5.8
m,p-Xylenes	ND	5.8
o-Xylene	ND	5.8
Styrene	ND	5.8
Bromoform	ND	5.8
Isopropylbenzene	ND	5.8
1,1,2,2-Tetrachloroethane	ND	5.8
1,2,3-Trichloropropane	ND	5.8
Propylbenzene	ND	5.8
Bromobenzene	ND	5.8
1,3,5-Trimethylbenzene	ND	5.8

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-5	Diln Fac:	1.000
Lab ID:	145296-008	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.8
4-Chlorotoluene	ND	5.8
tert-Butylbenzene	ND	5.8
1,2,4-Trimethylbenzene	ND	5.8
sec-Butylbenzene	ND	5.8
para-Isopropyl Toluene	ND	5.8
1,3-Dichlorobenzene	ND	5.8
1,4-Dichlorobenzene	ND	5.8
n-Butylbenzene	ND	5.8
1,2-Dichlorobenzene	ND	5.8
1,2-Dibromo-3-Chloropropane	ND	5.8
1,2,4-Trichlorobenzene	ND	5.8
Hexachlorobutadiene	ND	5.8
Naphthalene	ND	5.8
1,2,3-Trichlorobenzene	ND	5.8

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	99	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-10	Diln Fac:	1.000
Lab ID:	145296-009	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 13%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.7
Acetone	58	23
Freon 113	ND	5.7
1,1-Dichloroethene	ND	5.7
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.7
MTBE	8.1	5.7
trans-1,2-Dichloroethene	ND	5.7
Vinyl Acetate	ND	57
1,1-Dichloroethane	ND	5.7
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.7
2,2-Dichloropropane	ND	5.7
Chloroform	ND	5.7
Bromochloromethane	ND	5.7
1,1,1-Trichloroethane	ND	5.7
1,1-Dichloropropene	ND	5.7
Carbon Tetrachloride	ND	5.7
1,2-Dichloroethane	ND	5.7
Benzene	ND	5.7
Trichloroethene	ND	5.7
1,2-Dichloropropane	ND	5.7
Bromodichloromethane	ND	5.7
Dibromomethane	ND	5.7
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.7
Toluene	ND	5.7
trans-1,3-Dichloropropene	ND	5.7
1,1,2-Trichloroethane	ND	5.7
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.7
Tetrachloroethene	ND	5.7
Dibromochloromethane	ND	5.7
1,2-Dibromoethane	ND	5.7
Chlorobenzene	ND	5.7
1,1,1,2-Tetrachloroethane	ND	5.7
Ethylbenzene	ND	5.7
m,p-Xylenes	ND	5.7
o-Xylene	ND	5.7
Styrene	ND	5.7
Bromoform	ND	5.7
Isopropylbenzene	ND	5.7
1,1,2,2-Tetrachloroethane	ND	5.7
1,2,3-Trichloropropane	ND	5.7
Propylbenzene	ND	5.7
Bromobenzene	ND	5.7
1,3,5-Trimethylbenzene	ND	5.7
2-Chlorotoluene	ND	5.7

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-10	Diln Fac:	1.000
Lab ID:	145296-009	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	ND	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	ND	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%REC	Limits
Dibromofluoromethane	107	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	99	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-15	Diln Fac:	0.9615
Lab ID:	145296-010	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 15%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.7
Acetone	42	23
Freon 113	ND	5.7
1,1-Dichloroethene	ND	5.7
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.7
MTBE	6.4	5.7
trans-1,2-Dichloroethene	ND	5.7
Vinyl Acetate	ND	57
1,1-Dichloroethane	ND	5.7
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.7
2,2-Dichloropropane	ND	5.7
Chloroform	ND	5.7
Bromochloromethane	ND	5.7
1,1,1-Trichloroethane	ND	5.7
1,1-Dichloropropene	ND	5.7
Carbon Tetrachloride	ND	5.7
1,2-Dichloroethane	ND	5.7
Benzene	ND	5.7
Trichloroethene	ND	5.7
1,2-Dichloropropane	ND	5.7
Bromodichloromethane	ND	5.7
Dibromomethane	ND	5.7
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.7
Toluene	ND	5.7
trans-1,3-Dichloropropene	ND	5.7
1,1,2-Trichloroethane	ND	5.7
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.7
Tetrachloroethene	ND	5.7
Dibromochloromethane	ND	5.7
1,2-Dibromoethane	ND	5.7
Chlorobenzene	ND	5.7
1,1,1,2-Tetrachloroethane	ND	5.7
Ethylbenzene	ND	5.7
m,p-Xylenes	ND	5.7
o-Xylene	ND	5.7
Styrene	ND	5.7
Bromoform	ND	5.7
Isopropylbenzene	ND	5.7
1,1,2,2-Tetrachloroethane	ND	5.7
1,2,3-Trichloropropane	ND	5.7
Propylbenzene	ND	5.7
Bromobenzene	ND	5.7
1,3,5-Trimethylbenzene	ND	5.7
2-Chlorotoluene	ND	5.7

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-15	Diln Fac:	0.9615
Lab ID:	145296-010	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	ND	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	ND	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	100	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-20	Diln Fac:	1.020
Lab ID:	145296-011	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 13%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	5.9
Acetone	33	23
Freon 113	ND	5.9
1,1-Dichloroethene	ND	5.9
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.9
MTBE	3.8 J	5.9
trans-1,2-Dichloroethene	ND	5.9
Vinyl Acetate	ND	59
1,1-Dichloroethane	ND	5.9
2-Butanone	ND	12
cis-1,2-Dichloroethene	ND	5.9
2,2-Dichloropropane	ND	5.9
Chloroform	ND	5.9
Bromochloromethane	ND	5.9
1,1,1-Trichloroethane	ND	5.9
1,1-Dichloropropene	ND	5.9
Carbon Tetrachloride	ND	5.9
1,2-Dichloroethane	ND	5.9
Benzene	ND	5.9
Trichloroethene	ND	5.9
1,2-Dichloropropane	ND	5.9
Bromodichloromethane	ND	5.9
Dibromomethane	ND	5.9
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	5.9
Toluene	ND	5.9
trans-1,3-Dichloropropene	ND	5.9
1,1,2-Trichloroethane	ND	5.9
2-Hexanone	ND	12
1,3-Dichloropropane	ND	5.9
Tetrachloroethene	ND	5.9
Dibromochloromethane	ND	5.9
1,2-Dibromoethane	ND	5.9
Chlorobenzene	ND	5.9
1,1,1,2-Tetrachloroethane	ND	5.9
Ethylbenzene	ND	5.9
m,p-Xylenes	ND	5.9
o-Xylene	ND	5.9
Styrene	ND	5.9
Bromoform	ND	5.9
Isopropylbenzene	ND	5.9
1,1,2,2-Tetrachloroethane	ND	5.9
1,2,3-Trichloropropane	ND	5.9
Propylbenzene	ND	5.9
Bromobenzene	ND	5.9
1,3,5-Trimethylbenzene	ND	5.9

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-20	Diln Fac:	1.020
Lab ID:	145296-011	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.9
4-Chlorotoluene	ND	5.9
tert-Butylbenzene	ND	5.9
1,2,4-Trimethylbenzene	ND	5.9
sec-Butylbenzene	ND	5.9
para-Isopropyl Toluene	ND	5.9
1,3-Dichlorobenzene	ND	5.9
1,4-Dichlorobenzene	ND	5.9
n-Butylbenzene	ND	5.9
1,2-Dichlorobenzene	ND	5.9
1,2-Dibromo-3-Chloropropane	ND	5.9
1,2,4-Trichlorobenzene	ND	5.9
Hexachlorobutadiene	ND	5.9
Naphthalene	ND	5.9
1,2,3-Trichlorobenzene	ND	5.9

Surrogate	%REC	Limits
Dibromofluoromethane	106	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	98	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-25	Diln Fac:	1.020
Lab ID:	145296-012	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 17%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	6.1
Acetone	29	25
Freon 113	ND	6.1
1,1-Dichloroethene	ND	6.1
Methylene Chloride	ND	25
Carbon Disulfide	ND	6.1
MTBE	3.3 J	6.1
trans-1,2-Dichloroethene	ND	6.1
Vinyl Acetate	ND	61
1,1-Dichloroethane	ND	6.1
2-Butanone	ND	12
cis-1,2-Dichloroethene	ND	6.1
2,2-Dichloropropane	ND	6.1
Chloroform	ND	6.1
Bromochloromethane	ND	6.1
1,1,1-Trichloroethane	ND	6.1
1,1-Dichloropropene	ND	6.1
Carbon Tetrachloride	ND	6.1
1,2-Dichloroethane	ND	6.1
Benzene	ND	6.1
Trichloroethene	ND	6.1
1,2-Dichloropropane	ND	6.1
Bromodichloromethane	ND	6.1
Dibromomethane	ND	6.1
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	6.1
Toluene	ND	6.1
trans-1,3-Dichloropropene	ND	6.1
1,1,2-Trichloroethane	ND	6.1
2-Hexanone	ND	12
1,3-Dichloropropane	ND	6.1
Tetrachloroethene	ND	6.1
Dibromochloromethane	ND	6.1
1,2-Dibromoethane	ND	6.1
Chlorobenzene	ND	6.1
1,1,1,2-Tetrachloroethane	ND	6.1
Ethylbenzene	ND	6.1
m,p-Xylenes	ND	6.1
o-Xylene	ND	6.1
Styrene	ND	6.1
Bromoform	ND	6.1
Isopropylbenzene	ND	6.1
1,1,2,2-Tetrachloroethane	ND	6.1
1,2,3-Trichloropropane	ND	6.1
Propylbenzene	ND	6.1
Bromobenzene	ND	6.1
1,3,5-Trimethylbenzene	ND	6.1

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-25	Diln Fac:	1.020
Lab ID:	145296-012	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
2-Chlorotoluene	ND	6.1
4-Chlorotoluene	ND	6.1
tert-Butylbenzene	ND	6.1
1,2,4-Trimethylbenzene	ND	6.1
sec-Butylbenzene	ND	6.1
para-Isopropyl Toluene	ND	6.1
1,3-Dichlorobenzene	ND	6.1
1,4-Dichlorobenzene	ND	6.1
n-Butylbenzene	ND	6.1
1,2-Dichlorobenzene	ND	6.1
1,2-Dibromo-3-Chloropropane	ND	6.1
1,2,4-Trichlorobenzene	ND	6.1
Hexachlorobutadiene	ND	6.1
Naphthalene	ND	6.1
1,2,3-Trichlorobenzene	ND	6.1

Surrogate	%REC	Limits
Dibromofluoromethane	106	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	100	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-30	Diln Fac:	0.9259
Lab ID:	145296-013	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 14%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.4
Acetone	ND	22
Freon 113	ND	5.4
1,1-Dichloroethene	ND	5.4
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.4
MTBE	ND	5.4
trans-1,2-Dichloroethene	ND	5.4
Vinyl Acetate	ND	54
1,1-Dichloroethane	ND	5.4
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.4
2,2-Dichloropropane	ND	5.4
Chloroform	ND	5.4
Bromochloromethane	ND	5.4
1,1,1-Trichloroethane	ND	5.4
1,1-Dichloropropene	ND	5.4
Carbon Tetrachloride	ND	5.4
1,2-Dichloroethane	ND	5.4
Benzene	ND	5.4
Trichloroethene	ND	5.4
1,2-Dichloropropane	ND	5.4
Bromodichloromethane	ND	5.4
Dibromomethane	ND	5.4
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.4
Toluene	ND	5.4
trans-1,3-Dichloropropene	ND	5.4
1,1,2-Trichloroethane	ND	5.4
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.4
Tetrachloroethene	ND	5.4
Dibromochloromethane	ND	5.4
1,2-Dibromoethane	ND	5.4
Chlorobenzene	ND	5.4
1,1,1,2-Tetrachloroethane	ND	5.4
Ethylbenzene	ND	5.4
m,p-Xylenes	ND	5.4
o-Xylene	ND	5.4
Styrene	ND	5.4
Bromoform	ND	5.4
Isopropylbenzene	ND	5.4
1,1,2,2-Tetrachloroethane	ND	5.4
1,2,3-Trichloropropane	ND	5.4
Propylbenzene	ND	5.4
Bromobenzene	ND	5.4
1,3,5-Trimethylbenzene	ND	5.4
2-Chlorotoluene	ND	5.4

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-30	Diln Fac:	0.9259
Lab ID:	145296-013	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.4
tert-Butylbenzene	ND	5.4
1,2,4-Trimethylbenzene	ND	5.4
sec-Butylbenzene	ND	5.4
para-Isopropyl Toluene	ND	5.4
1,3-Dichlorobenzene	ND	5.4
1,4-Dichlorobenzene	ND	5.4
n-Butylbenzene	ND	5.4
1,2-Dichlorobenzene	ND	5.4
1,2-Dibromo-3-Chloropropane	ND	5.4
1,2,4-Trichlorobenzene	ND	5.4
Hexachlorobutadiene	ND	5.4
Naphthalene	ND	5.4
1,2,3-Trichlorobenzene	ND	5.4

Surrogate	%REC	Limits
Dibromofluoromethane	108	63-133
1,2-Dichloroethane-d4	108	76-127
Toluene-d8	103	80-111
Bromofluorobenzene	97	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-35	Diln Fac:	1.020
Lab ID:	145296-014	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 17%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	6.1
Acetone	ND	25
Freon 113	ND	6.1
1,1-Dichloroethene	ND	6.1
Methylene Chloride	ND	25
Carbon Disulfide	ND	6.1
MTBE	ND	6.1
trans-1,2-Dichloroethene	ND	6.1
Vinyl Acetate	ND	61
1,1-Dichloroethane	4.7 J	6.1
2-Butanone	ND	12
cis-1,2-Dichloroethene	12	6.1
2,2-Dichloropropane	ND	6.1
Chloroform	ND	6.1
Bromochloromethane	ND	6.1
1,1,1-Trichloroethane	ND	6.1
1,1-Dichloropropene	ND	6.1
Carbon Tetrachloride	ND	6.1
1,2-Dichloroethane	ND	6.1
Benzene	ND	6.1
Trichloroethene	ND	6.1
1,2-Dichloropropane	ND	6.1
Bromodichloromethane	ND	6.1
Dibromomethane	ND	6.1
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	6.1
Toluene	ND	6.1
trans-1,3-Dichloropropene	ND	6.1
1,1,2-Trichloroethane	ND	6.1
2-Hexanone	ND	12
1,3-Dichloropropane	ND	6.1
Tetrachloroethene	ND	6.1
Dibromochloromethane	ND	6.1
1,2-Dibromoethane	ND	6.1
Chlorobenzene	ND	6.1
1,1,1,2-Tetrachloroethane	ND	6.1
Ethylbenzene	ND	6.1
m,p-Xylenes	ND	6.1
o-Xylene	ND	6.1
Styrene	ND	6.1
Bromoform	ND	6.1
Isopropylbenzene	ND	6.1
1,1,2,2-Tetrachloroethane	ND	6.1
1,2,3-Trichloropropane	ND	6.1
Propylbenzene	ND	6.1
Bromobenzene	ND	6.1
1,3,5-Trimethylbenzene	ND	6.1

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-35	Diln Fac:	1.020
Lab ID:	145296-014	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
2-Chlorotoluene	ND	6.1
4-Chlorotoluene	ND	6.1
tert-Butylbenzene	ND	6.1
1,2,4-Trimethylbenzene	ND	6.1
sec-Butylbenzene	ND	6.1
para-Isopropyl Toluene	ND	6.1
1,3-Dichlorobenzene	ND	6.1
1,4-Dichlorobenzene	ND	6.1
n-Butylbenzene	ND	6.1
1,2-Dichlorobenzene	4.6 J	6.1
1,2-Dibromo-3-Chloropropane	ND	6.1
1,2,4-Trichlorobenzene	ND	6.1
Hexachlorobutadiene	ND	6.1
Naphthalene	ND	6.1
1,2,3-Trichlorobenzene	ND	6.1

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	97	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-40	Diln Fac:	0.9434
Lab ID:	145296-015	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 15%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.5
Acetone	32	22
Freon 113	ND	5.5
1,1-Dichloroethene	ND	5.5
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.5
MTBE	3.3 J	5.5
trans-1,2-Dichloroethene	ND	5.5
Vinyl Acetate	ND	55
1,1-Dichloroethane	ND	5.5
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.5
2,2-Dichloropropane	ND	5.5
Chloroform	ND	5.5
Bromochloromethane	ND	5.5
1,1,1-Trichloroethane	ND	5.5
1,1-Dichloropropene	ND	5.5
Carbon Tetrachloride	ND	5.5
1,2-Dichloroethane	ND	5.5
Benzene	ND	5.5
Trichloroethene	ND	5.5
1,2-Dichloropropane	ND	5.5
Bromodichloromethane	ND	5.5
Dibromomethane	ND	5.5
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.5
Toluene	ND	5.5
trans-1,3-Dichloropropene	ND	5.5
1,1,2-Trichloroethane	ND	5.5
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.5
Tetrachloroethene	ND	5.5
Dibromochloromethane	ND	5.5
1,2-Dibromoethane	ND	5.5
Chlorobenzene	ND	5.5
1,1,1,2-Tetrachloroethane	ND	5.5
Ethylbenzene	ND	5.5
m,p-Xylenes	ND	5.5
o-Xylene	ND	5.5
Styrene	ND	5.5
Bromoform	ND	5.5
Isopropylbenzene	ND	5.5
1,1,2,2-Tetrachloroethane	ND	5.5
1,2,3-Trichloropropane	ND	5.5
Propylbenzene	ND	5.5
Bromobenzene	ND	5.5
1,3,5-Trimethylbenzene	ND	5.5

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-110-40	Diln Fac:	0.9434
Lab ID:	145296-015	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.5
4-Chlorotoluene	ND	5.5
tert-Butylbenzene	ND	5.5
1,2,4-Trimethylbenzene	ND	5.5
sec-Butylbenzene	ND	5.5
para-Isopropyl Toluene	ND	5.5
1,3-Dichlorobenzene	ND	5.5
1,4-Dichlorobenzene	ND	5.5
n-Butylbenzene	ND	5.5
1,2-Dichlorobenzene	4.5 J	5.5
1,2-Dibromo-3-Chloropropane	ND	5.5
1,2,4-Trichlorobenzene	ND	5.5
Hexachlorobutadiene	ND	5.5
Naphthalene	ND	5.5
1,2,3-Trichlorobenzene	ND	5.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	99	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-111-15	Diln Fac:	0.9434
Lab ID:	145296-016	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 15%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.5
Acetone	57	22
Freon 113	ND	5.5
1,1-Dichloroethene	ND	5.5
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.5
MTBE	5.5 J	5.5
trans-1,2-Dichloroethene	ND	5.5
Vinyl Acetate	ND	55
1,1-Dichloroethane	ND	5.5
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.5
2,2-Dichloropropane	ND	5.5
Chloroform	ND	5.5
Bromochloromethane	ND	5.5
1,1,1-Trichloroethane	ND	5.5
1,1-Dichloropropene	ND	5.5
Carbon Tetrachloride	ND	5.5
1,2-Dichloroethane	ND	5.5
Benzene	ND	5.5
Trichloroethene	ND	5.5
1,2-Dichloropropane	ND	5.5
Bromodichloromethane	ND	5.5
Dibromomethane	ND	5.5
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.5
Toluene	ND	5.5
trans-1,3-Dichloropropene	ND	5.5
1,1,2-Trichloroethane	ND	5.5
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.5
Tetrachloroethene	ND	5.5
Dibromochloromethane	ND	5.5
1,2-Dibromoethane	ND	5.5
Chlorobenzene	ND	5.5
1,1,1,2-Tetrachloroethane	ND	5.5
Ethylbenzene	ND	5.5
m,p-Xylenes	ND	5.5
o-Xylene	ND	5.5
Styrene	ND	5.5
Bromoform	ND	5.5
Isopropylbenzene	ND	5.5
1,1,2,2-Tetrachloroethane	ND	5.5
1,2,3-Trichloropropane	ND	5.5
Propylbenzene	ND	5.5
Bromobenzene	ND	5.5
1,3,5-Trimethylbenzene	ND	5.5

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-111-15	Diln Fac:	0.9434
Lab ID:	145296-016	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.5
4-Chlorotoluene	ND	5.5
tert-Butylbenzene	ND	5.5
1,2,4-Trimethylbenzene	ND	5.5
sec-Butylbenzene	ND	5.5
para-Isopropyl Toluene	ND	5.5
1,3-Dichlorobenzene	ND	5.5
1,4-Dichlorobenzene	ND	5.5
n-Butylbenzene	ND	5.5
1,2-Dichlorobenzene	ND	5.5
1,2-Dibromo-3-Chloropropane	ND	5.5
1,2,4-Trichlorobenzene	ND	5.5
Hexachlorobutadiene	ND	5.5
Naphthalene	ND	5.5
1,2,3-Trichlorobenzene	ND	5.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	99	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-111-20	Diln Fac:	1.000
Lab ID:	145296-017	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 13%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.7
Acetone	26	23
Freon 113	ND	5.7
1,1-Dichloroethene	ND	5.7
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.7
MTBE	3.6 J	5.7
trans-1,2-Dichloroethene	ND	5.7
Vinyl Acetate	ND	57
1,1-Dichloroethane	ND	5.7
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.7
2,2-Dichloropropane	ND	5.7
Chloroform	ND	5.7
Bromochloromethane	ND	5.7
1,1,1-Trichloroethane	ND	5.7
1,1-Dichloropropene	ND	5.7
Carbon Tetrachloride	ND	5.7
1,2-Dichloroethane	ND	5.7
Benzene	ND	5.7
Trichloroethene	ND	5.7
1,2-Dichloropropane	ND	5.7
Bromodichloromethane	ND	5.7
Dibromomethane	ND	5.7
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.7
Toluene	ND	5.7
trans-1,3-Dichloropropene	ND	5.7
1,1,2-Trichloroethane	ND	5.7
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.7
Tetrachloroethene	ND	5.7
Dibromochloromethane	ND	5.7
1,2-Dibromoethane	ND	5.7
Chlorobenzene	ND	5.7
1,1,1,2-Tetrachloroethane	ND	5.7
Ethylbenzene	ND	5.7
m,p-Xylenes	ND	5.7
o-Xylene	ND	5.7
Styrene	ND	5.7
Bromoform	ND	5.7
Isopropylbenzene	ND	5.7
1,1,2,2-Tetrachloroethane	ND	5.7
1,2,3-Trichloropropane	ND	5.7
Propylbenzene	ND	5.7
Bromobenzene	ND	5.7
1,3,5-Trimethylbenzene	ND	5.7

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-111-20	Diln Fac:	1.000
Lab ID:	145296-017	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.7
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	ND	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	ND	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	99	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-111-25	Diln Fac:	0.9804
Lab ID:	145296-018	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 17%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	5.9
Acetone	ND	24
Freon 113	ND	5.9
1,1-Dichloroethene	ND	5.9
Methylene Chloride	ND	24
Carbon Disulfide	ND	5.9
MTBE	4.3 J	5.9
trans-1,2-Dichloroethene	ND	5.9
Vinyl Acetate	ND	59
1,1-Dichloroethane	ND	5.9
2-Butanone	ND	12
cis-1,2-Dichloroethene	3.6 J	5.9
2,2-Dichloropropane	ND	5.9
Chloroform	ND	5.9
Bromochloromethane	ND	5.9
1,1,1-Trichloroethane	ND	5.9
1,1-Dichloropropene	ND	5.9
Carbon Tetrachloride	ND	5.9
1,2-Dichloroethane	ND	5.9
Benzene	ND	5.9
Trichloroethene	ND	5.9
1,2-Dichloropropane	ND	5.9
Bromodichloromethane	ND	5.9
Dibromomethane	ND	5.9
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	5.9
Toluene	ND	5.9
trans-1,3-Dichloropropene	ND	5.9
1,1,2-Trichloroethane	ND	5.9
2-Hexanone	ND	12
1,3-Dichloropropane	ND	5.9
Tetrachloroethene	ND	5.9
Dibromochloromethane	ND	5.9
1,2-Dibromoethane	ND	5.9
Chlorobenzene	ND	5.9
1,1,1,2-Tetrachloroethane	ND	5.9
Ethylbenzene	ND	5.9
m,p-Xylenes	ND	5.9
o-Xylene	ND	5.9
Styrene	ND	5.9
Bromoform	ND	5.9
Isopropylbenzene	ND	5.9
1,1,2,2-Tetrachloroethane	ND	5.9
1,2,3-Trichloropropane	ND	5.9
Propylbenzene	ND	5.9
Bromobenzene	ND	5.9
1,3,5-Trimethylbenzene	ND	5.9

J = Estimated value
ND = Not Detected
RL = Reporting Limit

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-111-25	Diln Fac:	0.9804
Lab ID:	145296-018	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.9
4-Chlorotoluene	ND	5.9
tert-Butylbenzene	ND	5.9
1,2,4-Trimethylbenzene	ND	5.9
sec-Butylbenzene	ND	5.9
para-Isopropyl Toluene	ND	5.9
1,3-Dichlorobenzene	ND	5.9
1,4-Dichlorobenzene	ND	5.9
n-Butylbenzene	ND	5.9
1,2-Dichlorobenzene	ND	5.9
1,2-Dibromo-3-Chloropropane	ND	5.9
1,2,4-Trichlorobenzene	ND	5.9
Hexachlorobutadiene	ND	5.9
Naphthalene	ND	5.9
1,2,3-Trichlorobenzene	ND	5.9

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	107	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	100	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-111-30	Diln Fac:	0.9615
Lab ID:	145296-019	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 15%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.7
Acetone	59	23
Freon 113	ND	5.7
1,1-Dichloroethene	ND	5.7
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.7
MTBE	3.2 J	5.7
trans-1,2-Dichloroethene	ND	5.7
Vinyl Acetate	ND	57
1,1-Dichloroethane	ND	5.7
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.7
2,2-Dichloropropane	ND	5.7
Chloroform	ND	5.7
Bromochloromethane	ND	5.7
1,1,1-Trichloroethane	ND	5.7
1,1-Dichloropropene	ND	5.7
Carbon Tetrachloride	ND	5.7
1,2-Dichloroethane	ND	5.7
Benzene	ND	5.7
Trichloroethene	ND	5.7
1,2-Dichloropropane	ND	5.7
Bromodichloromethane	ND	5.7
Dibromomethane	ND	5.7
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.7
Toluene	ND	5.7
trans-1,3-Dichloropropene	ND	5.7
1,1,2-Trichloroethane	ND	5.7
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.7
Tetrachloroethene	ND	5.7
Dibromochloromethane	ND	5.7
1,2-Dibromoethane	ND	5.7
Chlorobenzene	ND	5.7
1,1,1,2-Tetrachloroethane	ND	5.7
Ethylbenzene	ND	5.7
m,p-Xylenes	ND	5.7
o-Xylene	ND	5.7
Styrene	ND	5.7
Bromoform	ND	5.7
Isopropylbenzene	ND	5.7
1,1,2,2-Tetrachloroethane	ND	5.7
1,2,3-Trichloropropane	ND	5.7
Propylbenzene	ND	5.7
Bromobenzene	ND	5.7
1,3,5-Trimethylbenzene	ND	5.7

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-111-30	Diln Fac:	0.9615
Lab ID:	145296-019	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.7
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	ND	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	ND	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	100	77-126

5/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-111-35	Diln Fac:	0.9259
Lab ID:	145296-020	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 16%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.5
Acetone	25	22
Freon 113	ND	5.5
1,1-Dichloroethene	ND	5.5
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.5
MTBE	3.2 J	5.5
trans-1,2-Dichloroethene	ND	5.5
Vinyl Acetate	ND	55
1,1-Dichloroethane	2.8 J	5.5
2-Butanone	ND	11
cis-1,2-Dichloroethene	10	5.5
2,2-Dichloropropane	ND	5.5
Chloroform	ND	5.5
Bromochloromethane	ND	5.5
1,1,1-Trichloroethane	ND	5.5
1,1-Dichloropropene	ND	5.5
Carbon Tetrachloride	ND	5.5
1,2-Dichloroethane	ND	5.5
Benzene	ND	5.5
Trichloroethene	ND	5.5
1,2-Dichloropropane	ND	5.5
Bromodichloromethane	ND	5.5
Dibromomethane	ND	5.5
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.5
Toluene	ND	5.5
trans-1,3-Dichloropropene	ND	5.5
1,1,2-Trichloroethane	ND	5.5
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.5
Tetrachloroethene	ND	5.5
Dibromochloromethane	ND	5.5
1,2-Dibromoethane	ND	5.5
Chlorobenzene	ND	5.5
1,1,1,2-Tetrachloroethane	ND	5.5
Ethylbenzene	ND	5.5
m,p-Xylenes	ND	5.5
o-Xylene	ND	5.5
Styrene	ND	5.5
Bromoform	ND	5.5
Isopropylbenzene	ND	5.5
1,1,2,2-Tetrachloroethane	ND	5.5
1,2,3-Trichloropropane	ND	5.5
Propylbenzene	ND	5.5
Bromobenzene	ND	5.5
1,3,5-Trimethylbenzene	ND	5.5

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-111-35	Diln Fac:	0.9259
Lab ID:	145296-020	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.5
4-Chlorotoluene	ND	5.5
tert-Butylbenzene	ND	5.5
1,2,4-Trimethylbenzene	ND	5.5
sec-Butylbenzene	ND	5.5
para-Isopropyl Toluene	ND	5.5
1,3-Dichlorobenzene	ND	5.5
1,4-Dichlorobenzene	ND	5.5
n-Butylbenzene	ND	5.5
1,2-Dichlorobenzene	5.1 J	5.5
1,2-Dibromo-3-Chloropropane	ND	5.5
1,2,4-Trichlorobenzene	ND	5.5
Hexachlorobutadiene	ND	5.5
Naphthalene	ND	5.5
1,2,3-Trichlorobenzene	ND	5.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	99	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-111-40	Diln Fac:	0.9615
Lab ID:	145296-021	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Moisture: 17%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	5.8
Acetone	ND	23
Freon 113	ND	5.8
1,1-Dichloroethene	ND	5.8
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.8
MTBE	3.2 J	5.8
trans-1,2-Dichloroethene	ND	5.8
Vinyl Acetate	ND	58
1,1-Dichloroethane	3.8 J	5.8
2-Butanone	ND	12
cis-1,2-Dichloroethene	ND	5.8
2,2-Dichloropropane	ND	5.8
Chloroform	ND	5.8
Bromochloromethane	ND	5.8
1,1,1-Trichloroethane	ND	5.8
1,1-Dichloropropene	ND	5.8
Carbon Tetrachloride	ND	5.8
1,2-Dichloroethane	ND	5.8
Benzene	ND	5.8
Trichloroethene	ND	5.8
1,2-Dichloropropane	ND	5.8
Bromodichloromethane	ND	5.8
Dibromomethane	ND	5.8
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	5.8
Toluene	ND	5.8
trans-1,3-Dichloropropene	ND	5.8
1,1,2-Trichloroethane	ND	5.8
2-Hexanone	ND	12
1,3-Dichloropropane	ND	5.8
Tetrachloroethene	ND	5.8
Dibromochloromethane	ND	5.8
1,2-Dibromoethane	ND	5.8
Chlorobenzene	ND	5.8
1,1,1,2-Tetrachloroethane	ND	5.8
Ethylbenzene	ND	5.8
m,p-Xylenes	ND	5.8
o-Xylene	ND	5.8
Styrene	ND	5.8
Bromoform	ND	5.8
Isopropylbenzene	ND	5.8
1,1,2,2-Tetrachloroethane	ND	5.8
1,2,3-Trichloropropane	ND	5.8
Propylbenzene	ND	5.8
Bromobenzene	ND	5.8
1,3,5-Trimethylbenzene	ND	5.8

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-111-40	Diln Fac:	0.9615
Lab ID:	145296-021	Batch#:	55548
Matrix:	Soil	Sampled:	04/25/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/03/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.8
4-Chlorotoluene	ND	5.8
tert-Butylbenzene	ND	5.8
1,2,4-Trimethylbenzene	ND	5.8
sec-Butylbenzene	ND	5.8
para-Isopropyl Toluene	ND	5.8
1,3-Dichlorobenzene	ND	5.8
1,4-Dichlorobenzene	3.1 J	5.8
n-Butylbenzene	ND	5.8
1,2-Dichlorobenzene	7.7	5.8
1,2-Dibromo-3-Chloropropane	ND	5.8
1,2,4-Trichlorobenzene	ND	5.8
Hexachlorobutadiene	ND	5.8
Naphthalene	ND	5.8
1,2,3-Trichlorobenzene	ND	5.8

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	103	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	100	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-5	Diln Fac:	500.0
Lab ID:	145296-038	Batch#:	55656
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/06/00

Moisture: 20%

Analyte	Result	RL
Freon 12	ND	6,300
Chloromethane	ND	6,300
Vinyl Chloride	ND	6,300
Bromomethane	ND	6,300
Chloroethane	ND	6,300
Trichlorofluoromethane	ND	3,100
Acetone	ND	13,000
Freon 113	ND	3,100
1,1-Dichloroethene	ND	3,100
Methylene Chloride	ND	13,000
Carbon Disulfide	ND	3,100
MTBE	ND	3,100
trans-1,2-Dichloroethene	ND	3,100
Vinyl Acetate	ND	31,000
1,1-Dichloroethane	ND	3,100
2-Butanone	ND	6,300
cis-1,2-Dichloroethene	5,100	3,100
2,2-Dichloropropane	ND	3,100
Chloroform	ND	3,100
Bromochloromethane	ND	3,100
1,1,1-Trichloroethane	ND	3,100
1,1-Dichloropropene	ND	3,100
Carbon Tetrachloride	ND	3,100
1,2-Dichloroethane	ND	3,100
Benzene	ND	3,100
Trichloroethene	ND	3,100
1,2-Dichloropropane	ND	3,100
Bromodichloromethane	ND	3,100
Dibromomethane	ND	3,100
4-Methyl-2-Pentanone	ND	6,300
cis-1,3-Dichloropropene	ND	3,100
Toluene	33,000	3,100
trans-1,3-Dichloropropene	ND	3,100
1,1,2-Trichloroethane	ND	3,100
2-Hexanone	ND	6,300
1,3-Dichloropropane	ND	3,100
Tetrachloroethene	ND	3,100
Dibromochloromethane	ND	3,100
1,2-Dibromoethane	ND	3,100
Chlorobenzene	ND	3,100
1,1,1,2-Tetrachloroethane	ND	3,100
Ethylbenzene	9,700	3,100
m,p-Xylenes	34,000	3,100
o-Xylene	16,000	3,100
Styrene	ND	3,100
Bromoform	ND	3,100
Isopropylbenzene	2,800 J	3,100
1,1,2,2-Tetrachloroethane	ND	3,100
1,2,3-Trichloropropane	ND	3,100
Propylbenzene	9,200	3,100
Bromobenzene	ND	3,100
1,3,5-Trimethylbenzene	22,000	3,100

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-5	Diln Fac:	500.0
Lab ID:	145296-038	Batch#:	55656
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/06/00

Analyte	Result	RL
2-Chlorotoluene	ND	3,100
4-Chlorotoluene	ND	3,100
tert-Butylbenzene	ND	3,100
1,2,4-Trimethylbenzene	53,000	3,100
sec-Butylbenzene	3,800	3,100
para-Isopropyl Toluene	7,100	3,100
1,3-Dichlorobenzene	ND	3,100
1,4-Dichlorobenzene	8,000	3,100
n-Butylbenzene	14,000	3,100
1,2-Dichlorobenzene	45,000	3,100
1,2-Dibromo-3-Chloropropane	ND	3,100
1,2,4-Trichlorobenzene	3,300	3,100
Hexachlorobutadiene	ND	3,100
Naphthalene	69,000	3,100
1,2,3-Trichlorobenzene	ND	3,100

Surrogate	%REC	Limits
Dibromofluoromethane	94	63-133
1,2-Dichloroethane-d4	96	76-127
Toluene-d8	98	80-111
Bromofluorobenzene	92	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-10	Diln Fac:	1.064
Lab ID:	145296-039	Batch#:	55673
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/09/00

Moisture: 15%

Analyte	Result	RL
Freon 12	ND	13
Chloromethane	ND	13
Vinyl Chloride	6.6 J	13
Bromomethane	ND	13
Chloroethane	ND	13
Trichlorofluoromethane	ND	6.3
Acetone	140	25
Freon 113	ND	6.3
1,1-Dichloroethene	ND	6.3
Methylene Chloride	ND	25
Carbon Disulfide	ND	6.3
MTBE	ND	6.3
trans-1,2-Dichloroethene	ND	6.3
Vinyl Acetate	ND	63
1,1-Dichloroethane	4.8 J	6.3
2-Butanone	15	13
cis-1,2-Dichloroethene	16	6.3
2,2-Dichloropropane	ND	6.3
Chloroform	ND	6.3
Bromochloromethane	ND	6.3
1,1,1-Trichloroethane	ND	6.3
1,1-Dichloropropene	ND	6.3
Carbon Tetrachloride	ND	6.3
1,2-Dichloroethane	ND	6.3
Benzene	ND	6.3
Trichloroethene	ND	6.3
1,2-Dichloropropane	ND	6.3
Bromodichloromethane	ND	6.3
Dibromomethane	ND	6.3
4-Methyl-2-Pentanone	ND	13
cis-1,3-Dichloropropene	ND	6.3
Toluene	7.9	6.3
trans-1,3-Dichloropropene	ND	6.3
1,1,2-Trichloroethane	ND	6.3
2-Hexanone	ND	13
1,3-Dichloropropane	ND	6.3
Tetrachloroethene	ND	6.3
Dibromochloromethane	ND	6.3
1,2-Dibromoethane	ND	6.3
Chlorobenzene	ND	6.3
1,1,1,2-Tetrachloroethane	ND	6.3
Ethylbenzene	ND	6.3
m,p-Xylenes	ND	6.3
o-Xylene	ND	6.3
Styrene	ND	6.3
Bromoform	ND	6.3
Isopropylbenzene	ND	6.3
1,1,2,2-Tetrachloroethane	ND	6.3
1,2,3-Trichloropropane	ND	6.3
Propylbenzene	ND	6.3
Bromobenzene	ND	6.3
1,3,5-Trimethylbenzene	ND	6.3

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-10	Diln Fac:	1.064
Lab ID:	145296-039	Batch#:	55673
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/09/00

Analyte	Result	RL
2-Chlorotoluene	ND	6.3
4-Chlorotoluene	ND	6.3
tert-Butylbenzene	ND	6.3
1,2,4-Trimethylbenzene	ND	6.3
sec-Butylbenzene	ND	6.3
para-Isopropyl Toluene	ND	6.3
1,3-Dichlorobenzene	ND	6.3
1,4-Dichlorobenzene	ND	6.3
n-Butylbenzene	ND	6.3
1,2-Dichlorobenzene	7.9	6.3
1,2-Dibromo-3-Chloropropane	ND	6.3
1,2,4-Trichlorobenzene	ND	6.3
Hexachlorobutadiene	ND	6.3
Naphthalene	ND	6.3
1,2,3-Trichlorobenzene	ND	6.3

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	103	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	99	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-15	Diln Fac:	100.0
Lab ID:	145296-040	Batch#:	55625
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/05/00

Moisture: 14%

Analyte	Result	RL
Freon 12	ND	1,200
Chloromethane	ND	1,200
Vinyl Chloride	ND	1,200
Bromomethane	ND	1,200
Chloroethane	ND	1,200
Trichlorofluoromethane	ND	580
Acetone	ND	2,300
Freon 113	ND	580
1,1-Dichloroethene	ND	580
Methylene Chloride	ND	2,300
Carbon Disulfide	ND	580
MTBE	ND	580
trans-1,2-Dichloroethene	ND	580
Vinyl Acetate	ND	5,800
1,1-Dichloroethane	ND	580
2-Butanone	ND	1,200
cis-1,2-Dichloroethene	ND	580
2,2-Dichloropropane	ND	580
Chloroform	ND	580
Bromochloromethane	ND	580
1,1,1-Trichloroethane	ND	580
1,1-Dichloropropene	ND	580
Carbon Tetrachloride	ND	580
1,2-Dichloroethane	ND	580
Benzene	ND	580
Trichloroethene	ND	580
1,2-Dichloropropane	ND	580
Bromodichloromethane	ND	580
Dibromomethane	ND	580
4-Methyl-2-Pentanone	ND	1,200
cis-1,3-Dichloropropene	ND	580
Toluene	ND	580
trans-1,3-Dichloropropene	ND	580
1,1,2-Trichloroethane	ND	580
2-Hexanone	ND	1,200
1,3-Dichloropropane	ND	580
Tetrachloroethene	ND	580
Dibromochloromethane	ND	580
1,2-Dibromoethane	ND	580
Chlorobenzene	ND	580
1,1,1,2-Tetrachloroethane	ND	580
Ethylbenzene	ND	580
m,p-Xylenes	ND	580
o-Xylene	ND	580
Styrene	ND	580
Bromoform	ND	580
Isopropylbenzene	ND	580
1,1,2,2-Tetrachloroethane	ND	580
1,2,3-Trichloropropane	ND	580
Propylbenzene	ND	580
Bromobenzene	ND	580
1,3,5-Trimethylbenzene	ND	580

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-15	Diln Fac:	100.0
Lab ID:	145296-040	Batch#:	55625
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/05/00

Analyte	Result	RL
2-Chlorotoluene	ND	580
4-Chlorotoluene	ND	580
tert-Butylbenzene	ND	580
1,2,4-Trimethylbenzene	370 J	580
sec-Butylbenzene	ND	580
para-Isopropyl Toluene	ND	580
1,3-Dichlorobenzene	ND	580
1,4-Dichlorobenzene	ND	580
n-Butylbenzene	430 J	580
1,2-Dichlorobenzene	ND	580
1,2-Dibromo-3-Chloropropane	ND	580
1,2,4-Trichlorobenzene	ND	580
Hexachlorobutadiene	ND	580
Naphthalene	3,600	580
1,2,3-Trichlorobenzene	ND	580

Surrogate	%REC	Limits
Dibromofluoromethane	93	63-133
1,2-Dichloroethane-d4	94	76-127
Toluene-d8	98	80-111
Bromofluorobenzene	90	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-20	Diln Fac:	2.000
Lab ID:	145296-041	Batch#:	55673
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/09/00

Moisture: 14%

Analyte	Result	RL
Freon 12	ND	23
Chloromethane	ND	23
Vinyl Chloride	81	23
Bromomethane	ND	23
Chloroethane	ND	23
Trichlorofluoromethane	ND	12
Acetone	100	47
Freon 113	ND	12
1,1-Dichloroethene	ND	12
Methylene Chloride	ND	47
Carbon Disulfide	ND	12
MTBE	ND	12
trans-1,2-Dichloroethene	ND	12
Vinyl Acetate	ND	120
1,1-Dichloroethane	32	12
2-Butanone	ND	23
cis-1,2-Dichloroethene	280	12
2,2-Dichloropropane	ND	12
Chloroform	ND	12
Bromochloromethane	ND	12
1,1,1-Trichloroethane	ND	12
1,1-Dichloropropene	ND	12
Carbon Tetrachloride	ND	12
1,2-Dichloroethane	ND	12
Benzene	ND	12
Trichloroethene	ND	12
1,2-Dichloropropane	ND	12
Bromodichloromethane	ND	12
Dibromomethane	ND	12
4-Methyl-2-Pentanone	ND	23
cis-1,3-Dichloropropene	ND	12
Toluene	ND	12
trans-1,3-Dichloropropene	ND	12
1,1,2-Trichloroethane	ND	12
2-Hexanone	ND	23
1,3-Dichloropropane	ND	12
Tetrachloroethene	ND	12
Dibromochloromethane	ND	12
1,2-Dibromoethane	ND	12
Chlorobenzene	ND	12
1,1,1,2-Tetrachloroethane	ND	12
Ethylbenzene	ND	12
m,p-Xylenes	ND	12
o-Xylene	ND	12
Styrene	ND	12
Bromoform	ND	12
Isopropylbenzene	ND	12
1,1,2,2-Tetrachloroethane	ND	12
1,2,3-Trichloropropane	ND	12
Propylbenzene	ND	12
Bromobenzene	ND	12
1,3,5-Trimethylbenzene	ND	12
2-Chlorotoluene	ND	12

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-20	Diln Fac:	2.000
Lab ID:	145296-041	Batch#:	55673
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/09/00

Analyte	Result	RL
4-Chlorotoluene	ND	12
tert-Butylbenzene	ND	12
1,2,4-Trimethylbenzene	ND	12
sec-Butylbenzene	ND	12
para-Isopropyl Toluene	ND	12
1,3-Dichlorobenzene	ND	12
1,4-Dichlorobenzene	ND	12
n-Butylbenzene	ND	12
1,2-Dichlorobenzene	ND	12
1,2-Dibromo-3-Chloropropane	ND	12
1,2,4-Trichlorobenzene	ND	12
Hexachlorobutadiene	ND	12
Naphthalene	ND	12
1,2,3-Trichlorobenzene	ND	12

Surrogate	%REC	Limits
Dibromofluoromethane	102	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	103	80-111
Bromofluorobenzene	102	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-25	Diln Fac:	1.000
Lab ID:	145296-042	Batch#:	55624
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/05/00

Moisture: 15%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	15	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	5.9
Acetone	42	24
Freon 113	ND	5.9
1,1-Dichloroethene	ND	5.9
Methylene Chloride	ND	24
Carbon Disulfide	ND	5.9
MTBE	ND	5.9
trans-1,2-Dichloroethene	ND	5.9
Vinyl Acetate	ND	59
1,1-Dichloroethane	4.2 J	5.9
2-Butanone	ND	12
cis-1,2-Dichloroethene	32	5.9
2,2-Dichloropropane	ND	5.9
Chloroform	ND	5.9
Bromochloromethane	ND	5.9
1,1,1-Trichloroethane	ND	5.9
1,1-Dichloropropene	ND	5.9
Carbon Tetrachloride	ND	5.9
1,2-Dichloroethane	ND	5.9
Benzene	ND	5.9
Trichloroethene	ND	5.9
1,2-Dichloropropane	ND	5.9
Bromodichloromethane	ND	5.9
Dibromomethane	ND	5.9
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	5.9
Toluene	ND	5.9
trans-1,3-Dichloropropene	ND	5.9
1,1,2-Trichloroethane	ND	5.9
2-Hexanone	ND	12
1,3-Dichloropropane	ND	5.9
Tetrachloroethene	ND	5.9
Dibromochloromethane	ND	5.9
1,2-Dibromoethane	ND	5.9
Chlorobenzene	ND	5.9
1,1,1,2-Tetrachloroethane	ND	5.9
Ethylbenzene	ND	5.9
m,p-Xylenes	ND	5.9
o-Xylene	ND	5.9
Styrene	ND	5.9
Bromoform	ND	5.9
Isopropylbenzene	ND	5.9
1,1,2,2-Tetrachloroethane	ND	5.9
1,2,3-Trichloropropane	ND	5.9
Propylbenzene	ND	5.9
Bromobenzene	ND	5.9
1,3,5-Trimethylbenzene	ND	5.9

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-25	Diln Fac:	1.000
Lab ID:	145296-042	Batch#:	55624
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/05/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.9
4-Chlorotoluene	ND	5.9
tert-Butylbenzene	ND	5.9
1,2,4-Trimethylbenzene	ND	5.9
sec-Butylbenzene	ND	5.9
para-Isopropyl Toluene	ND	5.9
1,3-Dichlorobenzene	ND	5.9
1,4-Dichlorobenzene	ND	5.9
n-Butylbenzene	ND	5.9
1,2-Dichlorobenzene	ND	5.9
1,2-Dibromo-3-Chloropropane	ND	5.9
1,2,4-Trichlorobenzene	ND	5.9
Hexachlorobutadiene	ND	5.9
Naphthalene	ND	5.9
1,2,3-Trichlorobenzene	ND	5.9

Surrogate	%REC	Limits
Dibromofluoromethane	99	63-133
1,2-Dichloroethane-d4	102	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	100	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-30	Diln Fac:	1.000
Lab ID:	145296-043	Batch#:	55624
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/05/00

Moisture: 15%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	5.9
Acetone	86	24
Freon 113	ND	5.9
1,1-Dichloroethene	ND	5.9
Methylene Chloride	ND	24
Carbon Disulfide	ND	5.9
MTBE	ND	5.9
trans-1,2-Dichloroethene	ND	5.9
Vinyl Acetate	ND	59
1,1-Dichloroethane	ND	5.9
2-Butanone	ND	12
cis-1,2-Dichloroethene	7.7	5.9
2,2-Dichloropropane	ND	5.9
Chloroform	ND	5.9
Bromochloromethane	ND	5.9
1,1,1-Trichloroethane	ND	5.9
1,1-Dichloropropene	ND	5.9
Carbon Tetrachloride	ND	5.9
1,2-Dichloroethane	ND	5.9
Benzene	ND	5.9
Trichloroethene	ND	5.9
1,2-Dichloropropane	ND	5.9
Bromodichloromethane	ND	5.9
Dibromomethane	ND	5.9
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	5.9
Toluene	ND	5.9
trans-1,3-Dichloropropene	ND	5.9
1,1,2-Trichloroethane	ND	5.9
2-Hexanone	ND	12
1,3-Dichloropropane	ND	5.9
Tetrachloroethene	ND	5.9
Dibromochloromethane	ND	5.9
1,2-Dibromoethane	ND	5.9
Chlorobenzene	ND	5.9
1,1,1,2-Tetrachloroethane	ND	5.9
Ethylbenzene	ND	5.9
m,p-Xylenes	ND	5.9
o-Xylene	ND	5.9
Styrene	ND	5.9
Bromoform	ND	5.9
Isopropylbenzene	ND	5.9
1,1,2,2-Tetrachloroethane	ND	5.9
1,2,3-Trichloropropane	ND	5.9
Propylbenzene	ND	5.9
Bromobenzene	ND	5.9
1,3,5-Trimethylbenzene	ND	5.9
2-Chlorotoluene	ND	5.9

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-30	Diln Fac:	1.000
Lab ID:	145296-043	Batch#:	55624
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/05/00

Analyte	Result	RL
4-Chlorotoluene	ND	5.9
tert-Butylbenzene	ND	5.9
1,2,4-Trimethylbenzene	ND	5.9
sec-Butylbenzene	ND	5.9
para-Isopropyl Toluene	ND	5.9
1,3-Dichlorobenzene	ND	5.9
1,4-Dichlorobenzene	ND	5.9
n-Butylbenzene	ND	5.9
1,2-Dichlorobenzene	ND	5.9
1,2-Dibromo-3-Chloropropane	ND	5.9
1,2,4-Trichlorobenzene	ND	5.9
Hexachlorobutadiene	ND	5.9
Naphthalene	ND	5.9
1,2,3-Trichlorobenzene	ND	5.9

Surrogate	%REC	Limits
Dibromofluoromethane	98	63-133
1,2-Dichloroethane-d4	103	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	99	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-35	Diln Fac:	0.9615
Lab ID:	145296-044	Batch#:	55624
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/05/00

Moisture: 16%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.7
Acetone	ND	23
Freon 113	ND	5.7
1,1-Dichloroethene	ND	5.7
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.7
MTBE	ND	5.7
trans-1,2-Dichloroethene	ND	5.7
Vinyl Acetate	ND	57
1,1-Dichloroethane	ND	5.7
2-Butanone	ND	11
cis-1,2-Dichloroethene	9.2	5.7
2,2-Dichloropropane	ND	5.7
Chloroform	ND	5.7
Bromochloromethane	ND	5.7
1,1,1-Trichloroethane	ND	5.7
1,1-Dichloropropene	ND	5.7
Carbon Tetrachloride	ND	5.7
1,2-Dichloroethane	ND	5.7
Benzene	ND	5.7
Trichloroethene	ND	5.7
1,2-Dichloropropane	ND	5.7
Bromodichloromethane	ND	5.7
Dibromomethane	ND	5.7
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.7
Toluene	ND	5.7
trans-1,3-Dichloropropene	ND	5.7
1,1,2-Trichloroethane	ND	5.7
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.7
Tetrachloroethene	ND	5.7
Dibromochloromethane	ND	5.7
1,2-Dibromoethane	ND	5.7
Chlorobenzene	ND	5.7
1,1,1,2-Tetrachloroethane	ND	5.7
Ethylbenzene	ND	5.7
m,p-Xylenes	ND	5.7
o-Xylene	ND	5.7
Styrene	ND	5.7
Bromoform	ND	5.7
Isopropylbenzene	ND	5.7
1,1,2,2-Tetrachloroethane	ND	5.7
1,2,3-Trichloropropane	ND	5.7
Propylbenzene	ND	5.7
Bromobenzene	ND	5.7
1,3,5-Trimethylbenzene	ND	5.7

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-35	Diln Fac:	0.9615
Lab ID:	145296-044	Batch#:	55624
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/05/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.7
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	3.3 J	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	7.3	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%REC	Limits
Dibromofluoromethane	98	63-133
1,2-Dichloroethane-d4	103	76-127
Toluene-d8	104	80-111
Bromofluorobenzene	102	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

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Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-40	Diln Fac:	1.000
Lab ID:	145296-045	Batch#:	55624
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/05/00

Moisture: 15%

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	5.9
Acetone	ND	24
Freon 113	ND	5.9
1,1-Dichloroethene	ND	5.9
Methylene Chloride	ND	24
Carbon Disulfide	ND	5.9
MTBE	ND	5.9
trans-1,2-Dichloroethene	ND	5.9
Vinyl Acetate	ND	59
1,1-Dichloroethane	ND	5.9
2-Butanone	ND	12
cis-1,2-Dichloroethene	4.8 J	5.9
2,2-Dichloropropane	ND	5.9
Chloroform	ND	5.9
Bromochloromethane	ND	5.9
1,1,1-Trichloroethane	ND	5.9
1,1-Dichloropropene	ND	5.9
Carbon Tetrachloride	ND	5.9
1,2-Dichloroethane	ND	5.9
Benzene	ND	5.9
Trichloroethene	ND	5.9
1,2-Dichloropropane	ND	5.9
Bromodichloromethane	ND	5.9
Dibromomethane	ND	5.9
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	5.9
Toluene	ND	5.9
trans-1,3-Dichloropropene	ND	5.9
1,1,2-Trichloroethane	ND	5.9
2-Hexanone	ND	12
1,3-Dichloropropane	ND	5.9
Tetrachloroethene	ND	5.9
Dibromochloromethane	ND	5.9
1,2-Dibromoethane	ND	5.9
Chlorobenzene	ND	5.9
1,1,1,2-Tetrachloroethane	ND	5.9
Ethylbenzene	ND	5.9
m,p-Xylenes	ND	5.9
o-Xylene	ND	5.9
Styrene	ND	5.9
Bromoform	ND	5.9
Isopropylbenzene	ND	5.9
1,1,2,2-Tetrachloroethane	ND	5.9
1,2,3-Trichloropropane	ND	5.9
Propylbenzene	ND	5.9
Bromobenzene	ND	5.9
1,3,5-Trimethylbenzene	ND	5.9

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-40	Diln Fac:	1.000
Lab ID:	145296-045	Batch#:	55624
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/05/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.9
4-Chlorotoluene	ND	5.9
tert-Butylbenzene	ND	5.9
1,2,4-Trimethylbenzene	ND	5.9
sec-Butylbenzene	ND	5.9
para-Isopropyl Toluene	ND	5.9
1,3-Dichlorobenzene	ND	5.9
1,4-Dichlorobenzene	ND	5.9
n-Butylbenzene	ND	5.9
1,2-Dichlorobenzene	ND	5.9
1,2-Dibromo-3-Chloropropane	ND	5.9
1,2,4-Trichlorobenzene	ND	5.9
Hexachlorobutadiene	ND	5.9
Naphthalene	ND	5.9
1,2,3-Trichlorobenzene	ND	5.9

Surrogate	%REC	Limits
Dibromofluoromethane	98	63-133
1,2-Dichloroethane-d4	102	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	99	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-45	Diln Fac:	0.9259
Lab ID:	145296-046	Batch#:	55624
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/05/00

Moisture: 16%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.5
Acetone	ND	22
Freon 113	ND	5.5
1,1-Dichloroethene	ND	5.5
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.5
MTBE	ND	5.5
trans-1,2-Dichloroethene	ND	5.5
Vinyl Acetate	ND	55
1,1-Dichloroethane	ND	5.5
2-Butanone	ND	11
cis-1,2-Dichloroethene	4.2 J	5.5
2,2-Dichloropropane	ND	5.5
Chloroform	ND	5.5
Bromochloromethane	ND	5.5
1,1,1-Trichloroethane	ND	5.5
1,1-Dichloropropene	ND	5.5
Carbon Tetrachloride	ND	5.5
1,2-Dichloroethane	ND	5.5
Benzene	ND	5.5
Trichloroethene	ND	5.5
1,2-Dichloropropane	ND	5.5
Bromodichloromethane	ND	5.5
Dibromomethane	ND	5.5
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.5
Toluene	ND	5.5
trans-1,3-Dichloropropene	ND	5.5
1,1,2-Trichloroethane	ND	5.5
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.5
Tetrachloroethene	ND	5.5
Dibromochloromethane	ND	5.5
1,2-Dibromoethane	ND	5.5
Chlorobenzene	ND	5.5
1,1,1,2-Tetrachloroethane	ND	5.5
Ethylbenzene	ND	5.5
m,p-Xylenes	ND	5.5
o-Xylene	ND	5.5
Styrene	ND	5.5
Bromoform	ND	5.5
Isopropylbenzene	ND	5.5
1,1,2,2-Tetrachloroethane	ND	5.5
1,2,3-Trichloropropane	ND	5.5
Propylbenzene	ND	5.5
Bromobenzene	ND	5.5
1,3,5-Trimethylbenzene	ND	5.5

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-112-45	Diln Fac:	0.9259
Lab ID:	145296-046	Batch#:	55624
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/05/00

Analyte	Result	RL
2-Chlorotoluene	ND	5.5
4-Chlorotoluene	ND	5.5
tert-Butylbenzene	ND	5.5
1,2,4-Trimethylbenzene	ND	5.5
sec-Butylbenzene	ND	5.5
para-Isopropyl Toluene	ND	5.5
1,3-Dichlorobenzene	ND	5.5
1,4-Dichlorobenzene	ND	5.5
n-Butylbenzene	ND	5.5
1,2-Dichlorobenzene	ND	5.5
1,2-Dibromo-3-Chloropropane	ND	5.5
1,2,4-Trichlorobenzene	ND	5.5
Hexachlorobutadiene	ND	5.5
Naphthalene	ND	5.5
1,2,3-Trichlorobenzene	ND	5.5

Surrogate	%REC	Limits
Dibromofluoromethane	101	63-133
1,2-Dichloroethane-d4	102	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	102	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-5	Diln Fac:	5,000
Lab ID:	145296-047	Batch#:	55661
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/07/00

Moisture: 23%

Analyte	Result	RL
Freon 12	ND	65,000
Chloromethane	ND	65,000
Vinyl Chloride	ND	65,000
Bromomethane	ND	65,000
Chloroethane	ND	65,000
Trichlorofluoromethane	ND	32,000
Acetone	ND	130,000
Freon 113	ND	32,000
1,1-Dichloroethene	ND	32,000
Methylene Chloride	ND	130,000
Carbon Disulfide	ND	32,000
MTBE	ND	32,000
trans-1,2-Dichloroethene	ND	32,000
Vinyl Acetate	ND	320,000
1,1-Dichloroethane	ND	32,000
2-Butanone	ND	65,000
cis-1,2-Dichloroethene	170,000	32,000
2,2-Dichloropropane	ND	32,000
Chloroform	ND	32,000
Bromochloromethane	ND	32,000
1,1,1-Trichloroethane	ND	32,000
1,1-Dichloropropene	ND	32,000
Carbon Tetrachloride	ND	32,000
1,2-Dichloroethane	ND	32,000
Benzene	ND	32,000
Trichloroethene	ND	32,000
1,2-Dichloropropane	ND	32,000
Bromodichloromethane	ND	32,000
Dibromomethane	ND	32,000
4-Methyl-2-Pentanone	ND	65,000
cis-1,3-Dichloropropene	ND	32,000
Toluene	930,000	32,000
trans-1,3-Dichloropropene	ND	32,000
1,1,2-Trichloroethane	ND	32,000
2-Hexanone	ND	65,000
1,3-Dichloropropane	ND	32,000
Tetrachloroethene	ND	32,000
Dibromochloromethane	ND	32,000
1,2-Dibromoethane	ND	32,000
Chlorobenzene	ND	32,000
1,1,1,2-Tetrachloroethane	ND	32,000
Ethylbenzene	100,000	32,000
m,p-Xylenes	340,000	32,000
o-Xylene	130,000	32,000
Styrene	ND	32,000
Bromoform	ND	32,000
Isopropylbenzene	ND	32,000
1,1,2,2-Tetrachloroethane	ND	32,000
1,2,3-Trichloropropane	ND	32,000
Propylbenzene	38,000	32,000
Bromobenzene	ND	32,000
1,3,5-Trimethylbenzene	94,000	32,000

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-5	Diln Fac:	5,000
Lab ID:	145296-047	Batch#:	55661
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/07/00

Analyte	Result	RL
2-Chlorotoluene	ND	32,000
4-Chlorotoluene	ND	32,000
tert-Butylbenzene	ND	32,000
1,2,4-Trimethylbenzene	270,000	32,000
sec-Butylbenzene	21,000 J	32,000
para-Isopropyl Toluene	88,000	32,000
1,3-Dichlorobenzene	ND	32,000
1,4-Dichlorobenzene	ND	32,000
n-Butylbenzene	67,000	32,000
1,2-Dichlorobenzene	21,000 J	32,000
1,2-Dibromo-3-Chloropropane	ND	32,000
1,2,4-Trichlorobenzene	ND	32,000
Hexachlorobutadiene	ND	32,000
Naphthalene	64,000	32,000
1,2,3-Trichlorobenzene	ND	32,000

Surrogate	%REC	Limits
Dibromofluoromethane	96	63-133
1,2-Dichloroethane-d4	96	76-127
Toluene-d8	97	80-111
Bromofluorobenzene	91	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-10	Diln Fac:	400.0
Lab ID:	145296-048	Batch#:	55661
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/07/00

Moisture: 17%

Analyte	Result	RL
Freon 12	ND	4,800
Chloromethane	ND	4,800
Vinyl Chloride	ND	4,800
Bromomethane	ND	4,800
Chloroethane	ND	4,800
Trichlorofluoromethane	ND	2,400
Acetone	ND	9,600
Freon 113	ND	2,400
1,1-Dichloroethene	ND	2,400
Methylene Chloride	ND	9,600
Carbon Disulfide	ND	2,400
MTBE	ND	2,400
trans-1,2-Dichloroethene	ND	2,400
Vinyl Acetate	ND	24,000
1,1-Dichloroethane	ND	2,400
2-Butanone	ND	4,800
cis-1,2-Dichloroethene	4,500	2,400
2,2-Dichloropropane	ND	2,400
Chloroform	ND	2,400
Bromochloromethane	ND	2,400
1,1,1-Trichloroethane	14,000	2,400
1,1-Dichloropropene	ND	2,400
Carbon Tetrachloride	ND	2,400
1,2-Dichloroethane	ND	2,400
Benzene	ND	2,400
Trichloroethene	73,000	2,400
1,2-Dichloropropane	ND	2,400
Bromodichloromethane	ND	2,400
Dibromomethane	ND	2,400
4-Methyl-2-Pentanone	31,000	4,800
cis-1,3-Dichloropropene	ND	2,400
Toluene	70,000	2,400
trans-1,3-Dichloropropene	ND	2,400
1,1,2-Trichloroethane	ND	2,400
2-Hexanone	ND	4,800
1,3-Dichloropropane	ND	2,400
Tetrachloroethene	3,500	2,400
Dibromochloromethane	ND	2,400
1,2-Dibromoethane	ND	2,400
Chlorobenzene	ND	2,400
1,1,1,2-Tetrachloroethane	ND	2,400
Ethylbenzene	8,100	2,400
m,p-Xylenes	27,000	2,400
o-Xylene	9,700	2,400
Styrene	ND	2,400
Bromoform	ND	2,400
Isopropylbenzene	ND	2,400
1,1,2,2-Tetrachloroethane	ND	2,400
1,2,3-Trichloropropane	ND	2,400
Propylbenzene	3,200	2,400
Bromobenzene	ND	2,400
1,3,5-Trimethylbenzene	7,300	2,400

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-10	Diln Fac:	400.0
Lab ID:	145296-048	Batch#:	55661
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/07/00

Analyte	Result	RL
2-Chlorotoluene	ND	2,400
4-Chlorotoluene	ND	2,400
tert-Butylbenzene	ND	2,400
1,2,4-Trimethylbenzene	19,000	2,400
sec-Butylbenzene	1,600 J	2,400
para-Isopropyl Toluene	3,200	2,400
1,3-Dichlorobenzene	ND	2,400
1,4-Dichlorobenzene	ND	2,400
n-Butylbenzene	4,300	2,400
1,2-Dichlorobenzene	ND	2,400
1,2-Dibromo-3-Chloropropane	ND	2,400
1,2,4-Trichlorobenzene	ND	2,400
Hexachlorobutadiene	ND	2,400
Naphthalene	3,700	2,400
1,2,3-Trichlorobenzene	ND	2,400

Surrogate	%REC	Limits
Dibromofluoromethane	95	63-133
1,2-Dichloroethane-d4	97	76-127
Toluene-d8	98	80-111
Bromofluorobenzene	92	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-15	Diln Fac:	1,000
Lab ID:	145296-049	Batch#:	55656
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/06/00

Moisture: 17%

Analyte	Result	RL
Freon 12	ND	12,000
Chloromethane	ND	12,000
Vinyl Chloride	ND	12,000
Bromomethane	ND	12,000
Chloroethane	ND	12,000
Trichlorofluoromethane	ND	6,000
Acetone	ND	24,000
Freon 113	ND	6,000
1,1-Dichloroethene	4,000 J	6,000
Methylene Chloride	ND	24,000
Carbon Disulfide	ND	6,000
MTBE	ND	6,000
trans-1,2-Dichloroethene	ND	6,000
Vinyl Acetate	ND	60,000
1,1-Dichloroethane	ND	6,000
2-Butanone	23,000	12,000
cis-1,2-Dichloroethene	6,800	6,000
2,2-Dichloropropane	ND	6,000
Chloroform	ND	6,000
Bromochloromethane	ND	6,000
1,1,1-Trichloroethane	62,000	6,000
1,1-Dichloropropene	ND	6,000
Carbon Tetrachloride	ND	6,000
1,2-Dichloroethane	ND	6,000
Benzene	ND	6,000
Trichloroethene	170,000	6,000
1,2-Dichloropropane	ND	6,000
Bromodichloromethane	ND	6,000
Dibromomethane	ND	6,000
4-Methyl-2-Pentanone	69,000	12,000
cis-1,3-Dichloropropene	ND	6,000
Toluene	130,000	6,000
trans-1,3-Dichloropropene	ND	6,000
1,1,2-Trichloroethane	ND	6,000
2-Hexanone	ND	12,000
1,3-Dichloropropane	ND	6,000
Tetrachloroethene	3,700 J	6,000
Dibromochloromethane	ND	6,000
1,2-Dibromoethane	ND	6,000
Chlorobenzene	ND	6,000
1,1,1,2-Tetrachloroethane	ND	6,000
Ethylbenzene	8,200	6,000
m,p-Xylenes	28,000	6,000
o-Xylene	9,900	6,000
Styrene	ND	6,000
Bromoform	ND	6,000
Isopropylbenzene	ND	6,000
1,1,2,2-Tetrachloroethane	ND	6,000
1,2,3-Trichloropropane	ND	6,000
Propylbenzene	3,500 J	6,000
Bromobenzene	ND	6,000
1,3,5-Trimethylbenzene	7,200	6,000

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	S-113-15	Diln Fac:	1,000
Lab ID:	145296-049	Batch#:	55656
Matrix:	Soil	Sampled:	04/26/00
Units:	ug/Kg	Received:	04/26/00
Basis:	dry	Analyzed:	05/06/00

Analyte	Result	RL
2-Chlorotoluene	ND	6,000
4-Chlorotoluene	ND	6,000
tert-Butylbenzene	ND	6,000
1,2,4-Trimethylbenzene	21,000	6,000
sec-Butylbenzene	ND	6,000
para-Isopropyl Toluene	5,500 J	6,000
1,3-Dichlorobenzene	ND	6,000
1,4-Dichlorobenzene	ND	6,000
n-Butylbenzene	7,000	6,000
1,2-Dichlorobenzene	ND	6,000
1,2-Dibromo-3-Chloropropane	ND	6,000
1,2,4-Trichlorobenzene	ND	6,000
Hexachlorobutadiene	ND	6,000
Naphthalene	7,000	6,000
1,2,3-Trichlorobenzene	ND	6,000

Surrogate	%REC	Limits
Dibromofluoromethane	95	63-133
1,2-Dichloroethane-d4	95	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	92	77-126

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-110-20	Batch#:	55472
Lab ID:	145296-022	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/29/00
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	2.8 J	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-110-20	Batch#:	55472
Lab ID:	145296-022	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/29/00
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	5.5	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	109	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	103	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-110-25	Batch#:	55472
Lab ID:	145296-023	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/29/00
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	2.9 J	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-110-25	Batch#:	55472
Lab ID:	145296-023	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/29/00
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	4.7 J	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	111	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	104	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-110-30	Batch#:	55472
Lab ID:	145296-024	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/29/00
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	7.7	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	55	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	4.9 J	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-110-30	Batch#:	55472
Lab ID:	145296-024	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/29/00
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	6.9	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	111	78-123
Toluene-d8	102	80-110
Bromofluorobenzene	103	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-110-35	Sampled:	04/25/00
Lab ID:	145296-025	Received:	04/26/00
Matrix:	Water	Analyzed:	04/30/00
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#
Freon 12	ND	50	5.000	55478
Chloromethane	ND	50	5.000	55478
Vinyl Chloride	180	50	5.000	55478
Bromomethane	ND	50	5.000	55478
Chloroethane	42 J	50	5.000	55478
Trichlorofluoromethane	ND	25	5.000	55478
Acetone	ND	100	5.000	55478
Freon 113	ND	25	5.000	55478
1,1-Dichloroethene	ND	25	5.000	55478
Methylene Chloride	ND	100	5.000	55478
Carbon Disulfide	ND	25	5.000	55478
MTBE	ND	25	5.000	55478
trans-1,2-Dichloroethene	16 J	25	5.000	55478
Vinyl Acetate	ND	250	5.000	55478
1,1-Dichloroethane	300	25	5.000	55478
2-Butanone	ND	50	5.000	55478
cis-1,2-Dichloroethene	780	42	8.333	55472
2,2-Dichloropropane	ND	25	5.000	55478
Chloroform	ND	25	5.000	55478
Bromochloromethane	ND	50	5.000	55478
1,1,1-Trichloroethane	ND	25	5.000	55478
1,1-Dichloropropene	ND	25	5.000	55478
Carbon Tetrachloride	ND	25	5.000	55478
1,2-Dichloroethane	15 J	25	5.000	55478
Benzene	ND	25	5.000	55478
Trichloroethene	41	25	5.000	55478
1,2-Dichloropropane	ND	25	5.000	55478
Bromodichloromethane	ND	25	5.000	55478
Dibromomethane	ND	25	5.000	55478
4-Methyl-2-Pentanone	ND	50	5.000	55478
cis-1,3-Dichloropropene	ND	25	5.000	55478
Toluene	ND	25	5.000	55478
trans-1,3-Dichloropropene	ND	25	5.000	55478
1,1,2-Trichloroethane	ND	25	5.000	55478
2-Hexanone	ND	50	5.000	55478
1,3-Dichloropropane	ND	25	5.000	55478
Tetrachloroethene	27	25	5.000	55478

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-110-35	Sampled:	04/25/00
Lab ID:	145296-025	Received:	04/26/00
Matrix:	Water	Analyzed:	04/30/00
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#
Dibromochloromethane	ND	25	5.000	55478
1,2-Dibromoethane	ND	25	5.000	55478
Chlorobenzene	40	25	5.000	55478
1,1,1,2-Tetrachloroethane	ND	25	5.000	55478
Ethylbenzene	ND	25	5.000	55478
m,p-Xylenes	ND	25	5.000	55478
o-Xylene	ND	25	5.000	55478
Styrene	ND	25	5.000	55478
Bromoform	ND	25	5.000	55478
Isopropylbenzene	ND	25	5.000	55478
1,1,2,2-Tetrachloroethane	ND	25	5.000	55478
1,2,3-Trichloropropane	ND	25	5.000	55478
Propylbenzene	ND	25	5.000	55478
Bromobenzene	ND	25	5.000	55478
1,3,5-Trimethylbenzene	ND	25	5.000	55478
2-Chlorotoluene	ND	25	5.000	55478
4-Chlorotoluene	ND	25	5.000	55478
tert-Butylbenzene	ND	25	5.000	55478
1,2,4-Trimethylbenzene	ND	25	5.000	55478
sec-Butylbenzene	ND	25	5.000	55478
para-Isopropyl Toluene	ND	25	5.000	55478
1,3-Dichlorobenzene	ND	25	5.000	55478
1,4-Dichlorobenzene	110	25	5.000	55478
n-Butylbenzene	ND	25	5.000	55478
1,2-Dichlorobenzene	510	25	5.000	55478
1,2-Dibromo-3-Chloropropane	ND	25	5.000	55478
1,2,4-Trichlorobenzene	ND	25	5.000	55478
Hexachlorobutadiene	ND	25	5.000	55478
Naphthalene	ND	25	5.000	55478
1,2,3-Trichlorobenzene	ND	25	5.000	55478

Surrogate	%REC	Limits	Diln Fac	Batch#
Dibromofluoromethane	111	80-122	5.000	55478
1,2-Dichloroethane-d4	101	78-123	5.000	55478
Toluene-d8	97	80-110	5.000	55478
Bromofluorobenzene	95	80-115	5.000	55478

J = Estimated value
ND = Not Detected
RL = Reporting Limit

6/8/00

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-110-40	Batch#:	55472
Lab ID:	145296-026	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/30/00
Diln Fac:	5.000		

Analyte	Result	RL
Freon 12	ND	50
Chloromethane	ND	50
Vinyl Chloride	120	50
Bromomethane	ND	50
Chloroethane	57	50
Trichlorofluoromethane	ND	25
Acetone	ND	100
Freon 113	ND	25
1,1-Dichloroethene	ND	25
Methylene Chloride	ND	100
Carbon Disulfide	ND	25
MTBE	ND	25
trans-1,2-Dichloroethene	13 J	25
Vinyl Acetate	ND	250
1,1-Dichloroethane	270	25
2-Butanone	ND	50
cis-1,2-Dichloroethene	730	25
2,2-Dichloropropane	ND	25
Chloroform	ND	25
Bromochloromethane	ND	50
1,1,1-Trichloroethane	ND	25
1,1-Dichloropropene	ND	25
Carbon Tetrachloride	ND	25
1,2-Dichloroethane	13 J	25
Benzene	ND	25
Trichloroethene	36	25
1,2-Dichloropropane	ND	25
Bromodichloromethane	ND	25
Dibromomethane	ND	25
4-Methyl-2-Pentanone	ND	50
cis-1,3-Dichloropropene	ND	25
Toluene	ND	25
trans-1,3-Dichloropropene	ND	25
1,1,2-Trichloroethane	ND	25
2-Hexanone	ND	50
1,3-Dichloropropane	ND	25
Tetrachloroethene	25	25
Dibromochloromethane	ND	25
1,2-Dibromoethane	ND	25
Chlorobenzene	33	25
1,1,1,2-Tetrachloroethane	ND	25
Ethylbenzene	ND	25
m,p-Xylenes	ND	25
o-Xylene	ND	25
Styrene	ND	25
Bromoform	ND	25
Isopropylbenzene	ND	25
1,1,2,2-Tetrachloroethane	ND	25
1,2,3-Trichloropropane	ND	25
Propylbenzene	ND	25
Bromobenzene	ND	25
1,3,5-Trimethylbenzene	ND	25
2-Chlorotoluene	ND	25
4-Chlorotoluene	ND	25

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-110-40	Batch#:	55472
Lab ID:	145296-026	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/30/00
Diln Fac:	5.000		

Analyte	Result	RL
tert-Butylbenzene	ND	25
1,2,4-Trimethylbenzene	ND	25
sec-Butylbenzene	ND	25
para-Isopropyl Toluene	ND	25
1,3-Dichlorobenzene	ND	25
1,4-Dichlorobenzene	85	25
n-Butylbenzene	ND	25
1,2-Dichlorobenzene	360	25
1,2-Dibromo-3-Chloropropane	ND	25
1,2,4-Trichlorobenzene	ND	25
Hexachlorobutadiene	ND	25
Naphthalene	ND	25
1,2,3-Trichlorobenzene	ND	25

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	110	78-123
Toluene-d8	103	80-110
Bromofluorobenzene	102	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-111-20	Batch#:	55472
Lab ID:	145296-027	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/29/00
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	2.7 J	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-111-20	Batch#:	55472
Lab ID:	145296-027	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/29/00
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	5.4	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	111	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	104	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-111-25	Batch#:	55472
Lab ID:	145296-028	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/29/00
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	2.7 J	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-111-25	Batch#:	55472
Lab ID:	145296-028	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/29/00
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	4.8 J	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-122
1,2-Dichloroethane-d4	112	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	102	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-111-30	Batch#:	55472
Lab ID:	145296-029	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/29/00
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	7.8	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	53	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	4.6 J	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-111-30	Batch#:	55472
Lab ID:	145296-029	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/29/00
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	6.8	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-122
1,2-Dichloroethane-d4	112	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	103	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-111-35	Batch#:	55472
Lab ID:	145296-030	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/30/00
Diln Fac:	5.000		

Analyte	Result	RL
Freon 12	ND	50
Chloromethane	ND	50
Vinyl Chloride	150	50
Bromomethane	ND	50
Chloroethane	40 J	50
Trichlorofluoromethane	ND	25
Acetone	ND	100
Freon 113	ND	25
1,1-Dichloroethene	ND	25
Methylene Chloride	ND	100
Carbon Disulfide	ND	25
MTBE	ND	25
trans-1,2-Dichloroethene	16 J	25
Vinyl Acetate	ND	250
1,1-Dichloroethane	270	25
2-Butanone	ND	50
cis-1,2-Dichloroethene	920	25
2,2-Dichloropropane	ND	25
Chloroform	ND	25
Bromochloromethane	ND	50
1,1,1-Trichloroethane	ND	25
1,1-Dichloropropene	ND	25
Carbon Tetrachloride	ND	25
1,2-Dichloroethane	15 J	25
Benzene	ND	25
Trichloroethene	41	25
1,2-Dichloropropane	ND	25
Bromodichloromethane	ND	25
Dibromomethane	ND	25
4-Methyl-2-Pentanone	ND	50
cis-1,3-Dichloropropene	ND	25
Toluene	ND	25
trans-1,3-Dichloropropene	ND	25
1,1,2-Trichloroethane	ND	25
2-Hexanone	ND	50
1,3-Dichloropropane	ND	25
Tetrachloroethene	25 J	25
Dibromochloromethane	ND	25
1,2-Dibromoethane	ND	25
Chlorobenzene	39	25
1,1,1,2-Tetrachloroethane	ND	25
Ethylbenzene	ND	25
m,p-Xylenes	ND	25
o-Xylene	ND	25
Styrene	ND	25
Bromoform	ND	25
Isopropylbenzene	ND	25
1,1,2,2-Tetrachloroethane	ND	25
1,2,3-Trichloropropane	ND	25
Propylbenzene	ND	25
Bromobenzene	ND	25
1,3,5-Trimethylbenzene	ND	25
2-Chlorotoluene	ND	25
4-Chlorotoluene	ND	25

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-111-35	Batch#:	55472
Lab ID:	145296-030	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/30/00
Diln Fac:	5.000		

Analyte	Result	RL
tert-Butylbenzene	ND	25
1,2,4-Trimethylbenzene	ND	25
sec-Butylbenzene	ND	25
para-Isopropyl Toluene	ND	25
1,3-Dichlorobenzene	ND	25
1,4-Dichlorobenzene	99	25
n-Butylbenzene	ND	25
1,2-Dichlorobenzene	450	25
1,2-Dibromo-3-Chloropropane	ND	25
1,2,4-Trichlorobenzene	ND	25
Hexachlorobutadiene	ND	25
Naphthalene	ND	25
1,2,3-Trichlorobenzene	ND	25

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	111	78-123
Toluene-d8	103	80-110
Bromofluorobenzene	102	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-111-40	Batch#:	55478
Lab ID:	145296-031	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/30/00
Diln Fac:	5.000		

Analyte	Result	RL
Freon 12	ND	50
Chloromethane	ND	50
Vinyl Chloride	140	50
Bromomethane	ND	50
Chloroethane	42 J	50
Trichlorofluoromethane	ND	25
Acetone	ND	100
Freon 113	ND	25
1,1-Dichloroethene	ND	25
Methylene Chloride	ND	100
Carbon Disulfide	ND	25
MTBE	ND	25
trans-1,2-Dichloroethene	ND	25
Vinyl Acetate	ND	250
1,1-Dichloroethane	250	25
2-Butanone	ND	50
cis-1,2-Dichloroethene	730	25
2,2-Dichloropropane	ND	25
Chloroform	ND	25
Bromochloromethane	ND	50
1,1,1-Trichloroethane	ND	25
1,1-Dichloropropene	ND	25
Carbon Tetrachloride	ND	25
1,2-Dichloroethane	ND	25
Benzene	ND	25
Trichloroethene	75	25
1,2-Dichloropropane	ND	25
Bromodichloromethane	ND	25
Dibromomethane	ND	25
4-Methyl-2-Pentanone	ND	50
cis-1,3-Dichloropropene	ND	25
Toluene	ND	25
trans-1,3-Dichloropropene	ND	25
1,1,2-Trichloroethane	ND	25
2-Hexanone	ND	50
1,3-Dichloropropane	ND	25
Tetrachloroethene	84	25
Dibromochloromethane	ND	25
1,2-Dibromoethane	ND	25
Chlorobenzene	27	25
1,1,1,2-Tetrachloroethane	ND	25
Ethylbenzene	ND	25
m,p-Xylenes	ND	25
o-Xylene	ND	25
Styrene	ND	25
Bromoform	ND	25
Isopropylbenzene	ND	25
1,1,2,2-Tetrachloroethane	ND	25
1,2,3-Trichloropropane	ND	25
Propylbenzene	ND	25
Bromobenzene	ND	25
1,3,5-Trimethylbenzene	ND	25
2-Chlorotoluene	ND	25
4-Chlorotoluene	ND	25

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-111-40	Batch#:	55478
Lab ID:	145296-031	Sampled:	04/25/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/30/00
Diln Fac:	5.000		

Analyte	Result	RL
tert-Butylbenzene	ND	25
1,2,4-Trimethylbenzene	ND	25
sec-Butylbenzene	ND	25
para-Isopropyl Toluene	ND	25
1,3-Dichlorobenzene	ND	25
1,4-Dichlorobenzene	88	25
n-Butylbenzene	ND	25
1,2-Dichlorobenzene	400	25
1,2-Dibromo-3-Chloropropane	ND	25
1,2,4-Trichlorobenzene	ND	25
Hexachlorobutadiene	ND	25
Naphthalene	ND	25
1,2,3-Trichlorobenzene	ND	25

Surrogate	%REC	Limits
Dibromofluoromethane	115	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	81	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-112-20	Batch#:	55478
Lab ID:	145296-032	Sampled:	04/26/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/30/00
Dilu Fac:	400.0		

Analyte	Result	RL
Freon 12	ND	4,000
Chloromethane	ND	4,000
Vinyl Chloride	27,000	4,000
Bromomethane	ND	4,000
Chloroethane	ND	4,000
Trichlorofluoromethane	ND	2,000
Acetone	ND	8,000
Freon 113	ND	2,000
1,1-Dichloroethene	ND	2,000
Methylene Chloride	ND	8,000
Carbon Disulfide	ND	2,000
MTBE	ND	2,000
trans-1,2-Dichloroethene	ND	2,000
Vinyl Acetate	ND	20,000
1,1-Dichloroethane	3,700	2,000
2-Butanone	ND	4,000
cis-1,2-Dichloroethene	60,000	2,000
2,2-Dichloropropane	ND	2,000
Chloroform	ND	2,000
Bromochloromethane	ND	4,000
1,1,1-Trichloroethane	ND	2,000
1,1-Dichloropropene	ND	2,000
Carbon Tetrachloride	ND	2,000
1,2-Dichloroethane	ND	2,000
Benzene	ND	2,000
Trichloroethene	ND	2,000
1,2-Dichloropropane	ND	2,000
Bromodichloromethane	ND	2,000
Dibromomethane	ND	2,000
4-Methyl-2-Pentanone	ND	4,000
cis-1,3-Dichloropropene	ND	2,000
Toluene	ND	2,000
trans-1,3-Dichloropropene	ND	2,000
1,1,2-Trichloroethane	ND	2,000
2-Hexanone	ND	4,000
1,3-Dichloropropane	ND	2,000
Tetrachloroethene	ND	2,000
Dibromochloromethane	ND	2,000
1,2-Dibromoethane	ND	2,000
Chlorobenzene	ND	2,000
1,1,1,2-Tetrachloroethane	ND	2,000
Ethylbenzene	ND	2,000
m,p-Xylenes	ND	2,000
o-Xylene	ND	2,000
Styrene	ND	2,000
Bromoform	ND	2,000
Isopropylbenzene	ND	2,000
1,1,2,2-Tetrachloroethane	ND	2,000
1,2,3-Trichloropropane	ND	2,000
Propylbenzene	ND	2,000
Bromobenzene	ND	2,000
1,3,5-Trimethylbenzene	ND	2,000
2-Chlorotoluene	ND	2,000
4-Chlorotoluene	ND	2,000

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-112-20	Batch#:	55478
Lab ID:	145296-032	Sampled:	04/26/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	04/30/00
Diln Fac:	400.0		

Analyte	Result	RL
tert-Butylbenzene	ND	2,000
1,2,4-Trimethylbenzene	ND	2,000
sec-Butylbenzene	ND	2,000
para-Isopropyl Toluene	ND	2,000
1,3-Dichlorobenzene	ND	2,000
1,4-Dichlorobenzene	ND	2,000
n-Butylbenzene	ND	2,000
1,2-Dichlorobenzene	1,800 J	2,000
1,2-Dibromo-3-Chloropropane	ND	2,000
1,2,4-Trichlorobenzene	ND	2,000
Hexachlorobutadiene	ND	2,000
Naphthalene	ND	2,000
1,2,3-Trichlorobenzene	ND	2,000

Surrogate	%REC	Limits
Dibromofluoromethane	115	80-122
1,2-Dichloroethane-d4	102	78-123
Toluene-d8	95	80-110
Bromofluorobenzene	94	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-112-25	Batch#:	55482
Lab ID:	145296-033	Sampled:	04/26/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	333.3		

Analyte	Result	RL
Freon 12	ND	3,300
Chloromethane	ND	3,300
Vinyl Chloride	17,000	3,300
Bromomethane	ND	3,300
Chloroethane	ND	3,300
Trichlorofluoromethane	ND	1,700
Acetone	ND	6,700
Freon 113	ND	1,700
1,1-Dichloroethene	ND	1,700
Methylene Chloride	ND	6,700
Carbon Disulfide	ND	1,700
MTBE	ND	1,700
trans-1,2-Dichloroethene	ND	1,700
Vinyl Acetate	ND	17,000
1,1-Dichloroethane	2,800	1,700
2-Butanone	ND	3,300
cis-1,2-Dichloroethene	46,000	1,700
2,2-Dichloropropane	ND	1,700
Chloroform	ND	1,700
Bromochloromethane	ND	3,300
1,1,1-Trichloroethane	ND	1,700
1,1-Dichloropropene	ND	1,700
Carbon Tetrachloride	ND	1,700
1,2-Dichloroethane	ND	1,700
Benzene	ND	1,700
Trichloroethene	ND	1,700
1,2-Dichloropropane	ND	1,700
Bromodichloromethane	ND	1,700
Dibromomethane	ND	1,700
4-Methyl-2-Pentanone	ND	3,300
cis-1,3-Dichloropropene	ND	1,700
Toluene	ND	1,700
trans-1,3-Dichloropropene	ND	1,700
1,1,2-Trichloroethane	ND	1,700
2-Hexanone	ND	3,300
1,3-Dichloropropane	ND	1,700
Tetrachloroethene	ND	1,700
Dibromochloromethane	ND	1,700
1,2-Dibromoethane	ND	1,700
Chlorobenzene	ND	1,700
1,1,1,2-Tetrachloroethane	ND	1,700
Ethylbenzene	ND	1,700
m,p-Xylenes	ND	1,700
o-Xylene	ND	1,700
Styrene	ND	1,700
Bromoform	ND	1,700
Isopropylbenzene	ND	1,700
1,1,2,2-Tetrachloroethane	ND	1,700
1,2,3-Trichloropropane	ND	1,700
Propylbenzene	ND	1,700
Bromobenzene	ND	1,700
1,3,5-Trimethylbenzene	ND	1,700
2-Chlorotoluene	ND	1,700
4-Chlorotoluene	ND	1,700

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-112-25	Batch#:	55482
Lab ID:	145296-033	Sampled:	04/26/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	333.3		

Analyte	Result	RL
tert-Butylbenzene	ND	1,700
1,2,4-Trimethylbenzene	ND	1,700
sec-Butylbenzene	ND	1,700
para-Isopropyl Toluene	ND	1,700
1,3-Dichlorobenzene	ND	1,700
1,4-Dichlorobenzene	ND	1,700
n-Butylbenzene	ND	1,700
1,2-Dichlorobenzene	1,200 J	1,700
1,2-Dibromo-3-Chloropropane	ND	1,700
1,2,4-Trichlorobenzene	ND	1,700
Hexachlorobutadiene	ND	1,700
Naphthalene	ND	1,700
1,2,3-Trichlorobenzene	ND	1,700

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-122
1,2-Dichloroethane-d4	102	78-123
Toluene-d8	98	80-110
Bromofluorobenzene	94	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-112-30	Batch#:	55478
Lab ID:	145296-034	Sampled:	04/26/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	100.0		

Analyte	Result	RL
Freon 12	ND	1,000
Chloromethane	ND	1,000
Vinyl Chloride	5,400	1,000
Bromomethane	ND	1,000
Chloroethane	ND	1,000
Trichlorofluoromethane	ND	500
Acetone	ND	2,000
Freon 113	ND	500
1,1-Dichloroethene	ND	500
Methylene Chloride	ND	2,000
Carbon Disulfide	ND	500
MTBE	ND	500
trans-1,2-Dichloroethene	ND	500
Vinyl Acetate	ND	5,000
1,1-Dichloroethane	1,500	500
2-Butanone	ND	1,000
cis-1,2-Dichloroethene	15,000	500
2,2-Dichloropropane	ND	500
Chloroform	ND	500
Bromochloromethane	ND	1,000
1,1,1-Trichloroethane	ND	500
1,1-Dichloropropene	ND	500
Carbon Tetrachloride	ND	500
1,2-Dichloroethane	ND	500
Benzene	ND	500
Trichloroethene	360 J	500
1,2-Dichloropropane	ND	500
Bromodichloromethane	ND	500
Dibromomethane	ND	500
4-Methyl-2-Pentanone	ND	1,000
cis-1,3-Dichloropropene	ND	500
Toluene	ND	500
trans-1,3-Dichloropropene	ND	500
1,1,2-Trichloroethane	ND	500
2-Hexanone	ND	1,000
1,3-Dichloropropane	ND	500
Tetrachloroethene	ND	500
Dibromochloromethane	ND	500
1,2-Dibromoethane	ND	500
Chlorobenzene	ND	500
1,1,1,2-Tetrachloroethane	ND	500
Ethylbenzene	ND	500
m,p-Xylenes	ND	500
o-Xylene	ND	500
Styrene	ND	500
Bromoform	ND	500
Isopropylbenzene	ND	500
1,1,2,2-Tetrachloroethane	ND	500
1,2,3-Trichloropropane	ND	500
Propylbenzene	ND	500
Bromobenzene	ND	500
1,3,5-Trimethylbenzene	ND	500
2-Chlorotoluene	ND	500
4-Chlorotoluene	ND	500

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Purgeable Organics by GC/MS

Curtis & Tompkins, Ltd.

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-112-30	Batch#:	55478
Lab ID:	145296-034	Sampled:	04/26/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	100.0		

Analyte	Result	RL
tert-Butylbenzene	ND	500
1,2,4-Trimethylbenzene	ND	500
sec-Butylbenzene	ND	500
para-Isopropyl Toluene	ND	500
1,3-Dichlorobenzene	ND	500
1,4-Dichlorobenzene	310 J	500
n-Butylbenzene	ND	500
1,2-Dichlorobenzene	1,100	500
1,2-Dibromo-3-Chloropropane	ND	500
1,2,4-Trichlorobenzene	ND	500
Hexachlorobutadiene	ND	500
Naphthalene	ND	500
1,2,3-Trichlorobenzene	ND	500

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-122
1,2-Dichloroethane-d4	100	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	92	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-112-35	Batch#:	55482
Lab ID:	145296-035	Sampled:	04/26/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	50.00		

Analyte	Result	RL
Freon 12	ND	500
Chloromethane	ND	500
Vinyl Chloride	1,800	500
Bromomethane	ND	500
Chloroethane	ND	500
Trichlorofluoromethane	ND	250
Acetone	1,500	1,000
Freon 113	ND	250
1,1-Dichloroethene	ND	250
Methylene Chloride	1,500	1,000
Carbon Disulfide	ND	250
MTBE	ND	250
trans-1,2-Dichloroethene	ND	250
Vinyl Acetate	ND	2,500
1,1-Dichloroethane	1,500	250
2-Butanone	ND	500
cis-1,2-Dichloroethene	6,500	250
2,2-Dichloropropane	ND	250
Chloroform	ND	250
Bromochloromethane	ND	500
1,1,1-Trichloroethane	ND	250
1,1-Dichloropropene	ND	250
Carbon Tetrachloride	ND	250
1,2-Dichloroethane	ND	250
Benzene	ND	250
Trichloroethene	1,300	250
1,2-Dichloropropane	ND	250
Bromodichloromethane	ND	250
Dibromomethane	ND	250
4-Methyl-2-Pentanone	750 J MS 6/8/00	500
cis-1,3-Dichloropropene	ND	250
Toluene	350	250
trans-1,3-Dichloropropene	ND	250
1,1,2-Trichloroethane	ND	250
2-Hexanone	ND	500
1,3-Dichloropropane	ND	250
Tetrachloroethene	280	250
Dibromochloromethane	ND	250
1,2-Dibromoethane	ND	250
Chlorobenzene	ND	250
1,1,1,2-Tetrachloroethane	ND	250
Ethylbenzene	ND	250
m,p-Xylenes	ND	250
o-Xylene	170 J	250
Styrene	ND	250
Bromoform	ND	250
Isopropylbenzene	ND	250
1,1,2,2-Tetrachloroethane	ND	250
1,2,3-Trichloropropane	ND	250
Propylbenzene	ND	250
Bromobenzene	ND	250
1,3,5-Trimethylbenzene	130 J	250
2-Chlorotoluene	ND	250
4-Chlorotoluene	ND	250

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-112-35	Batch#:	55482
Lab ID:	145296-035	Sampled:	04/26/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	50.00		

Analyte	Result	RL
tert-Butylbenzene	ND	250
1,2,4-Trimethylbenzene	300	250
sec-Butylbenzene	ND	250
para-Isopropyl Toluene	ND	250
1,3-Dichlorobenzene	ND	250
1,4-Dichlorobenzene	840	250
n-Butylbenzene	ND	250
1,2-Dichlorobenzene	2,200	250
1,2-Dibromo-3-Chloropropane	ND	250
1,2,4-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	250
Naphthalene	ND	250
1,2,3-Trichlorobenzene	ND	250

Surrogate	%REC	Limits
Dibromofluoromethane	116	80-122
1,2-Dichloroethane-d4	102	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	94	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-112-40	Batch#:	55478
Lab ID:	145296-036	Sampled:	04/26/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	25.00		

Analyte	Result	RL
Freon 12	ND	250
Chloromethane	ND	250
Vinyl Chloride	1,300	250
Bromomethane	ND	250
Chloroethane	ND	250
Trichlorofluoromethane	ND	130
Acetone	1,300	500
Freon 113	ND	130
1,1-Dichloroethene	ND	130
Methylene Chloride	1,100	500
Carbon Disulfide	ND	130
MTBE	ND	130
trans-1,2-Dichloroethene	ND	130
Vinyl Acetate	ND	1,300
1,1-Dichloroethane	1,100	130
2-Butanone	ND	250
cis-1,2-Dichloroethene	4,700	130
2,2-Dichloropropane	ND	130
Chloroform	ND	130
Bromochloromethane	ND	250
1,1,1-Trichloroethane	ND	130
1,1-Dichloropropene	ND	130
Carbon Tetrachloride	ND	130
1,2-Dichloroethane	ND	130
Benzene	ND	130
Trichloroethene	1,100	130
1,2-Dichloropropane	ND	130
Bromodichloromethane	ND	130
Dibromomethane	ND	130
4-Methyl-2-Pentanone	880 J 6/8/00 MS	250
cis-1,3-Dichloropropene	ND	130
Toluene	290	130
trans-1,3-Dichloropropene	ND	130
1,1,2-Trichloroethane	ND	130
2-Hexanone	ND	250
1,3-Dichloropropane	ND	130
Tetrachloroethene	230	130
Dibromochloromethane	ND	130
1,2-Dibromoethane	ND	130
Chlorobenzene	ND	130
1,1,1,2-Tetrachloroethane	ND	130
Ethylbenzene	ND	130
m,p-Xylenes	ND	130
o-Xylene	190	130
Styrene	ND	130
Bromoform	ND	130
Isopropylbenzene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
1,2,3-Trichloropropane	ND	130
Propylbenzene	90 J	130
Bromobenzene	ND	130
1,3,5-Trimethylbenzene	120 J	130
2-Chlorotoluene	ND	130
4-Chlorotoluene	ND	130

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-112-40	Batch#:	55478
Lab ID:	145296-036	Sampled:	04/26/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	25.00		

Analyte	Result	RL
tert-Butylbenzene	ND	130
1,2,4-Trimethylbenzene	290	130
sec-Butylbenzene	ND	130
para-Isopropyl Toluene	ND	130
1,3-Dichlorobenzene	68 J	130
1,4-Dichlorobenzene	640	130
n-Butylbenzene	ND	130
1,2-Dichlorobenzene	1,700	130
1,2-Dibromo-3-Chloropropane	ND	130
1,2,4-Trichlorobenzene	ND	130
Hexachlorobutadiene	ND	130
Naphthalene	74 J	130
1,2,3-Trichlorobenzene	ND	130

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	94	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-113-5	Batch#:	55478
Lab ID:	145296-037	Sampled:	04/26/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	333.3		

Analyte	Result	RL
Freon 12	ND	3,300
Chloromethane	ND	3,300
Vinyl Chloride	2,500 J	3,300
Bromomethane	ND	3,300
Chloroethane	ND	3,300
Trichlorofluoromethane	ND	1,700
Acetone	ND	6,700
Freon 113	ND	1,700
1,1-Dichloroethene	ND	1,700
Methylene Chloride	ND	6,700
Carbon Disulfide	ND	1,700
MTBE	ND	1,700
trans-1,2-Dichloroethene	ND	1,700
Vinyl Acetate	ND	17,000
1,1-Dichloroethane	2,200	1,700
2-Butanone	ND	3,300
cis-1,2-Dichloroethene	62,000	1,700
2,2-Dichloropropane	ND	1,700
Chloroform	ND	1,700
Bromochloromethane	ND	3,300
1,1,1-Trichloroethane	1,100 J	1,700
1,1-Dichloropropene	ND	1,700
Carbon Tetrachloride	ND	1,700
1,2-Dichloroethane	ND	1,700
Benzene	ND	1,700
Trichloroethene	8,400	1,700
1,2-Dichloropropane	ND	1,700
Bromodichloromethane	ND	1,700
Dibromomethane	ND	1,700
4-Methyl-2-Pentanone	15,000 J MS 6/8/00	3,300
cis-1,3-Dichloropropene	ND	1,700
Toluene	58,000	1,700
trans-1,3-Dichloropropene	ND	1,700
1,1,2-Trichloroethane	ND	1,700
2-Hexanone	ND	3,300
1,3-Dichloropropane	ND	1,700
Tetrachloroethene	ND	1,700
Dibromochloromethane	ND	1,700
1,2-Dibromoethane	ND	1,700
Chlorobenzene	ND	1,700
1,1,1,2-Tetrachloroethane	ND	1,700
Ethylbenzene	4,200	1,700
m,p-Xylenes	17,000	1,700
o-Xylene	6,800	1,700
Styrene	ND	1,700
Bromoform	ND	1,700
Isopropylbenzene	ND	1,700
1,1,2,2-Tetrachloroethane	ND	1,700
1,2,3-Trichloropropane	ND	1,700
Propylbenzene	1,200 J	1,700
Bromobenzene	ND	1,700
1,3,5-Trimethylbenzene	4,100	1,700
2-Chlorotoluene	ND	1,700
4-Chlorotoluene	ND	1,700

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	GW-113-5	Batch#:	55478
Lab ID:	145296-037	Sampled:	04/26/00
Matrix:	Water	Received:	04/26/00
Units:	ug/L	Analyzed:	05/01/00
Diln Fac:	333.3		

Analyte	Result	RL
tert-Butylbenzene	ND	1,700
1,2,4-Trimethylbenzene	12,000	1,700
sec-Butylbenzene	ND	1,700
para-Isopropyl Toluene	2,500	1,700
1,3-Dichlorobenzene	ND	1,700
1,4-Dichlorobenzene	ND	1,700
n-Butylbenzene	1,100 J	1,700
1,2-Dichlorobenzene	1,000 J	1,700
1,2-Dibromo-3-Chloropropane	ND	1,700
1,2,4-Trichlorobenzene	ND	1,700
Hexachlorobutadiene	ND	1,700
Naphthalene	3,200	1,700
1,2,3-Trichlorobenzene	ND	1,700

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	97	80-115

6/8/00

J = Estimated value
ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114422	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55525
Units:	ug/Kg	Analyzed:	05/02/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114422	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55525
Units:	ug/Kg	Analyzed:	05/02/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	104	63-133
1,2-Dichloroethane-d4	101	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	102	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114516	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55548
Units:	ug/Kg	Analyzed:	05/03/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114516	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55548
Units:	ug/Kg	Analyzed:	05/03/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	106	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	99	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114550	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55548
Units:	ug/Kg	Analyzed:	05/03/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114550	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55548
Units:	ug/Kg	Analyzed:	05/03/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	101	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114787	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55624
Units:	ug/Kg	Analyzed:	05/05/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114787	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55624
Units:	ug/Kg	Analyzed:	05/05/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	101	63-133
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	102	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114788	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55624
Units:	ug/Kg	Analyzed:	05/05/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114788	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55624
Units:	ug/Kg	Analyzed:	05/05/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	100	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114790	Batch#:	55625
Matrix:	Water	Analyzed:	05/05/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114790	Batch#:	55625
Matrix:	Water	Analyzed:	05/05/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	96	63-133
1,2-Dichloroethane-d4	96	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	95	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114791	Batch#:	55625
Matrix:	Water	Analyzed:	05/05/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114791	Batch#:	55625
Matrix:	Water	Analyzed:	05/05/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	95	63-133
1,2-Dichloroethane-d4	95	76-127
Toluene-d8	99	80-111
Bromofluorobenzene	95	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114904	Batch#:	55656
Matrix:	Water	Analyzed:	05/06/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114904	Batch#:	55656
Matrix:	Water	Analyzed:	05/06/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	96	63-133
1,2-Dichloroethane-d4	97	76-127
Toluene-d8	98	80-111
Bromofluorobenzene	99	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

005

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114905	Batch#:	55656
Matrix:	Water	Analyzed:	05/06/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114905	Batch#:	55656
Matrix:	Water	Analyzed:	05/06/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	95	63-133
1,2-Dichloroethane-d4	97	76-127
Toluene-d8	98	80-111
Bromofluorobenzene	96	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114926	Batch#:	55661
Matrix:	Water	Analyzed:	05/07/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114926	Batch#:	55661
Matrix:	Water	Analyzed:	05/07/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	95	63-133
1,2-Dichloroethane-d4	97	76-127
Toluene-d8	100	80-111
Bromofluorobenzene	97	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114979	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55673
Units:	ug/Kg	Analyzed:	05/08/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114979	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55673
Units:	ug/Kg	Analyzed:	05/08/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	6.1	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	102	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114996	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55673
Units:	ug/Kg	Analyzed:	05/08/00

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC114996	Diln Fac:	1.000
Matrix:	Soil	Batch#:	55673
Units:	ug/Kg	Analyzed:	05/08/00

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	63-133
1,2-Dichloroethane-d4	105	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	103	77-126

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114223	Batch#:	55472
Matrix:	Water	Analyzed:	04/29/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114223	Batch#:	55472
Matrix:	Water	Analyzed:	04/29/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	112	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	104	80-115

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114224	Batch#:	55472
Matrix:	Water	Analyzed:	04/30/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114224	Batch#:	55472
Matrix:	Water	Analyzed:	04/30/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	112	78-123
Toluene-d8	103	80-110
Bromofluorobenzene	102	80-115

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114248	Batch#:	55478
Matrix:	Water	Analyzed:	04/30/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114248	Batch#:	55478
Matrix:	Water	Analyzed:	04/30/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	93	80-115

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114249	Batch#:	55478
Matrix:	Water	Analyzed:	04/30/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114249	Batch#:	55478
Matrix:	Water	Analyzed:	04/30/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	118	80-122
1,2-Dichloroethane-d4	102	78-123
Toluene-d8	96	80-110
Bromofluorobenzene	94	80-115

6/8/00

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114267	Batch#:	55482
Matrix:	Water	Analyzed:	05/01/00
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND = Not Detected
RL = Reporting Limit

Curtis & Tompkins, Ltd

Purgeable Organics by GC/MS

Lab #:	145296	Location:	DC Metals
Client:	Ecology & Environment	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC114267	Batch#:	55482
Matrix:	Water	Analyzed:	05/01/00
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	117	80-122
1,2-Dichloroethane-d4	101	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	96	80-115

6/8/00

ND = Not Detected
RL = Reporting Limit

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

145296

CHAIN OF CUSTODY RECORD

75 Hawthorne Street
San Francisco, California 94105

PROJ. NO.: 0256DCST XX
PROJECT NAME: DC Metals
SAMPLERS: (Signature) C. McLeod, W. Duncan, C. LeCompte

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	8260B (VOCs + MTBE)						REMARKS
1	4/24/00	1325		✓	S-117	1 x 40z	✓						Low level samples (expected)
2		1335		✓	S-118	"	✓						
3		1345		✓	S-119	"	✓						Standard turnaround time.
4		1355		✓	S-120	"	✓						
5		1400		✓	S-121	"	✓						FAX data summaries to:
6		1410		✓	S-122	"	✓						C. McLeod (415) 981-2811
7		1410		✓	S-126	"	✓						
													Data packages to:
													C. McLeod, E&E, Inc.
													350 Sansome St. Ste 300
													San Francisco, CA 94104

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4-26-00 4:35	[signature] 4/26/00 4:35			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature] 4/26/00	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

Rec Cold PMC

9 24376

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

145246

75 Hawthorne Street
San Francisco, California 94105

PROJ NO.: 0256DCSTXX
PROJECT NAME: DC Metals
SAMPLERS: (Signature) Duncan, LeCompte

	STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	8260B (VOCs + MTBE)						REMARKS
3	F	4/25	0900		✓	S-110-5	1x4oz	✓						Med/High expected concentrati
9	F		0915		✓	S-110-10	"	✓						(May require dilutions to meet D.L.s.)
0	F		0940		✓	S-110-15	"	✓						(See SOW for DLs)
1	F		1010		✓	S-110-20	"	✓						
2	F		1045		✓	S-110-25	"	✓						Low/Med expected concentration
3	F		1120		✓	S-110-30	"	✓						(See SOW for D.L.s.)
4	F		1300		✓	S-110-35	"	✓						
5	F		1350			S-110-40	"	✓						
	~~F~~					~~S-110-45~~ e CU	~~"~~	~~✓~~ CU						
	~~F~~					~~S-110-50~~ e CU	~~"~~	~~✓~~ CU						

Standard turn around time.
FAX summaries to: C. McLeod
415 981-0801
Mail data package: C. McLeod, E&E, Inc.
350 Sansome Ste 300, San Francisco 94104

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
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Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [illegible] 4/26/00 1135	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

Rec Cold PVF

9 25025

Office of Enforcement

CHAIN OF CUSTODY RECORD

75 Hawthorne Street
San Francisco, California 94105

PROJ. NO.: 0256DCSTXX
PROJECT NAME: DC Metals
SAMPLERS: (Signature) W. Duncan, C. LeCompte

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	8260B (VOCs + MTBE)	REMARKS
F	4/25/00	0940		✓	S-111-15	1x4oz	✓	Expected concentration:
F		1010		✓	S-111-20	"	✓	Med/Low ppm
F		1045		✓	S-111-25	"	✓	
F		1120		✓	S-111-30	"	✓	See SOW for D.L.s.
F		1300		✓	S-111-35	"	✓	
F		1350		✓	S-111-40	"	✓	

Standard turn around time.
FAX summaries to: C. McLeod
(415) 981-0801
Mail data packages to:
C. McLeod
Ecology & Environment, Inc.
350 Sansome St, Ste. 300
San Francisco, CA 94104

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	04-26-00 4:35	[signature] 4/26/00 4:35			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature] 4/26/00	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

Rec'd PVF

9 25024

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

1413 246

75 Hawthorne Street
San Francisco, California 94105

PROJ. NO.: 0256DCSFXX
PROJECT NAME: DC Metals
SAMPLERS: (Signature) W. Duncan, C. LeCompte

	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	8260B (VOCs + MTBE)						REMARKS
2	F	4/25/00	1025		✓	GW-110-20	2x VOA	✓						
3	F		1050		✓	GW-110-25	"	✓						
4	F		1130		✓	GW-110-30	"	✓						
5	F		1315		✓	GW-110-35	"	✓						
6	F		1355		✓	GW-110-40	"	✓						

Standard turnaround time.
FAX data to: C. McLeod
(415) 981-0801
Data package to: C. McLeod
Ecology & Environment, Inc
350 Sansome St, Ste 300
San Francisco, CA 94104

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	04-26-00 4:35	[signature] 4/26/00 4:35			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature] 4/26/00	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

Rec Cold PVF

9 24381

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

145246

CHAIN OF CUSTODY RECORD

75 Hawthorne Street
San Francisco, California 94105

PROJ. NO.: 0256DCSTXY
PROJECT NAME: DC Metals
SAMPLERS: (Signature) W. Duncan, C. LeCompte

	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	8260B (VOCs+MTBE)						REMARKS
27	F	4/25/00	1025		✓	GW-111-20	2x VOA	✓						
0	F		1050		✓	GW-111-25	"	✓						
8	F		1130		✓	GW-111-30	"	✓						
50	F		1215		✓	GW-111-35	"	✓						
1	F		1355		✓	GW-111-40	"	✓						

Standard turn around time,
FAX data to: C. McLeod
415 981-0801
Data Package to C. McLeod
Ecology and Environment, Inc.
350 Sansome St, Ste 300
San Francisco, CA 94104

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
W. Duncan III	04-26-00 4:35	4/26/00 4:35			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		4/26/00 4:35			

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

Rec Cold PP

9 24382

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

145296

75 Hawthorne Street
San Francisco, California 94105

PROJ. NO.: 0256 DCSTXX
PROJECT NAME: DC Metals
SAMPLERS: (Signature) W. Duncan, C. LeCompte

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	8260B (VOCs + MTBE)	REMARKS
K	4/26/00	0950		✓	GW-112-20	2×VOA	✓	High (expected) concentration samples. Dilutions will be required to meet project detection limits (see SOW for D.L.s).
K		1020		✓	GW-112-25	"	✓	
K		1055		✓	GW-112-30	"	✓	
K		1145		✓	GW-112-35	"	✓	
K		1215		✓	GW-112-40	"	✓	
D		1500		✓	GW-113-5	"	✓	

Standard turnaround time. FAX data to: C. McLeod 415 981-0801
Data package to: C. McLeod, E&E, Inc. 350 Sansome St, Ste 300, San Francisco, CA 9

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
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Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature] 4/26/00	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

Rec Cold

9 24383

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

San Francisco, California 94105

PROJ NO.	PROJECT NAME
0256DISTXX	DC Metals

SAMPLERS: (Signature) W. Duncan, C. LeCompte

STA NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	8260B (VOCs + MTBE)	REMARKS
K	4/26/00	0820		✓	S-112-5	1x40z	✓	Standard turnaround. FAX data summaries to: C. McLeod (415) 981-0801. Mail data package to: C. McLeod, Ecology & Environment 350 Sansome St, Ste 300, SF, CA 94104
		0845		✓	S-112-10	"	✓	
		0915		✓	S-112-15	"	✓	High (expected) concentration samples. Dilutions will be required to meet project detection limits (see SOW for D.Ls).
		0945		✓	S-112-20	"	✓	
		1015		✓	S-112-25	"	✓	
		1050		✓	S-112-30	"	✓	
		1140		✓	S-112-35	"	✓	
		1205		✓	S-112-40	"	✓	
		1400		✓	S-112-45	"	✓	
D		1500		✓	S-113-5	"	✓	Very high (expected) concentration samples. Dilutions will be required to meet project detection limits.
		1530		✓	S-113-10	"	✓	
		1550		✓	S-113-15	"	✓	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4-26-00 4:35	[signature] 4/26/00 4:35			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature] 4/26/00 9:12	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

Rec Cold PVF

9 24384