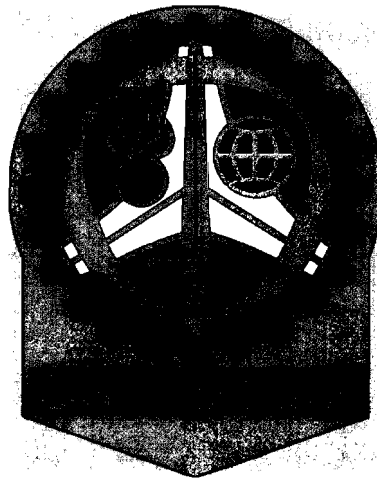

SWMU 6 SAMPLING RESULTS REPORT



RADFORD ARMY AMMUNITION PLANT RADFORD, VIRGINIA

Prepared for:

USACE Baltimore District

**Delivery Order No. 0018
Contract No. DACA31-00-D-0011**

May 2001

PREPARED BY:

URS

Dames & Moore

**5540 Falmouth Street, Suite 201
Richmond, Virginia 23230
(804) 965-9000 main
(804) 965-9764 fax**

3

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

June 12, 2001

In reply
Refer to 3HS13

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Commander,
Radford Army Ammunition Plant
Attn: SIORF-SE-EQ (Jim McKenna)
P.O. Box 2
Radford, VA 24141-0099

C.A. Jake
Environmental Manager
Alliant Techsystems, Inc.
Radford Army Ammunition Plant
P.O. Box 1
Radford, VA 24141-0100

Re: Radford Army Ammunition Plant
SWMU 6
Draft Site Screening Document submittal and review

Dear Mr. McKenna and Ms. Jake:

The U.S. Environmental Protection Agency (EPA) has reviewed the Army's revised draft Site Screening *Sampling Results Report* for soil sampling at SWMU 6, located at the Radford Army Ammunition Plant (RFAAP). Based upon our review, the revised draft *Sampling Results Report* is approved. In accordance with Part II.(G)(2) of RFAAP's Corrective Action Permit, the schedule contained within Section 7, Figure 11 of the *Sampling Results Report* is now considered final and is henceforth incorporated into the Permit, via the Installation Action Plan.

copy in 272

If you have any questions, please call me at 215-814-3357.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert Thomson". The signature is written in a cursive, flowing style.

Robert Thomson, PE
Federal Facilities Branch

cc: Russell Fish, EPA
Leslie Romanchik, VDEQ-RCRA
Sharon Wilcox, VDEQ-CERCLA



Radford Army Ammunition Plant
Route 114, P.O. Box 1
Radford, VA 24141
USA

May 11, 2001

Mr. Robert Thomson
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Subject: SWMU 6 Sampling Results Report, May 2001,
SWMU 6 Response to Comments
Radford Army Ammunition Plant
EPA ID# VA1 210020730

Dear Mr. Thomson:

Enclosed is one certified copy of the subject report. Your five additional copies and Mr. Willis' and Ms. Wilcox's copies will be sent under separate cover. This report has been revised to address your April 16, 2001 comments as well as the Virginia Department of Environmental Quality's (VDEQ) February 21, 2001 comments on the draft.

Attachment 1 contains a brief discussion of our responses to VDEQ's comments. A proposed schedule is provided as requested but note that it is subject to the finalization of the Facility Wide Background Study Report. We request that this revised report be accepted as final.

Please coordinate with and provide any questions or comments to myself at (540) 639-8266, Jerry Redder of my staff (540) 639-7536 or Jim McKenna, ACO Staff (540) 639-8641.

Sincerely,

A handwritten signature in black ink, appearing to read "C. A. Jake".

C. A. Jake, Environmental Manager
Alliant Ammunition and Powder Company, LLC

Enclosure
Attachment

c:

w/enclosure
Durwood Willis
Virginia Department of Environmental Quality
P. O. Box 10009
Richmond, VA 23240-0009

Sharon Wilcox
Virginia Department of Environmental Quality
P. O. Box 10009
Richmond, VA 23240-0009

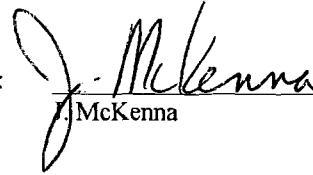
w/o enclosure
Russell Fish, P.E., EPA Region III

*Copy to DL
Send to John Tamm, 5/19/2001*

Mr. Robert Thomson
SWMU 6 Sampling Results Report
May 9, 2001
Page 2

bc: Administrative File
 J. McKenna, ACO Staff
 S. J. Barker, ACO Staff
 Rob Davie, ACO Staff
 C. A. Jake
 J. J. Redder
 Env. File

Coordination:

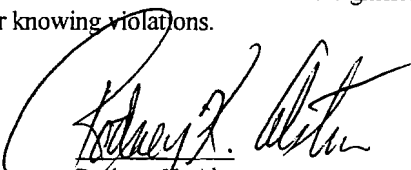

J. McKenna

Concerning the document entitled:

*SWMU 6: Sampling Results Report
Radford Army Ammunition Plant
May 2001*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

SIGNATURE:
PRINTED NAME:
TITLE:


Rodney K. Alston
LTC, CM, Commanding
Radford AAP

SIGNATURE:
PRINTED NAME:
TITLE:


Ken Dolph
Vice President Operations
Alliant Ammunition and Powder Company, LLC

11

ATTACHMENT 1
SWMU 6 SAMPLING RESULTS REPORT
RESPONSE TO EPA AND VADEQ COMMENTS ON THE JAN 2001 DRAFT

EPA Comments

Section 5, Table 5: *Please list the units for the soil RBCs for VOCs and SVOCs, pesticides and aroclors. Please insure that the units specified for the detected VOCs, SVOCs, pesticides, and aroclors are the same as the RBC values to allow ease in comparing the concentration values.*

Response: Table 5 has been revised to address the comment. Organic data are presented as µg/Kg and inorganic data are presented as mg/Kg. Applicable RBCs are presented in the same units.

Section 5, Table 5: *Please list the units for the soil RBCs for the TAL metals. At a glance, the units are mg/kg. Additionally, please specify the units for the detected TAL metals and insure that they are the same as the RBC values to allow for ease in comparison.*

Response: Table 5 has been revised to address the comment. Inorganic data are presented as mg/Kg. Applicable RBCs are presented in the same units.

Section 5, Table 5: *Please note that 400 ppm lead is an appropriate residential soil screening value for use at the RAAP, and 1,000 ppm lead is the appropriate industrial soil screening value for use at the RAAP. Please include these values in Table 5.*

Response: Table 5 has been revised to address the comment. The values of 400 mg/Kg (residential) and 1,000 mg/Kg (industrial) have been added.

Section 5, Table 6: *Please note that 400 ppm lead is an appropriate residential soil screening value and 1,000 ppm lead is the appropriate industrial soil screening value for use at the RAAP. Please include these values in Table 6.*

Response: Table 6 has been revised to address the comment. The values of 400 mg/Kg (residential) and 1,000 mg/Kg (industrial) have been added.

Section 5, Table 6: *Please note that there are residential and industrial soil screening values developed for Aroclor 1221, 1232, 1242, and 1248 (all the same) for use at the RAAP. Please include these values in Table 6.*

Response: Table 6 has been revised to address the comment. The values for these PCB Aroclors have been added.

Section 5, Table 6: *Please utilize the mercuric chloride soil RBC values for residential and industrial soil screening values for mercury in soil at the RAAP, unless the soil is highly organic or if you are evaluating sediments. In case of organic soil and sediments, please utilize the methylmercury soil RBC values for residential and industrial human health screening values.*

Response: Table 6 has been revised to address the comment. The RBC values for mercuric chloride have been added.

Section 5, Table 6: *Please utilize the chlordane soil RBC values for residential and industrial soil screening as listed in the 10/5/2000 RBC table. Please include these values in Table 6. As a general rule of thumb, please be sure to utilize the latest RBC table values.*

Response: Table 6 has been revised to address the comment. The RBC values for total chlordane have been added for both alpha- and gamma-chlordane.

Section 5.5: *Please provide reasoning for why ecological risk screening was not performed on the data obtained for SWMU 6.*

Response: Planned activities at SWMU 6 are for a construction-related project. During construction, subsurface soil to a depth of 25 feet is planned for removal and subsequent disposal. The original purpose of this investigation was to evaluate: (1) residual risk (human health) of any remaining subsurface soils not excavated as part of construction, and (2) the appropriate disposition of soils excavated from the SWMU area.

Given that construction of holding tanks and other manufactured surface features will cover the SWMU area, the long-term concern at the site is what will be left after construction activities rather than the current conditions. The SWMU 6 area does not contain surface water, eliminating that as a potential ecological exposure pathway. Potential ecological risk concerns at

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the site would be primarily related to exposure to surface soil (terrestrial); however, construction activities involve surface soil removal from the site, eliminating the surface soil pathways as well. Further ecological risk will not be a potential concern (terrestrial) because the SWMU area will be covered by structures and their appurtenances.

Executive Summary and Table 5: Please note that the RBC values listed for bis(2-ethylhexyl)phthalate do not appear to be correct. Please compare the table values within the 10/5.2000 RBC tables. Also, please insure that the units used in comparison are equivalent.

Response: The executive summary and Table 5 have been revised to address the comment.

Section 7: Please include a summary table listing the SWMU 6 Contaminants of Concern (COCs) that failed the RBC residential table value comparison, as well as the RBC industrial table value comparison, i.e., a table that identifies residential COCs and industrial COCs.

Response: Please note the addition of Table 7, Summary of Contaminants of Potential Concern.

The following constituents are identified in the draft Report as exceeding RBCs:

TCL Semivolatiles: - bis (2-ethylhexyl)phthalate

TAL Metals: -aluminum

-arsenic
-chromium
-iron
-manganese
-thallium
-vanadium

Please verify the RBC values used in determining these COCs, and well as the units.

Following reevaluation, the compounds listed in Comment 11 have been revised to reflect the exclusion of bis (2-ethylhexyl) phthalate. Seven (7) TAL metals remain.

Section 7: In the conclusion section, it is important to state that when the Background Report is finalized for the RAAP, the COCs listed in this report will be compared to RAAP background concentrations in the appropriate manner described in the final Background Report. It is important to note that if ALL of the COCs identified in SWMU 6 Report are determined to be within background concentrations, then the Army will be required to prepare a summary report documenting that an RFI is not required for SWMU 6, per the EPA RCRA Corrective Action Permit, part II, Section D.7.b. Conversely, if COCs identified in the final SWMU 6 report are found to be above background, then an abbreviated CMS will need to be prepared outlining the need for land use controls at SWMU 6, and a draft Statement of Basis drafted by the Army, i.e., Part II. Section D. 23 et. al. of the Permit.

Response: The text on Page 41, Section 7, Summary and Conclusions, has been revised to indicate compliance with the comments presented. We request that this revision of the SWMU 6 Sampling Results Report be accepted as final. An appropriate summary letter report or an abbreviated CMS documenting comparison of COCs to background will be submitted as part of the future closure process for SWMU 6.

The final SWMU 6 Sampling Report must include a schedule for any additional required work as outlined in Comment 12 above.

Response: Please note the addition of Figure 11, Proposed Schedule for Future Activities.

Virginia Department of Environmental Quality Comments

Page ii, first full paragraph, second sentence – I believe that there is a typographical error and that the intent was to state that aluminum detections were above residential RBCs and below industrial RBCs.

Response: Please note that the typographical error has been corrected.

Rec'd ENV 4-26-01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

15.
C. Jake
Redder
[redacted]
ENV file

21-44

April 16, 2001

In reply
Refer to 3HS13

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Commander,
Radford Army Ammunition Plant
Attn: SIORF-SE-EQ (Jim McKenna)
P.O. Box 2
Radford, VA 24141-0099

C.A. Jake
Environmental Manager
Alliant Techsystems, Inc.
Radford Army Ammunition Plant
P.O. Box 1
Radford, VA 24141-0100

Re: Radford Army Ammunition Plant
Draft Report submittals and reviews

Dear Mr. McKenna and Ms. Jake:

The U.S. Environmental Protection Agency (EPA) has reviewed the Army's draft *SWMU 6 Sampling Results Report*, dated January, 2001 for the Radford Army Ammunition Plant (RAAP). Based upon our review, EPA has the following comments:

1. **Section 5, Table 5:** Please list the units for the soil RBCs for VOCs and SVOCs, pesticides and aroclors. Please insure that the units specified for the detected VOCs, SVOCs, pesticides, and aroclors are the same as the RBC values to allow ease in comparing the concentration values.

2. **Section 5, Table 5:** Please list the units for the soil RBCs for the TAL metals. At a glance, the units are mg/kg. Additionally, please specify the units for the detected TAL metals and insure that they are the same as the RBC values to allow for ease in comparison.
3. **Section 5, Table 5:** Please note that 400 ppm lead is an appropriate residential soil screening value for use at the RAAP, and 1,000 ppm lead is the appropriate industrial soil screening value for use at the RAAP. Please include these values in Table 5.
4. **Section 5, Table 6:** Please note that 400 ppm lead is an appropriate residential soil screening value and 1,000 ppm lead is the appropriate industrial soil screening value for use at the RAAP. Please include these values in Table 6.
5. **Section 5, Table 6:** Please note that there are residential and industrial soil screening values developed for Aroclor 1221, 1232, 1242, and 1248 (all the same) for use at the RAAP. Please include these values in Table 6.
6. **Section 5, Table 6:** Please utilize the mercuric chloride soil RBC values for residential and industrial soil screening values for mercury in soil at the RAAP, unless the soil is highly organic or if you are evaluating sediments. In case of organic soil and sediments, please utilize the methylmercury soil RBC values for residential and industrial human health screening values.
7. **Section 5, Table 6:** Please utilize the chlordane soil RBC values for residential and industrial soil screening as listed in the 10/5/2000 RBC table. Please include these values in Table 6. As a general rule of thumb, please be sure to utilize the latest RBC table values.
8. **Section 5.5:** Please provide reasoning for why ecological risk screening was not performed on the data obtained for SWMU 6.
9. **Executive Summary and Table 5:** Please note that the RBC values listed for bis(2-ethylhexyl)phthalate do not appear to be correct. Please compare the table values with the 10/5/2000 RBC tables. Also, please insure that the units used in comparison are equivalent.
10. **Section 7:** Please include a summary table listing the SWMU 6 Contaminants of Concern (COCs) that failed the RBC residential table value comparison, as well as the RBC industrial table value comparison, i.e. a table that identifies residential COCs and industrial COCs.
11. The following constituents are identified in the draft *Report* as exceeding RBCs:
 TCL Semivolatiles: - bis (2-ethylhexyl)phthalate
 TAL Metals: -aluminum
 -arsenic
 -chromium
 -iron
 -manganese

-thallium
-vanadium

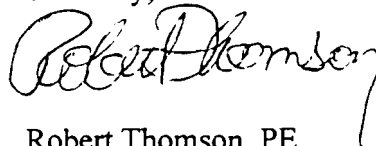
Please verify the RBC values used in determining these COCs, and well as the units.

12. **Section 7:** In the conclusion section, it is important to state that when the *Background Report* is finalized for the RAAP, the COCs listed in this report will be compared to RAAP "background" concentrations in the appropriate manner described in the final *Background Report*. It is important to note that if ALL of the COCs identified in *SWMU 6 Report* are determined to be within "background" concentrations, then the Army will be required to prepare a summary report documenting that an RFI is not required for SWMU 6, per the EPA RCRA Corrective Action Permit, Part II, Section D. 7.b. Conversely, if COCs identified in the final *SWMU 6* report are found to be above "background", then an abbreviated CMS will need to be prepared, outlining the need for land use controls at SWMU 6, and a draft Statement of Basis drafted by the Army, i.e. Part II. Section D. 23 et. al. of the Permit.
13. The final *SWMU 6 Sampling Report* must include a schedule for any additional required work as outlined in Comment 12 above.

This concludes EPA's review of the Army's draft *SWMU 6 Sampling Results Report*, dated January, 2001 for the RAAP. The referenced **draft Report** is **disapproved** by EPA in its current form, and must be revised to reflect the comments above. Per the EPA RCRA Corrective Action Permit, Part II, Section E.4.e., the Army is required to revise the draft document and submit a revised **draft** copy to EPA for review **within 60 days** of the receipt of EPA comments on the draft document. Part II, Section E.4.f. of the Permit allows for an additional 20 days for issuing the revised draft document to EPA provided that timely notice is given, i.e. **within 10 days**. Additional time extensions can be requested under Part II, Section F. of the permit.

If you have any questions, please call me at 215-814-3357.

Sincerely,



Robert Thomson, PE
Federal Facilities Branch

cc: Russell Fish, EPA
Alvaro Alvarado, Ph.D., EPA
Leslie Romanchik, VDEQ-RCRA
Sharon Wilcox, VDEQ-CERCLA



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III
Governor

John Paul Woodley, Jr.
Secretary of Natural Resources

Street address: 629 East Main Street, Richmond, Virginia 23219
Mailing address: P.O. Box 10009, Richmond, Virginia 23240
Fax (804) 698-4500 TDD (804) 698-4021
<http://www.deq.state.va.us>

Dennis H. Treacy
Director

(804) 698-4000
1-800-592-5482

February 21, 2001

Mr. James McKenna
Radford Army Ammunition Plant
SIORF-SE-EQ
P.O. Box 2
Radford, VA 24141-0099

RE: SWMU 6 Sampling Results Report
Radford Army Ammunition Plant
Radford, Virginia, January 2001

Dear Mr. McKenna:

Thank you for the opportunity to review the above referenced document. There is only one minor comment at this time.

- Page ii, first full paragraph, second sentence – I believe that there is a typographical error and that the intent was to state that aluminum detections were above residential RBCs and below industrial RBCs.

As an additional note, I have forwarded the soil background study to our staff statistician for additional review. Please contact me at 804-698-4143 if you have any questions.

Very truly,

Sharon Skutle Wilcox
Office Of Remediation Programs

cc: Robert Thompson, Region III, U.S.EPA
Durwood Willis, CO
Norm Auldridge, WCRO
Aziz Farahmand, WCRO

C Jerry Redder, ATK



January 26, 2001

Radford Army Ammunition Plant
Route 114, P.O. Box 1
Radford, VA 24141
USA

Mr. Robert Thomson
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Subject: SWMU 6: Soil Sampling Report
Radford Army Ammunition Plant,
EPA ID# VA1 210020730

Dear Mr. Thomson:

Enclosed is one certified copy of the subject report. Your five additional copies and Mr. Willis' and Ms. Wilcox's copies will be sent under separate cover.

The contents of this report are based on the field work executed in accordance with Work Plan Addendum 011: Soil Sampling and Reporting at SWMU 6 as approved by EPA on December 11, 2000.

Please coordinate with and provide any questions or comments to myself at (540) 639-8266, Jerry Redder of my staff (540) 639-7536 or Jim McKenna, ACO Staff (540) 639-8641.

Sincerely,

A handwritten signature in cursive script, appearing to read "C. A. Jake".

C. A. Jake, Environmental Manager
Alliant Ammunition and Powder Company LLC

Enclosure

c: w/o enclosure
Durwood Willis
Virginia Department of Environmental Quality
P. O. Box 10009
Richmond, VA 23240-0009

Sharon Wilcox
Virginia Department of Environmental Quality
P. O. Box 10009
Richmond, VA 23240-0009

w/o enclosure
Russell Fish, P.E., EPA Region III

bc: Administrative File
J. McKenna, ACO Staff
S. J. Barker, ACO Staff
Rob Davie, ACO Staff
C. A. Jake
J. J. Redder
Env. File

Coordination:

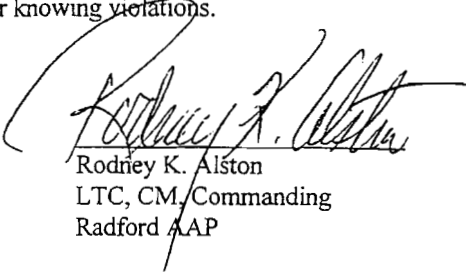
A handwritten signature in cursive script, appearing to read "J. McKenna".
J. McKenna

Concerning the following document entitled:

SWMU 6 Sampling Results Report
Radford Army Ammunition Plant
Radford, Virginia
January 2001

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

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PRINTED NAME:
TITLE:



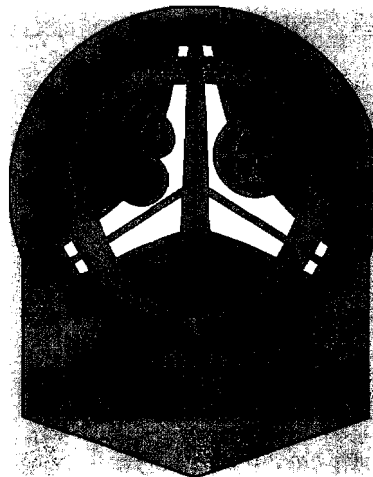
Rodney K. Alston
LTC, CM, Commanding
Radford AAP

SIGNATURE:
PRINTED NAME:
TITLE:



Ken Dolph
Vice President Operations
Alliant Ammunition and Powder Company LLC

SWMU 6 SAMPLING RESULTS REPORT



RADFORD ARMY AMMUNITION PLANT RADFORD, VIRGINIA

Prepared for:

USACE Baltimore District

**Delivery Order No. 0018
Contract No. DACA31-00-D-0011**

May 2001

PREPARED BY:

URS

Dames & Moore

**5540 Falmouth Street, Suite 201
Richmond, Virginia 23230
(804) 965-9000 main
(804) 965-9764 fax**

EXECUTIVE SUMMARY

URS/Dames & Moore (URS) conducted Soil Sampling and Reporting at Solid Waste Management Unit (SWMU) 6, Acid Wastewater Lagoon at the Radford Army Ammunition Plant (RFAAP), Radford, Virginia in accordance with Work Plan Addendum No. 11 as approved by USEPA Region III. This effort is critical for the Production Base Support (PBS) project to construct nitrocellulose (NC) settling tanks in an area that includes SWMU 6. It will allow RFAAP to properly manage the excavated material during construction and to prevent future sampling under the tanks once the construction is complete.

The specific objectives of the soil sampling and reporting at SWMU 6 were: (1) to collect and chemically analyze composite and discrete subsurface soil samples from overburden soils; (2) to perform an evaluation of the data with respect to RCRA hazardous waste characteristics; and (3) to provide data that can be used to evaluate residual risk through comparison to USEPA residential and industrial Region III Risk Based Concentrations (RBCs).

To achieve these objectives, twelve soil borings were advanced. One representative composite sample was collected from the overburden soil, and one representative discrete sample of the soils at depth from each of the twelve soil borings. The composite overburden samples were analyzed for full Toxicity Characteristics Leaching Procedure (TCLP) including TCLP metals, TCLP volatile organic compounds (VOCs), TCLP semi-volatile organic compounds (SVOCs), TCLP pesticides, and TCLP herbicides, plus corrosivity, reactivity (percent nitrocellulose), and paint filter liquids, in accordance with SW-846 Methods. Results were compared to the Regulatory TCLP limits for hazardous waste set forth in 40 CFR 261, to assess the appropriate disposal methods for soil excavated as part of the PBS project.

Discrete samples were collected below the planned excavation depth of 25-feet below ground surface (bgs), or at probe refusal (if less than 25-feet bgs). Each of the twelve discrete samples was analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs), TCL Semi-Volatile Organic Compounds (SVOCs), TCL pesticides/ aroclors, Target Analyte List (TAL) metals, and explosives following SW-846 Methods. Soil analytical results were compared to USEPA Region III Residential and Industrial RBC Tables to evaluate the residual risk of compounds detected in the discrete samples.

The results of the laboratory analysis indicate that several of the TCLP analytes (for evaluation of overburden soils as hazardous waste) were reported at values that are above the laboratory detection limits. However, none of the analytes detected exceeded the Regulatory TCLP limits for hazardous waste. Based on these results, the soil excavated as part of the construction project will likely not have to be disposed of as hazardous waste.

The results of the laboratory analysis indicate that several of the TAL/TCL analytes (for evaluation of discrete samples for residual risk) were reported at concentrations that are above the laboratory detection limits. Four (4) TCL VOCs, one (1) TCL SVOC, seven (7) TCL pesticide/PCBs, one (1) explosive and twenty-two (22) TAL metals were detected in the discrete samples. Of these detections,

none of the TCL VOCs or SVOCs were present above the applicable RBC criteria. Detected TCL Pesticides/PCBs and explosive concentrations were less than applicable RBC criteria. Aluminum (10,200 to 49,600 mg/Kg) detections were above the residential RBC of 7,800; however, these detections were below the industrial RBC of 200,000 mg/Kg. Arsenic detections (3.8 to 7.6 mg/Kg) were above the residential and industrial RBCs of 0.43 and 3.8 mg/kg, respectively. Chromium detections (18.6 to 51.5 mg/Kg) were above the residential RBC of (23 mg/kg); however, these detections were below the industrial RBC of 610 mg/kg. Iron detections (20,500 to 40,400 mg/Kg) were above the residential RBC of 2,300 mg/kg; however, these detections were below the industrial RBC of 61,000 mg/kg. Manganese detections (181 to 1,510 mg/Kg) were above the residential RBC of 160 mg/kg; however, these detections were below the industrial RBC of 4,100 mg/Kg. The thallium detection (1.2 mg/Kg) was above the residential RBC of 0.55 mg/kg; however, these detections were below the industrial RBC of 14 mg/Kg. Vanadium detections of greater than 55 to 89.9 mg/Kg were above the residential RBC of 55 mg/kg; however, these detections were below the industrial RBC of 1,400 mg/Kg.

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APPENDIX B	Boring Logs
APPENDIX C	Data Reporting Qualifiers
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\\D3NT01\DMPROJ\09604-242 RAAP SWMU6\Sampling Results Report\Revised FINAL VERSION TO USACE AND EPA\Revised FINAL SWMU 6 report.doc

ACRONYMS LIST

µg/Kg	Micrograms per kilogram
µg/L	Micrograms per liter
Addendum	Work Plan Addendum No. 11
ATK	Alliant Techsystems
bgs	below ground surface
CAS	Chemical Abstract Service
COPC	Contaminant of Potential Concern
CLCs	Common laboratory contaminants
CRDL	Contract Required Detection Limit
GOCO	Government-Owned, Contractor-Operated
HBNs	Health Based Numbers
IDM	Investigative Derived Material
MMA	Main Manufacturing Area
msl	mean sea level
MWP	RFAAP Master Work Plan
NC	Nitrocellulose
NRU	New River Unit
PID	photoionization detector
PPE	Personal protective equipment
PQLs	Practical Quantitation Limits
RBCs	Risk Based Concentrations
RCRA	Resource Conservation and Recovery Act
RFAAP	Radford Army Ammunition Plant
RL	Reporting Limit
SOPs	Standard Operating Procedures
SVOCs	Semi-Volatile Organic Compounds
SWMU	Solid Waste Management Unit
TAL	Target Analyte List
TCE	trichloroethene
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TDS	Total Dissolved Solids
TOC	Total Organic Carbon
TOX	Total Organic Halogen
USEPA	U.S. Environmental Protection Agency, Region III
VI	Verification Investigation
VOCs	Volatile Organic Compounds
WPA	Work Plan Addendum No. 11

1.0 INTRODUCTION

In accordance with Contract Number DACA31-00-D-0011, Delivery Order No. 0018, URS/Dames & Moore (URS) was tasked by U. S. Army Corps of Engineers (USACE), Baltimore District to perform Soil Sampling and Reporting at Solid Waste Management Unit (SWMU) 6, Acid Wastewater Lagoon, located in the Main Manufacturing Area (MMA) at the Radford Army Ammunition Plant (RFAAP), Radford, Virginia (Figure 1). The objective was to collect and analyze subsurface soil samples from SWMU 6 and perform an evaluation of the resultant data with respect to Resource Conservation and Recovery Act (RCRA) hazardous waste characteristics and U.S. Environmental Protection Agency, Region III (USEPA) Risk Based Concentrations (RBCs). USACE, USEPA, and RFAAP approved Work Plan Addendum No. 11 which addressed site-specific investigative activities conducted as part of the investigation.

The specific objectives of the soil sampling and reporting at SWMU 6 were: (1) to collect and chemically analyze composite and discrete subsurface soil samples from overburden soils; (2) to perform an evaluation of the data with respect to RCRA hazardous waste characteristics; and (3) to provide data that can be used to evaluate residual risk through comparison to USEPA residential and industrial Region III RBCs. This is necessary to properly manage excavated soils that will be generated as part of the Production Base Support (PBS) project to construct nitrocellulose (NC) settling tanks at SWMU 6. The planned depth of excavation is 25 feet.

Section 2.0 of this report contains a description of SWMU 6 and a brief overview of its history. Section 3.0 presents the environmental setting of SWMU 6, including general topography and geology, as well as a discussion of the site soils encountered during the investigation. Section 4.0 presents a summary of the field program, including a general overview of the sampling program and the rationale. Section 4.0 also presents a summary of the laboratory analytical program, including a summary of the analytical methods used for the laboratory analysis of the soil samples and a discussion of comparison criteria (RCRA hazardous waste characteristics and Industrial and Residential RBCs). Section 5.0 presents the results of the laboratory analyses for the samples collected, as well as the identification of samples that exceeded the comparison criteria. Section 6.0 presents information regarding the disposal of the investigative derived material (IDM) generated during the investigation.

2.0 INSTALLATION DESCRIPTION AND BACKGROUND

RFAAP is a government-owned, contractor-operated (GOCO) industrial complex located in Radford, Virginia. It is owned by the U.S. Department of the Army and was operated under contract with Hercules, Inc., from 1941 until 1995 when Alliant Techsystems (ATK) became the operating contractor. The installation consists of two noncontiguous areas: the Main Manufacturing Area (MMA) and the New River Unit (NRU). SWMU 6 is located in the MMA of RFAAP.

The MMA contains approximately 1,969 buildings and occupies 6,900 acres. Facility activities include the manufacturing of solid propellants used in small arms, anti-aircraft and anti-tank weapons, rockets, torpedoes, missile systems, igniters, gas generators, and related items.

2.1 LOCATION

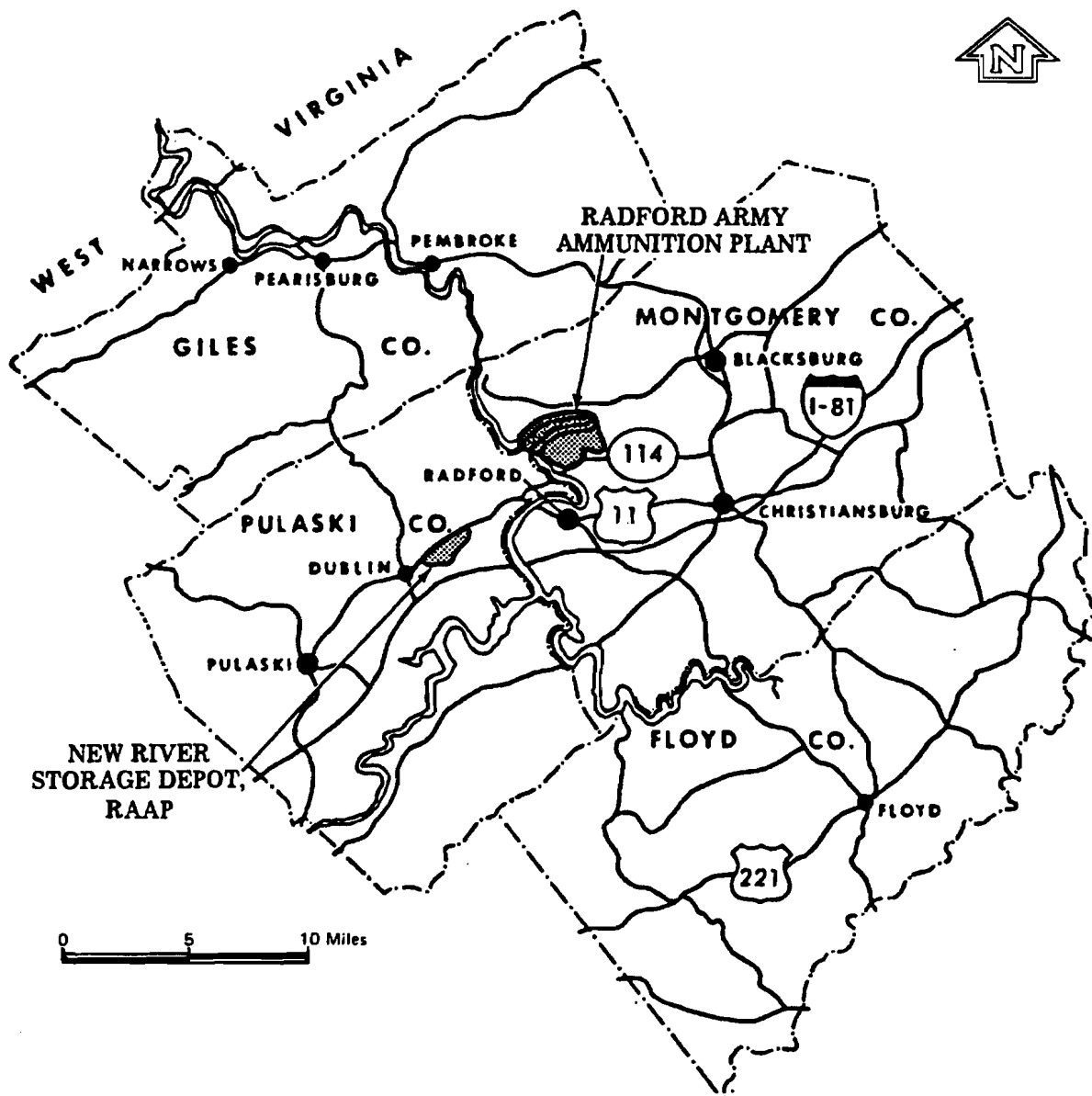
The RFAAP MMA is located approximately 10 miles west of Blacksburg, Virginia and 47 miles southwest of Roanoke, Virginia (Figure 1). It lies in one of a series of narrow valleys typical of the Appalachian Mountain region. The valley is oriented in a northeast-southwest direction, and is approximately 25 miles long and 8 miles wide at the southwest end, narrowing to 2 miles at its northeast end.

SWMU 6 was historically used as an unlined surface impoundment (i.e., acidic wastewater lagoon). It is located approximately 2,000 feet northwest of the administration area (Figure 2). The lagoon is "tear-dropped" or "triangular" in shape. The boundaries of SWMU 6 were evaluated by reviewing aerial photographs of RFAAP for the period 1937 through 1986 (Figure 3). The earliest presence of SWMU 6 was observed in photographs from 1975 and was also apparent in photographs from 1981 and 1986. Changes in the appearance of SWMU 6 were not observed on the photographs in which it was visible. A copy of the 1986 aerial photograph, which shows the location and boundary of SWMU 6, is provided as Appendix A.

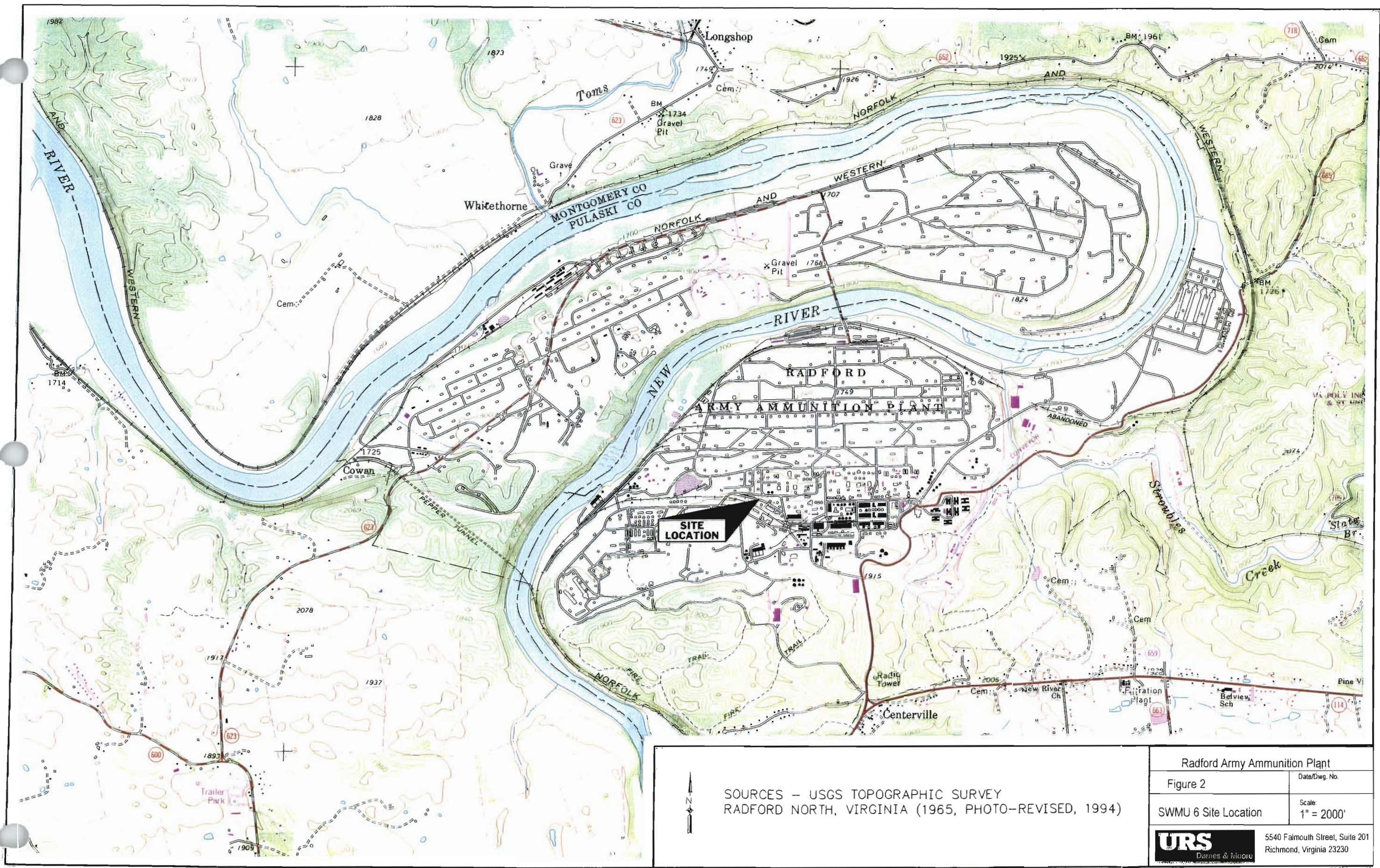
2.2 BACKGROUND INFORMATION

SWMU 6 was used from 1974 to 1980 as an unlined surface impoundment that received overflow and rinse waters from an acid storage tank area in the C-Line nitrocellulose (NC) manufacturing area. During its active life, SWMU 6 received wastewater that typically exhibited the characteristic of a corrosive liquid (RCRA hazardous waste characteristic code D002). There were no overflow controls at the lagoon.

Between 1980 and 1987, the C-Line NC manufacturing area was shut down and no wastewater was introduced to the lagoon. In 1987, the lagoon was filled with soil and replaced by a holding tank.

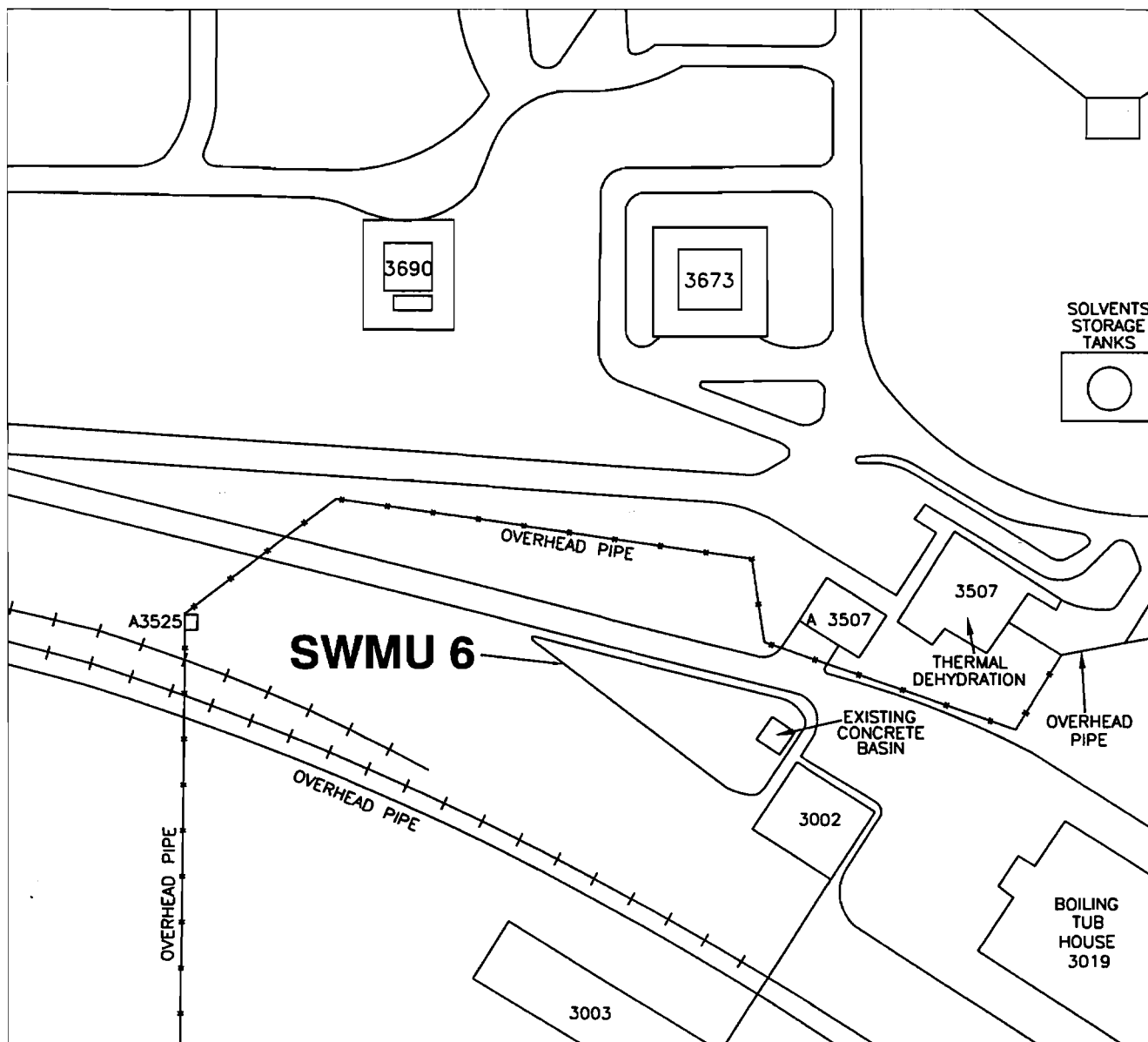


Radford Army Ammunition plant	
Figure 1	Date/Dwg. No.
Vicinity Map	Scale: Not to scale
URS Dames & Moore 5540 Falmouth Street, Suite 201 Richmond, Virginia 23230	



SOURCES — USGS TOPOGRAPHIC SURVEY
RADFORD NORTH, VIRGINIA (1965, PHOTO-REVISED, 1994)

Radford Army Ammunition Plant	
Figure 2	Date/Dwg. No.
SWMU 6 Site Location	Scale: 1" = 2000'
URS Dames & Moore	
5540 Falmouth Street, Suite 201 Richmond, Virginia 23230	



0 100 Feet
APPROXIMATE SCALE

Radford Army Ammunition Plant (RFAAP)
SWMU 6 Sampling Results Report

Figure 3

SWMU 6

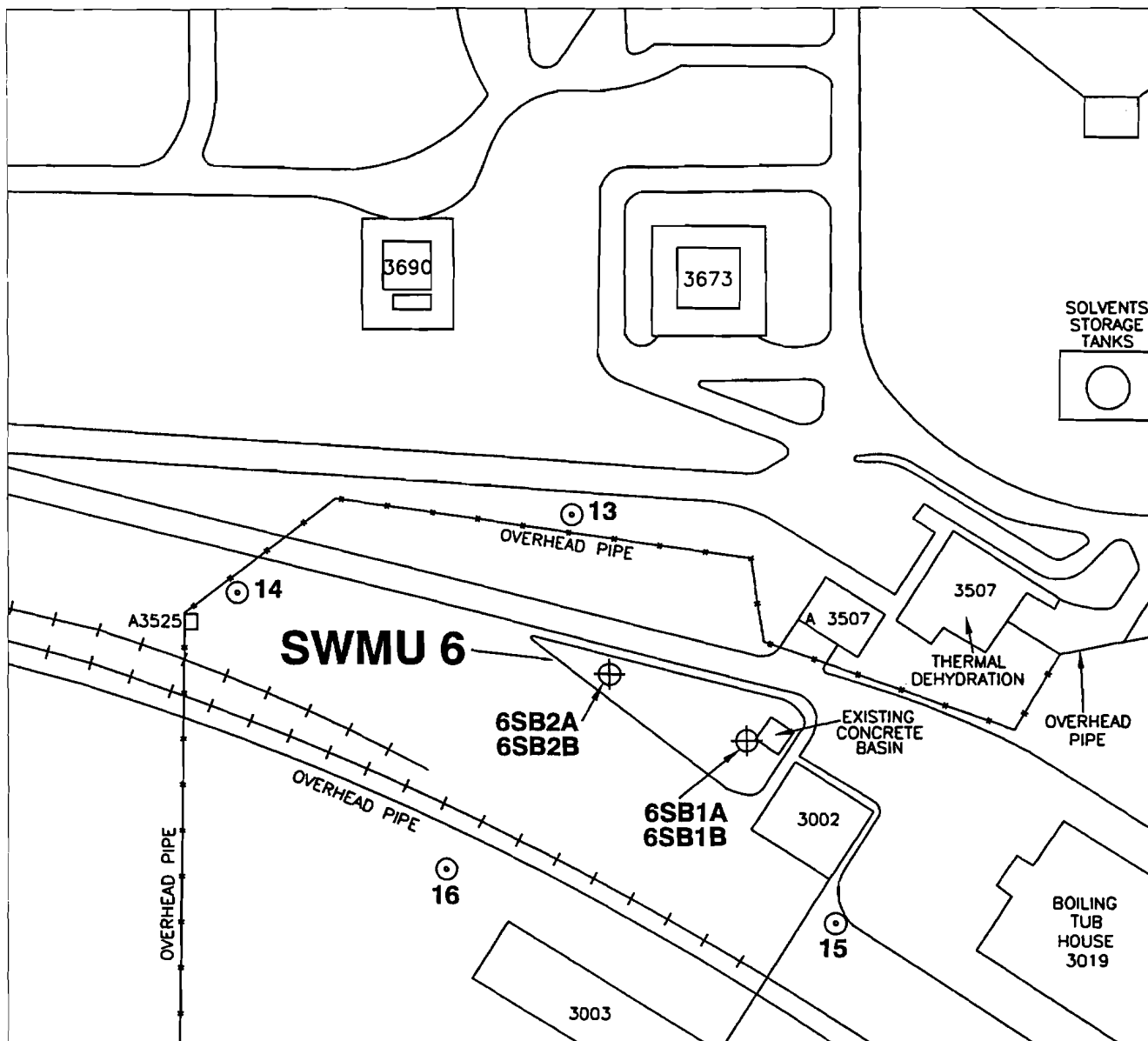
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Scale:
As Shown

Dames & Moore (1992) conducted Verification Investigation (VI) sampling at SWMU 6 to assess whether soil contamination existed associated with acidic wastewater that was formerly discharged to the lagoon. Two boreholes (6SB1 and 6SB2) were drilled at SWMU 6 (Figure 4). Boring 6SB1 was advanced to a depth of 21.0 feet bgs in what was thought to be the deepest part of the former lagoon, which would have likely contained wastewater over the longest time period. Dames & Moore did not observe indications of contamination. Dames & Moore collected two samples from this boring for chemical analysis at depths of 18.0 feet and 20.5 feet below ground surface (bgs). The samples were analyzed for Target Analyte List (TAL) metals and pH.

Dames & Moore drilled boring 6SB2 to a depth of 22.9 feet bgs in what was thought to be a shallower section of the former lagoon. Visual observations of the soil profile indicated the presence of a possible sludge-like material from 14.0 feet to 20.0 feet bgs. Dames & Moore collected two samples from this boring for chemical analysis, 6SB2A and 6SB2B, at depths of 14.0 and 22.0 feet bgs, respectively. The samples were analyzed for TAL metals and pH. Monitoring wells were not installed at SWMU 6 as part of the VI due to the uncertainty that wells would actually intercept groundwater flowing in the karst aquifer beneath the former lagoon area.

Nineteen (19) metals were detected in the four soil samples collected from the former wastewater lagoon. The sample data were compared to Health Based Numbers (HBNs), which were set forth in the installation's first RCRA permit, issued in 1989, which governed activities at the time. Soil sample concentrations of arsenic and cobalt exceeded the HBN criteria in the four samples. Thallium in one sample exceeded the soil HBN criterion in a duplicate analysis; however, the concentration was less than the Practical Quantitation Limit (PQL). No other metal concentrations exceeded HBN criteria.



LEGEND:

- Existing Boring
- Existing Monitoring Well/Boring



0 100 Feet
APPROXIMATE SCALE

**Radford Army Ammunition Plant (RFAAP)
SWMU 6 Sampling Results Report**

Figure 4

Location of Borings 6SB1 and
6SB2 and Ajaent Wells

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Scale:
As Shown

3.0 ENVIRONMENTAL SETTING

3.1 TOPOGRAPHY

SWMU 6 is a flat grassy level area approximately 1,800 feet above mean sea level (msl), located between two upland ridges. To the north, the ridge rises approximately 6 feet; there are asphalt roads and buildings located on this ridge. The ridge to the south rises approximately 10 feet, where railroad tracks and an asphalt road are present. SWMU 6 is located within an industrial area composed of numerous buildings, overhead pipes, railroad tracks, and asphalt roads.

Based on topography, surface water runoff from these ridges on the northern and southern sides of the SWMU flows into the SWMU 6 area. Surface runoff within SWMU 6 likely flows into storm water catch basins located near the northeast and southeast ends of the SWMU.

3.2 GEOLOGY

The RFAAP is located in a region underlain by carbonate rocks (i.e., limestone and dolomite), and therefore, exhibits prominent karstic features including sinkholes, caves, and caverns. Karst landforms occur in carbonate rock formations as the result of the dissolution of rock by naturally occurring carbonic acid in rainwater.

According to previous studies (Dames & Moore, 1992), subsurface conditions observed in the vicinity of SWMU 6 consist of reddish-brown silty clay present in borings to bedrock or borehole termination. These residual deposits (clays and silts) are a result of chemical and physical weathering of the underlying Elbrook Formation (limestone and dolomite). At RFAAP the depth to the Elbrook Formation ranges from 21 feet to greater than 45 feet (Dames & Moore, 1992).

3.3 SITE SOILS ENCOUNTERED - LITHOLOGIC DISCUSSION

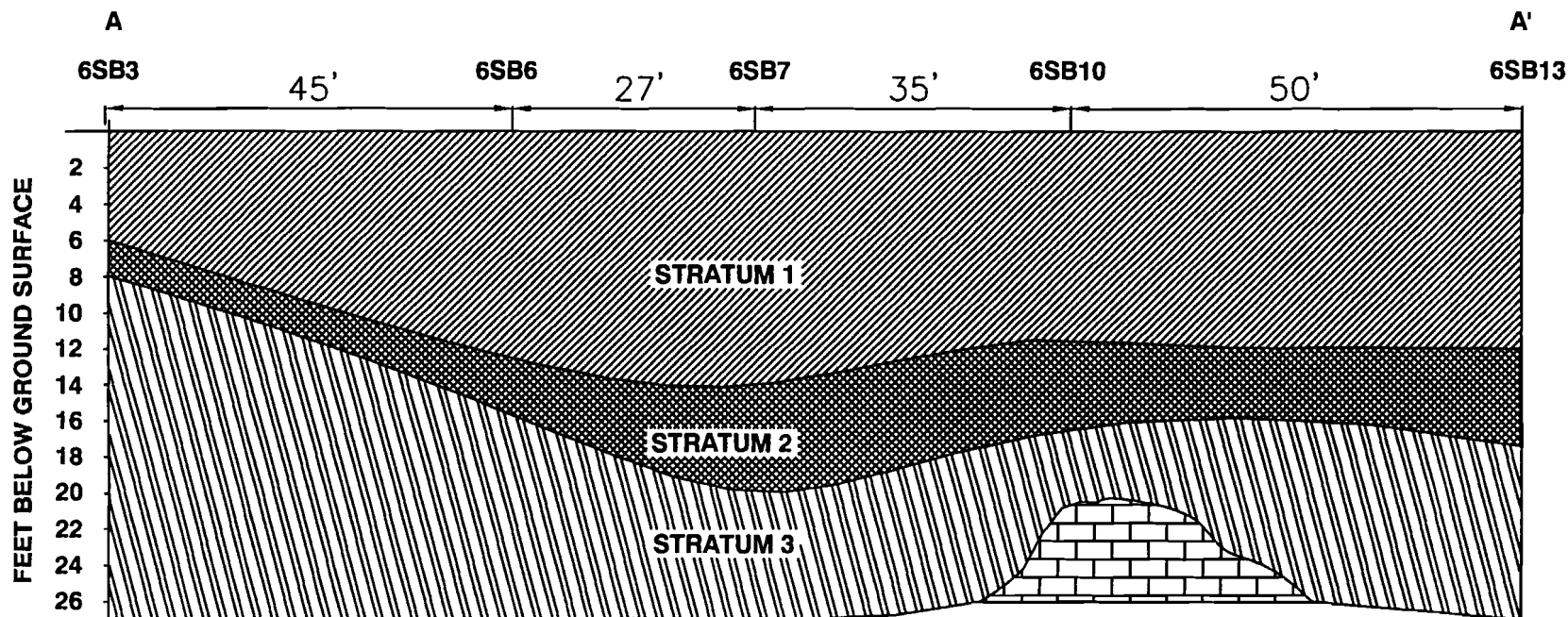
During this field investigation, site soils encountered were similar to the soils described in previous investigations. Copies of the boring logs from this investigation are included as Appendix B. Figures 5 and 6 present cross-sections of soils encountered during the investigation. In general, soils encountered consisted of a thin surface layer of brown-to reddish-brown clayey silty fine sand, with organic matter and root material, which graded to red or strong brown fine sandy clay at approximately 0.5 feet bgs. From 0.5 feet bgs to depths ranging from 6.5 to 19.0 feet bgs, the soils consisted of red, dark yellowish brown or strong brown silty clay. This stratum is referred to as Stratum 1. Variations in sand and moisture content were observed, as well as plasticity in Stratum 1. In addition, variable amounts of gravel were present. In some borings, the sample recovery was limited at depths of 4.0 to 16.0 feet bgs. This was likely due to the presence of gravels, which prevented the soil from entering the sampling device.

Below Stratum 1, a gradational to sharp change to olive, grayish brown or dark- to very dark-gray silty clay/clayey silt was observed. This Stratum is referred to as Stratum 2. Stratum 2 is characterized by a distinct color change from the overlying soil and the presence small (< 1 to 2

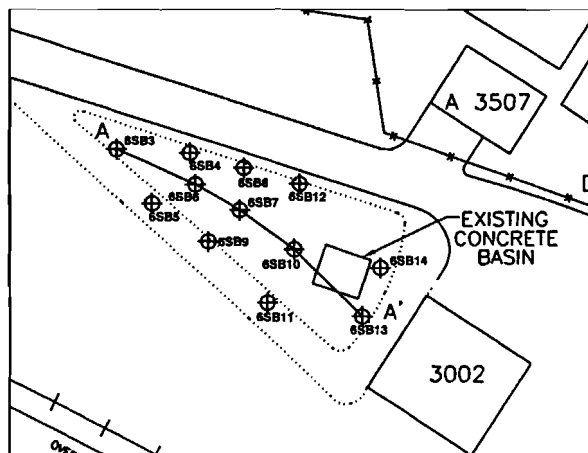
inches) pieces of wood chips and woody matter. Texturally, Stratum 2 ranged from soft silty clay (plastic) to sandy wet clay and silt mixtures, to stiff sandy plastic clay. Thin layers (1 to 2 inches) of sand were present in Stratum 2. It should be noted that the texture of Stratum 2 was consistent with that of a soil and did not appear to be sludge. Stratum 2 is therefore considered to be soil and is discussed as soil herein. The distinct color characteristics of Stratum 2 may be indicative of influence from former operations at the SWMU.

Below Stratum 2, the soil was generally stiff to hard silty clay, of medium to high plasticity, and varied in color from yellowish red to red to strong brown. This layer is identified as Stratum 3 in this report. Stratum 3 was observed to be the hardest of the three Strata and may act as a barrier to the downward movement of groundwater.

Geoprobe® refusal, or probe refusal, occurred in three boring locations at bedrock. Boring 6SB3 was terminated at a depth of 27.9 feet bgs. Boring 6SB5 was terminated at a depth of 17.4 feet bgs and boring 6SB10 was terminated at a depth of 20.4 feet bgs. The remainder of the borings were advanced to a depth of 27 feet bgs without probe refusal or indications of bedrock. The observed variations in depth to bedrock are typical of the carbonate rocks present in the region.



Scale
 V: 1"=10'
 H: 1"=20'
 VE: 2x



Inset Scale 0 100 Feet

LEGEND

- Layer 1 Red, dark yellowish brown or strong brown silty clay.
- Layer 2 Olive, grayish brown, or dark gray silt and clay mixtures or silty clay mixtures often with the presence of woody matter.
- Layer 3 Yellowish red, red to strong brown, stiff to hard plastic silty clay.

Radford Army Ammunition Plant (RFAAP)
 SWMU 6 Sampling Results Report

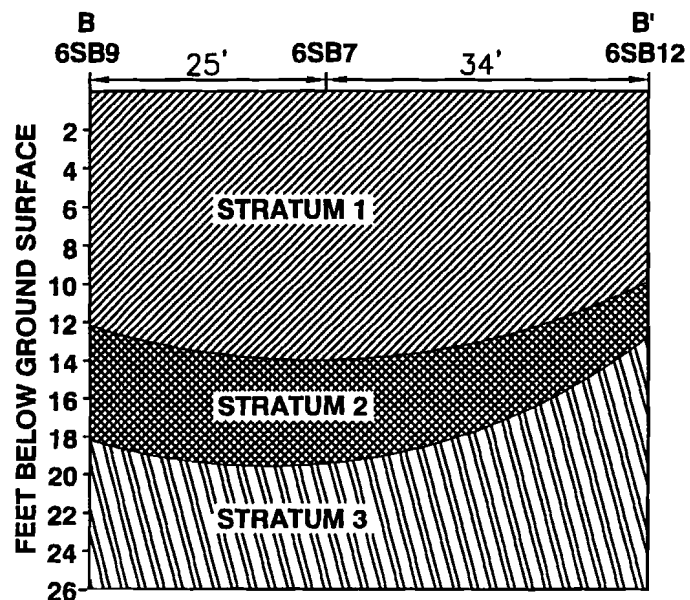
Figure 5

SWMU 6 Interpreted Cross Section
 A to A'

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Scale:
 As Shown

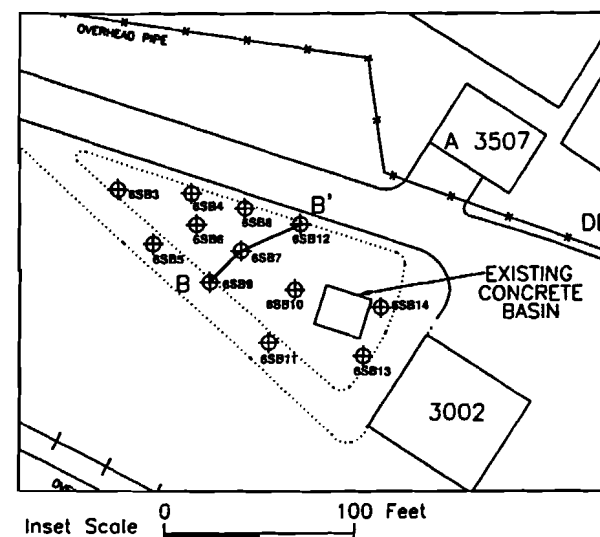
50



Scale
V: 1"=5'
H: 1"=10'
VE: 2x

LEGEND

- Layer 1 Red, dark yellowish brown or strong brown silty clay.
- Layer 2 Olive, grayish brown, or dark gray silt and clay mixtures or silty clay mixtures often with the presence of woody matter.
- Layer 3 Yellowish red, red to strong brown, stiff to hard plastic silty clay.



Radford Army Ammunition Plant (RFAAP) SWMU 6 Sampling Results Report

Figure 6

SWMU 6 Interpreted Cross Section
B to B'

Date/Drawing No.
09604.242.F6.DWG

Scale:
As Shown

4.0 SUMMARY OF FIELD SAMPLING PROGRAM

The purpose of the SWMU 6 sampling program was to collect representative composite samples of the overburden soils and representative discrete samples of the soil at depth (25-feet bgs or at probe refusal) in twelve soil borings advanced in SWMU 6. Each of the twelve composite samples submitted to the laboratory was analyzed for full Toxicity Characteristic Leaching Procedure (TCLP) analysis including TCLP metals, TCLP VOCs, TCLP SVOCs, TCLP pesticides, and TCLP herbicides, plus ignitability, corrosivity, reactivity (percent nitrocellulose) and paint filter liquids according to SW-846 Method protocols. Each of the 12 discrete samples was analyzed for SW-846 Methods: target compound list (TCL) VOCs; TCL semi-volatile organic compounds; TCL pesticides/aroclor; target analyte list (TAL), metals and explosives.

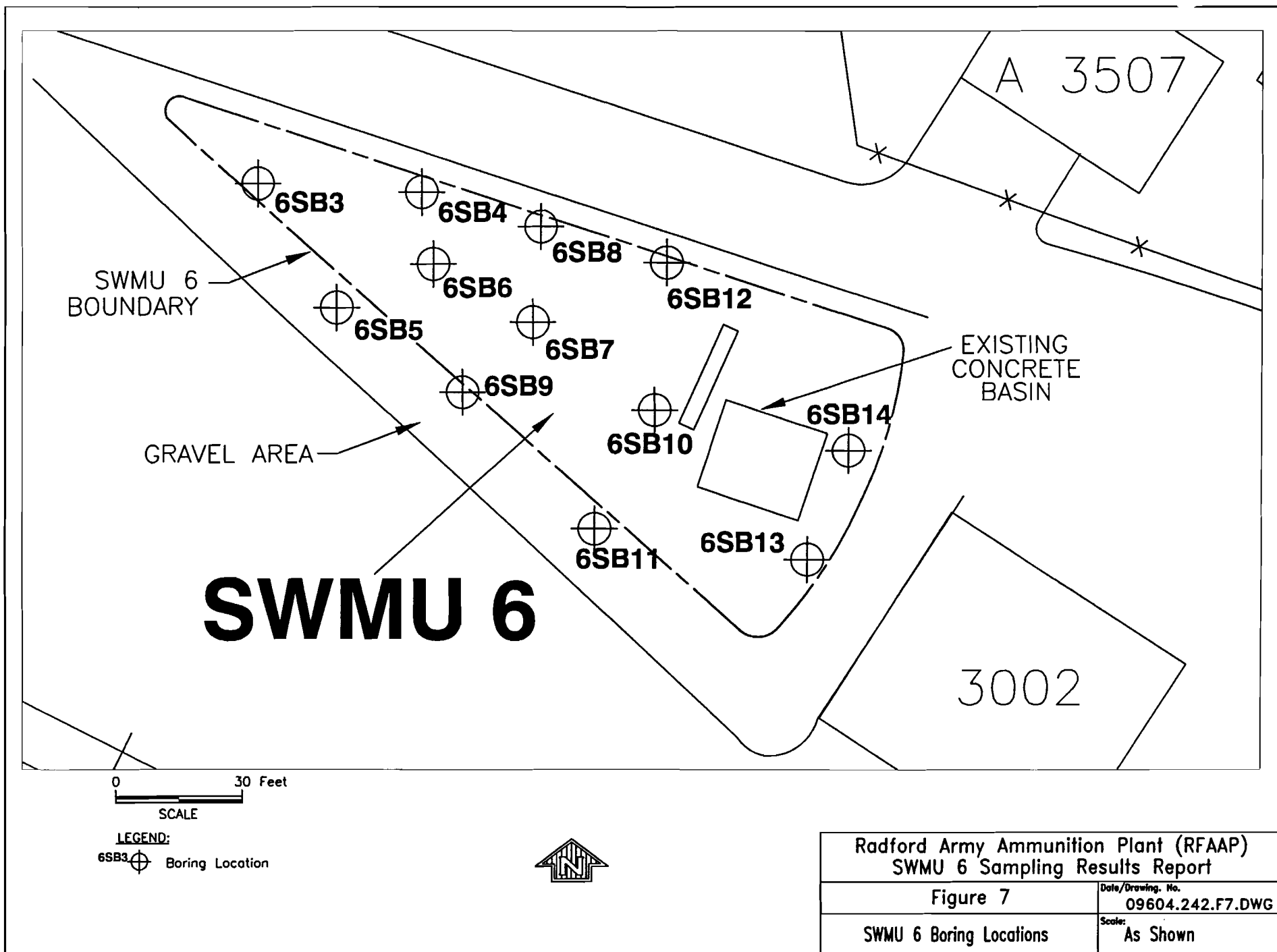
Figure 7 shows the locations of the 12 soil borings, and Figure 8 shows the approximate locations where the settling tanks will be placed relative to SWMU 6. In selecting the locations of subsurface soil samples to be collected, consideration was given to the size and shape of SWMU 6, as well as the overall project objective of evaluating the overburden soils relative to RCRA waste characteristics and providing the information necessary for evaluating the soils at depth relative to USEPA Region III residential and industrial RBCs.

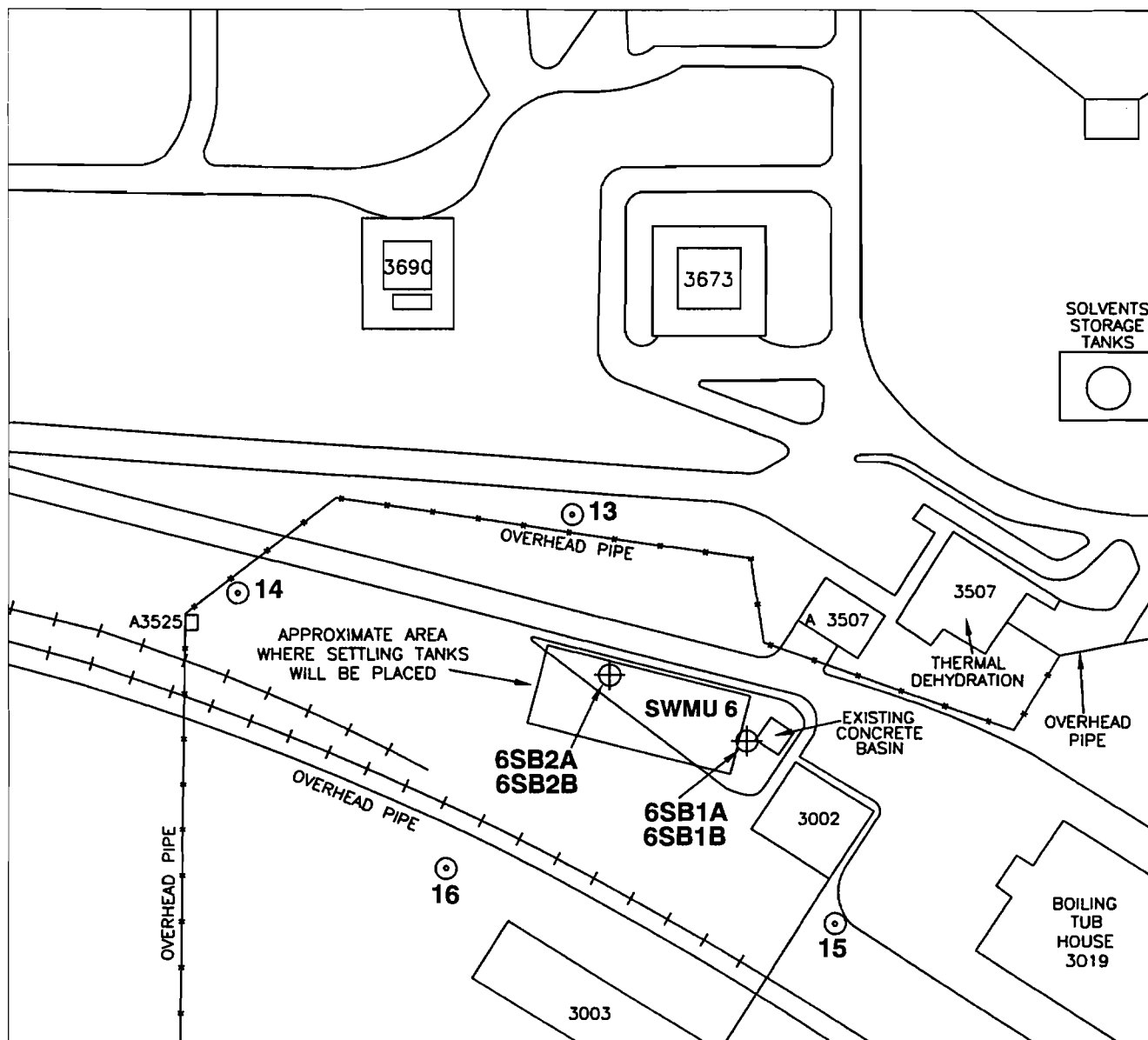
The investigation activities were conducted in accordance with the EPA approved Work Plan Addendum No. 11.

Components of the investigation included subsurface soil sampling and sample collection by direct push technology (Geoprobe®) methods, boring abandonment, stratigraphic logging of the soil borings, sample management, field screening using a portable photoionization detector (PID), field documentation, laboratory analysis, quality assurance practices, and evaluation of the data relative to RCRA hazardous waste characteristics and USEPA Region III residential and industrial RBCs.

4.1 GEOPROBE® SAMPLING

During WPA development and subsequent USEPA concurrence, the number and locations of soil borings was deemed sufficient to provide an appropriate number of samples to: (1) characterize the volume of soil that will ultimately be excavated from SWMU 6; and (2) evaluate the residual risk, if applicable, of soil that will remain at depth. Given the objectives of the sampling program and the planned excavation of a significant portion of the SWMU 6 area, a distribution of 12 soil borings that provides adequate coverage of the SWMU area and allows for the collection of an appropriate number of samples to characterize soils within the SWMU 6 area was selected. Table 1 provides a summary of the samples collected from each boring. Samples collected for "Overburden Characterization" were composite samples while samples collected for "Residual Risk Screening" were discrete samples.





LEGEND:

- ⊕ Existing Boring
- ⊙ Existing Monitoring Well/Boring



0 100 Feet
APPROXIMATE SCALE

**Radford Army Ammunition Plant (RFAAP)
SWMU 6 Sampling Results Report**

Figure 8

Date/Drawing No.
09604.242.F8.DWG

Approximate Area Where
Settling Tanks Will Be Placed

Scale:
As Shown

Table 1
Sample Summary
SWMU 6 Soil Investigation
Radford Army Ammunition Plant, Radford, Virginia

Boring Location #	Sample Designation *	Overburden Characterization	Residual Risk Screening
1	6SB3A	X	
	6SB3B		X
2	6SB4A	X	
	6SB4B		X
3	6SB5A	X	
	6SB5B		X
4	6SB6A	X	
	6SB6B		X
5	6SB7A	X	
	6SB7B		X
6	6SB8A	X	
	6SB8B		X
7	6SB9A	X	
	6SB9B		X
8	6SB10A	X	
	6SB10B		X
9	6SB11A	X	
	6SB11B		X
10	6SB12A	X	
	6SB12B		X
11	6SB13A	X	
	6SB13B		X
12	6SB14A	X	
	6SB14B		X
Number of Overburden Characterization Samples (Composite) 12 Number of Residual Risk Samples (Discrete) 12 Total Number of Samples 24			
Sample Designation <u>Convention</u> SB: Soil Boring A: Composite overburden sample B: Discrete residual risk sample at depth		Overburden Characterization <u>Analytes</u> Full TCLP Ignitability Corrosivity Reactivity (percent of explosive material) Paint Filter	Residual Risk <u>Screening</u> TAL Metals TCL SVOCs TCL VOCs TCL Pesticides/ Aroclors Explosives

* Continuation of Sample Designation convention from the Verification Investigation (VI)
 Report, Dames & Moore, 1992.

6

Boring logs, with information including lithology, boring depth, sample depth, and PID screenings are included in Appendix B. In addition to selecting borings locations that provided geographic coverage of the interior of the SWMU 6 area, borings were placed along the SWMU edges (and in some cases outside the boundaries of the SWMU) to evaluate the potential that constituents may have “leaked” beyond the boundaries of the SWMU.

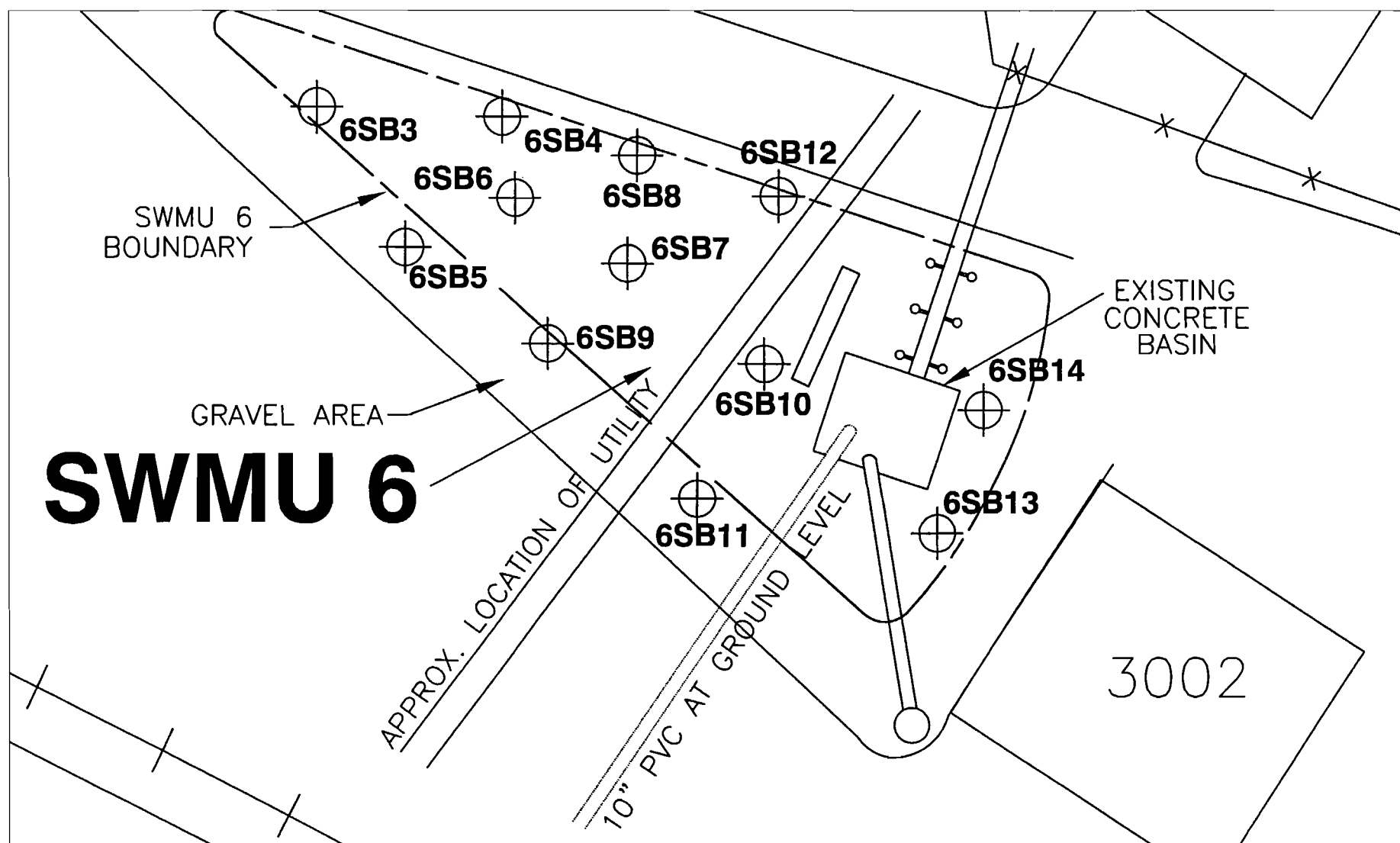
Prior to the start of the investigation, a meeting was held at the SWMU 6 area to discuss the selected soil boring locations (which were flagged within the SWMU), and to evaluate the locations of underground utilities. Personnel present during this meeting represented RFAAP, URS, USACE and ATK. USACE personnel reviewed utility maps and marked potential underground utilities prior to drilling. Subsequently, the proposed boring locations were modified (as flagged in the field and identified in the work plan for this investigation) in the field, based on the identification of the locations of potential underground utilities during this meeting. The approximate locations of underground utilities present at SWMU 6 are shown on Figure 9.

Figure 10 depicts the actual soil boring locations, versus the proposed boring locations identified in the WPA. As shown on Figure 10, borings 6SB3, 6SB5, 6SB9, and 6SB12 were offset to the south. One additional boring was re-positioned from the northern boundary to nearer the center of the SWMU (6SB6). Boring 6SB13 was offset to the east due to the presence of utilities. Boring 6SB12 was offset to the west slightly and boring 6SB10 was offset to the south due to the presence of utilities.

The Geoprobe® is a “direct push” technique, which incorporates a hydraulically powered percussion/probing machine designed specifically for use in the environmental industry. The Geoprobe® uses static force (the truck’s weight) and a percussion hammer to advance small diameter sampling tools into the subsurface to collect soil cores. The macro soil core sample is collected inside a dedicated, pre-cleaned acetate liner; each acetate liner is used once, then discarded (handled as IDM).

Soil borings were advanced using the direct push technology. A four-foot Macro-Core® device was used to collect the samples. Stratigraphic logs for each boring were prepared. During drilling, subsurface soil samples were screened for the presence of organic compounds using a PID. The PID was calibrated against a 100 ppm isobutylene standard calibration gas (since a single VOC constituent of concern was not previously identified) using a 10.2 eV lamp.

The Geoprobe® and other down hole equipment and tools were steam cleaned daily prior to use at the site. The down-hole equipment and tools were decontaminated on site between each boring location. Following each soil sampling interval (i.e., 4-foot section), the Macro-Core®-cutting shoe (the end of the Macro-Core® that comes in contact with the soil) was decontaminated in accordance with the WPA. Decontamination water was containerized on site.



0 30 Feet

SCALE

LEGEND:

6SB3  Boring Location

Radford Army Ammunition Plant (RFAAP)
SWMU 6 Sampling Results Report

Figure 9

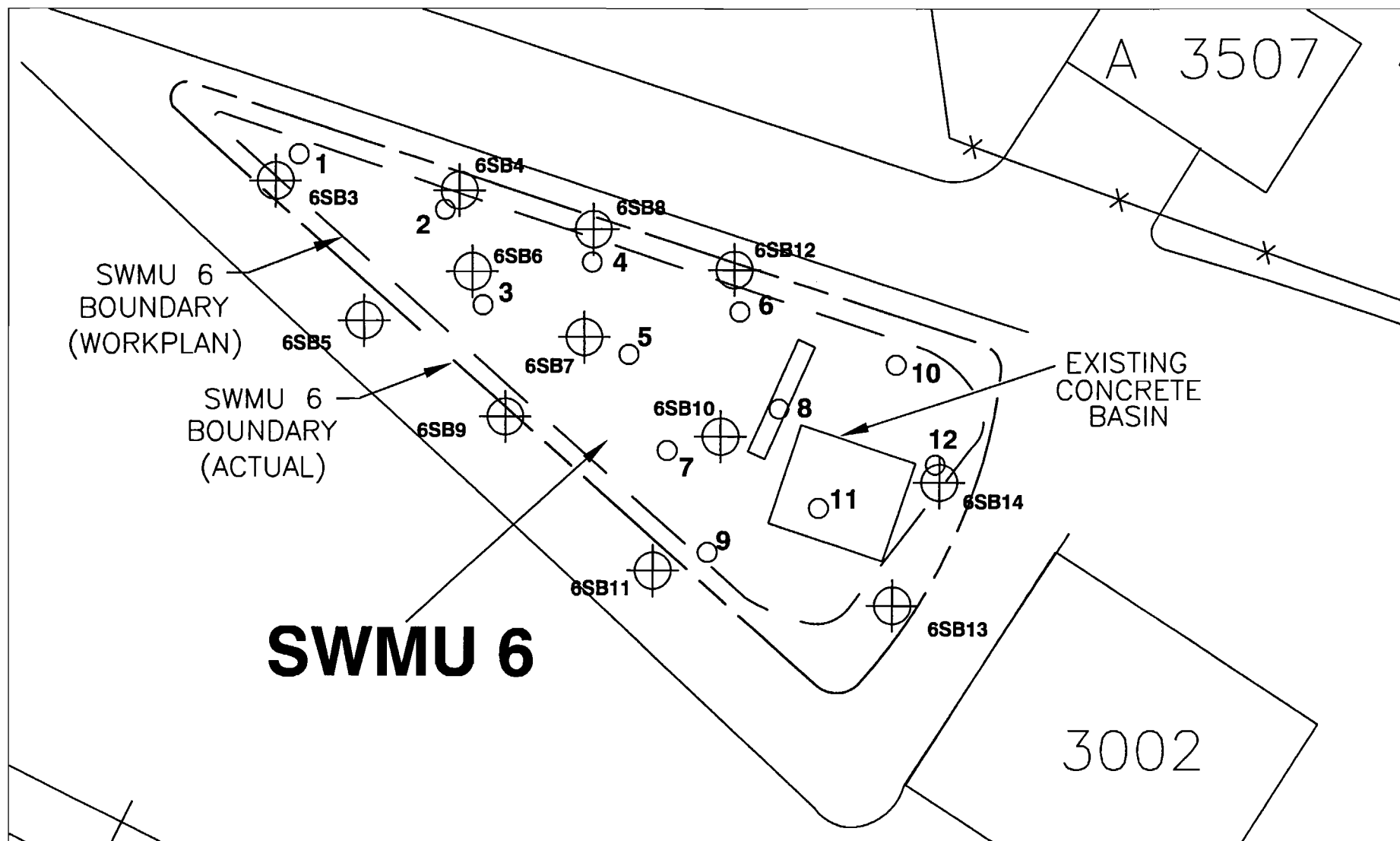
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SWMU 6 Approximate Location of
Existing Utilities

Scale:

As Shown



LEGEND:
 6SB3 ⊕ Actual Boring Location
 3 ○ Proposed Boring Location



Radford Army Ammunition Plant (RFAAP)
 SWMU 6 Sampling Results Report

Figure 10

Date/Drawing No.
 09604.242.F10.DWG

SWMU 6 Proposed versus actual Boring Locations

Scale:
 As Shown

67

Soil borings were abandoned (sealed) upon completion by pouring bentonite chips into the borehole in accordance with the WPA. In accordance with the WPA, the chips were not hydrated because the borings were less than three inches in diameter.

4.2 SAMPLING STRATEGY AND CHEMICAL ANALYSES

The following sections discuss the specific elements and rationale of the sampling program that was conducted at SWMU 6.

4.2.1 Composite Sampling: Objectives and Rationale

One objective of the sampling program at SWMU 6 was to evaluate subsurface soil with respect to hazardous waste characteristics. The RCRA hazardous waste characterization data will be used to assess appropriate disposal method(s) for soils excavated during (excavation of soil to a depth of 25 feet bgs) construction of the NC settling tanks. At locations where bedrock is less than 25 feet bgs, then the depth of soil removal will likely be limited to the depth of bedrock.

Composite samples rather than discrete samples were used to characterize in-place soils to a depth down to 25 feet bgs. The rationale for using composite sampling is that it can provide a more appropriate characterization of a given volume of soil than discrete sampling, particularly when that volume of soil will be excavated and handled as fill, cover or waste depending on analytical results.

4.2.2 Composite Sampling: Field Observations and Sample Collection

The existing soil data from the VI (Dames & Moore, 1992) borings indicated that two different types of overburden material were likely to be present at SWMU 6. Both materials were therefore anticipated to be present in one or more of the twelve soil borings planned for this investigation. One type of material anticipated to be encountered in the borings was soil, which was reported to be present in both of the VI borings. The second type of material was a layer of sludge-like material, based on visual observations from one of two VI borings completed at SWMU 6 (6SB2) which reported a layer of sludge-like material present at a depth of 14 to 20 feet bgs.

As previously noted, during the current investigation three layers (i.e., strata) of soil were identified. Stratum 1 of this report is considered to correspond to the "soil" layer referred to above. Stratum 2 was observed to be similar in texture to Stratum 1; however, it was observed to be varying shades of olive, grayish brown, or dark gray. Stratum 2 did not exhibit characteristics of a soil that was impacted by former operations based on field screening procedures (i.e., odors or elevated PID readings were not noted). Stratum 2 also did not exhibit field observable characteristics of a sludge or sludge-like material. Stratum 3 likely represents residual soil developed in situ by chemical weathering of underlying bedrock. This is evidenced by red hues and clay texture (c.f. *Terra Rosa Soil*, Bates & Jackson, 1994).

Considering that two different types of material were anticipated to be present in SWMU 6, the strategy for composite sampling was to collect representative samples of each material (i.e., soil and

potential sludge, if encountered). According to the work plan, at boring locations where soil material was encountered to the depths explored, one composite sample was collected. This sample is a composite of the interval of overburden soil penetrated in the boring; sub-composites from each of the four foot Macro-Core samples were used to assemble a composite for the depth of the boring.

During the current investigation, material that was considered to exhibit characteristics of sludge or waste material was not observed. Stratum 2 was characteristic of a soil material that was similar in and texture to the overlying material. A representative portion of Stratum 2 was included in each of the composite samples collected as part of this investigation.

To assess potential distinct characteristics of Stratum 2, one composite sample consisting wholly of this material was collected. This material was collected from boring 6SB14 from an approximate depth of 14.7 to 21.5 feet. It is noted that analytical results of the overburden composite sample and discrete residual risk sample collected from 6SB14 did not exhibit distinct chemical analytical characteristics as compared to composite and residual risk samples collected from the other borings (see Section 5.0 below).

Each of the twelve composite samples submitted to the laboratory was analyzed for full TCLP analysis including TCLP metals, TCLP VOCs, TCLP SVOCs, TCLP pesticides, and TCLP herbicides, plus ignitability, corrosivity, reactivity (percent nitrocellulose) and paint filter liquids according to SW-846 Method protocols. Table 2 presents a summary of the analytical methods, and Table 3 is a summary of the analytes for which laboratory analyses were performed.

TCLP samples were collected in accordance with the Work Plan. VOC samples were not composited since the mixing of the VOC soil samples can result in a loss of VOCs to the atmosphere. Therefore, a discrete sample was collected for the VOC TCLP analysis from each four-foot sample core. At the completion of each boring, the discrete VOC sample that exhibited the highest PID reading for laboratory analysis was selected. PID detections are included in the boring logs in Appendix B of this report

To fulfill the TCLP sample analysis requirements following test Method 1311 of EPA SW-846, a minimum of 100 grams of soil is necessary, thereby precluding the use of Encore® sampling devices (5 gram sample size). Therefore, a four-ounce sampling jar supplied by the laboratory was filled, with zero headspace in accordance with USEPA protocol. It should be noted that Encore® sampling devices were used for non-TCLP VOC sample collection.

Two composite soil samples of overburden material were submitted to RFAAP for reactivity analysis. RFAAP determined the reactivity of the overburden soils using its own microscopic (visual) screening method, which assesses the presence and concentrations of specific propellants and nitrocellulose. The material was classified as non-reactive if its percentage of nitrocellulose was 10 percent or less. The laboratory results, included in Appendix D, indicate that neither the propellants nor nitrocellulose were detected above the RFAAP method detection limit.

Table 2
Summary of Analytical Methods for Soil and Water Samples
SWMU 6 Soil Investigation
Radford Army Ammunition Plant, Radford, Virginia

Parameter	Media	
	Soil	Water
Overburden Composite Samples - RCRA Hazardous Waste Characterization		
TCLP Metals	3010A	N/A
TCLP VOCs*	1311/5030/8260B	N/A
TCLP SVOCs	1311/3520/8270C	N/A
TCLP Pesticides/PCBs	1311/3520/8081A/8082	N/A
TCLP Herbicides	1311/3520/8151A	N/A
Ignitability	ASTM-D93-90; 1010	N/A
Corrositivity	1110	N/A
Reactivity (percent explosive material)	RFAAP Visual Method	N/A
Paint Filter	9095	N/A
Evaluation of Residual Soil Risk**		
TAL Metals (ICP Scan)	3050/6010B/7471A	3010/6010B/7470A
TCL VOCs (GC/MS)	5035/8260B	5030/8260B
TCL SVOCs (GC/MS)	3550/8270C	3520/8270C
TCL Pesticides/Aroclors (GC)	3550/8081A/8082	3520/8081A/8082
Explosives	8330	8330
Investigative-Derived Material (IDM) RCRA Hazardous Waste Characterization		
TCLP Metals	1311/3010/6010B/7471A	1311/3010/6010B/7470A
TCLP VOCs*	1311/5030/8260B	1311/5030/8260B
TCLP SVOCs	1311/3520/8270C	1311/3520/8270C
Ignitability	ASTM-D93-90; 1010	1010
Corrosivity	1110	9040B
Reactivity (percent explosive material)	RFAAP Visual Method	--
Paint Filter	9095	N/A

* VOC samples were not composited.

** Water methods apply to rinse blank samples for residual risk.

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TABLE 3
SUMMARY OF ANALYTICAL CONSTITUENTS FOR TCLP ANALYSES
SWMU 6 SOIL INVESTIGATION
RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA

Compound	Regulatory TCLP Limit (ug/L)
TCLP VOCs	
Vinyl chloride	200
1,1-Dichloroethene	500
2-Butanone	200000
Chloroform	6000
Carbon tetrachloride	500
Benzene	500
1,2-Dichloroethane	500
Trichloroethene	500
Tetrachloroethene	700
Chlorobenzene	100000
TCLP SVOCs	
Pyridine	5000
1,4-Dichlorobenzene	7500
2-Methylphenol	200000
3-Methylphenol	200000
4-Methylphenol	200000
Hexachloroethane	130
Nitrobenzene	2000
Hexachlorobutadiene	500
2,4,6-Trichlorophenol	400000
2,4,5-Trichlorophenol	2000
2,4-Dinitrotoluene	130
Hexachlorobenzene	130
Pentachlorophenol	100000
TCLP Herbicides	
2,4-D	10000
2,4 5-TP (Silvex)	1000
TCLP Pesticides	
Gamma-BHC (Lindane)	400
Endrin	20
Heptachlor	8
Heptachlor epoxide	8
p,p'-Methoxychlor	10000
Toxaphene	500
Technical Chlordane	30
TCLP Metals	
Arsenic	5000
Barium	100000
Cadmium	1000
Chromium	5000
Lead	5000
Selenium	1000
Silver	5000
Mercury	200

Notes

TCLP = Toxicity Characteristic Leaching Procedure

ug/L = micrograms per Liter

VOC = Volatile Organic Compound

SVOC = Semi-Volatile Organic Compound

Two duplicate samples were collected for analysis per the QA/QC requirements of the MWP.

4.2.3 Discrete Sampling: Objectives and Rational

The second objective of the sampling program at SWMU 6 was to evaluate the residual risk of soils that will remain at the SWMU at depth after excavation of the soil overburden for purposes of construction. Residual soil would be defined as the soil remaining in place below the depth of the excavation, which in this case, would be those soils present at a depth greater than 25 feet.

The rationale for using discrete sampling is that point concentrations from specific locations and depths will be required to conduct the residual risk analysis.

4.2.4 Discrete Sampling: Field Observations and Sample Collection

One discrete soil sample was collected from each of the 12 soil borings for chemical analysis. Each discrete sample was collected from the termination depth of the associated boring. The planned depth for sample collection was a minimum depth of 25 feet bgs, since the planned excavation depth is 25 feet bgs. In two borings (6SB5 and 6SB10), Probe refusal was encountered at depths of less than 25 feet bgs; therefore samples were collected for residual risk analysis from above the termination depths of those borings (i.e., at depths of 17.4 feet bgs and 20.4 feet bgs, respectively).

Each of the 12 discrete samples was analyzed for the following compounds by SW-846 Methods: (1) TCL VOCs; (2) TCL semi-volatile organic compounds; (3) TCL pesticides/aroclor; (4) target analyte list (TAL), metals and (5) explosives. Tables 3 and 4 present a summary of analytical constituents. The rationale for selecting this expanded list of parameters for analysis was to provide for a more complete evaluation of potential residual risks at SWMU 6. Field QA/QC samples including two duplicate samples, two trip blank samples, and three rinse blank (equipment blank samples) were also collected per the requirements of the MWP. A trip blank appears to have been misplaced and not analyzed with the shipment containing the samples 6SB10, 6SB11, 6SB13, and 6SB14. Based on review of the data, the data quality was not compromised as a result of this field oversight. See Section 5.1 for further explanation.

Samples for TCL VOCs were collected at the targeted depth using a disposable Encore® sampling device following the protocols outlined in the WPA. The sample for VOC analysis was collected from the portion of the targeted sample interval having the highest observed PID reading as measured during initial sample screening.

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
DETECTED COMPOUNDS
TCLP OVERBURDEN COMPOSITE SAMPLE ANALYSES

Compound	Regulatory TCLP Limit (ug/L)	Sample ID: 6SB3A Collection Date: 11/14/00 Matrix: WA Units of Measure: ug/L	6SB4A 11/14/00 WA ug/L	6SB5A 11/15/00 WA ug/L	6SB6A 11/15/00 WA ug/L	6SB6AFD 11/15/00 WA ug/L	6SB7A 11/14/00 WA ug/L	6SB8A 11/15/00 WA ug/L	6SB9A 11/15/00 WA ug/L	6SB10A 11/16/00 WA ug/L	6SB10AFD 11/16/00 WA ug/L	6SB11A 11/16/00 WA ug/L	6SB12A 11/15/00 WA ug/L	6SB13A 11/16/00 WA ug/L	6SB14A 11/16/00 WA ug/L	
TCLP VOCs																
Trichloroethene	500		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	5 J	7 J	25 U	25 U	25 U	
TCLP HERBICIDES																
2,4-D	10000		0.49 JBP	0.47 JBP	1.3 JBP	1.5 JB	0.74 JBP	0.89 JBP	0.42 JB	0.3 JBP	3.9 JBP	0.65 JBP	0.53 JBP	1.6 JBP	0.46 JBP	3.2 JBP
2,4,5-TP (Silvex)	1000		0.64 JBP	0.54 JBP	0.8 JBP	1 JBP	0.87 JBP	1.4 JBP	0.58 JBP	0.12 JBP	3.1 BP	0.06 JB	0.1 JBP	3.3 BP	0.18 JBP	0.14 JBP
TCLP PESTICIDES																
Gamma-BHC (Lindane)	400		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.026 JP	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.1 J
Heptachlor	8		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.049 JP	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	6.8 P
Heptachlor epoxide	8		0.092 J	0.25 U	1.2 U	0.25 U	0.25 U	1.2 U	1.2 U	0.25 U	1.2 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
TCLP METALS																
Arsenic	5000		3.4 UN	3.4 UN	3.4 UN	3.4 UN	3.4 UN	3.4 UN	3.4 UN	3.4 UN	3.4 UN	3.4 UN	3.4 UN	3.4 UN	3.4 UN	3.4 UN
Barium	100000		486 B	336 B	385 B	530 B	471 B	463 B	304 B	436 B	454 B	301 B	302 B	399 B	285 B	642 B
Cadmium	1000		1.1 BN	0.86 BN	0.6 BN	0.35 BN	0.39 BN	1.5 BN	1.1 BN	1.3 BN	1.2 BN	0.79 BN	1.3 BN	0.98 BN	0.58 BN	0.76 BN
Chromium	5000		12.3 BN	5.6 BN	3.4 BN	4 BN	2 BN	7.1 BN	3.9 BN	7.6 BN	4.7 BN	4.6 BN	6.2 BN	4 BN	2.6 BN	13.4 BN
Lead	5000		162 BNE	180 BNE	55.5 BNE	175 BNE	24.8 BNE	2040 BNE	52.1 BNE	56.9 BNE	40 BNE	37.4 BNE	29.7 BNE	69.5 BNE	41.2 BNE	420 BNE
Selenium	1000		11.2 B	11.1 B	10.4 B	9.3 B	12.3 B	14.2 B	9.4 B	10 B	13.4 B	8 B	11.2 B	8.6 B	6.4 B	13 B
Silver	5000		2.6 BN	1.9 BN	0.4 UN	0.4 UN	0.4 UN	3.1 BN	2 BN	1 BN	1.8 BN	1.5 BN	2.4 BN	0.4 UN	0.4 UN	0.4 UN
Mercury	200		0.1 U	0.1 U	0.1 B	0.11 B	0.1 U	0.1 U	0.1 U	0.1 B	0.1 B	0.1 B	0.1 U	0.1 B	0.1 B	0.11 B

Notes:

U = Compound analyzed for and not detected.

J = Estimated concentration below contract required detection limit.

B (organics) = Analyte is found in associated blank and sample.

B (inorganics) = Analyte value was below the contract required detection limit but greater than or equal to the instrument detection limit.

P = Greater than 25 % difference for detected concentrations between two columns.

N = Sample spike recovery outside of control limits.

E = Concentration exceeds upper level of the calibration range of instrument.

TCLP = Toxicity characteristics leaching procedure.

TCLP regulatory limit from 40 CFR 261.24 (7/1/99).

ug/L = Micrograms per liter.

VOC = Volatile organic compound.

SVOC = Semi-volatile organic compound.

5.0 ANALYTICAL RESULTS AND COMPARISON TO APPLICABLE CRITERIA

The results of laboratory analysis for samples collected during this sampling program are presented in the following section. Data Reporting Qualifiers (qualifiers or flags) represent the results of internal QA/QC protocol at the analytical laboratory. Qualifiers included in analytical packages from this sampling program are summarized in Appendix C. Based on the review of the sample data packages and associated field and laboratory QC samples, analytical data are considered acceptable for site characterization and risk assessment. A summary of the data quality analysis is presented herein prior to presentation of analytical results.

5.1 DATA REPORTING QUALIFIERS AND DATA QUALITY ANALYSIS

The data displays acceptable performance regarding laboratory and field submitted blanks. Furthermore, the laboratory has appropriately applied the respective data flags to the analytical results. This data set met all of the method specifications, as defined in the current USEPA Statement of Work for the Contract Laboratory Program. These specifications are as follows: (1) the blank must meet all of the surrogate and internal standard acceptance criteria applicable to field samples; (2) the blank must be analyzed under and valid tune and or calibration; and, (3) the blank may not display contamination with constituents at a concentration greater than the contract specified reporting limit (RL), with the following exceptions: (1) methylene chloride may display result as great as 25 times the RL; (2) acetone and 2-butanone may display results as great as five times the RL; and, the various phthalate esters may display results as great as five times the RL.

These method specifications are establish based on the fact that various chemicals, together known as the "common laboratory contaminants" (CLCs); are expected to be found in the background of even the best analytical laboratories either because they are routinely used in the analytical process or are commonly identified as contaminant in reagents and/or supplies used in the laboratory. Historically other compounds such as toluene and carbon disulfide were also considered CLCs, however, at present their use in environmental laboratories is limited excepting laboratories involved in analysis of dioxins and industrial hygiene measurements of VOCs from carbon tubes. Further, over time an analytical system can become contaminated with materials from previously analyzed samples. This carry-over process is commonly observed. For these and other reasons a certain amount of blank contamination is to be expected and is no cause for alarm.

The USEPA National Functional Guidelines for Data Review acknowledge this fact in making provisions for qualifying data that are potentially affected by field or laboratory background. In general terms, concentrations of analyte less than five times the concentration of that same analyte in the most contaminated blank associated with a given field sample are qualified "U" (or in USEPA Region III "B") indicating an elevated detection limit equal to the concentration reported in the sample. In the case of CLCs the multiplication factor is 10X. Therefore, the "B" qualified data are considered useable (i.e., for site characterization, risk assessment, remedial actions, etc.), although they must be used as qualified.

Thus, in the case of SWMU 6 VOCs, the amount of contamination present in the blanks is not at all unusual and is sufficient to account for the concentrations identified in the field samples, with the exception of (1) carbon disulfide, which is not observed in the field samples; (2) in certain samples for toluene, although the very low levels reported and the absence of other detections for aromatic compounds suggest that these results are not site related; and, (3) 2-butanone the response factors for which are so low that positive results tend to be exaggerated. Regardless, the reported results for these compounds are three orders of magnitude less than the comparison criteria suggesting that there is no effect on data usability.

One VOC trip blank, that pertaining to samples collected on November 16, appears to have been misplaced and was not analyzed. The results from the field blank for that same day are consistent with values reported for the previous days and it is reasonable to assume the trip blank would have done the same. Given that in the worst case the absence of the trip blank could only result in false positives and that none of the results reported for the associated samples exceed the comparison criterion even before correcting for apparent blank contamination, there does not appear to be discernable negative impact on data usability associated with this issue.

Blanks for semivolatiles (SVOCs) are uniformly acceptable. Although there are various sources of phthalates that can produce background in the field, it would be unusual in the extreme for concentrations greater than 50 µg/Kg to be attributable to field background. Laboratory background may be higher if drying agents are not scrupulously cleaned or if phthalate-containing paper filters are used. However, in this instance laboratory blanks do not display phthalate contamination.

In the case of pesticides, the reported blank results are at least one order of magnitude less than the RL in almost every case and the associated flag "P", indicating large differences between first and second column results for the same analyte, suggest that these results may in fact be false positives indicative of instrument noise, rather than site related contaminants.

The "B" flags reported with the results for metals do not indicate blank contamination, rather this flag in the inorganic context indicates results less than the RL but greater than the instrument detection limit (IDL). The values reported in the blanks are again at least an order of magnitude less than the RL and in most cases two orders of magnitude less. This is not at all uncommon and represents concentrations of analyte that might be expected in bottled drinking water. The one exception is a reported value for zinc at 115 µg/l, which in relation to the results reported in the associated soil samples is insignificant.

5.2 COMPOSITE SAMPLING: ANALYTICAL RESULTS

Twelve soil borings were advanced in the location of SWMU 6 to provide geographic coverage of the area. Soil boring locations are presented on Figure 4. During advancement of the borings, twelve composite samples were collected (i.e., one composite sample from each soil boring). With the exception of one sample (6SB14A), the composite samples were collected from the soil interval from the ground surface to the planned excavation depth of 25 feet bgs. The sample from boring 6SB14A was collected from the depth interval of approximately 14.7 feet bgs to 21.5 feet bgs, or representative

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wholly of Stratum 2. A summary of the analytical methods and a list of analytes are presented in Tables 2 and 3. For comparison purposes, Table 3 also includes Regulatory TCLP Limits, per 40 CFR 261 (for hazardous waste characterization). The results of chemical analyses are presented in Table 4. Note that this is a summary table that includes the analytes detected during this sampling program.

TCLP VOCs - One TCLP VOC, trichloroethene (TCE), was detected in two of the composite samples. This constituent was detected at an estimated concentration of 5 µg/L in the field duplicate of sample 6SB10A, and at an estimated concentration of 7 µg/L in sample 6SB11A. Other TCLP VOCs were not detected in the overburden composite samples collected for the evaluation of hazardous waste characteristics.

TCLP SVOCs - TCLP SVOCs were not detected in the overburden composite samples collected for the evaluation of hazardous waste characteristics.

TCLP Herbicides - TCLP herbicides 2,4-D and 2,4,5-TP (silvex) were detected in each of the twelve composite samples analyzed. 2,4-D was present at concentrations ranging from 0.42B µg/L to 3.9PB µg/L. Silvex was present at concentrations ranging from 0.06B to 3.3BP µg/L.

Based on the presence of detected TLCP Herbicide compounds in associated laboratory method blanks, the TCLP herbicide concentrations reported by the laboratory are considered to be indicative of laboratory artifacts and likely not representative of site soil conditions. See Section 5.1 for a detailed discussion.

TCLP Pesticides - The results of the analysis for TCLP pesticides indicates that three analytes, heptachlor epoxide, gamma-BHC (lindane), and heptachlor were detected in one or more samples. Heptachlor epoxide was detected in a single sample (6SB3A) at an estimated concentration of 0.092 µg/L. Lindane was detected at an estimated concentration of 0.026P µg/L (6SB8A) and 0.1 µg/L (6SB14A). Heptachlor was detected at an estimated concentration of 0.049 P µg/L in sample 6SB8A, and at a concentration of 6.8P µg/L in sample 6SB14A.

TCLP Metals - The following TCLP metals were detected at estimated concentrations that were below the Contract Required Detection Limit (CRDL) (but above the instrument detection limit; i.e., B flagged for inorganic analysis): barium (301B to 642B µg/L), cadmium (0.35BN to 1.5 BN µg/L), chromium (2.0BN to 13.4 BN µg/L), lead (24.8BE to 2040BNE µg/L), selenium (6.4B to 14.2B µg/L), silver (1BN to 3.1 BN µg/L), and mercury (0.1B to 0.11b µg/L).

TCLP Characteristic - The results of the analyses for corrosivity, ignitability, reactivity (percent explosive material) and paint filter liquids indicate that none of the samples exhibited characteristics indicative of hazardous waste.

5.3 COMPOSITE SAMPLING: COMPARISON TO APPLICABLE CRITERIA

TCLP VOCs – The detections of TCE (5 and 7 µg/L) are below the established Regulatory TCLP Limit of 500 µg/L.

TCLP SVOCs - TCLP SVOCs were not detected in the overburden composite samples collected for the evaluation of hazardous waste characteristics.

TCLP Herbicides – The detections of 2,4-D and silvex (maximum values 3.9PB and 3.3BPµg/L, respectively) are below the TCLP regulatory limits of 10,000 µg/L and 1000 µg/L, respectively.

TCLP Pesticides - The detections of heptachlor, heptachlor epoxide and lindane (maximum values 6.8P µg/L, 0.092 µg/L, and 0.1 µg/L, respectively) are below the TCLP regulatory limits of 8 µg/L, and 400 µg/L, respectively.

TCLP Metals – The estimated concentrations detected are below the TCLP regulatory limits.

TCLP Characteristic – The analysis for corrosivity, ignitability, reactivity and paint filter liquids indicate that none of the results exceed the TCLP regulatory limits.

5.4 DISCRETE SAMPLING: ANALYTICAL RESULTS

Twelve discrete soil samples were collected as part of this investigation. The discrete samples were collected in the interval above probe refusal in two borings, and at the depth interval below 25 feet bgs in the remaining ten borings. The results of the chemical analyses of the discrete samples analyzed for residual risk are summarized in Table 5. Note that Table 5 is a summary table that includes analytes detected in the samples. Refer to Table 6 for a summary of the analytical constituents for which residual risk analyses were conducted.

TCL VOCs - Four TCL VOCs (acetone, methylene chloride, 2-butanone [MEK], and toluene) were reported in one or more of the samples analyzed. Acetone was detected at concentrations ranging from 17 to 62B µg/Kg. Methylene chloride was detected at concentrations ranging from 2B to 39B µg/Kg. 2-Butanone was detected at estimated concentrations ranging from 2 to 7 µg/Kg. Toluene was detected at estimated concentrations ranging from 2 to 5 µg/Kg.

Each of these VOCs is a common laboratory artifact, and their presence must always be scrutinized. Acetone was detected in discrete samples at concentrations greater than 10 times the levels present in the associated laboratory method blanks; therefore, the presence of acetone can not be wholly attributed to laboratory contamination. 2-Butanone was not detected in the laboratory method blanks; therefore, the presence of 2-Butanone can not be attributed to laboratory contamination. Methylene chloride and toluene were detected in discrete samples at concentrations less than 10 times the levels present in the associated laboratory method blanks; therefore, the presence of these compounds can be attributed to laboratory contamination. See section 5.1 for more information.

TABLE 5
SUMMARY OF ANALYTICAL RESULTS
DETECTED COMPOUNDS
DISCRETE RESIDUAL RISK SAMPLE ANALYSES

			Sample ID:	6SB3B	6SB4B	6SB5B	6SB6B	6SB6BFD	6SB7B	6SB8B
Region III RBC Table			Collection Date:	11/14/00	11/14/00	11/15/00	11/15/00	11/15/00	11/14/00	11/15/00
Compound	Residential	Industrial	Matrix:	SO	SO	SO	SO	SO	SO	SO
TCL Volatile Organics										
Units of Measure:		ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Acetone	780,000	20,000,000		40	50	10 U	28	11 U	23	27 B
Methylene chloride	85,000	760,000		39 B	21 B	10 U	11 J	11 U	13 B	21 B
2-Butanone	4,700,000	120,000,000		5 J	5 J	4 J	11 U	7 J	3 J	3 J
Toluene	1,600,000	41,000,000		5 J	3 J	2 J	2 J	5 J	2 J	3 JB
TCL SemiVolatile Organics										
Units of Measure:		ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
bis(2-Ethylhexyl)phthalate	46,000	410,000		430 U	450 U	410 U	440 U	440 U	430 U	450 U
TCL Pesticides and Aroclors										
Units of Measure:		ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Beta-BHC	350	3,200		4.5 U	4.6 U	4.2 U	4.5 U	4.5 U	4.4 U	4.8 P
Delta-BHC	--	--		2.2 U	2.3 U	2 U	2.2 U	2.2 U	2.2 U	2.2 U
Gamma-BHC (Lindane)	490	4,400		2.2 U	2.3 U	0.85 JP	2.2 U	2.2 U	2.2 U	2.2 U
Heptachlor	140	1,300		2.2 U	2.3 U	2 U	2.2 U	2.2 U	2.2 U	2.2 U
Heptachlor epoxide	70	630		2.2 U	2.3 U	2 U	2.4	4.2 P	2.2 U	7.1 P
PCB-1254	320	2,900		120 U	120 U	110 U	120 U	120 U	37 J	120 U
Endrin ketone	--	--		49 P	23 U	2.2 JP	22 U	22 U	22 U	22 U
Gamma chlordane	1,800	16,000		2.7 P	2.3 U	2 U	2.2 U	2.2 U	2.5 P	2.2 U
Alpha chlordane	1,800	16,000		4.5 U	4.6 U	4.2 U	0.74 JP	4.5 U	4.4 U	4.6 U
EXPLOSIVES										
Units of Measure:		mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
HMX	390	10,000		1.5 U	1.4 J	1.5 U	1.4 J	1.5 U	1.5 U	1.5 U
TAL METALS										
Units of Measure:		mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	7,800	200,000		19,000	36,800	23,600	22,800	26,100	21,100	28,600
Antimony	3.1	82		0.45 UN	0.48 UN	0.43 UN	0.47 UN	0.46 UN	0.46 UN	0.46 UN
Arsenic	0.43	3.8		3.8	7.6	4.3	6.8	6.4	5.6	4.5
Barium	550	14,000		67.5	53.1	46.9	53.2	62.9	39.6	37.6
Beryllium	16	410		0.54 B	1.2	0.98	1.1	1.2	0.91	1.9
Cadmium	7.8	200		0.3 B	0.56 B	0.38 B	0.25 B	0.29 B	0.28 B	0.61 B
Calcium	--	--		584	427	10400	509	536	590	411
Chromium	23	610		45.4 N	26.8 N	24.4 N	18.6 N	20 N	25.2 N	32.3 N
Cobalt	470	12,000		17.8	15.5	9.7	6.7	9.8	6.5	6
Copper	310	8,200		16.3	34.6	20.8	20.3	22.7	18.4	33.3
Iron	2,300	61,000		28,700	38,100	26,800	26,300	29,400	31,900	29,800
Lead	400	1,000 *		20.3	31.4	10.3	15.2	19.4	17.1	18
Magnesium	--	--		2,250	7,560	12,300	9,090	9,490	3,760	4,400
Manganese	160	4100		525 N	659 N	356 N	339 N	574 N	181 N	291 N
Mercury	2.3	61 +		0.14	0.11	0.063	0.085	0.11	0.12	0.1
Nickel	160	4,100		10.9	23.1	16.1	15.4	17.3	15.2	21.5
Potassium	--	--		1,010 E	3,550 E	2,140 E	3,030 E	3,130 E	1,610 E	1,350 E
Selenium	39	1,000		0.98	0.96	0.87	0.53 U	0.57 B	0.58 B	0.9
Silver	39	1,000		0.83	0.89	0.58 B	0.69	0.88	0.89	0.21 B
Sodium	--	--		33.9 U	36.2 U	32.6 U	36 U	35.1 U	35.3 U	34.9 U
Thallium	0.55	14		0.63 U	0.67 U	0.61 U	0.67 U	0.65 U	0.66 U	0.65 U
Vanadium	55	1,400		49.5 N	75.6 N	46.5 N	47.4 N	53.1 N	55.4 N	48.8 N
Zinc	2300	61,000		36.3	75.6	35.4	56.4	58.5	54.3	56.8

TABLE 5 (Continued)
SUMMARY OF ANALYTICAL RESULTS
DETECTED COMPOUNDS
DISCRETE RESIDUAL RISK SAMPLE ANALYSES

Compound	Region III RBC Table		Sample ID:	6SB9B	6SB10B	6SB11B	6SB12B	6SB13B	6SB13BFD	6SB14B
	Residential	Industrial	Collection Date:	11/15/00	11/16/00	11/16/00	11/15/00	11/16/00	11/16/00	11/16/00
			Matrix:	SO	SO	SO	SO	SO	SO	SO
TCL Volatile Organics										
Units of Measure:	ug/Kg			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Acetone	780,000	20,000,000		29	62 B	30 B	17	48 B	37 B	48 B
Methylene chloride	85,000	760,000		14	2 JB	11 JB	21	17 B	17 B	13 JB
2-Butanone	4,700,000	120,000,000		2 J	4 J	3 J	13 U	2 J	3 J	4 J
Toluene	1,600,000	41,000,000		2 J	9 U	2 JB	4 J	3 JB	2 JB	2 JB
TCL SemiVolatile Organics										
Units of Measure:	ug/Kg			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
bis(2-Ethylhexyl)phthalate	46,000	410,000		4,000	220 J	420 U	450 U	470 U	66 J	430 U
TCL Pesticides and Aroclors										
Units of Measure:	ug/Kg			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Beta-BHC	350	3,200		4.2 U	4 U	4.4 U	4.6 U	4.8 U	4.6 U	2.7 JP
Delta-BHC	—	—		4.2 U	4 U	2.2 U	2.3 U	2.4 U	1.6 JP	2.3 U
Gamma-BHC (Lindane)	490	4,400		2.1 U	1.9 U	1 JP	2.3 U	0.97 JP	2.2 U	2.3 U
Heptachlor	140	1,300		1.2 JP	1.9 U	2.2 U	2.3 U	2.4 U	2.2 U	2.3 U
Heptachlor epoxide	70	630		2.1 U	1.9 U	7.2	2.3 U	2.4 U	2.2 U	14 P
PCB-1254	320	2,900		110 U	100 U	120 U	120 U	130 U	120 U	120 U
Endrin ketone	—	—		21 U	6.5 JP	22 U	23 U	24 U	22 U	23 U
Gamma chlordane	1,800	16,000		1.8 JP	2.3	2.2 U	2.3 U	2.4 U	2.2 U	2.3 U
Alpha chlordane	1,800	16,000		4.2 U	4 U	1.9 JP	4.6 U	4.8 U	4.6 U	4.6 U
EXPLOSIVES										
Units of Measure:	mg/Kg			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
HMX	390	10,000		1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
TAL METALS										
Units of Measure:	mg/Kg			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	7,800	200,000		16,200	10,200	21,900	49,600	27,800	30,700	35,700
Antimony	3.1	82		0.44 UN	0.4 UN	0.45 UN	0.45 UN	0.49 UN	0.48 UN	0.48 UN
Arsenic	0.43	3.8		4.2	3.9	5.3	3.9	6.5	6.3	6.2
Barium	550	14,000		50.4	78.6	50.1	68.1	102	77.8	58.9
Beryllium	16	410		0.37 B	0.58	0.91	1.4	1.2	1.2	1.8
Cadmium	7.8	200		0.21 B	0.21 B	0.32 B	0.44 B	0.47 B	0.51 B	0.44 B
Calcium	—	—		1590	288	335	518	770	806	632
Chromium	23	610		24.6 N	30 N	19.7 N	33.6 N	33 N	51.5 N	33.7 N
Cobalt	470	12,000		7.1	8	6.3	11.4	26.4	11.8	8.2
Copper	310	8,200		9.6	7.8	16.8	38.1	26	22.6	27.4
Iron	2,300	61,000		23,100	21,600	27,800	20,500	40,400	38,400	30,800
Lead	400	1,000 *		17.3	19.5	14.6	9.9	40.3	19.3	15
Magnesium	—	—		1,680	703	3,000	55,500	2,780	2,540	22,600
Manganese	160	4,100		324 N	812 N	227 N	317 N	1510 N	583 N	253 N
Mercury	2.3	61 +		0.086	0.03 B	0.11	0.036 B	0.13	0.12	0.077
Nickel	160	4,100		7.2	6.2	16.5	20.1	21.5	18.6	23.2
Potassium	—	—		594 E	262 E	1,020 E	21,200 E	1,350 E	1,300 E	9,210 E
Selenium	39	1,000		0.68	0.44 U	0.64	0.5 U	1.5	1.9	0.64 B
Silver	39	1,000		0.75	0.57	0.89	0.3 B	1.6	1.5	0.9
Sodium	—	—		33.6 U	30.4 U	34 U	34.3 U	48.3 B	53.6 B	36.7 U
Thallium	0.55	14		0.63 U	0.57 U	0.63 U	1.2 B	0.7 U	0.68 U	0.68 U
Vanadium	55	1,400		49.6 N	45.9 N	51.8 N	63.7 N	70.4 N	89.9 N	65.7 N
Zinc	2,300	61,000		28.7	35.3	45.2	57.5	61.9	59.2	53.9

TABLE 5 (Continued)
SUMMARY OF ANALYTICAL RESULTS
DETECTED COMPOUNDS
DISCRETE RESIDUAL RISK SAMPLE ANALYSES

Notes:

U = Compound analyzed for and not detected.

J = Estimated concentration below contract required detection limit.

B (organics) = Analyte is found in associated blank and sample.

B (inorganics) = Analyte value was below the contract required detection limit but greater than or equal to the instrument detection limit.

XXXXXX = Exceedance of Residential RBC

XXXXXX = Exceedance of Residential & Industrial RBC

* = Lead screening values (not an RBC).

+ = Mercuric chloride value used.

P = Greater than 25% difference for detected concentrations between two columns.

E = Concentration exceeds upper level of the calibration range of instrument.

RBC = Risk based concentration (EPA Region III, October 2000)

ug/Kg = Micrograms per kilogram.

mg/Kg = Milligrams per kilogram.

N = Sample spike recovery outside of control limits.

TCL = Target Compound List

TAL = Target Analyte List

A hazard quotient (HQ) of 0.1 is used for non carcinogens and a target risk level of 1×10^{-6} is used for carcinogens (except when HQ of 0.1 is lower).

TABLE 6
ANALYTICAL CONSTITUENTS FOR RESIDUAL RISK ANALYSIS
SWMU 6 SOIL INVESTIGATION
RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA

VOC TCL	CAS Number	Risk Screening (ug/Kg)	
		Residential RBCs	Industrial RBCs
Chloromethane	74-87-3	49,000	440,000
Bromomethane	74-83-9	11,000	290,000
Vinyl Chloride	75-01-4	430	3,800
Chloroethane	75-00-3	220,000	2,000,000
Methylene Chloride	75-09-2	85,000	760,000
Acetone	67-64-1	780,000	20,000,000
Carbon Disulfide	75-15-0	780,000	20,000,000
1,1-Dichloroethene	75-35-4	1,100	9,500
1,1-Dichloroethane	75-34-3	780,000	20,000,000
1,2-Dichloroethene (total)	540-59-0	70,000	1,800,000
Chloroform	67-66-3	100,000	940,000
1,2-Dichloroethane	107-06-2	7,000	63,000
2-Butanone	78-93-3	4,700,000	120,000,000
1,1,1-Trichloroethane	71-55-6	2,200,000	57,000,000
Carbon Tetrachloride	56-23-5	4,900	44,000
Bromodichloromethane	75-27-4	10,000	92,000
1,2-Dichloropropane	78-87-5	9,400	84,000
cis-1,3-Dichloropropene	10061-01-5	6,400	57,000
Trichloroethene	79-01-6	58,000	520,000
Dibromochloromethane	124-48-1	7,600	68,000
1,1,2-Trichloroethane	79-00-5	11,000	100,000
Benzene	71-43-2	12,000	100,000
trans-1,3-Dichloropropene	10061-02-6	6,400	57,000
Bromoform	75-25-2	81,000	720,000
4-Methyl-2-pentanone	108-10-1	630,000	16,000,000
2-Hexanone	591-78-6	310,000	8,200,000
Tetrachloroethene	127-18-4	12,000	110,000
1,1,2,2-Tetrachloroethane	79-34-5	3,200	29,000
Toluene	108-88-3	1,600,000	41,000,000
Chlorobenzene	108-90-7	160,000	4,100,000
Ethylbenzene	100-41-4	780,000	20,000,000
Styrene	100-42-5	1,600,000	41,000,000
Xylenes (total)	1330-20-7	16,000,000	410,000,000

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TABLE 6 (continued)
ANALYTICAL CONSTITUENTS FOR RESIDUAL RISK ANALYSIS
SWMU 6 SOIL INVESTIGATION
RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA

SVOC TCL	CAS Number	Risk Screening (ug/Kg)	
		Residential RBCs	Industrial RBCs
Phenol	108-95-2	4,700,000	120,000,000
Bis(2-chloroethyl)ether	111-44-4	580	5,200
2-Chlorophenol	95-57-8	39,000	1,000,000
1,3-Dichlorobenzene	541-73-1	7,000	180,000
1,4-Dichlorobenzene	106-46-7	27,000	240,000
1,2-Dichlorobenzene	95-50-1	700,000	18,000,000
2-Methylphenol	95-48-7	390,000	10,000,000
2,2'-oxybis(1-Chloropropane)	108-60-1	9,100	82,000
N-Nitrosodi-n-propylamine	621-64-7	91	820
4-Methylphenol	106-44-5	390,000	1,000,000
Hexachloroethane	67-72-1	46,000	410,000
Nitrobenzene	98-95-3	3,900	100,000
Isophorone	78-59-1	670,000	6,000,000
2-Nitrophenol	88-75-5	--	--
2,4-Dimethylphenol	105-67-9	160,000	4,100,000
Bis(2-chloroethoxy)methane	111-91-1	--	--
2,4-Dichlorophenol	120-83-2	23,000	610,000
1,2,4-Trichlorobenzene	120-82-1	78,000	2,000,000
Naphthalene	91-20-3	160,000	4,100,000
4-Chloroaniline	106-47-8	31,000	820,000
Hexachlorobutadiene	87-68-3	8,200	73,000
4-Chloro-3-Methylphenol	59-50-7	--	--
2-Methylnaphthalene	91-57-6	160,000	4,100,000
Hexachlorocyclopentadiene	77-47-4	55,000	1,400,000
2,4,6-Trichlorophenol	88-06-2	58,000	520,000
2,4,5-Trichlorophenol	95-95-4	780,000	20,000,000
2-Chloronaphthalene	91-58-7	630,000	16,000,000
2-Nitroaniline	88-74-4	--	--
Dimethylphthalate	131-11-3	7,800	2,000,000,000
Acenaphthylene	208-96-8	--	--
2,6-Dinitrotoluene	606-20-2	16,000	200,000
3-Nitroaniline	99-09-2	--	--

TABLE 6 (continued)
ANALYTICAL CONSTITUENTS FOR RESIDUAL RISK ANALYSIS
SWMU 6 SOIL INVESTIGATION
RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA

SVOC TCL	CAS Number	Risk Screening (ug/Kg)	
		Residential RBCs	Industrial RBCs
Acenaphthene	83-32-9	470,000	12,000,000
2,4-Dinitrophenol	51-28-5	16,000	410,000
4-Nitrophenol	100-02-7	63,000	1,600,000
Dibenzofuran	132-64-9	31,000	820,000
2,4-Dinitrotoluene	121-14-2	16,000	410,000
Diethylphthalate	84-66-2	6,300,000	160,000,000
4-Chlorophenyl-phenylether	7005-72-3	--	--
Fluorene	86-73-7	310,000	8,200,000
4-Nitroaniline	100-01-6	--	--
4,6-Dinitro-2-methylphenol	534-52-1	780	20,000
N-Nitrosodiphenylamine	86-30-6	130,000	1,200,000
4-Bromophenyl-phenylether	101-55-3	--	--
Hexachlorobenzene	118-74-1	400	3,600
Pentachlorophenol	87-86-5	5,300	48,000
Phenanthrene	85-01-8	--	--
Anthracene	120-12-7	2,300,000	61,000,000
Carbazole	86-74-8	32,000	290,000
Di-n-butylphthalate	84-74-2	--	--
Fluoranthene	206-44-0	310,000	8,200,000
Pyrene	129-00-0	230,000	6,100,000
Butylbenzylphthalate	85-68-7	1,600,000	41,000,000
3,3'-Dichlorobenzidine	91-94-1	1,400	13,000
Benzo(a)anthracene	56-55-3	870	7,800
Chrysene	218-01-9	87,000	780,000
Bis(2-ethylhexyl)phthalate	117-81-7	46,000	410,000
Di-n-octylphthalate	117-84-0	160,000	4,100,000
Benzo(b)fluoranthene	205-99-2	870	7,800
Benzo(k)fluoranthene	207-08-9	8,700	78,000
Benzo(a)pyrene	50-32-8	87	780
Indeno(1,2,3-cd)pyrene	193-39-5	870	7,800
Dibenz(a,h)anthracene	53-70-3	87	780
Benzo(g,h,i)perylene	191-24-2	--	--

TABLE 6 (continued)
ANALYTICAL CONSTITUENTS FOR RESIDUAL RISK ANALYSIS
SWMU 6 SOIL INVESTIGATION
RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA

Pesticides/Aroclors TCL	CAS Number	Risk Screening (ug/Kg)	
		Residential RBCs	Industrial RBCs
alpha-BHC	319-84-6	100	910
beta-BHC	319-85-7	350	3,200
delta-BHC	319-86-8	--	--
gamma-BHC	58-89-9	490	4,400
Heptachlor	76-44-8	140	1,300
Aldrin	309-00-2	38	340
Heptachlor epoxide	1024-57-3	70	630
Endosulfan I	959-98-8	47,000	1,200,000
Dieldrin	60-57-1	40	360
4,4'-DDE	72-55-9	1,900	17,000
Endrin	72-20-8	65,000	580,000
Endosulfan II	33213-65-9	--	--
4,4'-DDD	72-54-8	2,700	24,000
Endosulfan sulfate	1031-07-8	--	--
4,4'-DDT	50-29-3	1,900	17,000
Methoxychlor	72-43-5	200,000,000	39,000
Endrin Ketone	53494-70-5	--	--
Endrin Aldehyde	7421-36-3	--	--
alpha-Chlordane	5103-71-9	1,800	16,000
gamma-Chlordane	5103-74-2	1,800	16,000
Toxaphene	8001-35-2	580	5,200
Aroclor-1016	12674-11-2	550	82,000
Aroclor-1221	11104-28-2	320	2,900
Aroclor-1232	11141-16-5	320	2,900
Aroclor-1242	53469-21-9	320	2,900
Aroclor-1248	12672-29-6	320	2,900
Aroclor-1254	11097-69-1	320	2,900
Aroclor-1260	11096-82-5	320	2,900

TABLE 6 (continued)
ANALYTICAL CONSTITUENTS FOR RESIDUAL RISK ANALYSIS
SWMU 6 SOIL INVESTIGATION
RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA

Metal TAL	CAS Number	Risk Screening (mg/Kg)	
		Residential RBCs	Industrial RBCs
Aluminum	7429-90-5	7,800	200,000
Antimony	7440-36-0	31	82
Arsenic	7440-38-2	0.43	3.8
Barium	7440-39-3	550	14,000
Beryllium	7440-41-7	16	410
Cadmium	7440-43-9	7.8	200
Calcium	7440-70-2	--	--
Chromium (VI)	7440-47-3	23	610
Cobalt	7440-48-4	470	12,000
Copper	7440-50-8	310	8,200
Iron	7439-89-6	2,300	61,000
Lead	7439-92-1	400*	1000*
Magnesium	7439-95-4	--	--
Manganese	7439-96-5	160	4,100
Mercury	7439-97-6	2.3 ⁺	61 ⁺
Nickel	7440-02-0	160	4,100
Potassium	7440-09-7	--	--
Selenium	7782-49-2	39	1,000
Silver	7440-22-4	39	1,000
Sodium	7440-23-5	--	--
Thallium	7440-28-0	0.55	14
Vanadium	7440-62-2	55	1,400
Zinc	7440-66-6	2,300	61,000

Notes:

RBC = USEPA Region III Risk Based Concentration (October 5, 2000);

A hazard quotient (HQ) of 0.1 is used for non carcinogens and a target risk level of 1E10-6 is used for carcinogens

(except when HQ of 0.1 is lower).

ug/Kg = micrograms per kilogram; mg/Kg = milligrams per kilogram

CAS = Chemical Abstract Service

* = Lead screening values (not an RBC).

+ = Mercuric chloride value used.

^ = Chlordane RBC value for sum of isomers.

TCL SVOCs - Detectable concentrations of one TCL SVOC, bis (2-Ethylhexyl) phthalate, were reported for samples 6SB9B (4000 µg/Kg) and 6SB10 (220 µg/Kg) and 6SB13BFD (66 µg/Kg).

TCL Pesticides/PCBs – The TCL pesticides, beta-BHC (2.7P to 4.8P µg/Kg), delta BHC (1.6P), lindane (0.85 to 1 µg/Kg), endrin ketone (2.2P to 49Pµg/Kg), alpha chlordane (0.74P to 1.9P µg/Kg), gamma chlordane (1.8P to 2.7P µg/Kg), heptachlor (1.2P µg/Kg), and heptachlor epoxide (2.4 to 14P µg/Kg) were detected in one or more of the samples analyzed.

A detectable concentration of one PCB aroclor, Aroclor-1254 was reported. This constituent was reported at an estimated concentration of 37 µg/Kg in sample 6SB7B.

Explosives - Detectable concentrations of the explosive HMX were reported in three samples at concentrations ranging from 1.4 to 1.5 µg/Kg.

TAL Metals - The following TAL metals were detected in one or more of the samples: aluminum (10,200 to 49,600 mg/Kg), arsenic (3.8 to 7.6 mg/Kg), barium (37.6 to 102 mg/Kg), beryllium (0.37B to 1.9 mg/Kg), cadmium (0.21B to 0.61B mg/Kg), calcium (288 to 10,400 mg/Kg), chromium (18.6N to 51.5N mg/Kg), cobalt (6 to 26.4 mg/Kg), copper (7.8 to 38.1 mg/Kg), iron (20,500 to 40,400 mg/Kg), lead (9.9 to 40.3 mg/Kg), magnesium (703 to 55,500 mg/Kg), manganese (181N to 1,510N mg/Kg), mercury (0.03 to 0.14 mg/Kg), nickel (6.2 to 23.2 mg/Kg), potassium (262 to 21,200 mg/Kg), selenium (0.64 to 1.9 mg/Kg), silver (0.21B to 1.6 mg/Kg), sodium (48.3B to 53.6B mg/Kg), thallium (1.2 mg/Kg), vanadium (45.9 to 89.9 mg/Kg) and zinc (28.7 to 75.6 mg/Kg).

5.5 DISCRETE SAMPLING: COMPARISON TO REGION III RISK-BASED CONCENTRATIONS

TCL VOCs – Detected concentrations of TCL VOCs were less than applicable RBC criteria.

TCL SVOCs – A single detection of bis (2-Ethylhexyl) phthalate (4,000 µg/Kg) was above the residential RBC of 870 µg/Kg. The industrial RBC was not exceeded for this compound (7,800 µg/Kg).

TCL Pesticides/PCBs – Detected TCL Pesticides/PCBs concentrations were less than applicable RBC criteria.

Explosives – The detections of HMX (1.4 and 1.5 µg/Kg) were less than the established residential or industrial RBCs (3.9E05 and 1.0E07 µg/Kg, respectively).

TAL Metals – Aluminum (10,200 to 49,600 mg/Kg) detections were above the residential RBC of 7,800 mg/kg, but less than the industrial RBC of 200,000 mg/Kg.

Arsenic detections (3.8 to 7.6 mg/Kg) were above the residential and industrial RBCs of 0.43 and 3.8 mg/kg, respectively.

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Chromium detections (18.6N to 51.5N mg/Kg) were above the residential RBC of (23 mg/kg); however, these detections were below the industrial RBC of 610 mg/kg.

Iron detections (20,500 to 40,400 mg/Kg) were above the residential RBC of 2,300 mg/kg; however, these detections were below the industrial RBC of 61,000 mg/kg.

Manganese detections (181N to 1,510N mg/Kg) were above the residential RBC of 160 mg/kg; however, these detections were below the industrial RBC of 4,100 mg/Kg.

The thallium detection (1.2 mg/Kg) was above the residential RBC of 0.55 mg/kg; however, these detections were below the industrial RBC of 14 mg/Kg.

Vanadium detections of greater than 55 to 89.9 mg/Kg were above the residential RBC of 55 mg/kg; however, these detections were below the industrial RBC of 1400 mg/Kg.

6.0 INVESTIGATIVE DERIVED MATERIAL

Four (4) 55-gallon drums were filled during field activities at the site. Of those, one (1) contained Geoprobe® cuttings, one (1) contained decontamination water, and two (2) contained personal protective equipment (PPE), decontamination pad materials and other sampling equipment (e.g., sheeting, acetate liners, baggies).

One composite soil sample was generated from the soil drum and submitted for TCLP metals, TCLP VOCs, TCLP SVOCs, and ignitability, corrosivity, reactivity, and paint filter liquids analysis. The results of the analysis (Appendix D) indicates that the samples passed the tests; there were no compounds detected above the detection limit, ignitability, corrosivity and reactivity results were within established regulatory limits.

One grab water sample was collected from the drum and submitted for TCLP metals, TCLP VOCs, TCLP SVOCs and ignitability and corrosivity. The results of the analysis indicate that the samples passed the tests; there were no compounds detected above the detection limit, ignitability, corrosivity and reactivity results were within established limits.

Based on these results, the IDM was disposed of in accordance with established Commonwealth of Virginia Solid Waste Regulations. On Friday, December 8, 2000, Clean Harbors Environmental Services, Inc. transported the drums to their facility in Hopewell, Virginia for proper disposal.

7.0 SUMMARY AND CONCLUSIONS

The following summarizes the key field observations made during this investigation:

- Three layers of soil were observed in the SWMU. The uppermost layer, or Stratum 1, is represented by red to strong brown silty clay. Stratum 2 is represented by silt and clay mixtures and is characterized by its gray to brown color and the presence of woody material and wood chips. Stratum 3 is represented by stiff to hard highly plastic clay to silty clay.
- Previous investigations at SWMU 6 (Dames & Moore, VI Report, 1992) indicated the possible presence (by visual observation) of a sludge-like layer of material at approximately the same depths as Stratum 2. This material was reportedly observed in one of two soil borings advanced within SWMU 6 during the VI. The results of the chemical analysis of the soils sampled during the VI did not indicate the material was a hazardous waste, nor were environmental impacts or contamination identified through laboratory analysis of these four VI samples.
- Similar subsurface soil conditions were encountered during this investigation as in 1992; however, during this investigation the texture of Stratum 2 was consistent with that of a soil and did not appear to be sludge. Stratum 2 is therefore considered soil. Soils in Stratum 2 exhibited color characteristics that did not appear to be native. These characteristic colors may indicate that the soil was influenced by former operations at the SWMU. The color of the stratum may be a result of standing water in the lagoon during its operational life.

The following is a discussion of the soil sampling and summarizes the results of the laboratory analysis and comparison to applicable criteria of the samples collected.

- Soil samples for this investigation were collected as part of the planning stage for the construction of NC settling tanks. Construction of the settling tanks will require that soil in SWMU 6 are excavated to a depth of 25 feet bgs. Therefore, composite soil samples representing the overburden were sampled and analyzed for hazardous waste characteristics to evaluate the proper disposal method of the soil. Soils that will remain in place (residual soil) were sampled at depth (25 feet bgs) for residual risk.
- Overburden composite samples were analyzed in accordance with USEPA SW-846 protocols for the Toxic Characteristic Leaching Procedures (TCLP) analytes, ignitability, corrosivity, and reactivity (visual method by RFAAP). Analytical results were compared to the Regulatory TCLP limits for hazardous waste set forth in 40 CFR 261.

- Residual soils were analyzed in accordance with USEPA SW-846 approved methods for Target Analyte List (TAL) metals, TCL VOCs, SVOCs, pesticides/aroclor, and explosives. Analytical results were compared to USEPA Region III Residential and Industrial Risk Based Concentrations (RBCs).
- **Composite Samples: Waste Characteristic Screening** - Results of the laboratory analyses indicated that none of the regulatory limits for hazardous waste were exceeded for the overburden soils. This indicates that the soil, when it is excavated, will likely not have to be disposed of as hazardous waste.
- **Discrete Samples: Analytical Results** – TCL VOCs acetone, methylene chloride, 2-butanone and toluene were detected. Of these compounds, methylene chloride and toluene were present in laboratory method blanks at levels that indicate laboratory contamination. The TCL SVOC bis (2-Ethylhexyl) phthalate was detected. TCL Pesticides beta-BHC, lindane, endrin ketone, alpha chlordane, gamma chlordane, heptachlor and heptachlor epoxide were detected. The explosive HMX was detected. Twenty-three (23) TAL metals were detected.
- **Discrete Samples: Risk-Based Concentration Screening** – (Table 7) Detected concentrations of TCL VOCs, SVOCs, Pesticide/PCBs and Explosives did not exceed either residential or industrial RBCs. Concentrations of the TAL Metal arsenic were greater than the residential and industrial RBCs. Concentrations of the TAL metals aluminum, chromium, iron, manganese, thallium and vanadium were greater than their respective residential RBCs; however, they were less than their respective industrial RBCs.

Based on the results of the investigation, the following conclusions can be made:

- The sampling investigation provides physical evidence that allows for the horizontal delineation of the former SWMU boundary. The investigation also provides adequate chemical analytical data for the purposes of risk screening.
- Sludge/Waste material was not encountered in SWMU 6 during this investigation. The results of the analytical data support this conclusion.
- The results of the chemical analysis of the composite samples collected for the evaluation of hazardous waste characteristics indicate that the overburden soils to be excavated in SWMU 6 will not require disposal as hazardous waste.

Note that RFAAP is currently finalizing a report documenting background soil concentrations for multiple compounds (Background Report). Upon completion of the Background Report, the contaminants of potential concern (COPCs) listed in Table 7 will be compared to background values.

TABLE 7
SUMMARY OF CONTAMINANTS OF POTENTIAL CONCERN
DISCRETE RESIDUAL RISK SAMPLE ANALYSES

Compound	Residential RBC (mg/Kg)	Value Exceeded in One or More Samples?	Industrial RBC (mg/Kg)	Value Exceeded in One or More Samples?
Aluminum	7,800	✓	200,000	
Arsenic	0.43	✓	3.8	✓
Chromium	23	✓	610	
Iron	2,300	✓	61,000	
Manganese	160	✓	4100	
Thallium	0.55	✓	14	
Vanadium	55	✓	1,400	

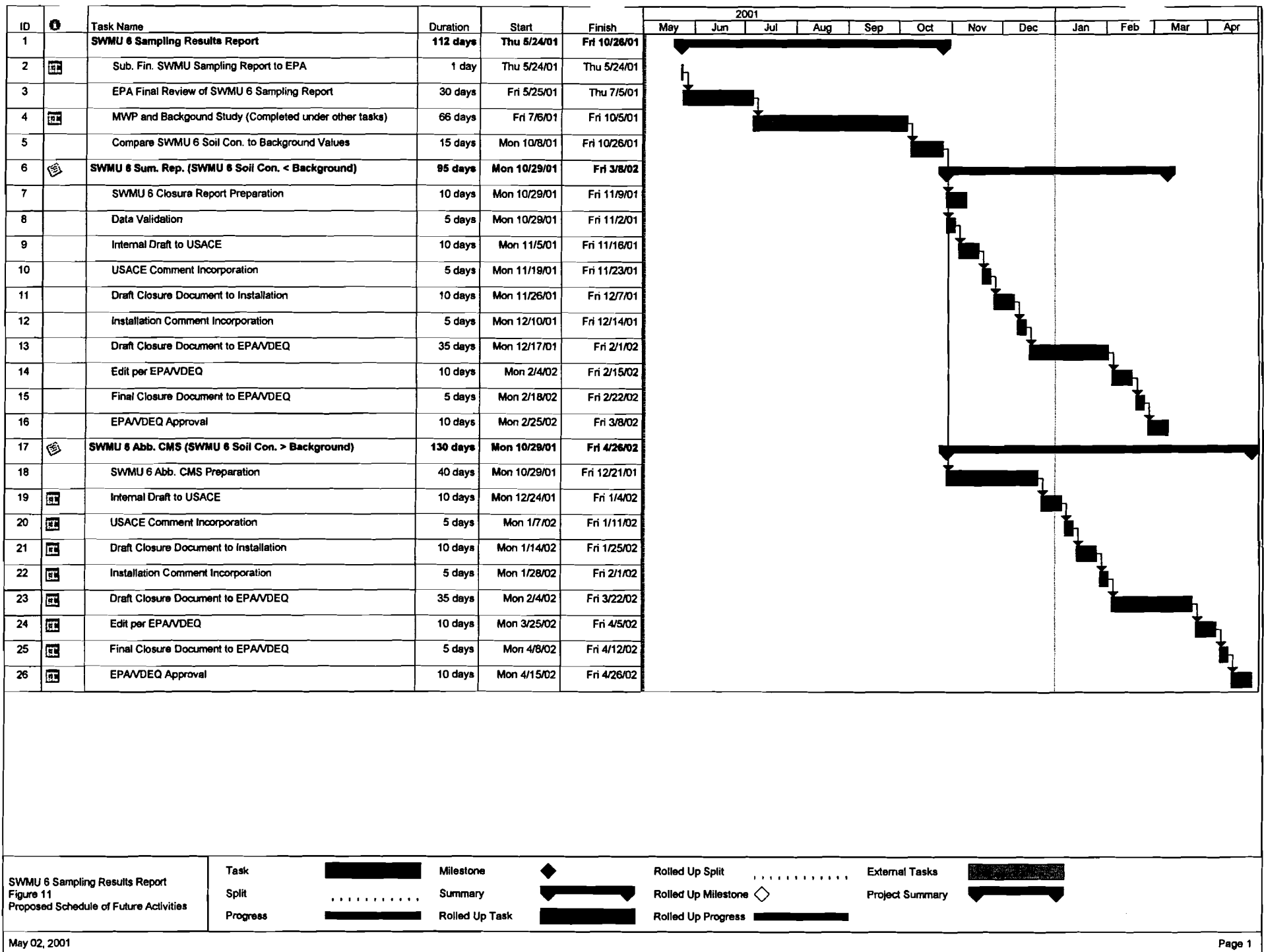
Notes:

RBC = USEPA Region III Risk Based Concentration (October 5, 2000).

A hazard quotient (HQ) of 0.1 is used for non carcinogens and a target risk level of 1×10^{-6} is used for carcinogens.

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If the COPCs identified within this report are determined to be within background concentrations, then RFAAP will prepare a summary report documenting that an RFI is not required for SWMU 6 per the USEPA RCRA Corrective Action Permit, Part II, Section D.7.b. Conversely, if COPCs identified in this report are above background concentrations, then an abbreviated CMS will be prepared, and a draft Statement of Basis will be submitted (i.e., Part II, Section D.23 et. al., of the facility permit). A comparison to background concentrations will be performed once the Background Report is finalized. The results of the background comparisons will be documented in either the Summary Report or CMS mentioned above. A proposed schedule for these actions is included as Figure 11.



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8.0 REFERENCES

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U.S. Army Toxic and Hazardous Materials Agency (USATHAMA), 1984. Installation Reassessment of Radford Army Ammunition Plant, Radford, Virginia. Report No. 103R.

U.S. Environmental Protection Agency (USEPA), Updated Risk Based Concentration TAL, Jennifer Hubbard, Toxicologist, October 5, 2000.

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APPENDIX A

Aerial Photograph of SWMU 6



Aerial Photograph Showing Location and Boundaries of SWMU 6
Photograph Date: July 4, 1986
U.S. Environmental Protection Agency, Frame # 05123-44
Original Scale 1: 12,000

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APPENDIX B

Boring Logs

URS

Dames & Moore

Log of:

6SB3

Project Number:

09604-242

Client:	U.S. Army Corps of Engineers	Drilling Company:	Marshall Miller & Assoc.
Project:	SWMU 6 Sampling and Reporting	Driller:	Kelth Carr
Location:	Radford Army Ammunition Plant, Radford, VA	Boring Method:	Geoprobe
North:		Logged by:	John H. Spangler
Total Depth:	27.9'	Elev GS:	
		Reference:	
		Date:	Start: 11/14/00
			Complete: 11/14/2000

PID	Ft. Driven Ft. Recovered	Composite Sample Collection Depth	VOC Sample Depth	Sample Interval	Depth (Ft.)	Symbol	Description
ND	4.0'						Brown organics/roots/fine sandy clay
ND				0-4'	2		0.5': Dark red, (2.5y 3/6), fine sandy clay, moist, low plasticity, trace gravels.
ND	4.0'				4	CL	2.5': Dark yellowish brown, (10 yr 5/6), silty clay, moist, medium plasticity some red and black mottling.
ND				4-8'	6		4.0': Grading yellowish brown (10 yr 5/6), silty clay, wet, moist, trace gravels
ND	4.0'				8	CL	6.5': Olive, (2.5 yr 5/4), silty clay, trace gravels
ND				8-12'	10		8.0': Reddish yellow (7.5 yr 6/6) silty clay, moist, root material AT 10.8'
0.1	2.2'				12		
	4.0'			12-16'	14		12.0': Reddish yellow, (7.5 yr 6/8), silty clay, moist, high plasticity
4.0					16		
6.0	1.2'			16-20'	18	CL	Increased sand component
	4.0'				20		
7.0				20-24'	22		
	0.8'				24		Increased resistance, hard, at 23'
ND				24-27.9'	26		
ND	3.9'						
ND							
ND	3.5'						
27.9': Boring terminated at 27.9'. Refusal.							

Notes:

ND = Not Detected

PID = Photo Ionization Detector

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 Dames & Moore		Log of: 6SB4	
		Project Number: 09604-242	
Client: U.S. Army Corps of Engineers		Drilling Company: Marshall Miller & Assoc.	
Project: SWMU 6 Sampling and Reporting		Driller: Keith Carr	
Location: Radford Army Ammunition Plant, Radford, VA		Boring Method: Geoprobe	
North:		East:	
Total Depth: 27.0'		Elev GS:	
Reference:		Date: Start: 11/14/00 Complete: 11/14/2000	

PID	Ft. Driven Ft. Recovered	Composite Sample Collection Depth	VOC Sample Depth	Sample Interval	Depth (Ft.)	Symbol	Description			
ND	4.0'			0-4'	2	SM	Brown root matter, grading to reddish brown, (2.5 yr 3/3), medium grained clayey sand, slightly micaceous, moist, grading red.			
	4				CL					
	3.4'			4-8'	4	GW	Gravel layer			
	4.0'				6	CL	Strong brown, (7.5 yr 5/6), medium to coarse sandy clay, soft, high plasticity, moist			
	2.8'			8						
	4.0'			10	Gravel lenses					
	1.0'			12						
	4.0'			12-16'	14		Grading softer, increase in moisture			
	3.4'				16					
	4.0'			16-20'	18		Grayish brown, (2.5 yr 5/2), stiff, sandy clay, low plasticity, wet			
	4.0'				20	SM	18.5': Silt/very fine sand mix 18.7': Yellowish red, (5 yr 5/6) stiff, fine sandy clay, wet with black matter (coal?)			
	4.0'			20-24'	22	CL				
	4.0'				24					
	3.0'			24-27'	26					
	3.0'									
										Boring terminated at 27' - No refusal.

Notes:
ND = Not Detected
PID = Photo Ionization Detector

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 Dames & Moore		Log of: 6SB5	
		Project Number: 09604-242	
Client: U.S. Army Corps of Engineers		Drilling Company: Marshall Miller & Assoc.	
Project: SWMU 6 Sampling and Reporting		Driller: Keith Carr	
Location: Radford Army Ammunition Plant, Radford, VA		Boring Method: Geoprobe	
North:		East:	
Total Depth: 17.4		Elev GS:	
Reference:		Date: Start: 11/15/00 Complete: 11/15/2000	

PID	FL Driven FL Recovered	Composite Sample Collection Depth	VOC Sample Depth	Sample Interval	Depth (Ft.)	Symbol	Description
ND 	4.0'			0-4'	2	CL	Brownish red, sandy clay, stiff Strong brown, (7.5 yr 5/6), silty clay, stiff, moist Grading moist with moderate plasticity Trace black matter (coal?). Trace fine to coarse sand, trace fine gravels Grading redder; hard at 7.9' Red (2.5 yr 4/6) fine to medium sandy clay, moist, grading with soft sandy clay
	4.0'			4			
	4.0'			6			
	4.0'			8			
	4.0'			10			
	3.0'			12			
	4.0'			14			
	0.5'			16			
	1.4'			18			
							16-17.4'
				20			
			20-24'	22			
				24			
			24-27'	26			

Notes:
ND = Not Detected
PID = Photo Ionization Detector

URS

Dames & Moore

Log of:

6SB6

Project Number:

09604-242

Client: U.S. Army Corps of Engineers

Drilling Company:

Marshall Miller & Assoc.

Project: SWMU 6 Sampling and Reporting

Driller:

Keith Carr

Location: Radford Army Ammunition Plant, Radford, VA

Boring Method:

Geoprobe

North:

East:

Logged by:

John H. Spangler

Total Depth: 27.0'

Elev GS:

Reference:

Date: Start: 11/15/00

Complete: 11/15/2000

PID	Ft. Driven Ft. Recovered	Composite Sample Collection Depth	VOC Sample Depth	Sample Interval	Depth (Ft.)	Symbol	Description
ND	4.0'			0-4'	2	SC	Brown sandy clay, roots, grass Red, (2.5 yr 4/8), fine to medium sandy clay, moist
	4.0'				4	CL	
	4.0'			4-8'	6		5.6' to 5.9': Gravel seam, with strong brown mottling, moist
	4.0'				8		
	4.0'			8-12'	10	CL/GP	8.0' to 12.0': Red gravelly clay,
	0.8'				12		
	4.0'			12-16'	14	CL/ML	Strong brown (10 yr 5/6), clayey silt to silty clay, wet with trace gravel in lenses
	2.0'				16		15.5': Very dark gray soft silty clay
	4.0'			16-20'	18		Dark brown, (10 yr 4/2), silty sandy clay, very stiff, moist
	3.0'				20		
	4.0'			20-24'	22	CL	
	4.0'				24		Grading softer, wet, with gravel
	4.0'				26		Increasing sand, wet
	3.0'			24-27'			
							Boring terminated at 27'. No refusal.

Notes:

ND = Not Detected

PID = Photo Ionization Detector

Boring Log 6SB6

Page 1

URS

Dames & Moore

Log of:

6SB7

Project Number:

09604-242

Client:	U.S. Army Corps of Engineers	Drilling Company:	Marshall Miller & Assoc.
Project:	SWMU 6 Sampling and Reporting	Driller:	Keith Carr
Location:	Radford Army Ammunition Plant, Radford, VA	Boring Method:	Geoprobe
North:		Logged by:	John H. Spangler
Total Depth:	27.0'	Date:	Start: 11/14/00 Complete: 11/14/2000

PID	Ft. Driven Ft. Recovered	Composite Sample Collection Depth	VOC Sample Depth	Sample Interval	Depth (Ft.)	Symbol	Description
ND ↓ 0.2 ND	4.0'			0-4'	2	SM	Brown silty sandy clay with organics Red (2.5 yr 4/8) fine to medium sandy clay, slightly micaceous, trace coarse sand, moist
	4.0'				4		Red (2.5 yr 4/8) sandy clay, slightly plastic, moist
	4.0'			4-8'	6	CL	Grading stiffer; trace gravels, trace yellow mottles; moist
	4.0'				8		Increased gravels
	4.0'			8-12'	10		10.0' to 10.8': Increased moisture and plasticity, soft 10.8': Brownish yellow (10 yr 6/6) soft, highly plastic clay trace coarse sand, moist
	4.0'				12	CH	
	4.0'			12-16'	14		Grades to light olive brown (2.5 yr 5/3) soft, clay and silt, wet, with trace decomposed wood fragments
	3.4'				16		
	4.0'			16-20'	18	CL	
	4.0'				20		20.0': Strong brown (7.5 yr 5/3) soft silty clay, some sand, moist and gravel, moist
	4.0'			20-24'	22	CL	21.0': Becomes brown (10 yr 5/3) soft, silty clay, some sand and gravel moist
	4.0'				24	CL/ML	
	4.0'			24-27'	26	CL	Red sandy clay, moist
	3.0'						Boring terminated at 27'. No refusal.

Note:

ND = Not Detected

PID = Photo Ionization Detector

Boring Log 6SB7

Page 1



Dames & Moore

Log of:

6SB8

Project Number:

09604-242

Client:	U.S. Army Corps of Engineers	Drilling Company:	Marshall Miller & Assoc.
Project:	SWMU 6 Sampling and Reporting	Driller:	Keith Carr
Location:	Radford Army Ammunition Plant, Radford, VA	Boring Method:	Geoprobe
North:		Logged by:	John H. Spangler
Total Depth:	27.0'	Reference:	
Elev GS:		Date: Start:	11/15/00
		Complete:	11/15/2000

PID	Ft. Driven Ft. Recovered	Composite Sample Collection Depth	VOC Sample Depth	Sample Interval	Depth (Ft.)	Symbol	Description
ND	4.0'			0-4'	2		Red sandy clay, with grass and roots, micaceous, stiff
	4.0'				4		Reddish yellow (7.5 yr 6/6) silty clay, moist grading harder with depth, trace rounded gravels
	4.0'			4-8'	6	CL	6.0': Increased moisture with wood chips
	4.0'				8		8.0' to 15.5': No wood chips
	4.0'			8-12'	10		
	2.0'				12		
	4.0'			12-16'	14	CL/CH	12.4': Dark grayish brown (10 yr 4/2) soft, sandy clay, plastic, moist
	4.0'				16		13.7': Stiffer
	4.0'			16-20'	18	GW	15.5': Wood chips present with yellowish brown mottles, increasing sand and moisture
	4.0'				20		Gravel seam
	4.0'			20-24'	22	CL/CH	Yellowish red (5 yr 5/6) clay, very stiff to hard, moist, trace fine black matter (coal?)
	4.0'				24		
	3.0'			24-27'	26		
	3.0'						Boring terminated at 27'. No refusal.

Note:

ND = Not Detected

PID = Photo Ionization Detector

Boring Log 6SB8

Page 1

URS

Dames & Moore

Log of:

6SB9

Project Number:

09604-242

Client: U.S. Army Corps of Engineers

Drilling Company:

Marshall Miller & Assoc.

Project: SWMU 6 Sampling and Reporting

Driller:

Keith Carr

Location: Radford Army Ammunition Plant, Radford, VA

Boring Method:

Geoprobe

North:

East:

Logged by:

John H. Spangler

Total Depth: 27.0'

Elev GS:

Reference:

Date: Start: 11/15/00

Complete: 11/15/00

PID	Fl. Driven Fl. Recovered	Composite Sample Collection Depth	VOC Sample Depth	Sample Interval	Depth (Ft.)	Symbol	Description
ND	4.0'			0-4'	2	GM	Silty gravels to 0.3'
						CL	Red (2.5 yr 4/6) sandy clay, medium plasticity
	4.0'			4-8'	4	CL	Yellowish brown (10 yr 5/8) soft clayey silt/silty clay, moist
	4.0'				6		4.8' Gravel seam
	0.5'				8		
	4.0'				10		Very soft yellowish brown silty clay, moist
	2.3'			8-12'	12	CL	
	4.0'				14		Strong brown (7.5 yr 5/6) very soft, silty clay, low plasticity trace fine sand, wet
	1.0'			12-16'	16		
	4.0'				18		18.0' Brown (7.5 yr 4/4)
	4.0'			16-20'	20	CH	19.0' Brown (7.5 yr 4/4) stiff, sandy plastic clay with wood fragments
	4.0'				22		22.5' to 22.8': Zone of wood fragments, underlain by brown (7.5 yr 4/4) fine to medium clayey sand, trace rounded gravels
	4.0'			20-24'	24	SC	
	3.0'				26	ML	24.0' to 27.0': Brown (7.5 yr 4/4) sandy clayey silt, saturated
	4.0'			24-27'			Boring terminated at 27'. No refusal.

Note:

ND = Not Detected

PID = Photo Ionization Detector

Boring Log 6SB9

Page 1

URS

Dames & Moore

Log of:

6SB10

Project Number:

09604-242

Client: U.S. Army Corps of Engineers Drilling Company: Marshall Miller & Assoc.

Project: SWMU 6 Sampling and Reporting Driller: Keith Carr

Location: Radford Army Ammunition Plant, Radford, VA Boring Method: Geoprobe

North: East: Logged by: John H. Spangler

Total Depth: 20.4' Elev GS: Reference: Date: Start: 11/15/00 Complete: 11/15/00

PID	Ft. Driven FL Recovered	Composite Sample Collection Depth	VOC Sample Depth	Sample Interval	Depth (Ft.)	Symbol	Description
ND	4.0'			0-4'	2	SC	Brown silty clayey sand, grass and roots
ND	4.0'						Red, (2.5y 4/6), sandy clay, trace gravels, with yellowish brown mottles, moist
ND	4.0'			4-8'	4	CL	Red, (2.5y 4/6), sandy clay, trace gravels, with yellowish brown mottles; moist
ND	4.0'				6		
0.2	4.0'			8-12'	8		Grading stiffer.
ND	4.0'				10		
ND	4.0'				12	CL/GP	11.0': Yellowish brown, (10 yr 5/4), hard gravelly clay, trace wood fragments, moist
0.6	4.0'			12-16'	14	CL	13.5': Brown, (7.5 yr 5/3), sandy clay with some red mottling.
ND	4.0'				16	SM	15.2': Brown, (7.5 yr 5/3), soft silty sand, with wood fragments
ND	4.0'			16-20'	18	CL	16.0': Yellowish brown, (10 yr 5/6), hard sandy clay, moist
ND	4.0'				20	SC	Grading to reddish brown, clayey silty fine sand, moist
ND	0.4' 0.4'						Boring terminated at 20.4'. Refusal.
				20-24'	22		
					24		
				24-27'	26		

Notes:

ND = Not Detected

PID = Photo Ionization Detector

Boring Log 6SB10

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URS

Dames & Moore

Log of:

6SB11

Project Number:

09604-242

Client:	U.S. Army Corps of Engineers	Drilling Company:	Marshall Miller & Assoc.
Project:	SWMU 6 Sampling and Reporting	Driller:	Keith Carr
Location:	Radford Army Ammunition Plant, Radford, VA	Boring Method:	Geoprobe
North:		Logged by:	John H. Spangler
Total Depth:	27.0'	Date: Start:	11/15/00
Elev GS:		Complete:	11/15/00
Reference:			

PID	Ft. Driven FL Recovered	Composite Sample Collection Depth	VOC Sample Depth	Sample Interval	Depth (Ft.)	Symbol	Description
ND	4.0'					SC	Reddish brown, (2.5 yr 3/4), clayey silty sand
ND							becoming red (2.5 yr 4/8) softer, plastic sandy clay
ND				0-4'	2	CL	1.5': Becomes brownish yellow, (10 yr 6/8), silty sandy clay, moist
ND	4.0'				4		with strong brown, (7.5 yr 5/6), mottling, plasticity increasing.
ND						GC	5.0' - 5.5': Gravel lense
ND	4.0'			4-8'	6		Highly plastic brownish yellow, (10 yr 6/8), clay; moist, trace
ND						CH	sand, trace black matter (coal?)
ND	3.0'				8		
ND						CL	10.5': Becomes reddish brown, (5 yr 4/6), soft fine to medium sandy
ND	4.0'			8-12'	10		silty clay, trace gravel, moist
ND						SM	11.5': Dark brown (7.5 yr 3/3) silty sand, moist, with root material
ND	4.0'				12		
ND						CL	14.2': Dark grayish brown, (2.5 yr 4/2), sandy clay, plastic, trace
0.1'				12-16'	14		gravel, trace dark yellow brown, sandy clay, moist
ND	3.5'				16		grading softer with gray and red mottles
ND						SP	Brownish yellow, (10 yr 6/8), hard silty clayey gravelly sand,
ND	4.0'			16-20'	18		red mottles, moist
ND						GC	Brownish yellow, (10 yr 6/8), clayey sandy gravel, moist
ND	4.0'			20-24'	20		
ND						CL	Strong brown, (7.5 yr 5/6), slightly sandy clay, plastic, moist, trace
ND	4.0'				22		black matter (coal?)
ND							
ND	4.0'			24-27'	24		
ND					26		
ND	3.0'						Boring terminated at 27' - No refusal.

Notes:

ND = Not Detected

PID = Photo Ionization Detector

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 Dames & Moore		Log of: 6SB12	
		Project Number: 09604-242	
Client: U.S. Army Corps of Engineers		Drilling Company: Marshall Miller & Assoc.	
Project: SWMU 6 Sampling and Reporting		Driller: Keith Carr	
Location: Radford Army Ammunition Plant, Radford, VA		Boring Method: Geoprobe	
North:		East:	
Total Depth: 27.0'		Elev GS:	
Reference:		Logged by: John H. Spangler	
Date: Start: 11/15/00		Complete: 11/15/00	

PID	Ft. Driven Ft. Recovered	Composite Sample Collection Depth	VOC Sample Depth	Sample Interval	Depth (Ft.)	Symbol	Description
ND	4.0'			0-4'	2	CL	Grass and root matter, becoming red (2.5 yr 4/6) hard sandy clay, 1.5' - 3.0' Micaceous sandy clay with gravel lense, moist
	4						
	4.0'			4-8'	6	ML	Yellow (10 yr 8/8) soft silt, dry
	2.8'				8		
	4.0'			8-12'	10	CL	7.0': Yellowish red (5 yr 5/6) sandy clay, soft, plastic, moist
	1.5'				12		
	4.0'			12-16'	14	CL	13.0': Stiff dark brown (7.5 yr 4/3) fine to coarse sandy clay, moist
	1.5'				16		
	4.0'			16-20'	18	GC	grading redder and gravelly
	4.0'				20		
	4.0'			20-24'	22	CM	18.7' to 19.1': Sandy clayey gravel Yellowish red (5 yr 5/8) highly plastic stiff clay with strong brown and yellow mottles , moist
	4.0'				24		
	4.0'			24-27'	26	CL	Yellowish red (5 yr 5/8) medium stiff silty clay, trace sand lenses moist
3.0'							
							Boring terminated at 27'. No refusal.

Notes:
ND = Not Detected
PID = Photo Ionization Detector

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URS Dames & Moore		Log of: 6SB13 Project Number: 09604-242			
Client: U.S. Army Corps of Engineers		Drilling Company: Marshall Miller & Assoc.			
Project: SWMU 6 Sampling and Reporting		Driller: Keith Carr			
Location: Radford Army Ammunition Plant, Radford, VA		Boring Method: Geoprobe			
North:		East:		Logged by: John H. Spangler	
Total Depth: 27.0'	Elev GS:	Reference:		Date: Start: 11/16/00	Complete: 11/16/00

PID	Ft. Driven FL Recovered	Composite Sample Collection Depth	VOC Sample Depth	Sample Interval	Depth (Ft.)	Symbol	Description
ND	4.0'			0-4'	2	GM	0' to 1.0': Surface gravel
						CL	1.0': Red (2.5 yr 4/6) clay, soft sandy (micaceous) silty, moist
	4.0'				4		
	4.0'			4-8'	6		
	0.4'				8		
	4.0'			8-12'	10	GC	8.4' to 8.7' Gravel lense
	2.0'				12	CL	8.7' to 8.8': Black tar-like matter with fiber-like matting attached to it (Resembles tar/matting of adjacent concrete basins) 8.8' to 12.0': Red clay, trace gravel, moist
	4.0'			12-16'	14	SP	Dark grayish brown (2.5 yr 4/2) clayey silty fine sand, moist
	3.5'				16		
	4.0'			16-20'	18	CL	Grades to soft silty clay
	4.0'				20	SC	17.4': Yellowish brown (7.5 yr 5/4) soft, very silty clay, saturated
	4.0'			20-24'	22		18.5' to 20.0': Strong brown (7.5 yr 5/8) soft sandy clay with fine gravel moist
4.0'				24	CL/GP	Strong brown (7.5 yr 5/8) gravelly sandy plastic clay, trace silt moist	
3.0'			24-27'	26		Increased plasticity	
	3.0'						Boring terminated at 27'. No refusal.

Notes:
 ND = Not Detected
 PID = Photo Ionization Detector

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URS Dames & Moore		Log of: 6SB14	
		Project Number: 09604-242	
Client: U.S. Army Corps of Engineers		Drilling Company: Marshall Miller & Assoc.	
Project: SWMU 6 Sampling and Reporting		Driller: Keith Carr	
Location: Radford Army Ammunition Plant, Radford, VA		Boring Method: Geoprobe	
North:		East:	
Total Depth: 27.0'		Elev GS:	
Reference:		Date: Start: 11/16/00 Complete: 11/16/00	

PID	Ft. Driven Ft. Recovered	Composite Sample Collection Depth	VOC Sample Depth	Sample Interval	Depth (Ft.)	Symbol	Description
ND	4.0'			0-4'	2	GM	Surface gravel/silt/clay 0.75': Red (2.5 yr 4/6) sandy clay, medium plasticity, with yellowish brown mottling, moist
	4.0'				4	CL	4.0': Increasing yellowish brown mottles
	4.0'			4-8'	6		
	0.3'				8		
	4.0'			8-12'	10	GM	9.3' to 9.5': Gravel lense 9.5' to 10.0': Stiff red (2.5 yr 4/6) sandy clay, moist 10.0' - 12.0': Grading soft, with increasing gravels
	3.2'				12	CL	
	4.0'			12-16'	14		
	4.0'				16		14.7': Olive brown (2.5 yr 4/3) silty, trace clay, clayey fine sand, with occasional wood fragments, moist
	4.0'			16-20'	18	SC/SM	
	4.0'				20		Grading to dark brown (10 yr 4/3), trace wood fragments or sticks
	4.0'			20-24'	22	CH	21.5': Strong brown (7.5 yr 5/6) highly plastic clay, trace reddish yellow mottles
	4.0'				24	CL	23.0': Strong brown (7.5 yr 5/6) slightly silty, slightly gravelly clay occasional reddish yellow mottles.
3.0'			24-27'	26			
	3.0'						Boring terminated at 27' - No probe refusal.

Notes:
 ND = Not Detected
 PID = Photo Ionization Detector

APPENDIX C

Data Reporting Qualifiers

CompChem

a Division of Liberty Analytical Corp.

501 Madison Avenue Cary, NC 27513

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

- U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.
- R: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

The Q qualifiers used are:

- E: This flag indicates an estimated value. This flag is used:
1. When the serial dilution (a five fold dilution for CLP and a five fold dilution for SW-846 method 6010B) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).
 2. When the analytical spike recovery associated with the sample is below 40% after two successive dilutions by Graphite Furnace Atomic Absorption (GFAA).
- M: This flag applies to GFAA analyses for concentrations greater than the Contract Required Detection Limit (CRDL). This flag is only used for GFAA if the analytical sample or analytical spike duplicate injection reading is not within 20% of the Relative Standard Deviation (RSD).
- N: This flag indicates the sample spike recovery is outside of control limits.
- *: This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.
- S: This flag applies to GFAA analyses to indicate the reported value was determined by the Method Of Standard Addition (MSA).
- W: This flag applies to GFAA analyses when the post-digestion spike (analytical spike) is out of control limits (85% - 115%), while sample absorbance is less than 50% of "spike" absorbance ["spike" is defined as (absorbance or concentration of spike sample) minus (absorbance or concentration of the sample)].
- ±: This flag applies to GFAA analyses when the correlation coefficient for the MSA is less than 0.995 after two MSA analyses.

NOTE: Entering "S", "W", or "±" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

The extensions: D, S, M, L, A, added to the end of the client ID represent as follows:

- D: matrix duplicate
S: matrix spike
M: matrix spike duplicate
L: serial dilution
A: post digestion spike

Method Codes:

- P: ICP PLASMA
CV: MERCURY COLD VAPOR AA
CA: MIDI-DISTILLATION SPECTROPHOTOMETRIC
F: FURNACE AA

CompuChem

a division of Liberty Analytical Corporation

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

- U: This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.
- J: This flag indicates an estimated value. The flag is used as detailed below:
1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,
 2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL but greater than zero, and
 3. When the retention time data indicate the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL but greater than zero. For example, if the sample quantitation limit is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.
- N: This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.
- P: This flag is used for a pesticide/Aroclor target analyte, and other GC or HPLC analytes, when there is greater than 25% difference for detected concentrations between the two GC or HPLC columns. The lower of the two values is reported on Form I and flagged with a P.
- C: This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

- B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.
- E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.
- D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and all reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.
- NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL and the U flag.
- NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.
- A : This flag indicates that a TIC is a suspected aldol-condensation product.
- X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

APPENDIX D

Laboratory Analysis Data Sheets

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LABORATORY ANALYSIS DATA SHEETS

BORING 6SB3

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB3A

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTYCase No.: Q1701

SAS No.: _____

SDG No.: R1701Matrix (soil/water): WATERLab Sample ID: R1701-1Level (low/med): LOWDate Received: 11/15/00% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	486	B		P
7440-43-9	Cadmium	1.1	B	N	P
7440-47-3	Chromium	12.3	B	N	P
7439-92-1	Lead	162	B	NE	P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	11.2	B		P
7440-22-4	Silver	2.6	B	N	P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

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SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB3B

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-1Level (low/med): LOWDate Received: 11/15/00% Solids: 75.4Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19000			P
7440-36-0	Antimony	0.45	U	N	P
7440-38-2	Arsenic	3.8			P
7440-39-3	Barium	67.5			P
7440-41-7	Beryllium	0.54	B		P
7440-43-9	Cadmium	0.30	B		P
7440-70-2	Calcium	584			P
7440-47-3	Chromium	45.4		N	P
7440-48-4	Cobalt	17.8			P
7440-50-8	Copper	16.3			P
7439-89-6	Iron	28700			P
7439-92-1	Lead	20.3			P
7439-95-4	Magnesium	2250			P
7439-96-5	Manganese	525		N*	P
7439-97-6	Mercury	0.14			CV
7440-02-0	Nickel	10.9			P
7440-09-7	Potassium	1010		E	P
7782-49-2	Selenium	0.98			P
7440-22-4	Silver	0.83			P
7440-23-5	Sodium	33.9	U		P
7440-28-0	Thallium	0.63	U		P
7440-62-2	Vanadium	49.5		N	P
7440-66-6	Zinc	36.3			P

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB3A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-1

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-1A59

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: not dec. _____

Date Analyzed: 11/20/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB3B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-1

Sample wt/vol: 3.3 (g/mL) G

Lab File ID: Q1701-1RB56

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: not dec. 25

Date Analyzed: 11/28/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

74-87-3-----	Chloromethane	20	U
75-01-4-----	Vinyl Chloride	20	U
74-83-9-----	Bromomethane	20	U
75-00-3-----	Chloroethane	20	U
75-35-4-----	1,1-Dichloroethene	20	U
75-15-0-----	Carbon disulfide	20	U
67-64-1-----	Acetone	40	
75-09-2-----	Methylene Chloride	39	B
75-34-3-----	1,1-Dichloroethane	20	U
78-93-3-----	2-butanone	5	J
67-66-3-----	Chloroform	20	U
71-55-6-----	1,1,1-Trichloroethane	20	U
56-23-5-----	Carbon Tetrachloride	20	U
71-43-2-----	Benzene	20	U
107-06-2-----	1,2-Dichloroethane	20	U
79-01-6-----	Trichloroethene	20	U
78-87-5-----	1,2-Dichloropropane	20	U
75-27-4-----	Bromodichloromethane	20	U
10061-01-5-----	cis-1,3-Dichloropropene	20	U
108-10-1-----	4-Methyl-2-pentanone	20	U
108-88-3-----	Toluene	5	J
10061-02-6-----	trans-1,3-Dichloropropene	20	U
79-00-5-----	1,1,2-Trichloroethane	20	U
127-18-4-----	Tetrachloroethene	20	U
591-78-6-----	2-hexanone	20	U
124-48-1-----	Dibromochloromethane	20	U
108-90-7-----	Chlorobenzene	20	U
100-41-4-----	Ethylbenzene	20	U
100-42-5-----	Styrene	20	U
75-25-2-----	Bromoform	20	U
79-34-5-----	1,1,2,2-Tetrachloroethane	20	U
540-59-0-----	1,2-Dichloroethene (total)	20	U
1330-20-7-----	Xylene (total)	20	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB3A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-1

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-1A64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB3ARE

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-1

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-1RA64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/28/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB3B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-1

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: Q1701-1B64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	430	U
111-44-4-----	Bis(2-chloroethyl) ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-di-N-propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
111-91-1-----	Bis(2-chloroethoxy) methane	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-8-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
59-50-7-----	4-Chloro-3-methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	430	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	430	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	870	U
131-11-3-----	Dimethylphthalate	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U
208-96-8-----	Acenaphthylene	430	U
99-09-2-----	3-Nitroaniline	870	U
83-32-9-----	Acenaphthene	430	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB3B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-1

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: Q1701-1B64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	2200	U
100-02-7-----	4-Nitrophenol	870	U
121-14-2-----	2,4-Dinitrotoluene	430	U
132-64-9-----	Dibenzofuran	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	430	U
100-01-6-----	4-Nitroaniline	870	U
534-52-1-----	4,6-Dinitro-2-methylphenol	870	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	870	U
85-01-8-----	Phenanthrene	430	U
120-12-7-----	Anthracene	430	U
86-74-8-----	Carbazole	430	U
84-74-2-----	Di-n-butylphthalate	430	U
206-44-0-----	Fluoranthene	430	U
129-00-0-----	Pyrene	430	U
85-68-7-----	Butylbenzylphthalate	430	U
91-94-1-----	3,3'-Dichlorobenzidine	870	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	430	U
56-55-3-----	Benzo(a)anthracene	430	U
218-01-9-----	Chrysene	430	U
117-84-0-----	Di-n-octylphthalate	430	U
205-99-2-----	Benzo(b)fluoranthene	430	U
207-08-9-----	Benzo(k)fluoranthene	430	U
50-32-8-----	Benzo(a)pyrene	430	U
193-39-5-----	Indeno(1,2,3-c,d)pyrene	430	U
53-70-3-----	Dibenzo(a,h)anthracene	430	U
191-24-2-----	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine
FORM I. SV

82725

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. (9)

6SB3A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-1

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane) _____	2.5	U
72-20-8-----	Endrin _____	1.0	U
76-44-8-----	Heptachlor _____	0.25	U
1024-57-3-----	Heptachlor Epoxide _____	0.092	J
72-43-5-----	Methoxychlor _____	2.5	U
8001-35-2-----	Toxaphene _____	25	U
12789-03-6-----	Technical Chlordane _____	25	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB3A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-1

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

94-75-7-----2,4-D	0.49	JBP
93-72-1-----silvex	0.64	JBP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB3B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-1

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/28/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

309-00-2-----	Aldrin	2.2	U
319-84-6-----	alpha-BHC	2.2	U
319-85-7-----	beta-BHC	4.5	U
319-86-8-----	delta-BHC	2.2	U
58-89-9-----	gamma-BHC (Lindane)	2.2	U
72-54-8-----	4,4'-DDD	8.8	U
72-55-9-----	4,4'-DDE	4.5	U
50-29-3-----	4,4'-DDT	13	U
60-57-1-----	Dieldrin	4.5	U
959-98-8-----	Endosulfan I	4.5	U
33213-65-9-----	Endosulfan II	8.8	U
1031-07-8-----	Endosulfan sulfate	8.8	U
72-20-8-----	Endrin	8.8	U
7421-93-4-----	Endrin Aldehyde	8.8	U
76-44-8-----	Heptachlor	2.2	U
1024-57-3-----	Heptachlor Epoxide	2.2	U
72-43-5-----	Methoxychlor	22	U
8001-35-2-----	Toxaphene	220	U
12674-11-2-----	Aroclor-1016	170	U
11104-28-2-----	Aroclor-1221	230	U
11141-16-5-----	Aroclor-1232	170	U
53469-21-9-----	Aroclor-1242	120	U
12672-29-6-----	Aroclor-1248	120	U
11097-69-1-----	Aroclor-1254	120	U
11096-82-5-----	Aroclor-1260	170	U
53494-70-5-----	Endrin Ketone	49	P
5103-74-2-----	gamma-Chlordane	2.7	P
5103-71-9-----	alpha-Chlordane	4.5	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB3B

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-1

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

LABORATORY ANALYSIS DATA SHEETS

BORING 6SB4

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB4A

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTYCase No.: Q1701

SAS No.: _____

SDG No.: R1701Matrix (soil/water): WATERLab Sample ID: R1701-3Level (low/med): LOWDate Received: 11/15/00% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	336	B		P
7440-43-9	Cadmium	0.86	B	N	P
7440-47-3	Chromium	5.6	B	N	P
7439-92-1	Lead	180	B	NE	P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	11.1	B		P
7440-22-4	Silver	1.9	B	N	P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB4B

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-3Level (low/med): LOWDate Received: 11/15/00% Solids: 72.7Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	36800			P
7440-36-0	Antimony	0.48	U	N	P
7440-38-2	Arsenic	7.6			P
7440-39-3	Barium	53.1			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.56	B		P
7440-70-2	Calcium	427			P
7440-47-3	Chromium	26.8		N	P
7440-48-4	Cobalt	15.5			P
7440-50-8	Copper	34.6			P
7439-89-6	Iron	38100			P
7439-92-1	Lead	31.4			P
7439-95-4	Magnesium	7560			P
7439-96-5	Manganese	659		N*	P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	23.1			P
7440-09-7	Potassium	3550		E	P
7782-49-2	Selenium	0.96			P
7440-22-4	Silver	0.89			P
7440-23-5	Sodium	36.2	U		P
7440-28-0	Thallium	0.67	U		P
7440-62-2	Vanadium	75.6		N	P
7440-66-6	Zinc	75.6			P

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB4A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-3

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-3A59

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: not dec. _____

Date Analyzed: 11/20/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-01-4-----	Vinyl Chloride	25	U	
75-35-4-----	1,1-Dichloroethene	25	U	
78-93-3-----	2-butanone	63	U	
67-66-3-----	Chloroform	25	U	
56-23-5-----	Carbon Tetrachloride	25	U	
71-43-2-----	Benzene	25	U	
107-06-2-----	1,2-Dichloroethane	25	U	
79-01-6-----	Trichloroethene	25	U	
127-18-4-----	Tetrachloroethene	25	U	
108-90-7-----	Chlorobenzene	25	U	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB4B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-3

Sample wt/vol: 6.0 (g/mL) G

Lab File ID: Q1701-3RB56

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: not dec. 27

Date Analyzed: 11/28/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	11	U
75-01-4-----	Vinyl Chloride	11	U
74-83-9-----	Bromomethane	11	U
75-00-3-----	Chloroethane	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-15-0-----	Carbon disulfide	11	U
67-64-1-----	Acetone	50	
75-09-2-----	Methylene Chloride	21	B
75-34-3-----	1,1-Dichloroethane	11	U
78-93-3-----	2-butanone	5	J
67-66-3-----	Chloroform	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
71-43-2-----	Benzene	11	U
107-06-2-----	1,2-Dichloroethane	11	U
79-01-6-----	Trichloroethene	11	U
78-87-5-----	1,2-Dichloropropane	11	U
75-27-4-----	Bromodichloromethane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
108-10-1-----	4-Methyl-2-pentanone	11	U
108-88-3-----	Toluene	3	J
10061-02-6-----	trans-1,3-Dichloropropene	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
127-18-4-----	Tetrachloroethene	11	U
591-78-6-----	2-hexanone	11	U
124-48-1-----	Dibromochloromethane	11	U
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
75-25-2-----	Bromoform	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
1330-20-7-----	Xylene (total)	11	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB4A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-3

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-3A64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB4B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-3

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: Q1701-3B64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	450	U
111-44-4-----	Bis(2-chloroethyl) ether	450	U
95-57-8-----	2-Chlorophenol	450	U
541-73-1-----	1,3-Dichlorobenzene	450	U
106-46-7-----	1,4-Dichlorobenzene	450	U
95-50-1-----	1,2-Dichlorobenzene	450	U
95-48-7-----	2-Methylphenol	450	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----	4-Methylphenol	450	U
621-64-7-----	N-Nitroso-di-N-propylamine	450	U
67-72-1-----	Hexachloroethane	450	U
98-95-3-----	Nitrobenzene	450	U
78-59-1-----	Isophorone	450	U
88-75-5-----	2-Nitrophenol	450	U
105-67-9-----	2,4-Dimethylphenol	450	U
111-91-1-----	Bis(2-chloroethoxy) methane	450	U
120-83-2-----	2,4-Dichlorophenol	450	U
120-82-1-----	1,2,4-Trichlorobenzene	450	U
91-20-3-----	Naphthalene	450	U
106-47-8-----	4-Chloroaniline	450	U
87-68-3-----	Hexachlorobutadiene	450	U
59-50-7-----	4-Chloro-3-methylphenol	450	U
91-57-6-----	2-Methylnaphthalene	450	U
77-47-4-----	Hexachlorocyclopentadiene	450	U
88-06-2-----	2,4,6-Trichlorophenol	450	U
95-95-4-----	2,4,5-Trichlorophenol	450	U
91-58-7-----	2-Chloronaphthalene	450	U
88-74-4-----	2-Nitroaniline	900	U
131-11-3-----	Dimethylphthalate	450	U
606-20-2-----	2,6-Dinitrotoluene	450	U
208-96-8-----	Acenaphthylene	450	U
99-09-2-----	3-Nitroaniline	900	U
83-32-9-----	Acenaphthene	450	U

FORM I SV

827

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB4B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-3

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: Q1701-3B64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	2300	U
100-02-7-----	4-Nitrophenol	900	U
121-14-2-----	2,4-Dinitrotoluene	450	U
132-64-9-----	Dibenzofuran	450	U
84-66-2-----	Diethylphthalate	450	U
7005-72-3-----	4-Chlorophenyl-phenylether	450	U
86-73-7-----	Fluorene	450	U
100-01-6-----	4-Nitroaniline	900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	450	U
101-55-3-----	4-Bromophenyl-phenylether	450	U
118-74-1-----	Hexachlorobenzene	450	U
87-86-5-----	Pentachlorophenol	900	U
85-01-8-----	Phenanthrene	450	U
120-12-7-----	Anthracene	450	U
86-74-8-----	Carbazole	450	U
84-74-2-----	Di-n-butylphthalate	450	U
206-44-0-----	Fluoranthene	450	U
129-00-0-----	Pyrene	450	U
85-68-7-----	Butylbenzylphthalate	450	U
91-94-1-----	3,3'-Dichlorobenzidine	900	U
117-81-7-----	bis(2-ethylhexyl)Phthalate	450	U
56-55-3-----	Benzo(a)anthracene	450	U
218-01-9-----	Chrysene	450	U
117-84-0-----	Di-n-octylphthalate	450	U
205-99-2-----	Benzo(b)fluoranthene	450	U
207-08-9-----	Benzo(k)fluoranthene	450	U
50-32-8-----	Benzo(a)pyrene	450	U
193-39-5-----	Indeno(1,2,3-c,d)pyrene	450	U
53-70-3-----	Dibenzo(a,h)anthracene	450	U
191-24-2-----	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

FORM I SV

8270C

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB4A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-3

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	2.5	U
72-20-8-----	Endrin	1.0	U
76-44-8-----	Heptachlor	0.25	U
1024-57-3-----	Heptachlor Epoxide	0.25	U
72-43-5-----	Methoxychlor	2.5	U
8001-35-2-----	Toxaphene	25	U
12789-03-6-----	Technical Chlordane	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 168

6SB4A

ab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-3

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----	2,4-D	0.47	JBP
93-72-1-----	silvex	0.54	JBP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB4B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-3

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 27 decanted: (Y/N) N

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/28/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

309-00-2-----	Aldrin	2.3	U
319-84-6-----	alpha-BHC	2.3	U
319-85-7-----	beta-BHC	4.6	U
319-86-8-----	delta-BHC	2.3	U
58-89-9-----	gamma-BHC (Lindane)	2.3	U
72-54-8-----	4,4'-DDD	9.0	U
72-55-9-----	4,4'-DDE	4.6	U
50-29-3-----	4,4'-DDT	14	U
60-57-1-----	Dieldrin	4.6	U
959-98-8-----	Endosulfan I	4.6	U
33213-65-9-----	Endosulfan II	9.0	U
1031-07-8-----	Endosulfan sulfate	9.0	U
72-20-8-----	Endrin	9.0	U
7421-93-4-----	Endrin Aldehyde	9.0	U
76-44-8-----	Heptachlor	2.3	U
1024-57-3-----	Heptachlor Epoxide	2.3	U
72-43-5-----	Methoxychlor	23	U
8001-35-2-----	Toxaphene	230	U
12674-11-2-----	Aroclor-1016	180	U
11104-28-2-----	Aroclor-1221	230	U
11141-16-5-----	Aroclor-1232	180	U
53469-21-9-----	Aroclor-1242	120	U
12672-29-6-----	Aroclor-1248	120	U
11097-69-1-----	Aroclor-1254	120	U
11096-82-5-----	Aroclor-1260	180	U
53494-70-5-----	Endrin Ketone	23	U
5103-74-2-----	gamma-Chlordane	2.3	U
5103-71-9-----	alpha-Chlordane	4.6	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB4B

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-3

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

LABORATORY ANALYSIS DATA SHEETS

BORING 6SB5

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB5A

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTYCase No.: Q1701

SAS No.: _____

SDG No.: R1701Matrix (soil/water): WATERLab Sample ID: R1701-4Level (low/med): LOWDate Received: 11/16/00% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	385	B		P
7440-43-9	Cadmium	0.60	B	N	P
7440-47-3	Chromium	3.4	B	N	P
7439-92-1	Lead	55.5	B	NE	P
7439-97-6	Mercury	0.10	B		CV
7782-49-2	Selenium	10.4	B		P
7440-22-4	Silver	0.40	U	N	P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB5B

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-4Level (low/med): LOWDate Received: 11/16/00% Solids: 80.6Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23600			P
7440-36-0	Antimony	0.43	U	N	P
7440-38-2	Arsenic	4.3			P
7440-39-3	Barium	46.9			P
7440-41-7	Beryllium	0.98			P
7440-43-9	Cadmium	0.38	B		P
7440-70-2	Calcium	10400			P
7440-47-3	Chromium	24.4		N	P
7440-48-4	Cobalt	9.7			P
7440-50-8	Copper	20.8			P
7439-89-6	Iron	26800			P
7439-92-1	Lead	10.3			P
7439-95-4	Magnesium	12300			P
7439-96-5	Manganese	356		N*	P
7439-97-6	Mercury	0.063			CV
7440-02-0	Nickel	16.1			P
7440-09-7	Potassium	2140		E	P
7782-49-2	Selenium	0.87			P
7440-22-4	Silver	0.58	B		P
7440-23-5	Sodium	32.6	U		P
7440-28-0	Thallium	0.61	U		P
7440-62-2	Vanadium	46.5		N	P
7440-66-6	Zinc	35.4			P

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

17

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB5A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-4

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-4A59

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. _____

Date Analyzed: 11/20/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB5B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-4

Sample wt/vol: 5.9 (g/mL) G

Lab File ID: Q1701-4B56

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. 19

Date Analyzed: 11/22/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-butanone	4	J
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 28

6SB5A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-4

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-4A64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB5ARE

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-4

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-4RA64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/28/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
110-86-1	Pyridine	50	U	
106-46-7	1,4-Dichlorobenzene	50	U	
95-48-7	2-Methylphenol	50	U	
108-39-4	3-Methylphenol	50	U	
106-44-5	4-Methylphenol	50	U	
67-72-1	Hexachloroethane	50	U	
98-95-3	Nitrobenzene	50	U	
87-68-3	Hexachlorobutadiene	50	U	
88-06-2	2,4,6-Trichlorophenol	50	U	
95-95-4	2,4,5-Trichlorophenol	50	U	
121-14-2	2,4-Dinitrotoluene	50	U	
118-74-1	Hexachlorobenzene	50	U	
87-86-5	Pentachlorophenol	100	U	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 18

6SB5B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-4

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-4B64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	410	U
111-44-4-----	Bis(2-chloroethyl) ether	410	U
95-57-8-----	2-Chlorophenol	410	U
541-73-1-----	1,3-Dichlorobenzene	410	U
106-46-7-----	1,4-Dichlorobenzene	410	U
95-50-1-----	1,2-Dichlorobenzene	410	U
95-48-7-----	2-Methylphenol	410	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5-----	4-Methylphenol	410	U
621-64-7-----	N-Nitroso-di-N-propylamine	410	U
67-72-1-----	Hexachloroethane	410	U
98-95-3-----	Nitrobenzene	410	U
78-59-1-----	Isophorone	410	U
88-75-5-----	2-Nitrophenol	410	U
105-67-9-----	2,4-Dimethylphenol	410	U
111-91-1-----	Bis(2-chloroethoxy) methane	410	U
120-83-2-----	2,4-Dichlorophenol	410	U
120-82-1-----	1,2,4-Trichlorobenzene	410	U
91-20-3-----	Naphthalene	410	U
106-47-8-----	4-Chloroaniline	410	U
87-68-3-----	Hexachlorobutadiene	410	U
59-50-7-----	4-Chloro-3-methylphenol	410	U
91-57-6-----	2-Methylnaphthalene	410	U
77-47-4-----	Hexachlorocyclopentadiene	410	U
88-06-2-----	2,4,6-Trichlorophenol	410	U
95-95-4-----	2,4,5-Trichlorophenol	410	U
91-58-7-----	2-Chloronaphthalene	410	U
88-74-4-----	2-Nitroaniline	810	U
131-11-3-----	Dimethylphthalate	410	U
606-20-2-----	2,6-Dinitrotoluene	410	U
208-96-8-----	Acenaphthylene	410	U
99-09-2-----	3-Nitroaniline	810	U
83-32-9-----	Acenaphthene	410	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB5B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-4

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-4B64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
51-28-5-----	2,4-Dinitrophenol_____	2100 U
100-02-7-----	4-Nitrophenol_____	810 U
121-14-2-----	2,4-Dinitrotoluene_____	410 U
132-64-9-----	Dibenzofuran_____	410 U
84-66-2-----	Diethylphthalate_____	410 U
7005-72-3-----	4-Chlorophenyl-phenylether____	410 U
86-73-7-----	Fluorene_____	410 U
100-01-6-----	4-Nitroaniline_____	810 U
534-52-1-----	4,6-Dinitro-2-methylphenol____	810 U
86-30-6-----	N-Nitrosodiphenylamine (1)____	410 U
101-55-3-----	4-Bromophenyl-phenylether____	410 U
118-74-1-----	Hexachlorobenzene_____	410 U
87-86-5-----	Pentachlorophenol_____	810 U
85-01-8-----	Phenanthrene_____	410 U
120-12-7-----	Anthracene_____	410 U
86-74-8-----	Carbazole_____	410 U
84-74-2-----	Di-n-butylphthalate_____	410 U
206-44-0-----	Fluoranthene_____	410 U
129-00-0-----	Pyrene_____	410 U
85-68-7-----	Butylbenzylphthalate_____	410 U
91-94-1-----	3,3'-Dichlorobenzidine_____	810 U
117-81-7-----	bis(2-ethylhexyl) Phthalate____	410 U
56-55-3-----	Benzo(a)anthracene_____	410 U
218-01-9-----	Chrysene_____	410 U
117-84-0-----	Di-n-octylphthalate_____	410 U
205-99-2-----	Benzo(b)fluoranthene_____	410 U
207-08-9-----	Benzo(k)fluoranthene_____	410 U
50-32-8-----	Benzo(a)pyrene_____	410 U
193-39-5-----	Indeno(1,2,3-c,d)pyrene_____	410 U
53-70-3-----	Dibenzo(a,h)anthracene_____	410 U
191-24-2-----	Benzo(g,h,i)perylene_____	410 U

(1) - Cannot be separated from Diphenylamine
FORM I SV

82

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 87

6SB5A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-4

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	2.5	U
72-20-8-----	Endrin	1.0	U
76-44-8-----	Heptachlor	0.25	U
1024-57-3-----	Heptachlor Epoxide	4.4	EP
72-43-5-----	Methoxychlor	2.5	U
8001-35-2-----	Toxaphene	25	U
12789-03-6-----	Technical Chlordane	25	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB5ADL

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-4

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/29/00

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	12	U
72-20-8-----	Endrin	5.0	U
76-44-8-----	Heptachlor	1.2	U
1024-57-3-----	Heptachlor Epoxide	1.2	U
72-43-5-----	Methoxychlor	12	U
8001-35-2-----	Toxaphene	120	U
12789-03-6-----	Technical Chlordane	120	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB5A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-4

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----2,4-D	1.3	JBP
93-72-1-----silvex	0.80	JBP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB5B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-4

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

309-00-2-----Aldrin	2.0	U
319-84-6-----alpha-BHC	2.0	U
319-85-7-----beta-BHC	4.2	U
319-86-8-----delta-BHC	2.0	U
58-89-9-----gamma-BHC (Lindane)	0.85	JP
72-54-8-----4,4'-DDD	8.1	U
72-55-9-----4,4'-DDE	4.2	U
50-29-3-----4,4'-DDT	12	U
60-57-1-----Dieldrin	4.2	U
959-98-8-----Endosulfan I	4.2	U
33213-65-9-----Endosulfan II	8.1	U
1031-07-8-----Endosulfan sulfate	8.1	U
72-20-8-----Endrin	8.1	U
7421-93-4-----Endrin Aldehyde	8.1	U
76-44-8-----Heptachlor	2.0	U
1024-57-3-----Heptachlor Epoxide	2.0	U
72-43-5-----Methoxychlor	20	U
8001-35-2-----Toxaphene	200	U
12674-11-2-----Aroclor-1016	160	U
11104-28-2-----Aroclor-1221	210	U
11141-16-5-----Aroclor-1232	160	U
53469-21-9-----Aroclor-1242	110	U
12672-29-6-----Aroclor-1248	110	U
11097-69-1-----Aroclor-1254	110	U
11096-82-5-----Aroclor-1260	160	U
53494-70-5-----Endrin Ketone	2.2	JP
5103-74-2-----gamma-Chlordane	2.0	U
5103-71-9-----alpha-Chlordane	4.2	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB5B

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-4

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

189

LABORATORY ANALYSIS DATA SHEETS

BORING 6SB6

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB6A

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTYCase No.: Q1701

SAS No.: _____

SDG No.: R1701Matrix (soil/water): WATERLab Sample ID: R1701-5Level (low/med): LOWDate Received: 11/16/00% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	530	B		P
7440-43-9	Cadmium	0.35	B	N	P
7440-47-3	Chromium	4.0	B	N	P
7439-92-1	Lead	175	B	NE	P
7439-97-6	Mercury	0.11	B		CV
7782-49-2	Selenium	9.3	B		P
7440-22-4	Silver	0.40	U	N	P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB6AFD

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: Q1701

SAS No.: _____

SDG No.: R1701

Matrix (soil/water): WATER

Lab Sample ID: R1701-6

Level (low/med): LOW

Date Received: 11/16/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	471	B		P
7440-43-9	Cadmium	0.39	B	N	P
7440-47-3	Chromium	2.0	B	N	P
7439-92-1	Lead	24.8	B	NE	P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	12.3	B		P
7440-22-4	Silver	0.40	U	N	P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB6B

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-5Level (low/med): LOWDate Received: 11/16/00% Solids: 75.1Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22800			P
7440-36-0	Antimony	0.47	U	N	P
7440-38-2	Arsenic	6.8			P
7440-39-3	Barium	53.2			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.25	B		P
7440-70-2	Calcium	509			P
7440-47-3	Chromium	18.6		N	P
7440-48-4	Cobalt	6.7			P
7440-50-8	Copper	20.3			P
7439-89-6	Iron	26300			P
7439-92-1	Lead	15.2			P
7439-95-4	Magnesium	9090			P
7439-96-5	Manganese	339		N*	P
7439-97-6	Mercury	0.085			CV
7440-02-0	Nickel	15.4			P
7440-09-7	Potassium	3030		E	P
7782-49-2	Selenium	0.53	U		P
7440-22-4	Silver	0.69			P
7440-23-5	Sodium	36.0	U		P
7440-28-0	Thallium	0.67	U		P
7440-62-2	Vanadium	47.4		N	P
7440-66-6	Zinc	56.4			P

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB6BFD

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-6Level (low/med): LOWDate Received: 11/16/00% Solids: 75.0Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26100			P
7440-36-0	Antimony	0.46	U	N	P
7440-38-2	Arsenic	6.4			P
7440-39-3	Barium	62.9			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.29	B		P
7440-70-2	Calcium	536			P
7440-47-3	Chromium	20.0		N	P
7440-48-4	Cobalt	9.8			P
7440-50-8	Copper	22.7			P
7439-89-6	Iron	29400			P
7439-92-1	Lead	19.4			P
7439-95-4	Magnesium	9490			P
7439-96-5	Manganese	574		N*	P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	17.3			P
7440-09-7	Potassium	3130		E	P
7782-49-2	Selenium	0.57	B		P
7440-22-4	Silver	0.88			P
7440-23-5	Sodium	35.1	U		P
7440-28-0	Thallium	0.65	U		P
7440-62-2	Vanadium	53.1		N	P
7440-66-6	Zinc	58.5			P

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB6A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-5

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-5A59

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. _____

Date Analyzed: 11/20/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB6AFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-6

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-6A59

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 87

6SB6B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-5

Sample wt/vol: 6.0 (g/mL) G

Lab File ID: Q1701-5B56

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. 25

Date Analyzed: 11/22/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	11	U
75-01-4-----	Vinyl Chloride	11	U
74-83-9-----	Bromomethane	11	U
75-00-3-----	Chloroethane	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-15-0-----	Carbon disulfide	11	U
67-64-1-----	Acetone	28	
75-09-2-----	Methylene Chloride	11	J
75-34-3-----	1,1-Dichloroethane	11	U
78-93-3-----	2-butanone	11	U
67-66-3-----	Chloroform	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
71-43-2-----	Benzene	11	U
107-06-2-----	1,2-Dichloroethane	11	U
79-01-6-----	Trichloroethene	11	U
78-87-5-----	1,2-Dichloropropane	11	U
75-27-4-----	Bromodichloromethane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
108-10-1-----	4-Methyl-2-pentanone	11	U
108-88-3-----	Toluene	2	J
10061-02-6-----	trans-1,3-Dichloropropene	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
127-18-4-----	Tetrachloroethene	11	U
591-78-6-----	2-hexanone	11	U
124-48-1-----	Dibromochloromethane	11	U
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
75-25-2-----	Bromoform	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
1330-20-7-----	Xylene (total)	11	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB6BFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-6

Sample wt/vol: 5.9 (g/mL) G

Lab File ID: Q1701-6B56

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. 25

Date Analyzed: 11/22/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	11	U
75-01-4-----	Vinyl Chloride	11	U
74-83-9-----	Bromomethane	11	U
75-00-3-----	Chloroethane	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-15-0-----	Carbon disulfide	11	U
67-64-1-----	Acetone	11	U
75-09-2-----	Methylene Chloride	11	U
75-34-3-----	1,1-Dichloroethane	11	U
78-93-3-----	2-butanone	7	J
67-66-3-----	Chloroform	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
71-43-2-----	Benzene	11	U
107-06-2-----	1,2-Dichloroethane	11	U
79-01-6-----	Trichloroethene	11	U
78-87-5-----	1,2-Dichloropropane	11	U
75-27-4-----	Bromodichloromethane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
108-10-1-----	4-Methyl-2-pentanone	11	U
108-88-3-----	Toluene	5	J
10061-02-6-----	trans-1,3-Dichloropropene	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
127-18-4-----	Tetrachloroethene	11	U
591-78-6-----	2-hexanone	11	U
124-48-1-----	Dibromochloromethane	11	U
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
75-25-2-----	Bromoform	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
1330-20-7-----	Xylene (total)	11	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB6A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-5

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-5A64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB6ARE

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-5

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-5RA64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/28/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
110-86-1-----	Pyridine	50	U	
106-46-7-----	1,4-Dichlorobenzene	50	U	
95-48-7-----	2-Methylphenol	50	U	
108-39-4-----	3-Methylphenol	50	U	
106-44-5-----	4-Methylphenol	50	U	
67-72-1-----	Hexachloroethane	50	U	
98-95-3-----	Nitrobenzene	50	U	
87-68-3-----	Hexachlorobutadiene	50	U	
88-06-2-----	2,4,6-Trichlorophenol	50	U	
95-95-4-----	2,4,5-Trichlorophenol	50	U	
121-14-2-----	2,4-Dinitrotoluene	50	U	
118-74-1-----	Hexachlorobenzene	50	U	
87-86-5-----	Pentachlorophenol	100	U	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB6AFD

Lab Name: COMPUCEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-6

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-6A64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
110-86-1-----	Pyridine	50	U	
106-46-7-----	1,4-Dichlorobenzene	50	U	
95-48-7-----	2-Methylphenol	50	U	
108-39-4-----	3-Methylphenol	50	U	
106-44-5-----	4-Methylphenol	50	U	
67-72-1-----	Hexachloroethane	50	U	
98-95-3-----	Nitrobenzene	50	U	
87-68-3-----	Hexachlorobutadiene	50	U	
88-06-2-----	2,4,6-Trichlorophenol	50	U	
95-95-4-----	2,4,5-Trichlorophenol	50	U	
121-14-2-----	2,4-Dinitrotoluene	50	U	
118-74-1-----	Hexachlorobenzene	50	U	
87-86-5-----	Pentachlorophenol	100	U	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB6AFDRE

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-6

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-6RA64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/28/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB6B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-5

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: Q1701-5B64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	440	U
111-44-4-----	Bis (2-chloroethyl) ether	440	U
95-57-8-----	2-Chlorophenol	440	U
541-73-1-----	1,3-Dichlorobenzene	440	U
106-46-7-----	1,4-Dichlorobenzene	440	U
95-50-1-----	1,2-Dichlorobenzene	440	U
95-48-7-----	2-Methylphenol	440	U
108-60-1-----	2,2'-oxybis (1-Chloropropane)	440	U
106-44-5-----	4-Methylphenol	440	U
621-64-7-----	N-Nitroso-di-N-propylamine	440	U
67-72-1-----	Hexachloroethane	440	U
98-95-3-----	Nitrobenzene	440	U
78-59-1-----	Isophorone	440	U
88-75-5-----	2-Nitrophenol	440	U
105-67-9-----	2,4-Dimethylphenol	440	U
111-91-1-----	Bis (2-chloroethoxy) methane	440	U
120-83-2-----	2,4-Dichlorophenol	440	U
120-82-1-----	1,2,4-Trichlorobenzene	440	U
91-20-3-----	Naphthalene	440	U
106-47-8-----	4-Chloroaniline	440	U
87-68-3-----	Hexachlorobutadiene	440	U
59-50-7-----	4-Chloro-3-methylphenol	440	U
91-57-6-----	2-Methylnaphthalene	440	U
77-47-4-----	Hexachlorocyclopentadiene	440	U
88-06-2-----	2,4,6-Trichlorophenol	440	U
95-95-4-----	2,4,5-Trichlorophenol	440	U
91-58-7-----	2-Chloronaphthalene	440	U
88-74-4-----	2-Nitroaniline	870	U
131-11-3-----	Dimethylphthalate	440	U
606-20-2-----	2,6-Dinitrotoluene	440	U
208-96-8-----	Acenaphthylene	440	U
99-09-2-----	3-Nitroaniline	870	U
83-32-9-----	Acenaphthene	440	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE N°

6SB6B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-5

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: Q1701-5B64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2300	U
100-02-7-----	4-Nitrophenol	870	U
121-14-2-----	2,4-Dinitrotoluene	440	U
132-64-9-----	Dibenzofuran	440	U
84-66-2-----	Diethylphthalate	440	U
7005-72-3-----	4-Chlorophenyl-phenylether	440	U
86-73-7-----	Fluorene	440	U
100-01-6-----	4-Nitroaniline	870	U
534-52-1-----	4,6-Dinitro-2-methylphenol	870	U
86-30-6-----	N-Nitrosodiphenylamine (1)	440	U
101-55-3-----	4-Bromophenyl-phenylether	440	U
118-74-1-----	Hexachlorobenzene	440	U
87-86-5-----	Pentachlorophenol	870	U
85-01-8-----	Phenanthrene	440	U
120-12-7-----	Anthracene	440	U
86-74-8-----	Carbazole	440	U
84-74-2-----	Di-n-butylphthalate	440	U
206-44-0-----	Fluoranthene	440	U
129-00-0-----	Pyrene	440	U
85-68-7-----	Butylbenzylphthalate	440	U
91-94-1-----	3,3'-Dichlorobenzidine	870	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	440	U
56-55-3-----	Benzo(a) anthracene	440	U
218-01-9-----	Chrysene	440	U
117-84-0-----	Di-n-octylphthalate	440	U
205-99-2-----	Benzo(b) fluoranthene	440	U
207-08-9-----	Benzo(k) fluoranthene	440	U
50-32-8-----	Benzo(a) pyrene	440	U
193-39-5-----	Indeno(1,2,3-c,d)pyrene	440	U
53-70-3-----	Dibenzo(a,h) anthracene	440	U
191-24-2-----	Benzo(g,h,i) perylene	440	U

(1) - Cannot be separated from Diphenylamine
FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 205

6SB6BFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-6

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: Q1701-6B64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	440	U
111-44-4-----	Bis(2-chloroethyl) ether	440	U
95-57-8-----	2-Chlorophenol	440	U
541-73-1-----	1,3-Dichlorobenzene	440	U
106-46-7-----	1,4-Dichlorobenzene	440	U
95-50-1-----	1,2-Dichlorobenzene	440	U
95-48-7-----	2-Methylphenol	440	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5-----	4-Methylphenol	440	U
621-64-7-----	N-Nitroso-di-N-propylamine	440	U
67-72-1-----	Hexachloroethane	440	U
98-95-3-----	Nitrobenzene	440	U
78-59-1-----	Isophorone	440	U
88-75-5-----	2-Nitrophenol	440	U
105-67-9-----	2,4-Dimethylphenol	440	U
111-91-1-----	Bis(2-chloroethoxy) methane	440	U
120-83-2-----	2,4-Dichlorophenol	440	U
120-82-1-----	1,2,4-Trichlorobenzene	440	U
91-20-3-----	Naphthalene	440	U
106-47-8-----	4-Chloroaniline	440	U
87-68-3-----	Hexachlorobutadiene	440	U
59-50-7-----	4-Chloro-3-methylphenol	440	U
91-57-6-----	2-Methylnaphthalene	440	U
77-47-4-----	Hexachlorocyclopentadiene	440	U
88-06-2-----	2,4,6-Trichlorophenol	440	U
95-95-4-----	2,4,5-Trichlorophenol	440	U
91-58-7-----	2-Chloronaphthalene	440	U
88-74-4-----	2-Nitroaniline	870	U
131-11-3-----	Dimethylphthalate	440	U
606-20-2-----	2,6-Dinitrotoluene	440	U
208-96-8-----	Acenaphthylene	440	U
99-09-2-----	3-Nitroaniline	870	U
83-32-9-----	Acenaphthene	440	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB6BFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-6

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: Q1701-6B64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2200	U
100-02-7-----	4-Nitrophenol	870	U
121-14-2-----	2,4-Dinitrotoluene	440	U
132-64-9-----	Dibenzofuran	440	U
84-66-2-----	Diethylphthalate	440	U
7005-72-3-----	4-Chlorophenyl-phenylether	440	U
86-73-7-----	Fluorene	440	U
100-01-6-----	4-Nitroaniline	870	U
534-52-1-----	4,6-Dinitro-2-methylphenol	870	U
86-30-6-----	N-Nitrosodiphenylamine (1)	440	U
101-55-3-----	4-Bromophenyl-phenylether	440	U
118-74-1-----	Hexachlorobenzene	440	U
87-86-5-----	Pentachlorophenol	870	U
85-01-8-----	Phenanthrene	440	U
120-12-7-----	Anthracene	440	U
86-74-8-----	Carbazole	440	U
84-74-2-----	Di-n-butylphthalate	440	U
206-44-0-----	Fluoranthene	440	U
129-00-0-----	Pyrene	440	U
85-68-7-----	Butylbenzylphthalate	440	U
91-94-1-----	3,3'-Dichlorobenzidine	870	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	440	U
56-55-3-----	Benzo(a)anthracene	440	U
218-01-9-----	Chrysene	440	U
117-84-0-----	Di-n-octylphthalate	440	U
205-99-2-----	Benzo(b)fluoranthene	440	U
207-08-9-----	Benzo(k)fluoranthene	440	U
50-32-8-----	Benzo(a)pyrene	440	U
193-39-5-----	Indeno(1,2,3-c,d)pyrene	440	U
53-70-3-----	Dibenzo(a,h)anthracene	440	U
191-24-2-----	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

FORM I SV

8272

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 7

6SB6A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-5

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	2.5	U
72-20-8-----	Endrin	1.0	U
76-44-8-----	Heptachlor	0.25	U
1024-57-3-----	Heptachlor Epoxide	0.25	U
72-43-5-----	Methoxychlor	2.5	U
8001-35-2-----	Toxaphene	25	U
12789-03-6-----	Technical Chlordane	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB6AFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-6

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9-----	gamma-BHC (Lindane) _____	2.5	U
72-20-8-----	Endrin _____	1.0	U
76-44-8-----	Heptachlor _____	0.25	U
1024-57-3-----	Heptachlor Epoxide _____	0.25	U
72-43-5-----	Methoxychlor _____	2.5	U
8001-35-2-----	Toxaphene _____	25	U
12789-03-6-----	Technical Chlordane _____	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB6A

ab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-5

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

94-75-7-----2,4-D	1.5	JB
93-72-1-----silvex	1.0	JBP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB6B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-5

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

309-00-2-----Aldrin	2.2	U
319-84-6-----alpha-BHC	2.2	U
319-85-7-----beta-BHC	4.5	U
319-86-8-----delta-BHC	2.2	U
58-89-9-----gamma-BHC (Lindane)	2.2	U
72-54-8-----4,4'-DDD	8.8	U
72-55-9-----4,4'-DDE	4.5	U
50-29-3-----4,4'-DDT	13	U
60-57-1-----Dieldrin	4.5	U
959-98-8-----Endosulfan I	4.5	U
33213-65-9-----Endosulfan II	8.8	U
1031-07-8-----Endosulfan sulfate	8.8	U
72-20-8-----Endrin	8.8	U
7421-93-4-----Endrin Aldehyde	8.8	U
76-44-8-----Heptachlor	2.2	U
1024-57-3-----Heptachlor Epoxide	2.4	B
72-43-5-----Methoxychlor	22	U
8001-35-2-----Toxaphene	220	U
12674-11-2-----Aroclor-1016	170	U
11104-28-2-----Aroclor-1221	230	U
11141-16-5-----Aroclor-1232	170	U
53469-21-9-----Aroclor-1242	120	U
12672-29-6-----Aroclor-1248	120	U
11097-69-1-----Aroclor-1254	120	U
11096-82-5-----Aroclor-1260	170	U
53494-70-5-----Endrin Ketone	22	U
5103-74-2-----gamma-Chlordane	2.2	U
5103-71-9-----alpha-Chlordane	0.74	JP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB6BFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-6

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

309-00-2-----Aldrin	2.2	U
319-84-6-----alpha-BHC	2.2	U
319-85-7-----beta-BHC	4.5	U
319-86-8-----delta-BHC	2.2	U
58-89-9-----gamma-BHC (Lindane)	2.2	U
72-54-8-----4,4'-DDD	8.8	U
72-55-9-----4,4'-DDE	4.5	U
50-29-3-----4,4'-DDT	13	U
60-57-1-----Dieldrin	4.5	U
959-98-8-----Endosulfan I	4.5	U
33213-65-9-----Endosulfan II	8.8	U
1031-07-8-----Endosulfan sulfate	8.8	U
72-20-8-----Endrin	8.8	U
7421-93-4-----Endrin Aldehyde	8.8	U
76-44-8-----Heptachlor	2.2	U
1024-57-3-----Heptachlor Epoxide	4.2	PB
72-43-5-----Methoxychlor	22	U
8001-35-2-----Toxaphene	220	U
12674-11-2-----Aroclor-1016	170	U
11104-28-2-----Aroclor-1221	230	U
11141-16-5-----Aroclor-1232	170	U
53469-21-9-----Aroclor-1242	120	U
12672-29-6-----Aroclor-1248	120	U
11097-69-1-----Aroclor-1254	120	U
11096-82-5-----Aroclor-1260	170	U
53494-70-5-----Endrin Ketone	22	U
5103-74-2-----gamma-Chlordane	2.2	U
5103-71-9-----alpha-Chlordane	4.5	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB6AFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-6

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----2,4-D	0.74	JBP
93-72-1-----silvex	0.87	JBP

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB6B

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-5

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000(ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB6BFD

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-6

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

24

LABORATORY ANALYSIS DATA SHEETS

BORING 6SB7

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7A

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTYCase No.: Q1701

SAS No.: _____

SDG No.: R1701Matrix (soil/water): WATERLab Sample ID: R1701-2Level (low/med): LOWDate Received: 11/15/00% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	463	B		P
7440-43-9	Cadmium	1.5	B	N	P
7440-47-3	Chromium	7.1	B	N	P
7439-92-1	Lead	2040	B	NE	P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	14.2	B		P
7440-22-4	Silver	3.1	B	N	P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

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SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7B

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-2Level (low/med): LOWDate Received: 11/15/00% Solids: 77.5Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21100			P
7440-36-0	Antimony	0.46	U	N	P
7440-38-2	Arsenic	5.6			P
7440-39-3	Barium	39.6			P
7440-41-7	Beryllium	0.91			P
7440-43-9	Cadmium	0.28	B		P
7440-70-2	Calcium	590			P
7440-47-3	Chromium	25.2		N	P
7440-48-4	Cobalt	6.5			P
7440-50-8	Copper	18.4			P
7439-89-6	Iron	31900			P
7439-92-1	Lead	17.1			P
7439-95-4	Magnesium	3760			P
7439-96-5	Manganese	181		N*	P
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	15.2			P
7440-09-7	Potassium	1610		E	P
7782-49-2	Selenium	0.58	B		P
7440-22-4	Silver	0.89			P
7440-23-5	Sodium	35.3	U		P
7440-28-0	Thallium	0.66	U		P
7440-62-2	Vanadium	55.4		N	P
7440-66-6	Zinc	54.3			P

Color Before: BROWN

Clarity Before: _____

Texture: MEDIUMColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB7A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-2

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-2A59

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: not dec. _____

Date Analyzed: 11/20/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB7B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-2

Sample wt/vol: 5.9 (g/mL) G

Lab File ID: Q1701-2RB56

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: not dec. 23

Date Analyzed: 11/28/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	11	U
75-01-4-----	Vinyl Chloride	11	U
74-83-9-----	Bromomethane	11	U
75-00-3-----	Chloroethane	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-15-0-----	Carbon disulfide	11	U
67-64-1-----	Acetone	23	
75-09-2-----	Methylene Chloride	13	B
75-34-3-----	1,1-Dichloroethane	11	U
78-93-3-----	2-butanone	3	J
67-66-3-----	Chloroform	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
71-43-2-----	Benzene	11	U
107-06-2-----	1,2-Dichloroethane	11	U
79-01-6-----	Trichloroethene	11	U
78-87-5-----	1,2-Dichloropropane	11	U
75-27-4-----	Bromodichloromethane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
108-10-1-----	4-Methyl-2-pentanone	11	U
108-88-3-----	Toluene	2	J
10061-02-6-----	trans-1,3-Dichloropropene	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
127-18-4-----	Tetrachloroethene	11	U
591-78-6-----	2-hexanone	11	U
124-48-1-----	Dibromochloromethane	11	U
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
75-25-2-----	Bromoform	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
1330-20-7-----	Xylene (total)	11	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB7A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-2

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-2A64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB7B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-2

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: Q1701-2B64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
108-95-2-----	Phenol	430 U
111-44-4-----	Bis(2-chloroethyl) ether	430 U
95-57-8-----	2-Chlorophenol	430 U
541-73-1-----	1,3-Dichlorobenzene	430 U
106-46-7-----	1,4-Dichlorobenzene	430 U
95-50-1-----	1,2-Dichlorobenzene	430 U
95-48-7-----	2-Methylphenol	430 U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	430 U
106-44-5-----	4-Methylphenol	430 U
621-64-7-----	N-Nitroso-di-N-propylamine	430 U
67-72-1-----	Hexachloroethane	430 U
98-95-3-----	Nitrobenzene	430 U
78-59-1-----	Isophorone	430 U
88-75-5-----	2-Nitrophenol	430 U
105-67-9-----	2,4-Dimethylphenol	430 U
111-91-1-----	Bis(2-chloroethoxy) methane	430 U
120-83-2-----	2,4-Dichlorophenol	430 U
120-82-1-----	1,2,4-Trichlorobenzene	430 U
91-20-3-----	Naphthalene	430 U
106-47-8-----	4-Chloroaniline	430 U
87-68-3-----	Hexachlorobutadiene	430 U
59-50-7-----	4-Chloro-3-methylphenol	430 U
91-57-6-----	2-Methylnaphthalene	430 U
77-47-4-----	Hexachlorocyclopentadiene	430 U
88-06-2-----	2,4,6-Trichlorophenol	430 U
95-95-4-----	2,4,5-Trichlorophenol	430 U
91-58-7-----	2-Chloronaphthalene	430 U
88-74-4-----	2-Nitroaniline	850 U
131-11-3-----	Dimethylphthalate	430 U
606-20-2-----	2,6-Dinitrotoluene	430 U
208-96-8-----	Acenaphthylene	430 U
99-09-2-----	3-Nitroaniline	850 U
83-32-9-----	Acenaphthene	430 U

FORM I SV

82

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 37

6SB7B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-2

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: Q1701-2B64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	2200	U
100-02-7-----	4-Nitrophenol	850	U
121-14-2-----	2,4-Dinitrotoluene	430	U
132-64-9-----	Dibenzofuran	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	430	U
100-01-6-----	4-Nitroaniline	850	U
534-52-1-----	4,6-Dinitro-2-methylphenol	850	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	850	U
85-01-8-----	Phenanthrene	430	U
120-12-7-----	Anthracene	430	U
86-74-8-----	Carbazole	430	U
84-74-2-----	Di-n-butylphthalate	430	U
206-44-0-----	Fluoranthene	430	U
129-00-0-----	Pyrene	430	U
85-68-7-----	Butylbenzylphthalate	430	U
91-94-1-----	3,3'-Dichlorobenzidine	850	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	430	U
56-55-3-----	Benzo(a)anthracene	430	U
218-01-9-----	Chrysene	430	U
117-84-0-----	Di-n-octylphthalate	430	U
205-99-2-----	Benzo(b)fluoranthene	430	U
207-08-9-----	Benzo(k)fluoranthene	430	U
50-32-8-----	Benzo(a)pyrene	430	U
193-39-5-----	Indeno(1,2,3-c,d)pyrene	430	U
53-70-3-----	Dibenzo(a,h)anthracene	430	U
191-24-2-----	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine
FORM I SV

8270C

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-2

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	2.5	U
72-20-8-----	Endrin	1.0	U
76-44-8-----	Heptachlor	0.25	U
1024-57-3-----	Heptachlor Epoxide	7.7	EP
72-43-5-----	Methoxychlor	2.5	U
8001-35-2-----	Toxaphene	25	U
12789-03-6-----	Technical Chlordane	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7ADL

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-2

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/29/00

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----gamma-BHC (Lindane) _____	12	U
72-20-8-----Endrin _____	5.0	U
76-44-8-----Heptachlor _____	1.2	U
1024-57-3-----Heptachlor Epoxide _____	1.2	U
72-43-5-----Methoxychlor _____	12	U
8001-35-2-----Toxaphene _____	120	U
12789-03-6-----Technical Chlordane _____	120	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-2

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----	2,4-D	0.89	JBP
93-72-1-----	silvex	1.4	JBP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-2

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/28/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

309-00-2-----Aldrin	2.2	U
319-84-6-----alpha-BHC	2.2	U
319-85-7-----beta-BHC	4.4	U
319-86-8-----delta-BHC	2.2	U
58-89-9-----gamma-BHC (Lindane)	2.2	U
72-54-8-----4,4'-DDD	8.6	U
72-55-9-----4,4'-DDE	4.4	U
50-29-3-----4,4'-DDT	13	U
60-57-1-----Dieldrin	4.4	U
959-98-8-----Endosulfan I	4.4	U
33213-65-9-----Endosulfan II	8.6	U
1031-07-8-----Endosulfan sulfate	8.6	U
72-20-8-----Endrin	8.6	U
7421-93-4-----Endrin Aldehyde	8.6	U
76-44-8-----Heptachlor	2.2	U
1024-57-3-----Heptachlor Epoxide	2.2	U
72-43-5-----Methoxychlor	22	U
8001-35-2-----Toxaphene	220	U
12674-11-2-----Aroclor-1016	170	U
11104-28-2-----Aroclor-1221	220	U
11141-16-5-----Aroclor-1232	170	U
53469-21-9-----Aroclor-1242	120	U
12672-29-6-----Aroclor-1248	120	U
11097-69-1-----Aroclor-1254	37	J
11096-82-5-----Aroclor-1260	170	U
53494-70-5-----Endrin Ketone	22	U
5103-74-2-----gamma-Chlordane	2.5	P
5103-71-9-----alpha-Chlordane	4.4	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7BMS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG7065-4

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/28/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

309-00-2-----Aldrin	6.2	
319-84-6-----alpha-BHC	2.2	U
319-85-7-----beta-BHC	4.4	U
319-86-8-----delta-BHC	2.2	U
58-89-9-----gamma-BHC (Lindane)	4.4	
72-54-8-----4,4'-DDD	8.6	U
72-55-9-----4,4'-DDE	1.4	JP
50-29-3-----4,4'-DDT	17	
60-57-1-----Dieldrin	18	
959-98-8-----Endosulfan I	4.4	U
33213-65-9-----Endosulfan II	8.6	U
1031-07-8-----Endosulfan sulfate	8.6	U
72-20-8-----Endrin	14	
7421-93-4-----Endrin Aldehyde	8.6	U
76-44-8-----Heptachlor	6.4	
1024-57-3-----Heptachlor Epoxide	2.2	U
72-43-5-----Methoxychlor	8.5	JP
8001-35-2-----Toxaphene	220	U
12674-11-2-----Aroclor-1016	170	U
11104-28-2-----Aroclor-1221	220	U
11141-16-5-----Aroclor-1232	170	U
53469-21-9-----Aroclor-1242	120	U
12672-29-6-----Aroclor-1248	120	U
11097-69-1-----Aroclor-1254	120	U
11096-82-5-----Aroclor-1260	170	U
53494-70-5-----Endrin Ketone	2.9	J
5103-74-2-----gamma-Chlordane	2.2	U
5103-71-9-----alpha-Chlordane	4.4	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7BMSD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG7065-5

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/28/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

309-00-2-----	Aldrin	6.8	
319-84-6-----	alpha-BHC	2.2	U
319-85-7-----	beta-BHC	4.4	U
319-86-8-----	delta-BHC	2.2	U
58-89-9-----	gamma-BHC (Lindane)	5.2	
72-54-8-----	4,4'-DDD	1.8	J
72-55-9-----	4,4'-DDE	4.4	U
50-29-3-----	4,4'-DDT	19	
60-57-1-----	Dieldrin	20	
959-98-8-----	Endosulfan I	4.4	U
33213-65-9-----	Endosulfan II	8.6	U
1031-07-8-----	Endosulfan sulfate	8.6	U
72-20-8-----	Endrin	16	
7421-93-4-----	Endrin Aldehyde	8.6	U
76-44-8-----	Heptachlor	6.6	
1024-57-3-----	Heptachlor Epoxide	2.2	U
72-43-5-----	Methoxychlor	22	U
8001-35-2-----	Toxaphene	220	U
12674-11-2-----	Aroclor-1016	170	U
11104-28-2-----	Aroclor-1221	220	U
11141-16-5-----	Aroclor-1232	170	U
53469-21-9-----	Aroclor-1242	120	U
12672-29-6-----	Aroclor-1248	120	U
11097-69-1-----	Aroclor-1254	120	U
11096-82-5-----	Aroclor-1260	170	U
53494-70-5-----	Endrin Ketone	3.3	J
5103-74-2-----	gamma-Chlordane	2.2	U
5103-71-9-----	alpha-Chlordane	4.4	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7B

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-2

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB7AMS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7028-6

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG7028-6A59

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	480	
75-35-4-----	1,1-Dichloroethene	650	
78-93-3-----	2-butanone	460	
67-66-3-----	Chloroform	540	
56-23-5-----	Carbon Tetrachloride	510	
71-43-2-----	Benzene	520	
107-06-2-----	1,2-Dichloroethane	540	
79-01-6-----	Trichloroethene	510	
127-18-4-----	Tetrachloroethene	440	
108-90-7-----	Chlorobenzene	510	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB7AMSD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7028-7

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG7028-7A59

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	490	
75-35-4-----	1,1-Dichloroethene	640	
78-93-3-----	2-butanone	470	
67-66-3-----	Chloroform	550	
56-23-5-----	Carbon Tetrachloride	520	
71-43-2-----	Benzene	520	
107-06-2-----	1,2-Dichloroethane	520	
79-01-6-----	Trichloroethene	510	
127-18-4-----	Tetrachloroethene	450	
108-90-7-----	Chlorobenzene	520	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 21

6SB7BMS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG6971-6

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: WG6971-6B56

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: not dec. 23

Date Analyzed: 11/28/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	12	U
75-01-4-----	Vinyl Chloride	12	U
74-83-9-----	Bromomethane	12	U
75-00-3-----	Chloroethane	12	U
75-35-4-----	1,1-Dichloroethene	56	
75-15-0-----	Carbon disulfide	1	J
67-64-1-----	Acetone	31	
75-09-2-----	Methylene Chloride	15	B
75-34-3-----	1,1-Dichloroethane	12	U
78-93-3-----	2-butanone	2	J
67-66-3-----	Chloroform	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
71-43-2-----	Benzene	57	
107-06-2-----	1,2-Dichloroethane	12	U
79-01-6-----	Trichloroethene	53	
78-87-5-----	1,2-Dichloropropane	12	U
75-27-4-----	Bromodichloromethane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
108-10-1-----	4-Methyl-2-pentanone	12	U
108-88-3-----	Toluene	60	
10061-02-6-----	trans-1,3-Dichloropropene	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
127-18-4-----	Tetrachloroethene	12	U
591-78-6-----	2-hexanone	12	U
124-48-1-----	Dibromochloromethane	12	U
108-90-7-----	Chlorobenzene	59	
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
75-25-2-----	Bromoform	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
1330-20-7-----	Xylene (total)	12	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB7BM5D

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG6971-7

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: WG6971-7B56

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: not dec. 23

Date Analyzed: 11/28/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	12	U
75-01-4-----	Vinyl Chloride	12	U
74-83-9-----	Bromomethane	12	U
75-00-3-----	Chloroethane	12	U
75-35-4-----	1,1-Dichloroethene	53	
75-15-0-----	Carbon disulfide	12	U
67-64-1-----	Acetone	240	E
75-09-2-----	Methylene Chloride	19	B
75-34-3-----	1,1-Dichloroethane	12	U
78-93-3-----	2-butanone	16	
67-66-3-----	Chloroform	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
71-43-2-----	Benzene	54	
107-06-2-----	1,2-Dichloroethane	12	U
79-01-6-----	Trichloroethene	51	
78-87-5-----	1,2-Dichloropropane	12	U
75-27-4-----	Bromodichloromethane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
108-10-1-----	4-Methyl-2-pentanone	12	U
108-88-3-----	Toluene	58	
10061-02-6-----	trans-1,3-Dichloropropene	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
127-18-4-----	Tetrachloroethene	12	U
591-78-6-----	2-hexanone	12	U
124-48-1-----	Dibromochloromethane	12	U
108-90-7-----	Chlorobenzene	57	
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
75-25-2-----	Bromoform	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
1330-20-7-----	Xylene (total)	12	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB7AMS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7173-3

Sample wt/vol: 100 (g/mL) ML

Lab File ID: WG7173-3A64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/29/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	94	
106-46-7-----	1,4-Dichlorobenzene	150	
95-48-7-----	2-Methylphenol	50	J
108-39-4-----	3-Methylphenol	66	
106-44-5-----	4-Methylphenol	66	
67-72-1-----	Hexachloroethane	140	
98-95-3-----	Nitrobenzene	170	
87-68-3-----	Hexachlorobutadiene	150	
88-06-2-----	2,4,6-Trichlorophenol	180	
95-95-4-----	2,4,5-Trichlorophenol	160	
121-14-2-----	2,4-Dinitrotoluene	170	
118-74-1-----	Hexachlorobenzene	220	
87-86-5-----	Pentachlorophenol	160	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB7AMSD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7173-4

Sample wt/vol: 100 (g/mL) ML

Lab File ID: WG7173-4A64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/29/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	88	
106-46-7-----	1,4-Dichlorobenzene	140	
95-48-7-----	2-Methylphenol	34	J
108-39-4-----	3-Methylphenol	39	J
106-44-5-----	4-Methylphenol	39	J
67-72-1-----	Hexachloroethane	130	
98-95-3-----	Nitrobenzene	150	
87-68-3-----	Hexachlorobutadiene	130	
88-06-2-----	2,4,6-Trichlorophenol	160	
95-95-4-----	2,4,5-Trichlorophenol	140	
121-14-2-----	2,4-Dinitrotoluene	160	
118-74-1-----	Hexachlorobenzene	200	
87-86-5-----	Pentachlorophenol	170	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 237

6SB7BMS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG6986-3

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: WG6986-3B64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	3300	
111-44-4-----	Bis(2-chloroethyl) ether	4100	
95-57-8-----	2-Chlorophenol	3600	
541-73-1-----	1,3-Dichlorobenzene	3600	
106-46-7-----	1,4-Dichlorobenzene	3500	
95-50-1-----	1,2-Dichlorobenzene	3500	
95-48-7-----	2-Methylphenol	4200	
108-60-1-----	2,2'-oxybis(1-Chloropropane)	4100	
106-44-5-----	4-Methylphenol	6900	E
621-64-7-----	N-Nitroso-di-N-propylamine	4500	
67-72-1-----	Hexachloroethane	3900	
98-95-3-----	Nitrobenzene	3600	
78-59-1-----	Isophorone	3700	
88-75-5-----	2-Nitrophenol	3400	
105-67-9-----	2,4-Dimethylphenol	4000	
111-91-1-----	Bis(2-chloroethoxy) methane	4200	
120-83-2-----	2,4-Dichlorophenol	3700	
120-82-1-----	1,2,4-Trichlorobenzene	4000	
91-20-3-----	Naphthalene	4400	
106-47-8-----	4-Chloroaniline	2200	
87-68-3-----	Hexachlorobutadiene	4100	
59-50-7-----	4-Chloro-3-methylphenol	4100	
91-57-6-----	2-Methylnaphthalene	3600	
77-47-4-----	Hexachlorocyclopentadiene	4100	
88-06-2-----	2,4,6-Trichlorophenol	4000	
95-95-4-----	2,4,5-Trichlorophenol	3800	
91-58-7-----	2-Chloronaphthalene	3800	
88-74-4-----	2-Nitroaniline	3800	
131-11-3-----	Dimethylphthalate	4100	
606-20-2-----	2,6-Dinitrotoluene	4100	
208-96-8-----	Acenaphthylene	4200	
99-09-2-----	3-Nitroaniline	2700	
83-32-9-----	Acenaphthene	4300	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB7BMS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG6986-3

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: WG6986-3B64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	1700	J
100-02-7-----	4-Nitrophenol	3200	
121-14-2-----	2,4-Dinitrotoluene	4000	
132-64-9-----	Dibenzofuran	3900	
84-66-2-----	Diethylphthalate	4000	
7005-72-3-----	4-Chlorophenyl-phenylether	4300	
86-73-7-----	Fluorene	4400	
100-01-6-----	4-Nitroaniline	2800	
534-52-1-----	4,6-Dinitro-2-methylphenol	2200	
86-30-6-----	N-Nitrosodiphenylamine (1)	3800	
101-55-3-----	4-Bromophenyl-phenylether	4100	
118-74-1-----	Hexachlorobenzene	3900	
87-86-5-----	Pentachlorophenol	3200	
85-01-8-----	Phenanthrene	4400	
120-12-7-----	Anthracene	4100	
86-74-8-----	Carbazole	3900	
84-74-2-----	Di-n-butylphthalate	4000	
206-44-0-----	Fluoranthene	4500	
129-00-0-----	Pyrene	4400	
85-68-7-----	Butylbenzylphthalate	3600	
91-94-1-----	3,3'-Dichlorobenzidine	1500	
117-81-7-----	bis(2-ethylhexyl)Phthalate	3700	
56-55-3-----	Benzo(a)anthracene	4400	
218-01-9-----	Chrysene	4300	
117-84-0-----	Di-n-octylphthalate	3400	
205-99-2-----	Benzo(b)fluoranthene	4400	
207-08-9-----	Benzo(k)fluoranthene	4600	
50-32-8-----	Benzo(a)pyrene	4500	
193-39-5-----	Indeno(1,2,3-c,d)pyrene	3600	
53-70-3-----	Dibenzo(a,h)anthracene	4400	
191-24-2-----	Benzo(g,h,i)perylene	4700	

(1) - Cannot be separated from Diphenylamine
FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB7BMSD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG6986-4

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: WG6986-4B64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	3600	
111-44-4-----	Bis(2-chloroethyl) ether	4600	
95-57-8-----	2-Chlorophenol	4000	
541-73-1-----	1,3-Dichlorobenzene	4000	
106-46-7-----	1,4-Dichlorobenzene	4100	
95-50-1-----	1,2-Dichlorobenzene	3800	
95-48-7-----	2-Methylphenol	4300	
108-60-1-----	2,2'-oxybis(1-Chloropropane)	4500	
106-44-5-----	4-Methylphenol	7400	E
621-64-7-----	N-Nitroso-di-N-propylamine	5000	
67-72-1-----	Hexachloroethane	4600	
98-95-3-----	Nitrobenzene	4000	
78-59-1-----	Isophorone	3900	
88-75-5-----	2-Nitrophenol	3800	
105-67-9-----	2,4-Dimethylphenol	3700	
111-91-1-----	Bis(2-chloroethoxy) methane	4600	
120-83-2-----	2,4-Dichlorophenol	4000	
120-82-1-----	1,2,4-Trichlorobenzene	4500	
91-20-3-----	Naphthalene	4800	
106-47-8-----	4-Chloroaniline	2100	
87-68-3-----	Hexachlorobutadiene	4500	
59-50-7-----	4-Chloro-3-methylphenol	4300	
91-57-6-----	2-Methylnaphthalene	3800	
77-47-4-----	Hexachlorocyclopentadiene	4500	
88-06-2-----	2,4,6-Trichlorophenol	4200	
95-95-4-----	2,4,5-Trichlorophenol	4100	
91-58-7-----	2-Chloronaphthalene	4100	
88-74-4-----	2-Nitroaniline	4000	
131-11-3-----	Dimethylphthalate	4400	
606-20-2-----	2,6-Dinitrotoluene	4500	
208-96-8-----	Acenaphthylene	4400	
99-09-2-----	3-Nitroaniline	2700	
83-32-9-----	Acenaphthene	4600	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB7BMSD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG6986-4

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: WG6986-4B64

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	1700	J
100-02-7-----	4-Nitrophenol	3800	
121-14-2-----	2,4-Dinitrotoluene	4200	
132-64-9-----	Dibenzofuran	4100	
84-66-2-----	Diethylphthalate	4300	
7005-72-3-----	4-Chlorophenyl-phenylether	4700	
86-73-7-----	Fluorene	4600	
100-01-6-----	4-Nitroaniline	2700	
534-52-1-----	4,6-Dinitro-2-methylphenol	2200	
86-30-6-----	N-Nitrosodiphenylamine (1)	3900	
101-55-3-----	4-Bromophenyl-phenylether	4200	
118-74-1-----	Hexachlorobenzene	4000	
87-86-5-----	Pentachlorophenol	3200	
85-01-8-----	Phenanthrene	4600	
120-12-7-----	Anthracene	4200	
86-74-8-----	Carbazole	3900	
84-74-2-----	Di-n-butylphthalate	4200	
206-44-0-----	Fluoranthene	4600	
129-00-0-----	Pyrene	4800	
85-68-7-----	Butylbenzylphthalate	3900	
91-94-1-----	3,3'-Dichlorobenzidine	1300	
117-81-7-----	bis(2-ethylhexyl) Phthalate	4000	
56-55-3-----	Benzo(a)anthracene	4700	
218-01-9-----	Chrysene	4500	
117-84-0-----	Di-n-octylphthalate	3600	
205-99-2-----	Benzo(b)fluoranthene	4700	
207-08-9-----	Benzo(k)fluoranthene	4600	
50-32-8-----	Benzo(a)pyrene	4600	
193-39-5-----	Indeno(1,2,3-c,d)pyrene	3600	
53-70-3-----	Dibenzo(a,h)anthracene	4500	
191-24-2-----	Benzo(g,h,i)perylene	4900	

(1) - Cannot be separated from Diphenylamine
FORM I SV

8270C

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 281

6SB7AMS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7043-3

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	1.3	J
72-20-8-----	Endrin	1.5	P
76-44-8-----	Heptachlor	1.3	
1024-57-3-----	Heptachlor Epoxide	1.2	
72-43-5-----	Methoxychlor	2.0	JP
8001-35-2-----	Toxaphene	29	P
12789-03-6-----	Technical Chlordane	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7AMSD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7043-4

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	1.4	J
72-20-8-----	Endrin	0.92	JP
76-44-8-----	Heptachlor	1.5	
1024-57-3-----	Heptachlor Epoxide	1.3	
72-43-5-----	Methoxychlor	2.8	P
8001-35-2-----	Toxaphene	28	
12789-03-6-----	Technical Chlordane	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 247

6SB7AMS

ab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7040-3

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

94-75-7-----2,4-D	40	B
93-72-1-----silvex	3.7	BP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7AMSD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7040-4

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----2,4-D	40	B
93-72-1-----silvex	3.9	B

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7BPCBMS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG7065-6

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/28/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

309-00-2-----Aldrin	2.2	U
319-84-6-----alpha-BHC	2.2	U
319-85-7-----beta-BHC	4.4	U
319-86-8-----delta-BHC	2.2	U
58-89-9-----gamma-BHC (Lindane)	2.2	U
72-54-8-----4,4'-DDD	8.6	U
72-55-9-----4,4'-DDE	4.4	U
50-29-3-----4,4'-DDT	13	U
60-57-1-----Dieldrin	4.4	U
959-98-8-----Endosulfan I	4.4	U
33213-65-9-----Endosulfan II	8.6	U
1031-07-8-----Endosulfan sulfate	8.6	U
72-20-8-----Endrin	8.6	U
7421-93-4-----Endrin Aldehyde	8.6	U
76-44-8-----Heptachlor	2.2	U
1024-57-3-----Heptachlor Epoxide	2.2	U
72-43-5-----Methoxychlor	22	U
8001-35-2-----Toxaphene	220	U
12674-11-2-----Aroclor-1016	220	P
11104-28-2-----Aroclor-1221	220	U
11141-16-5-----Aroclor-1232	170	U
53469-21-9-----Aroclor-1242	120	U
12672-29-6-----Aroclor-1248	120	U
11097-69-1-----Aroclor-1254	70	J
11096-82-5-----Aroclor-1260	190	_____
53494-70-5-----Endrin Ketone	22	U
5103-74-2-----gamma-Chlordane	2.2	U
5103-71-9-----alpha-Chlordane	0.74	JP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7BPCBMSD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG7065-7

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/28/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

309-00-2-----	Aldrin	2.2	U
319-84-6-----	alpha-BHC	2.2	U
319-85-7-----	beta-BHC	4.4	U
319-86-8-----	delta-BHC	2.2	U
58-89-9-----	gamma-BHC (Lindane)	2.2	U
72-54-8-----	4,4'-DDD	8.6	U
72-55-9-----	4,4'-DDE	4.4	U
50-29-3-----	4,4'-DDT	13	U
60-57-1-----	Dieldrin	4.4	U
959-98-8-----	Endosulfan I	4.4	U
33213-65-9-----	Endosulfan II	8.6	U
1031-07-8-----	Endosulfan sulfate	8.6	U
72-20-8-----	Endrin	8.6	U
7421-93-4-----	Endrin Aldehyde	8.6	U
76-44-8-----	Heptachlor	2.2	U
1024-57-3-----	Heptachlor Epoxide	2.2	U
72-43-5-----	Methoxychlor	22	U
8001-35-2-----	Toxaphene	220	U
12674-11-2-----	Aroclor-1016	220	P
11104-28-2-----	Aroclor-1221	220	U
11141-16-5-----	Aroclor-1232	170	U
53469-21-9-----	Aroclor-1242	120	U
12672-29-6-----	Aroclor-1248	120	U
11097-69-1-----	Aroclor-1254	86	JP
11096-82-5-----	Aroclor-1260	160	J
53494-70-5-----	Endrin Ketone	22	U
5103-74-2-----	gamma-Chlordane	2.2	U
5103-71-9-----	alpha-Chlordane	4.4	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7BMS

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG7050-3

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	3.2	
99-35-4-----	1,3,5-Trinitrobenzene	2.6	
121-82-4-----	RDX	2.4	
99-65-0-----	1,3-Dinitrobenzene	2.5	
118-96-7-----	2,4,6-Trinitrotoluene	0.92	J
479-45-8-----	Tetryl	2.4	
98-95-3-----	Nitrobenzene	1.6	
121-14-2-----	2,4-Dinitrotoluene	2.4	
606-20-2-----	2,6-Dinitrotoluene	2.7	
35572-78-2-----	2-Amino-4,6-dinitrotoluene	2.8	
1946-51-0-----	4-Amino-2,6-dinitrotoluene	3.3	
88-72-2-----	2-Nitrotoluene	3.2	
99-99-0-----	4-Nitrotoluene	3.1	
99-08-1-----	3-Nitrotoluene	3.8	

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB7BMSD

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG7050-4

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	3.2	
99-35-4-----	1,3,5-Trinitrobenzene	1.8	
121-82-4-----	RDX	2.6	
99-65-0-----	1,3-Dinitrobenzene	2.5	
118-96-7-----	2,4,6-Trinitrotoluene	1.6	
479-45-8-----	Tetryl	2.5	
98-95-3-----	Nitrobenzene	1.7	
121-14-2-----	2,4-Dinitrotoluene	1.7	
606-20-2-----	2,6-Dinitrotoluene	2.7	
35572-78-2-----	2-Amino-4,6-dinitrotoluene	2.8	
1946-51-0-----	4-Amino-2,6-dinitrotoluene	2.0	
88-72-2-----	2-Nitrotoluene	3.2	
99-99-0-----	4-Nitrotoluene	3.3	
99-08-1-----	3-Nitrotoluene	3.2	

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LABORATORY ANALYSIS DATA SHEETS

BORING 6SB8

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB8A

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTYCase No.: Q1701

SAS No.: _____

SDG No.: R1701Matrix (soil/water): WATERLab Sample ID: R1701-7Level (low/med): LOWDate Received: 11/16/00% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	304	B		P
7440-43-9	Cadmium	1.1	B	N	P
7440-47-3	Chromium	3.9	B	N	P
7439-92-1	Lead	52.1	B	NE	P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	9.4	B		P
7440-22-4	Silver	2.0	B	N	P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

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SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB8B

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-7Level (low/med): LOWDate Received: 11/16/00% Solids: 74.0Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	28600			P
7440-36-0	Antimony	0.46	U	N	P
7440-38-2	Arsenic	4.5			P
7440-39-3	Barium	37.6			P
7440-41-7	Beryllium	1.9			P
7440-43-9	Cadmium	0.61	B		P
7440-70-2	Calcium	411			P
7440-47-3	Chromium	32.3		N	P
7440-48-4	Cobalt	6.0			P
7440-50-8	Copper	33.3			P
7439-89-6	Iron	29800			P
7439-92-1	Lead	18.0			P
7439-95-4	Magnesium	4400			P
7439-96-5	Manganese	291		N*	P
7439-97-6	Mercury	0.10			CV
7440-02-0	Nickel	21.5			P
7440-09-7	Potassium	1350		E	P
7782-49-2	Selenium	0.90			P
7440-22-4	Silver	0.21	B		P
7440-23-5	Sodium	34.9	U		P
7440-28-0	Thallium	0.65	U		P
7440-62-2	Vanadium	48.8		N	P
7440-66-6	Zinc	56.8			P

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB8A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-7

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-7A59

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB8B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-7

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: Q1701-7RB56

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. 26

Date Analyzed: 11/29/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	14	U
75-01-4-----	Vinyl Chloride	14	U
74-83-9-----	Bromomethane	14	U
75-00-3-----	Chloroethane	14	U
75-35-4-----	1,1-Dichloroethene	14	U
75-15-0-----	Carbon disulfide	14	U
67-64-1-----	Acetone	27	B
75-09-2-----	Methylene Chloride	21	B
75-34-3-----	1,1-Dichloroethane	14	U
78-93-3-----	2-butanone	3	J
67-66-3-----	Chloroform	14	U
71-55-6-----	1,1,1-Trichloroethane	14	U
56-23-5-----	Carbon Tetrachloride	14	U
71-43-2-----	Benzene	14	U
107-06-2-----	1,2-Dichloroethane	14	U
79-01-6-----	Trichloroethene	14	U
78-87-5-----	1,2-Dichloropropane	14	U
75-27-4-----	Bromodichloromethane	14	U
10061-01-5-----	cis-1,3-Dichloropropene	14	U
108-10-1-----	4-Methyl-2-pentanone	14	U
108-88-3-----	Toluene	3	JB
10061-02-6-----	trans-1,3-Dichloropropene	14	U
79-00-5-----	1,1,2-Trichloroethane	14	U
127-18-4-----	Tetrachloroethene	14	U
591-78-6-----	2-hexanone	14	U
124-48-1-----	Dibromochloromethane	14	U
108-90-7-----	Chlorobenzene	14	U
100-41-4-----	Ethylbenzene	14	U
100-42-5-----	Styrene	14	U
75-25-2-----	Bromoform	14	U
79-34-5-----	1,1,2,2-Tetrachloroethane	14	U
540-59-0-----	1,2-Dichloroethene (total)	14	U
1330-20-7-----	Xylene (total)	14	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB8A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-7

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-7A64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB8B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-7

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-7B64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: 26 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	450	U
111-44-4-----	Bis(2-chloroethyl) ether	450	U
95-57-8-----	2-Chlorophenol	450	U
541-73-1-----	1,3-Dichlorobenzene	450	U
106-46-7-----	1,4-Dichlorobenzene	450	U
95-50-1-----	1,2-Dichlorobenzene	450	U
95-48-7-----	2-Methylphenol	450	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----	4-Methylphenol	450	U
621-64-7-----	N-Nitroso-di-N-propylamine	450	U
67-72-1-----	Hexachloroethane	450	U
98-95-3-----	Nitrobenzene	450	U
78-59-1-----	Isophorone	450	U
88-75-5-----	2-Nitrophenol	450	U
105-67-9-----	2,4-Dimethylphenol	450	U
111-91-1-----	Bis(2-chloroethoxy) methane	450	U
120-83-2-----	2,4-Dichlorophenol	450	U
120-82-1-----	1,2,4-Trichlorobenzene	450	U
91-20-3-----	Naphthalene	450	U
106-47-8-----	4-Chloroaniline	450	U
87-68-3-----	Hexachlorobutadiene	450	U
59-50-7-----	4-Chloro-3-methylphenol	450	U
91-57-6-----	2-Methylnaphthalene	450	U
77-47-4-----	Hexachlorocyclopentadiene	450	U
88-06-2-----	2,4,6-Trichlorophenol	450	U
95-95-4-----	2,4,5-Trichlorophenol	450	U
91-58-7-----	2-Chloronaphthalene	450	U
88-74-4-----	2-Nitroaniline	890	U
131-11-3-----	Dimethylphthalate	450	U
606-20-2-----	2,6-Dinitrotoluene	450	U
208-96-8-----	Acenaphthylene	450	U
99-09-2-----	3-Nitroaniline	890	U
83-32-9-----	Acenaphthene	450	U

FORM I SV

827

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB8B

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: Q1701

Matrix: (soil/water) SOIL Lab Sample ID: Q1701-7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q1701-7B64

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: 26 decanted: (Y/N) N Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/18/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
51-28-5-----	2,4-Dinitrophenol	2300	U
100-02-7-----	4-Nitrophenol	890	U
121-14-2-----	2,4-Dinitrotoluene	450	U
132-64-9-----	Dibenzofuran	450	U
84-66-2-----	Diethylphthalate	450	U
7005-72-3-----	4-Chlorophenyl-phenylether	450	U
86-73-7-----	Fluorene	450	U
100-01-6-----	4-Nitroaniline	890	U
534-52-1-----	4,6-Dinitro-2-methylphenol	890	U
86-30-6-----	N-Nitrosodiphenylamine (1)	450	U
101-55-3-----	4-Bromophenyl-phenylether	450	U
118-74-1-----	Hexachlorobenzene	450	U
87-86-5-----	Pentachlorophenol	890	U
85-01-8-----	Phenanthrene	450	U
120-12-7-----	Anthracene	450	U
86-74-8-----	Carbazole	450	U
84-74-2-----	Di-n-butylphthalate	450	U
206-44-0-----	Fluoranthene	450	U
129-00-0-----	Pyrene	450	U
85-68-7-----	Butylbenzylphthalate	450	U
91-94-1-----	3,3'-Dichlorobenzidine	890	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	450	U
56-55-3-----	Benzo(a)anthracene	450	U
218-01-9-----	Chrysene	450	U
117-84-0-----	Di-n-octylphthalate	450	U
205-99-2-----	Benzo(b)fluoranthene	450	U
207-08-9-----	Benzo(k)fluoranthene	450	U
50-32-8-----	Benzo(a)pyrene	450	U
193-39-5-----	Indeno(1,2,3-c,d)pyrene	450	U
53-70-3-----	Dibenzo(a,h)anthracene	450	U
191-24-2-----	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine
FORM I SV

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB8A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-7

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	0.026	JP
72-20-8-----	Endrin	1.0	U
76-44-8-----	Heptachlor	0.049	JP
1024-57-3-----	Heptachlor Epoxide	8.7	EP
72-43-5-----	Methoxychlor	2.5	U
8001-35-2-----	Toxaphene	25	U
12789-03-6-----	Technical Chlordane	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB8ADL

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-7

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/29/00

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	0.068	DJP
72-20-8-----	Endrin	5.0	U
76-44-8-----	Heptachlor	1.2	U
1024-57-3-----	Heptachlor Epoxide	1.2	U
72-43-5-----	Methoxychlor	12	U
8001-35-2-----	Toxaphene	120	U
12789-03-6-----	Technical Chlordane	120	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB8A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-7

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

94-75-7-----2,4-D	0.42	JB
93-72-1-----silvex	0.58	JBP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB8B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-7

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 26 decanted: (Y/N) N

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

309-00-2-----	Aldrin	2.2	U
319-84-6-----	alpha-BHC	2.2	U
319-85-7-----	beta-BHC	4.8	P
319-86-8-----	delta-BHC	2.2	U
58-89-9-----	gamma-BHC (Lindane)	2.2	U
72-54-8-----	4,4'-DDD	8.9	U
72-55-9-----	4,4'-DDE	4.6	U
50-29-3-----	4,4'-DDT	14	U
60-57-1-----	Dieldrin	4.6	U
959-98-8-----	Endosulfan I	4.6	U
33213-65-9-----	Endosulfan II	8.9	U
1031-07-8-----	Endosulfan sulfate	8.9	U
72-20-8-----	Endrin	8.9	U
7421-93-4-----	Endrin Aldehyde	8.9	U
76-44-8-----	Heptachlor	2.2	U
1024-57-3-----	Heptachlor Epoxide	7.1	PB
72-43-5-----	Methoxychlor	22	U
8001-35-2-----	Toxaphene	220	U
12674-11-2-----	Aroclor-1016	180	U
11104-28-2-----	Aroclor-1221	230	U
11141-16-5-----	Aroclor-1232	180	U
53469-21-9-----	Aroclor-1242	120	U
12672-29-6-----	Aroclor-1248	120	U
11097-69-1-----	Aroclor-1254	120	U
11096-82-5-----	Aroclor-1260	180	U
53494-70-5-----	Endrin Ketone	22	U
5103-74-2-----	gamma-Chlordane	2.2	U
5103-71-9-----	alpha-Chlordane	4.6	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB8B

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-7

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

LABORATORY ANALYSIS DATA SHEETS

BORING 6SB9

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB9A

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTYCase No.: Q1701

SAS No.: _____

SDG No.: R1701Matrix (soil/water): WATERLab Sample ID: R1701-8Level (low/med): LOWDate Received: 11/16/00% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	436	B		P
7440-43-9	Cadmium	1.3	B	N	P
7440-47-3	Chromium	7.6	B	N	P
7439-92-1	Lead	56.9	B	NE	P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	10.0	B		P
7440-22-4	Silver	1.0	B	N	P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

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TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

LEACH BLK

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBERTY

Case No.: Q1701

SAS No.: _____

SDG No.: R1701

Matrix (soil/water): WATER

Lab Sample ID: WG7029-1

Level (low/med): LOW

Date Received: _____

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	2.5	B		P
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	1.0	B		P
7439-92-1	Lead	24.2	B		P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	13.6	B		P
7440-22-4	Silver	0.40	U		P

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments: _____

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

LEACH BLK

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTYCase No.: Q1701

SAS No.: _____

SDG No.: R1701Matrix (soil/water): WATERLab Sample ID: WG7029-2Level (low/med): LOW

Date Received: _____

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	1.1	B		P
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	0.60	U		P
7439-92-1	Lead	36.8	B		P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	11.0	B		P
7440-22-4	Silver	0.40	U		P

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments: _____

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SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB9B

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-8Level (low/med): LOWDate Received: 11/16/00% Solids: 79.8

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16200			P
7440-36-0	Antimony	0.44	U	N	P
7440-38-2	Arsenic	4.2			P
7440-39-3	Barium	50.4			P
7440-41-7	Beryllium	0.37	B		P
7440-43-9	Cadmium	0.21	B		P
7440-70-2	Calcium	1590			P
7440-47-3	Chromium	24.6		N	P
7440-48-4	Cobalt	7.1			P
7440-50-8	Copper	9.6			P
7439-89-6	Iron	23100			P
7439-92-1	Lead	17.3			P
7439-95-4	Magnesium	1680			P
7439-96-5	Manganese	324		N*	P
7439-97-6	Mercury	0.086			CV
7440-02-0	Nickel	7.2			P
7440-09-7	Potassium	594		E	P
7782-49-2	Selenium	0.68			P
7440-22-4	Silver	0.75			P
7440-23-5	Sodium	33.6	U		P
7440-28-0	Thallium	0.63	U		P
7440-62-2	Vanadium	49.6		N	P
7440-66-6	Zinc	28.7			P

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB9A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-8

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-8A59

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB9B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-8

Sample wt/vol: 4.8 (g/mL) G

Lab File ID: Q1701-8B56

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. 20

Date Analyzed: 11/22/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	13	U
75-01-4-----	Vinyl Chloride	13	U
74-83-9-----	Bromomethane	13	U
75-00-3-----	Chloroethane	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-15-0-----	Carbon disulfide	13	U
67-64-1-----	Acetone	29	
75-09-2-----	Methylene Chloride	14	
75-34-3-----	1,1-Dichloroethane	13	U
78-93-3-----	2-butanone	2	J
67-66-3-----	Chloroform	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
71-43-2-----	Benzene	13	U
107-06-2-----	1,2-Dichloroethane	13	U
79-01-6-----	Trichloroethene	13	U
78-87-5-----	1,2-Dichloropropane	13	U
75-27-4-----	Bromodichloromethane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
108-10-1-----	4-Methyl-2-pentanone	13	U
108-88-3-----	Toluene	2	J
10061-02-6-----	trans-1,3-Dichloropropene	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
127-18-4-----	Tetrachloroethene	13	U
591-78-6-----	2-hexanone	13	U
124-48-1-----	Dibromochloromethane	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
75-25-2-----	Bromoform	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
1330-20-7-----	Xylene (total)	13	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB9A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-8

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-8A64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB9ARE

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-8

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-8RA64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/28/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB9B

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: Q1701

Matrix: (soil/water) SOIL Lab Sample ID: Q1701-8

Sample wt/vol: 30.1 (g/mL) G Lab File ID: Q1701-8A64

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: 20 decanted: (Y/N) N Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2-----	Phenol	410	U
111-44-4-----	Bis(2-chloroethyl) ether	410	U
95-57-8-----	2-Chlorophenol	410	U
541-73-1-----	1,3-Dichlorobenzene	410	U
106-46-7-----	1,4-Dichlorobenzene	410	U
95-50-1-----	1,2-Dichlorobenzene	410	U
95-48-7-----	2-Methylphenol	410	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5-----	4-Methylphenol	410	U
621-64-7-----	N-Nitroso-di-N-propylamine	410	U
67-72-1-----	Hexachloroethane	410	U
98-95-3-----	Nitrobenzene	410	U
78-59-1-----	Isophorone	410	U
88-75-5-----	2-Nitrophenol	410	U
105-67-9-----	2,4-Dimethylphenol	410	U
111-91-1-----	Bis(2-chloroethoxy)methane	410	U
120-83-2-----	2,4-Dichlorophenol	410	U
120-82-1-----	1,2,4-Trichlorobenzene	410	U
91-20-3-----	Naphthalene	410	U
106-47-8-----	4-Chloroaniline	410	U
87-68-3-----	Hexachlorobutadiene	410	U
59-50-7-----	4-Chloro-3-methylphenol	410	U
91-57-6-----	2-Methylnaphthalene	410	U
77-47-4-----	Hexachlorocyclopentadiene	410	U
88-06-2-----	2,4,6-Trichlorophenol	410	U
95-95-4-----	2,4,5-Trichlorophenol	410	U
91-58-7-----	2-Chloronaphthalene	410	U
88-74-4-----	2-Nitroaniline	820	U
131-11-3-----	Dimethylphthalate	410	U
606-20-2-----	2,6-Dinitrotoluene	410	U
208-96-8-----	Acenaphthylene	410	U
99-09-2-----	3-Nitroaniline	820	U
83-32-9-----	Acenaphthene	410	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB9B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-8

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: Q1701-8A64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	820	U
121-14-2-----	2,4-Dinitrotoluene	410	U
132-64-9-----	Dibenzofuran	410	U
84-66-2-----	Diethylphthalate	410	U
7005-72-3-----	4-Chlorophenyl-phenylether	410	U
86-73-7-----	Fluorene	410	U
100-01-6-----	4-Nitroaniline	820	U
534-52-1-----	4,6-Dinitro-2-methylphenol	820	U
86-30-6-----	N-Nitrosodiphenylamine (1)	410	U
101-55-3-----	4-Bromophenyl-phenylether	410	U
118-74-1-----	Hexachlorobenzene	410	U
87-86-5-----	Pentachlorophenol	820	U
85-01-8-----	Phenanthrene	410	U
120-12-7-----	Anthracene	410	U
86-74-8-----	Carbazole	410	U
84-74-2-----	Di-n-butylphthalate	410	U
206-44-0-----	Fluoranthene	410	U
129-00-0-----	Pyrene	410	U
85-68-7-----	Butylbenzylphthalate	410	U
91-94-1-----	3,3'-Dichlorobenzidine	820	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	4000	U
56-55-3-----	Benzo(a)anthracene	410	U
218-01-9-----	Chrysene	410	U
117-84-0-----	Di-n-octylphthalate	410	U
205-99-2-----	Benzo(b)fluoranthene	410	U
207-08-9-----	Benzo(k)fluoranthene	410	U
50-32-8-----	Benzo(a)pyrene	410	U
193-39-5-----	Indeno(1,2,3-c,d)pyrene	410	U
53-70-3-----	Dibenzo(a,h)anthracene	410	U
191-24-2-----	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

FORM I SV

82705

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 72

6SB9A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-8

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	2.5	U
72-20-8-----	Endrin	1.0	U
76-44-8-----	Heptachlor	0.25	U
1024-57-3-----	Heptachlor Epoxide	0.25	U
72-43-5-----	Methoxychlor	2.5	U
8001-35-2-----	Toxaphene	25	U
12789-03-6-----	Technical Chlordane	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB9A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-8

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

94-75-7-----2,4-D	0.30	JBP
93-72-1-----silvex	0.12	JBP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB9B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-8

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/28/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

309-00-2-----	Aldrin	2.1	U
319-84-6-----	alpha-BHC	2.1	U
319-85-7-----	beta-BHC	4.2	U
319-86-8-----	delta-BHC	2.1	U
58-89-9-----	gamma-BHC (Lindane)	2.1	U
72-54-8-----	4,4'-DDD	8.2	U
72-55-9-----	4,4'-DDE	4.2	U
50-29-3-----	4,4'-DDT	12	U
60-57-1-----	Dieldrin	4.2	U
959-98-8-----	Endosulfan I	4.2	U
33213-65-9-----	Endosulfan II	8.2	U
1031-07-8-----	Endosulfan sulfate	8.2	U
72-20-8-----	Endrin	8.2	U
7421-93-4-----	Endrin Aldehyde	8.2	U
76-44-8-----	Heptachlor	1.2	JP
1024-57-3-----	Heptachlor Epoxide	2.1	U
72-43-5-----	Methoxychlor	21	U
8001-35-2-----	Toxaphene	210	U
12674-11-2-----	Aroclor-1016	160	U
11104-28-2-----	Aroclor-1221	210	U
11141-16-5-----	Aroclor-1232	160	U
53469-21-9-----	Aroclor-1242	110	U
12672-29-6-----	Aroclor-1248	110	U
11097-69-1-----	Aroclor-1254	110	U
11096-82-5-----	Aroclor-1260	160	U
53494-70-5-----	Endrin Ketone	21	U
5103-74-2-----	gamma-Chlordane	1.8	JP
5103-71-9-----	alpha-Chlordane	4.2	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB9B

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-8

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

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LABORATORY ANALYSIS DATA SHEETS

BORING 6SB10

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB10A

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTYCase No.: Q1701

SAS No.: _____

SDG No.: R1701Matrix (soil/water): WATERLab Sample ID: R1701-10Level (low/med): LOWDate Received: 11/17/00% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	454	B		P
7440-43-9	Cadmium	1.2	B	N	P
7440-47-3	Chromium	4.7	B	N	P
7439-92-1	Lead	40.0	B	NE	P
7439-97-6	Mercury	0.10	B		CV
7782-49-2	Selenium	13.4	B		P
7440-22-4	Silver	1.8	B	N	P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB10AFD

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: Q1701

SAS No.: _____

SDG No.: R1701

Matrix (soil/water): WATER

Lab Sample ID: R1701-11

Level (low/med): LOW

Date Received: 11/17/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	301	B		P
7440-43-9	Cadmium	0.79	B	N	P
7440-47-3	Chromium	4.6	B	N	P
7439-92-1	Lead	37.4	B	NE	P
7439-97-6	Mercury	0.10	B		CV
7782-49-2	Selenium	8.0	B		P
7440-22-4	Silver	1.5	B	N	P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

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SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB10B

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-11Level (low/med): LOWDate Received: 11/17/00% Solids: 85.7

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10200			P
7440-36-0	Antimony	0.40	U	N	P
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	78.6			P
7440-41-7	Beryllium	0.58			P
7440-43-9	Cadmium	0.21	B		P
7440-70-2	Calcium	288			P
7440-47-3	Chromium	30.0		N	P
7440-48-4	Cobalt	8.0			P
7440-50-8	Copper	7.8			P
7439-89-6	Iron	21600			P
7439-92-1	Lead	19.5			P
7439-95-4	Magnesium	703			P
7439-96-5	Manganese	812		N*	P
7439-97-6	Mercury	0.03	B		CV
7440-02-0	Nickel	6.2			P
7440-09-7	Potassium	262		E	P
7782-49-2	Selenium	0.44	U		P
7440-22-4	Silver	0.57			P
7440-23-5	Sodium	30.4	U		P
7440-28-0	Thallium	0.57	U		P
7440-62-2	Vanadium	45.9		N	P
7440-66-6	Zinc	35.3			P

Color Before: BROWN

Clarity Before: _____

Texture: MEDIUMColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB10A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-10

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-10A59

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB10AFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-11

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-11A59

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-01-4-----	Vinyl Chloride	25	U	
75-35-4-----	1,1-Dichloroethene	25	U	
78-93-3-----	2-butanone	63	U	
67-66-3-----	Chloroform	25	U	
56-23-5-----	Carbon Tetrachloride	25	U	
71-43-2-----	Benzene	25	U	
107-06-2-----	1,2-Dichloroethane	25	U	
79-01-6-----	Trichloroethene	5	J	
127-18-4-----	Tetrachloroethene	25	U	
108-90-7-----	Chlorobenzene	25	U	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB10B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-11

Sample wt/vol: 6.5 (g/mL) G

Lab File ID: Q1701-11B56

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. 14

Date Analyzed: 11/29/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	9	U
75-01-4-----	Vinyl Chloride	9	U
74-83-9-----	Bromomethane	9	U
75-00-3-----	Chloroethane	9	U
75-35-4-----	1,1-Dichloroethene	9	U
75-15-0-----	Carbon disulfide	9	U
67-64-1-----	Acetone	62	B
75-09-2-----	Methylene Chloride	2	JB
75-34-3-----	1,1-Dichloroethane	9	U
78-93-3-----	2-butanone	4	J
67-66-3-----	Chloroform	9	U
71-55-6-----	1,1,1-Trichloroethane	9	U
56-23-5-----	Carbon Tetrachloride	9	U
71-43-2-----	Benzene	9	U
107-06-2-----	1,2-Dichloroethane	9	U
79-01-6-----	Trichloroethene	9	U
78-87-5-----	1,2-Dichloropropane	9	U
75-27-4-----	Bromodichloromethane	9	U
10061-01-5-----	cis-1,3-Dichloropropene	9	U
108-10-1-----	4-Methyl-2-pentanone	9	U
108-88-3-----	Toluene	9	U
10061-02-6-----	trans-1,3-Dichloropropene	9	U
79-00-5-----	1,1,2-Trichloroethane	9	U
127-18-4-----	Tetrachloroethene	9	U
591-78-6-----	2-hexanone	9	U
124-48-1-----	Dibromochloromethane	9	U
108-90-7-----	Chlorobenzene	9	U
100-41-4-----	Ethylbenzene	9	U
100-42-5-----	Styrene	9	U
75-25-2-----	Bromoform	9	U
79-34-5-----	1,1,2,2-Tetrachloroethane	9	U
540-59-0-----	1,2-Dichloroethene (total)	9	U
1330-20-7-----	Xylene (total)	9	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB10A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-10

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-10A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/24/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB10ARE

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-10

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-10RJA64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/29/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 28

6SB10AFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-11

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-11A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/24/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
110-86-1-----	Pyridine	50	U	
106-46-7-----	1,4-Dichlorobenzene	50	U	
95-48-7-----	2-Methylphenol	50	U	
108-39-4-----	3-Methylphenol	50	U	
106-44-5-----	4-Methylphenol	50	U	
67-72-1-----	Hexachloroethane	50	U	
98-95-3-----	Nitrobenzene	50	U	
87-68-3-----	Hexachlorobutadiene	50	U	
88-06-2-----	2,4,6-Trichlorophenol	50	U	
95-95-4-----	2,4,5-Trichlorophenol	50	U	
121-14-2-----	2,4-Dinitrotoluene	50	U	
118-74-1-----	Hexachlorobenzene	50	U	
87-86-5-----	Pentachlorophenol	100	U	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB10AFDRE

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-11

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-11RA64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/29/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 81

6SB10B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-11

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-11A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	380	U
111-44-4-----	Bis(2-chloroethyl) ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-di-N-propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethylphenol	380	U
111-91-1-----	Bis(2-chloroethoxy)methane	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	380	U
91-20-3-----	Naphthalene	380	U
106-47-8-----	4-Chloroaniline	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	380	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	770	U
131-11-3-----	Dimethylphthalate	380	U
606-20-2-----	2,6-Dinitrotoluene	380	U
208-96-8-----	Acenaphthylene	380	U
99-09-2-----	3-Nitroaniline	770	U
83-32-9-----	Acenaphthene	380	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB10B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-11

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-11A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	770	U
121-14-2-----	2,4-Dinitrotoluene	380	U
132-64-9-----	Dibenzofuran	380	U
84-66-2-----	Diethylphthalate	380	U
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	380	U
100-01-6-----	4-Nitroaniline	770	U
534-52-1-----	4,6-Dinitro-2-methylphenol	770	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	770	U
85-01-8-----	Phenanthrene	380	U
120-12-7-----	Anthracene	380	U
86-74-8-----	Carbazole	380	U
84-74-2-----	Di-n-butylphthalate	380	U
206-44-0-----	Fluoranthene	380	U
129-00-0-----	Pyrene	380	U
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	770	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	220	J
56-55-3-----	Benzo(a)anthracene	380	U
218-01-9-----	Chrysene	380	U
117-84-0-----	Di-n-octylphthalate	380	U
205-99-2-----	Benzo(b)fluoranthene	380	U
207-08-9-----	Benzo(k)fluoranthene	380	U
50-32-8-----	Benzo(a)pyrene	380	U
193-39-5-----	Indeno(1,2,3-c,d)pyrene	380	U
53-70-3-----	Dibenzo(a,h)anthracene	380	U
191-24-2-----	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine
FORM I SV

8270C

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 23

6SB10A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-10

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	2.5	U
72-20-8-----	Endrin	1.0	U
76-44-8-----	Heptachlor	0.25	U
1024-57-3-----	Heptachlor Epoxide	6.3	EP
72-43-5-----	Methoxychlor	2.5	U
8001-35-2-----	Toxaphene	25	U
12789-03-6-----	Technical Chlordane	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB10ADL

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-10

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/29/00

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
58-89-9-----	gamma-BHC (Lindane)_____	12	U
72-20-8-----	Endrin_____	5.0	U
76-44-8-----	Heptachlor_____	1.2	U
1024-57-3-----	Heptachlor Epoxide_____	1.2	U
72-43-5-----	Methoxychlor_____	12	U
8001-35-2-----	Toxaphene_____	120	U
12789-03-6-----	Technical Chlordane_____	120	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 25

6SB10AFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-11

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
58-89-9-----	gamma-BHC (Lindane) _____	2.5	U
72-20-8-----	Endrin _____	1.0	U
76-44-8-----	Heptachlor _____	0.25	U
1024-57-3-----	Heptachlor Epoxide _____	0.25	U
72-43-5-----	Methoxychlor _____	2.5	U
8001-35-2-----	Toxaphene _____	25	U
12789-03-6-----	Technical Chlordane _____	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB10A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-10

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----2,4-D	3.9	JBP
93-72-1-----silvex	3.1	BP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 27

6SB10AFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-11

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----2,4-D		0.65	JBP
93-72-1-----silvex		0.060	JB

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB10B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-11

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/28/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

309-00-2-----	Aldrin	1.9	U
319-84-6-----	alpha-BHC	1.9	U
319-85-7-----	beta-BHC	4.0	U
319-86-8-----	delta-BHC	1.9	U
58-89-9-----	gamma-BHC (Lindane)	1.9	U
72-54-8-----	4,4'-DDD	7.7	U
72-55-9-----	4,4'-DDE	4.0	U
50-29-3-----	4,4'-DDT	12	U
60-57-1-----	Dieldrin	4.0	U
959-98-8-----	Endosulfan I	4.0	U
33213-65-9-----	Endosulfan II	7.7	U
1031-07-8-----	Endosulfan sulfate	7.7	U
72-20-8-----	Endrin	7.7	U
7421-93-4-----	Endrin Aldehyde	7.7	U
76-44-8-----	Heptachlor	1.9	U
1024-57-3-----	Heptachlor Epoxide	1.9	U
72-43-5-----	Methoxychlor	19	U
8001-35-2-----	Toxaphene	190	U
12674-11-2-----	Aroclor-1016	150	U
11104-28-2-----	Aroclor-1221	200	U
11141-16-5-----	Aroclor-1232	150	U
53469-21-9-----	Aroclor-1242	100	U
12672-29-6-----	Aroclor-1248	100	U
11097-69-1-----	Aroclor-1254	100	U
11096-82-5-----	Aroclor-1260	150	U
53494-70-5-----	Endrin Ketone	6.5	JP
5103-74-2-----	gamma-Chlordane	2.3	
5103-71-9-----	alpha-Chlordane	4.0	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB10B

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-11

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

LABORATORY ANALYSIS DATA SHEETS**BORING 6SB11**

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB11A

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTYCase No.: Q1701

SAS No.: _____

SDG No.: R1701Matrix (soil/water): WATERLab Sample ID: R1701-12Level (low/med): LOWDate Received: 11/17/00% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	302	B		P
7440-43-9	Cadmium	1.3	B	N	P
7440-47-3	Chromium	6.2	B	N	P
7439-92-1	Lead	29.7	B	NE	P
7439-97-6	Mercury	0.10	B		CV
7782-49-2	Selenium	11.2	B		P
7440-22-4	Silver	2.4	B	N	P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

11

SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB11B

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-12Level (low/med): LOWDate Received: 11/17/00% Solids: 76.6Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21900			P
7440-36-0	Antimony	0.45	U	N	P
7440-38-2	Arsenic	5.3			P
7440-39-3	Barium	50.1			P
7440-41-7	Beryllium	0.91			P
7440-43-9	Cadmium	0.32	B		P
7440-70-2	Calcium	335			P
7440-47-3	Chromium	19.7		N	P
7440-48-4	Cobalt	6.3			P
7440-50-8	Copper	16.8			P
7439-89-6	Iron	27800			P
7439-92-1	Lead	14.6			P
7439-95-4	Magnesium	3000			P
7439-96-5	Manganese	227		N*	P
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	16.5			P
7440-09-7	Potassium	1020		E	P
7782-49-2	Selenium	0.64			P
7440-22-4	Silver	0.89			P
7440-23-5	Sodium	34.0	U		P
7440-28-0	Thallium	0.63	U		P
7440-62-2	Vanadium	51.8		N	P
7440-66-6	Zinc	45.2			P

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB11A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-12

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-12A59

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	7	J
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB11B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-12

Sample wt/vol: 5.7 (g/mL) G

Lab File ID: Q1701-12B56

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. 23

Date Analyzed: 11/29/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	11	U
75-01-4-----	Vinyl Chloride	11	U
74-83-9-----	Bromomethane	11	U
75-00-3-----	Chloroethane	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-15-0-----	Carbon disulfide	11	U
67-64-1-----	Acetone	30	B
75-09-2-----	Methylene Chloride	11	JB
75-34-3-----	1,1-Dichloroethane	11	U
78-93-3-----	2-butanone	3	J
67-66-3-----	Chloroform	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
71-43-2-----	Benzene	11	U
107-06-2-----	1,2-Dichloroethane	11	U
79-01-6-----	Trichloroethene	11	U
78-87-5-----	1,2-Dichloropropane	11	U
75-27-4-----	Bromodichloromethane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
108-10-1-----	4-Methyl-2-pentanone	11	U
108-88-3-----	Toluene	2	JB
10061-02-6-----	trans-1,3-Dichloropropene	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
127-18-4-----	Tetrachloroethene	11	U
591-78-6-----	2-hexanone	11	U
124-48-1-----	Dibromochloromethane	11	U
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
75-25-2-----	Bromoform	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
1330-20-7-----	Xylene (total)	11	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB11A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-12

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-12A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/24/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
110-86-1-----	Pyridine	50	U	
106-46-7-----	1,4-Dichlorobenzene	50	U	
95-48-7-----	2-Methylphenol	50	U	
108-39-4-----	3-Methylphenol	50	U	
106-44-5-----	4-Methylphenol	50	U	
67-72-1-----	Hexachloroethane	50	U	
98-95-3-----	Nitrobenzene	50	U	
87-68-3-----	Hexachlorobutadiene	50	U	
88-06-2-----	2,4,6-Trichlorophenol	50	U	
95-95-4-----	2,4,5-Trichlorophenol	50	U	
121-14-2-----	2,4-Dinitrotoluene	50	U	
118-74-1-----	Hexachlorobenzene	50	U	
87-86-5-----	Pentachlorophenol	100	U	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB11ARE

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-12

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-12RA64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/29/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB11B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-12

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: Q1701-12A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	420	U
111-44-4-----	Bis(2-chloroethyl) ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-N-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
111-91-1-----	Bis(2-chloroethoxy) methane	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
59-50-7-----	4-Chloro-3-methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	420	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	850	U
131-11-3-----	Dimethylphthalate	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U
208-96-8-----	Acenaphthylene	420	U
99-09-2-----	3-Nitroaniline	850	U
83-32-9-----	Acenaphthene	420	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB11B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-12

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: Q1701-12A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

51-28-5-----	2,4-Dinitrophenol	2200	U
100-02-7-----	4-Nitrophenol	850	U
121-14-2-----	2,4-Dinitrotoluene	420	U
132-64-9-----	Dibenzofuran	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	850	U
534-52-1-----	4,6-Dinitro-2-methylphenol	850	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	850	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	850	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	420	U
56-55-3-----	Benzo(a) anthracene	420	U
218-01-9-----	Chrysene	420	U
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b) fluoranthene	420	U
207-08-9-----	Benzo(k) fluoranthene	420	U
50-32-8-----	Benzo(a) pyrene	420	U
193-39-5-----	Indeno(1,2,3-c,d) pyrene	420	U
53-70-3-----	Dibenzo(a,h) anthracene	420	U
191-24-2-----	Benzo(g,h,i) perylene	420	U

(1) - Cannot be separated from Diphenylamine
FORM I SV

8270C

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 71

6SB11A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-12

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	2.5	U
72-20-8-----	Endrin	1.0	U
76-44-8-----	Heptachlor	0.25	U
1024-57-3-----	Heptachlor Epoxide	0.25	U
72-43-5-----	Methoxychlor	2.5	U
8001-35-2-----	Toxaphene	25	U
12789-03-6-----	Technical Chlordane	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB11A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-12

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----2,4-D	0.53	JBP
93-72-1-----silvex	0.10	JBP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB11B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-12

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

309-00-2-----	Aldrin	2.2	U
319-84-6-----	alpha-BHC	2.2	U
319-85-7-----	beta-BHC	4.4	U
319-86-8-----	delta-BHC	2.2	U
58-89-9-----	gamma-BHC (Lindane)	1.0	JP
72-54-8-----	4,4'-DDD	8.6	U
72-55-9-----	4,4'-DDE	4.4	U
50-29-3-----	4,4'-DDT	13	U
60-57-1-----	Dieldrin	4.4	U
959-98-8-----	Endosulfan I	4.4	U
33213-65-9-----	Endosulfan II	8.6	U
1031-07-8-----	Endosulfan sulfate	8.6	U
72-20-8-----	Endrin	8.6	U
7421-93-4-----	Endrin Aldehyde	8.6	U
76-44-8-----	Heptachlor	2.2	U
1024-57-3-----	Heptachlor Epoxide	7.2	B
72-43-5-----	Methoxychlor	22	U
8001-35-2-----	Toxaphene	220	U
12674-11-2-----	Aroclor-1016	170	U
11104-28-2-----	Aroclor-1221	220	U
11141-16-5-----	Aroclor-1232	170	U
53469-21-9-----	Aroclor-1242	120	U
12672-29-6-----	Aroclor-1248	120	U
11097-69-1-----	Aroclor-1254	120	U
11096-82-5-----	Aroclor-1260	170	U
53494-70-5-----	Endrin Ketone	22	U
5103-74-2-----	gamma-Chlordane	2.2	U
5103-71-9-----	alpha-Chlordane	1.9	JP

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB11B

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-12

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

LABORATORY ANALYSIS DATA SHEETS

BORING 6SB12

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB12A

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTYCase No.: Q1701

SAS No.: _____

SDG No.: R1701Matrix (soil/water): WATERLab Sample ID: R1701-9Level (low/med): LOWDate Received: 11/16/00% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	399	B		P
7440-43-9	Cadmium	0.98	B	N	P
7440-47-3	Chromium	4.0	B	N	P
7439-92-1	Lead	69.5	B	NE	P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	8.6	B		P
7440-22-4	Silver	0.40	U	N	P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB12B

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-9Level (low/med): LOWDate Received: 11/16/00% Solids: 73.1Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	49600			P
7440-36-0	Antimony	0.45	U	N	P
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	68.1			P
7440-41-7	Beryllium	1.4			P
7440-43-9	Cadmium	0.44	B		P
7440-70-2	Calcium	518			P
7440-47-3	Chromium	33.6		N	P
7440-48-4	Cobalt	11.4			P
7440-50-8	Copper	38.1			P
7439-89-6	Iron	20500			P
7439-92-1	Lead	9.9			P
7439-95-4	Magnesium	55500			P
7439-96-5	Manganese	317		N*	P
7439-97-6	Mercury	0.036	B		CV
7440-02-0	Nickel	20.1			P
7440-09-7	Potassium	21200		E	P
7782-49-2	Selenium	0.50	U		P
7440-22-4	Silver	0.30	B		P
7440-23-5	Sodium	34.3	U		P
7440-28-0	Thallium	1.2	B		P
7440-62-2	Vanadium	63.7		N	P
7440-66-6	Zinc	57.5			P

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB12A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-9

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-9A59

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB12B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-9

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: Q1701-9B56

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. 27

Date Analyzed: 11/22/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	13	U
75-01-4-----	Vinyl Chloride	13	U
74-83-9-----	Bromomethane	13	U
75-00-3-----	Chloroethane	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-15-0-----	Carbon disulfide	13	U
67-64-1-----	Acetone	17	
75-09-2-----	Methylene Chloride	21	
75-34-3-----	1,1-Dichloroethane	13	U
78-93-3-----	2-butanone	13	U
67-66-3-----	Chloroform	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
71-43-2-----	Benzene	13	U
107-06-2-----	1,2-Dichloroethane	13	U
79-01-6-----	Trichloroethene	13	U
78-87-5-----	1,2-Dichloropropane	13	U
75-27-4-----	Bromodichloromethane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
108-10-1-----	4-Methyl-2-pentanone	13	U
108-88-3-----	Toluene	4	J
10061-02-6-----	trans-1,3-Dichloropropene	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
127-18-4-----	Tetrachloroethene	13	U
591-78-6-----	2-hexanone	13	U
124-48-1-----	Dibromochloromethane	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
75-25-2-----	Bromoform	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
1330-20-7-----	Xylene (total)	13	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB12A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-9

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-9A64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
110-86-1-----	Pyridine	50	U	
106-46-7-----	1,4-Dichlorobenzene	50	U	
95-48-7-----	2-Methylphenol	50	U	
108-39-4-----	3-Methylphenol	50	U	
106-44-5-----	4-Methylphenol	50	U	
67-72-1-----	Hexachloroethane	50	U	
98-95-3-----	Nitrobenzene	50	U	
87-68-3-----	Hexachlorobutadiene	50	U	
88-06-2-----	2,4,6-Trichlorophenol	50	U	
95-95-4-----	2,4,5-Trichlorophenol	50	U	
121-14-2-----	2,4-Dinitrotoluene	50	U	
118-74-1-----	Hexachlorobenzene	50	U	
87-86-5-----	Pentachlorophenol	100	U	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB12ARE

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-9

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-9RA64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/28/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB12B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-9

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-9A64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	450	U
111-44-4-----	Bis(2-chloroethyl)ether	450	U
95-57-8-----	2-Chlorophenol	450	U
541-73-1-----	1,3-Dichlorobenzene	450	U
106-46-7-----	1,4-Dichlorobenzene	450	U
95-50-1-----	1,2-Dichlorobenzene	450	U
95-48-7-----	2-Methylphenol	450	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----	4-Methylphenol	450	U
621-64-7-----	N-Nitroso-di-N-propylamine	450	U
67-72-1-----	Hexachloroethane	450	U
98-95-3-----	Nitrobenzene	450	U
78-59-1-----	Isophorone	450	U
88-75-5-----	2-Nitrophenol	450	U
105-67-9-----	2,4-Dimethylphenol	450	U
111-91-1-----	Bis(2-chloroethoxy)methane	450	U
120-83-2-----	2,4-Dichlorophenol	450	U
120-82-1-----	1,2,4-Trichlorobenzene	450	U
91-20-3-----	Naphthalene	450	U
106-47-8-----	4-Chloroaniline	450	U
87-68-3-----	Hexachlorobutadiene	450	U
59-50-7-----	4-Chloro-3-methylphenol	450	U
91-57-6-----	2-Methylnaphthalene	450	U
77-47-4-----	Hexachlorocyclopentadiene	450	U
88-06-2-----	2,4,6-Trichlorophenol	450	U
95-95-4-----	2,4,5-Trichlorophenol	450	U
91-58-7-----	2-Chloronaphthalene	450	U
88-74-4-----	2-Nitroaniline	900	U
131-11-3-----	Dimethylphthalate	450	U
606-20-2-----	2,6-Dinitrotoluene	450	U
208-96-8-----	Acenaphthylene	450	U
99-09-2-----	3-Nitroaniline	900	U
83-32-9-----	Acenaphthene	450	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB12B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-9

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-9A64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2300	U
100-02-7-----	4-Nitrophenol	900	U
121-14-2-----	2,4-Dinitrotoluene	450	U
132-64-9-----	Dibenzofuran	450	U
84-66-2-----	Diethylphthalate	450	U
7005-72-3-----	4-Chlorophenyl-phenylether	450	U
86-73-7-----	Fluorene	450	U
100-01-6-----	4-Nitroaniline	900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	450	U
101-55-3-----	4-Bromophenyl-phenylether	450	U
118-74-1-----	Hexachlorobenzene	450	U
87-86-5-----	Pentachlorophenol	900	U
85-01-8-----	Phenanthrene	450	U
120-12-7-----	Anthracene	450	U
86-74-8-----	Carbazole	450	U
84-74-2-----	Di-n-butylphthalate	450	U
206-44-0-----	Fluoranthene	450	U
129-00-0-----	Pyrene	450	U
85-68-7-----	Butylbenzylphthalate	450	U
91-94-1-----	3,3'-Dichlorobenzidine	900	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	450	U
56-55-3-----	Benzo(a)anthracene	450	U
218-01-9-----	Chrysene	450	U
117-84-0-----	Di-n-octylphthalate	450	U
205-99-2-----	Benzo(b)fluoranthene	450	U
207-08-9-----	Benzo(k)fluoranthene	450	U
50-32-8-----	Benzo(a)pyrene	450	U
193-39-5-----	Indeno(1,2,3-c,d)pyrene	450	U
53-70-3-----	Dibenzo(a,h)anthracene	450	U
191-24-2-----	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine
FORM I SV

827AC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 24

6SB12A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-9

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	2.5	U
72-20-8-----	Endrin	1.0	U
76-44-8-----	Heptachlor	0.25	U
1024-57-3-----	Heptachlor Epoxide	0.25	U
72-43-5-----	Methoxychlor	2.5	U
8001-35-2-----	Toxaphene	25	U
12789-03-6-----	Technical Chlordane	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB12A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-9

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----	2,4-D	1.6	JBP
93-72-1-----	silvex	3.3	BP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB12B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-9

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 27 decanted: (Y/N) N

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

309-00-2-----	Aldrin	2.3	U
319-84-6-----	alpha-BHC	2.3	U
319-85-7-----	beta-BHC	4.6	U
319-86-8-----	delta-BHC	2.3	U
58-89-9-----	gamma-BHC (Lindane)	2.3	U
72-54-8-----	4,4'-DDD	9.0	U
72-55-9-----	4,4'-DDE	4.6	U
50-29-3-----	4,4'-DDT	14	U
60-57-1-----	Dieldrin	4.6	U
959-98-8-----	Endosulfan I	4.6	U
33213-65-9-----	Endosulfan II	9.0	U
1031-07-8-----	Endosulfan sulfate	9.0	U
72-20-8-----	Endrin	9.0	U
7421-93-4-----	Endrin Aldehyde	9.0	U
76-44-8-----	Heptachlor	2.3	U
1024-57-3-----	Heptachlor Epoxide	2.3	U
72-43-5-----	Methoxychlor	23	U
8001-35-2-----	Toxaphene	230	U
12674-11-2-----	Aroclor-1016	180	U
11104-28-2-----	Aroclor-1221	230	U
11141-16-5-----	Aroclor-1232	180	U
53469-21-9-----	Aroclor-1242	120	U
12672-29-6-----	Aroclor-1248	120	U
11097-69-1-----	Aroclor-1254	120	U
11096-82-5-----	Aroclor-1260	180	U
53494-70-5-----	Endrin Ketone	23	U
5103-74-2-----	gamma-Chlordane	2.3	U
5103-71-9-----	alpha-Chlordane	4.6	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB12B

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-9

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

28

LABORATORY ANALYSIS DATA SHEETS

BORING 6SB13

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB13A

Lab Name: COMPUCHEM Contract: _____
Lab Code: LIBRTY Case No.: Q1701 SAS No.: _____ SDG No.: R1701
Matrix (soil/water): WATER Lab Sample ID: R1701-13
Level (low/med): LOW Date Received: 11/17/00
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	285	B		P
7440-43-9	Cadmium	0.58	B	N	P
7440-47-3	Chromium	2.6	B	N	P
7439-92-1	Lead	41.2	B	NE	P
7439-97-6	Mercury	0.10	B		CV
7782-49-2	Selenium	6.4	B		P
7440-22-4	Silver	0.40	U	N	P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

13

SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB13B

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-13Level (low/med): LOWDate Received: 11/17/00% Solids: 70.2Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	27800			P
7440-36-0	Antimony	0.49	U	N	P
7440-38-2	Arsenic	6.5			P
7440-39-3	Barium	102			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.47	B		P
7440-70-2	Calcium	770			P
7440-47-3	Chromium	33.0		N	P
7440-48-4	Cobalt	26.4			P
7440-50-8	Copper	26.0			P
7439-89-6	Iron	40400			P
7439-92-1	Lead	40.3			P
7439-95-4	Magnesium	2780			P
7439-96-5	Manganese	1510		N*	P
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	21.5			P
7440-09-7	Potassium	1350		E	P
7782-49-2	Selenium	1.5			P
7440-22-4	Silver	1.6			P
7440-23-5	Sodium	48.3	B		P
7440-28-0	Thallium	0.70	U		P
7440-62-2	Vanadium	70.4		N	P
7440-66-6	Zinc	61.9			P

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

12

SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB13BFD

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-10Level (low/med): LOWDate Received: 11/17/00% Solids: 74.5Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30700			P
7440-36-0	Antimony	0.48	U	N	P
7440-38-2	Arsenic	6.3			P
7440-39-3	Barium	77.8			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.51	B		P
7440-70-2	Calcium	806			P
7440-47-3	Chromium	51.5		N	P
7440-48-4	Cobalt	11.8			P
7440-50-8	Copper	22.6			P
7439-89-6	Iron	38400			P
7439-92-1	Lead	19.3			P
7439-95-4	Magnesium	2540			P
7439-96-5	Manganese	583		N*	P
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	18.6			P
7440-09-7	Potassium	1300		E	P
7782-49-2	Selenium	1.9			P
7440-22-4	Silver	1.5			P
7440-23-5	Sodium	53.6	B		P
7440-28-0	Thallium	0.68	U		P
7440-62-2	Vanadium	89.9		N	P
7440-66-6	Zinc	59.2			P

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB13A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-13

Sample wt/vol: 5 (g/ml) ML

Lab File ID: R1701-13A59

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB13B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-13

Sample wt/vol: 5.5 (g/mL) G

Lab File ID: Q1701-13RB56

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. 30

Date Analyzed: 11/30/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
			Q
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-35-4	1,1-Dichloroethene	13	U
75-15-0	Carbon disulfide	13	U
67-64-1	Acetone	48	B
75-09-2	Methylene Chloride	17	B
75-34-3	1,1-Dichloroethane	13	U
78-93-3	2-butanone	2	J
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	3	JB
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
1330-20-7	Xylene (total)	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB13BFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-10

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: Q1701-10RB56

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. 26

Date Analyzed: 11/29/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	13	U
75-01-4-----	Vinyl Chloride	13	U
74-83-9-----	Bromomethane	13	U
75-00-3-----	Chloroethane	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-15-0-----	Carbon disulfide	13	U
67-64-1-----	Acetone	37	B
75-09-2-----	Methylene Chloride	17	B
75-34-3-----	1,1-Dichloroethane	13	U
78-93-3-----	2-butanone	3	J
67-66-3-----	Chloroform	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
71-43-2-----	Benzene	13	U
107-06-2-----	1,2-Dichloroethane	13	U
79-01-6-----	Trichloroethene	13	U
78-87-5-----	1,2-Dichloropropane	13	U
75-27-4-----	Bromodichloromethane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
108-10-1-----	4-Methyl-2-pentanone	13	U
108-88-3-----	Toluene	2	JB
10061-02-6-----	trans-1,3-Dichloropropene	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
127-18-4-----	Tetrachloroethene	13	U
591-78-6-----	2-hexanone	13	U
124-48-1-----	Dibromochloromethane	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
75-25-2-----	Bromoform	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
1330-20-7-----	Xylene (total)	13	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB13A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-13

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-13A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/24/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
110-86-1-----	Pyridine	50	U	
106-46-7-----	1,4-Dichlorobenzene	50	U	
95-48-7-----	2-Methylphenol	50	U	
108-39-4-----	3-Methylphenol	50	U	
106-44-5-----	4-Methylphenol	50	U	
67-72-1-----	Hexachloroethane	50	U	
98-95-3-----	Nitrobenzene	50	U	
87-68-3-----	Hexachlorobutadiene	50	U	
88-06-2-----	2,4,6-Trichlorophenol	50	U	
95-95-4-----	2,4,5-Trichlorophenol	50	U	
121-14-2-----	2,4-Dinitrotoluene	50	U	
118-74-1-----	Hexachlorobenzene	50	U	
87-86-5-----	Pentachlorophenol	100	U	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB13ARE

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-13

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-13RA64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/29/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
110-86-1	Pyridine	50	U	
106-46-7	1,4-Dichlorobenzene	50	U	
95-48-7	2-Methylphenol	50	U	
108-39-4	3-Methylphenol	50	U	
106-44-5	4-Methylphenol	50	U	
67-72-1	Hexachloroethane	50	U	
98-95-3	Nitrobenzene	50	U	
87-68-3	Hexachlorobutadiene	50	U	
88-06-2	2,4,6-Trichlorophenol	50	U	
95-95-4	2,4,5-Trichlorophenol	50	U	
121-14-2	2,4-Dinitrotoluene	50	U	
118-74-1	Hexachlorobenzene	50	U	
87-86-5	Pentachlorophenol	100	U	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB13B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-13

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-13A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: 30 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	470	U
111-44-4	Bis(2-chloroethyl) ether	470	U
95-57-8	2-Chlorophenol	470	U
541-73-1	1,3-Dichlorobenzene	470	U
106-46-7	1,4-Dichlorobenzene	470	U
95-50-1	1,2-Dichlorobenzene	470	U
95-48-7	2-Methylphenol	470	U
108-60-1	2,2'-oxybis(1-Chloropropane)	470	U
106-44-5	4-Methylphenol	470	U
621-64-7	N-Nitroso-di-N-propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2,4-Dimethylphenol	470	U
111-91-1	Bis(2-chloroethoxy) methane	470	U
120-83-2	2,4-Dichlorophenol	470	U
120-82-1	1,2,4-Trichlorobenzene	470	U
91-20-3	Naphthalene	470	U
106-47-8	4-Chloroaniline	470	U
87-68-3	Hexachlorobutadiene	470	U
59-50-7	4-Chloro-3-methylphenol	470	U
91-57-6	2-Methylnaphthalene	470	U
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2,4,6-Trichlorophenol	470	U
95-95-4	2,4,5-Trichlorophenol	470	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	940	U
131-11-3	Dimethylphthalate	470	U
606-20-2	2,6-Dinitrotoluene	470	U
208-96-8	Acenaphthylene	470	U
99-09-2	3-Nitroaniline	940	U
83-32-9	Acenaphthene	470	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB13B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-13

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-13A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: 30 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
51-28-5-----	2,4-Dinitrophenol	2400 U
100-02-7-----	4-Nitrophenol	940 U
121-14-2-----	2,4-Dinitrotoluene	470 U
132-64-9-----	Dibenzofuran	470 U
84-66-2-----	Diethylphthalate	470 U
7005-72-3-----	4-Chlorophenyl-phenylether	470 U
86-73-7-----	Fluorene	470 U
100-01-6-----	4-Nitroaniline	940 U
534-52-1-----	4,6-Dinitro-2-methylphenol	940 U
86-30-6-----	N-Nitrosodiphenylamine (1)	470 U
101-55-3-----	4-Bromophenyl-phenylether	470 U
118-74-1-----	Hexachlorobenzene	470 U
87-86-5-----	Pentachlorophenol	940 U
85-01-8-----	Phenanthrene	470 U
120-12-7-----	Anthracene	470 U
86-74-8-----	Carbazole	470 U
84-74-2-----	Di-n-butylphthalate	470 U
206-44-0-----	Fluoranthene	470 U
129-00-0-----	Pyrene	470 U
85-68-7-----	Butylbenzylphthalate	470 U
91-94-1-----	3,3'-Dichlorobenzidine	940 U
117-81-7-----	bis(2-ethylhexyl) Phthalate	470 U
56-55-3-----	Benzo(a) anthracene	470 U
218-01-9-----	Chrysene	470 U
117-84-0-----	Di-n-octylphthalate	470 U
205-99-2-----	Benzo(b) fluoranthene	470 U
207-08-9-----	Benzo(k) fluoranthene	470 U
50-32-8-----	Benzo(a) pyrene	470 U
193-39-5-----	Indeno(1,2,3-c,d) pyrene	470 U
53-70-3-----	Dibenzo(a,h) anthracene	470 U
191-24-2-----	Benzo(g,h,i) perylene	470 U

(1) - Cannot be separated from Diphenylamine
FORM I SV

827

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 241

6SB13BFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-10

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-10JA64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: 26 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/20/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	450	U
111-44-4-----	Bis(2-chloroethyl) ether	450	U
95-57-8-----	2-Chlorophenol	450	U
541-73-1-----	1,3-Dichlorobenzene	450	U
106-46-7-----	1,4-Dichlorobenzene	450	U
95-50-1-----	1,2-Dichlorobenzene	450	U
95-48-7-----	2-Methylphenol	450	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----	4-Methylphenol	450	U
621-64-7-----	N-Nitroso-di-N-propylamine	450	U
67-72-1-----	Hexachloroethane	450	U
98-95-3-----	Nitrobenzene	450	U
78-59-1-----	Isophorone	450	U
88-75-5-----	2-Nitrophenol	450	U
105-67-9-----	2,4-Dimethylphenol	450	U
111-91-1-----	Bis(2-chloroethoxy)methane	450	U
120-83-2-----	2,4-Dichlorophenol	450	U
120-82-1-----	1,2,4-Trichlorobenzene	450	U
91-20-3-----	Naphthalene	450	U
106-47-8-----	4-Chloroaniline	450	U
87-68-3-----	Hexachlorobutadiene	450	U
59-50-7-----	4-Chloro-3-methylphenol	450	U
91-57-6-----	2-Methylnaphthalene	450	U
77-47-4-----	Hexachlorocyclopentadiene	450	U
88-06-2-----	2,4,6-Trichlorophenol	450	U
95-95-4-----	2,4,5-Trichlorophenol	450	U
91-58-7-----	2-Chloronaphthalene	450	U
88-74-4-----	2-Nitroaniline	890	U
131-11-3-----	Dimethylphthalate	450	U
606-20-2-----	2,6-Dinitrotoluene	450	U
208-96-8-----	Acenaphthylene	450	U
99-09-2-----	3-Nitroaniline	890	U
83-32-9-----	Acenaphthene	450	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB13BFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-10

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-10JA64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: 26 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/20/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	2300	U
100-02-7-----	4-Nitrophenol	890	U
121-14-2-----	2,4-Dinitrotoluene	450	U
132-64-9-----	Dibenzofuran	450	U
84-66-2-----	Diethylphthalate	450	U
7005-72-3-----	4-Chlorophenyl-phenylether	450	U
86-73-7-----	Fluorene	450	U
100-01-6-----	4-Nitroaniline	890	U
534-52-1-----	4,6-Dinitro-2-methylphenol	890	U
86-30-6-----	N-Nitrosodiphenylamine (1)	450	U
101-55-3-----	4-Bromophenyl-phenylether	450	U
118-74-1-----	Hexachlorobenzene	450	U
87-86-5-----	Pentachlorophenol	890	U
85-01-8-----	Phenanthrene	450	U
120-12-7-----	Anthracene	450	U
86-74-8-----	Carbazole	450	U
84-74-2-----	Di-n-butylphthalate	450	U
206-44-0-----	Fluoranthene	450	U
129-00-0-----	Pyrene	450	U
85-68-7-----	Butylbenzylphthalate	450	U
91-94-1-----	3,3'-Dichlorobenzidine	890	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	66	J
56-55-3-----	Benzo(a) anthracene	450	U
218-01-9-----	Chrysene	450	U
117-84-0-----	Di-n-octylphthalate	450	U
205-99-2-----	Benzo(b) fluoranthene	450	U
207-08-9-----	Benzo(k) fluoranthene	450	U
50-32-8-----	Benzo(a) pyrene	450	U
193-39-5-----	Indeno(1,2,3-c,d)pyrene	450	U
53-70-3-----	Dibenzo(a,h) anthracene	450	U
191-24-2-----	Benzo(g,h,i) perylene	450	U

(1) - Cannot be separated from Diphenylamine

FORM I SV

82725

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 763

6SB13A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-13

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	2.5	U
72-20-8-----	Endrin	1.0	U
76-44-8-----	Heptachlor	0.25	U
1024-57-3-----	Heptachlor Epoxide	0.25	U
72-43-5-----	Methoxychlor	2.5	U
8001-35-2-----	Toxaphene	25	U
12789-03-6-----	Technical Chlordane	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB13A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-13

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----	2,4-D	0.46	JBP
93-72-1-----	silvex	0.18	JBP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB13B

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: Q1701

Matrix: (soil/water) SOIL Lab Sample ID: Q1701-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 30 decanted: (Y/N) N Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2-----	Aldrin	2.4	U
319-84-6-----	alpha-BHC	2.4	U
319-85-7-----	beta-BHC	4.8	U
319-86-8-----	delta-BHC	2.4	U
58-89-9-----	gamma-BHC (Lindane)	0.97	JP
72-54-8-----	4,4'-DDD	9.4	U
72-55-9-----	4,4'-DDE	4.8	U
50-29-3-----	4,4'-DDT	14	U
60-57-1-----	Dieldrin	4.8	U
959-98-8-----	Endosulfan I	4.8	U
33213-65-9-----	Endosulfan II	9.4	U
1031-07-8-----	Endosulfan sulfate	9.4	U
72-20-8-----	Endrin	9.4	U
7421-93-4-----	Endrin Aldehyde	9.4	U
76-44-8-----	Heptachlor	2.4	U
1024-57-3-----	Heptachlor Epoxide	2.4	U
72-43-5-----	Methoxychlor	24	U
8001-35-2-----	Toxaphene	240	U
12674-11-2-----	Aroclor-1016	180	U
11104-28-2-----	Aroclor-1221	240	U
11141-16-5-----	Aroclor-1232	180	U
53469-21-9-----	Aroclor-1242	130	U
12672-29-6-----	Aroclor-1248	130	U
11097-69-1-----	Aroclor-1254	130	U
11096-82-5-----	Aroclor-1260	180	U
53494-70-5-----	Endrin Ketone	24	U
5103-74-2-----	gamma-Chlordane	2.4	U
5103-71-9-----	alpha-Chlordane	4.8	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB13BFD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-10

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 26 decanted: (Y/N) N

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

309-00-2-----	Aldrin	2.2	U
319-84-6-----	alpha-BHC	2.2	U
319-85-7-----	beta-BHC	4.6	U
319-86-8-----	delta-BHC	1.6	JPB
58-89-9-----	gamma-BHC (Lindane)	2.2	U
72-54-8-----	4,4'-DDD	8.9	U
72-55-9-----	4,4'-DDE	4.6	U
50-29-3-----	4,4'-DDT	14	U
60-57-1-----	Dieldrin	4.6	U
959-98-8-----	Endosulfan I	4.6	U
33213-65-9-----	Endosulfan II	8.9	U
1031-07-8-----	Endosulfan sulfate	8.9	U
72-20-8-----	Endrin	8.9	U
7421-93-4-----	Endrin Aldehyde	8.9	U
76-44-8-----	Heptachlor	2.2	U
1024-57-3-----	Heptachlor Epoxide	2.2	U
72-43-5-----	Methoxychlor	22	U
8001-35-2-----	Toxaphene	220	U
12674-11-2-----	Aroclor-1016	180	U
11104-28-2-----	Aroclor-1221	230	U
11141-16-5-----	Aroclor-1232	180	U
53469-21-9-----	Aroclor-1242	120	U
12672-29-6-----	Aroclor-1248	120	U
11097-69-1-----	Aroclor-1254	120	U
11096-82-5-----	Aroclor-1260	180	U
53494-70-5-----	Endrin Ketone	22	U
5103-74-2-----	gamma-Chlordane	2.2	U
5103-71-9-----	alpha-Chlordane	4.6	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB13B

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-13

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB13BFD

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-10

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

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LABORATORY ANALYSIS DATA SHEETS

BORING 6SB14

TCLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB14A

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTYCase No.: Q1701

SAS No.: _____

SDG No.: R1701Matrix (soil/water): WATERLab Sample ID: R1701-14Level (low/med): LOWDate Received: 11/17/00% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U	N	P
7440-39-3	Barium	642	B		P
7440-43-9	Cadmium	0.76	B	N	P
7440-47-3	Chromium	13.4	B	N	P
7439-92-1	Lead	420	B	NE	P
7439-97-6	Mercury	0.11	B		CV
7782-49-2	Selenium	13.0	B		P
7440-22-4	Silver	0.40	U	N	P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

SW-846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB14B

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: Q1701Matrix (soil/water): SOILLab Sample ID: Q1701-14Level (low/med): LOWDate Received: 11/17/00% Solids: 73.1Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35700			P
7440-36-0	Antimony	0.48	U	N	P
7440-38-2	Arsenic	6.2			P
7440-39-3	Barium	58.9			P
7440-41-7	Beryllium	1.8			P
7440-43-9	Cadmium	0.44	B		P
7440-70-2	Calcium	632			P
7440-47-3	Chromium	33.7		N	P
7440-48-4	Cobalt	8.2			P
7440-50-8	Copper	27.4			P
7439-89-6	Iron	30800			P
7439-92-1	Lead	15.0			P
7439-95-4	Magnesium	22600			P
7439-96-5	Manganese	253		N*	P
7439-97-6	Mercury	0.077			CV
7440-02-0	Nickel	23.2			P
7440-09-7	Potassium	9210		E	P
7782-49-2	Selenium	0.64	B		P
7440-22-4	Silver	0.90			P
7440-23-5	Sodium	36.7	U		P
7440-28-0	Thallium	0.68	U		P
7440-62-2	Vanadium	65.7		N	P
7440-66-6	Zinc	53.9			P

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOW

Clarity After: _____

Artifacts: _____

Comments: _____

14

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB14A

Lab Name: COMPUCHEM Contract: 6SB14A

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: R1701

Matrix: (soil/water) WATER Lab Sample ID: R1701-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: R1701-14A59

Level: (low/med) LOW Date Received: 11/17/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
			Q
75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB14B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-14

Sample wt/vol: 4.7 (g/mL) G

Lab File ID: Q1701-14B56

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. 27

Date Analyzed: 11/29/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	15	U
75-01-4-----	Vinyl Chloride	15	U
74-83-9-----	Bromomethane	15	U
75-00-3-----	Chloroethane	15	U
75-35-4-----	1,1-Dichloroethene	15	U
75-15-0-----	Carbon disulfide	15	U
67-64-1-----	Acetone	48	B
75-09-2-----	Methylene Chloride	13	JB
75-34-3-----	1,1-Dichloroethane	15	U
78-93-3-----	2-butanone	4	J
67-66-3-----	Chloroform	15	U
71-55-6-----	1,1,1-Trichloroethane	15	U
56-23-5-----	Carbon Tetrachloride	15	U
71-43-2-----	Benzene	15	U
107-06-2-----	1,2-Dichloroethane	15	U
79-01-6-----	Trichloroethene	15	U
78-87-5-----	1,2-Dichloropropane	15	U
75-27-4-----	Bromodichloromethane	15	U
10061-01-5-----	cis-1,3-Dichloropropene	15	U
108-10-1-----	4-Methyl-2-pentanone	15	U
108-88-3-----	Toluene	2	JB
10061-02-6-----	trans-1,3-Dichloropropene	15	U
79-00-5-----	1,1,2-Trichloroethane	15	U
127-18-4-----	Tetrachloroethene	15	U
591-78-6-----	2-hexanone	15	U
124-48-1-----	Dibromochloromethane	15	U
108-90-7-----	Chlorobenzene	15	U
100-41-4-----	Ethylbenzene	15	U
100-42-5-----	Styrene	15	U
75-25-2-----	Bromoform	15	U
79-34-5-----	1,1,2,2-Tetrachloroethane	15	U
540-59-0-----	1,2-Dichloroethene (total)	15	U
1330-20-7-----	Xylene (total)	15	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 203

6SB14A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-14

Sample wt/vol: 100 (g/mL) ML

Lab File ID: R1701-14A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/24/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB14B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-14

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-14A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	Bis(2-chloroethyl) ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-N-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	Bis(2-chloroethoxy) methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	860	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	860	U
83-32-9	Acenaphthene	430	U

FORM I SV

827

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

6SB14B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-14

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q1701-14A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: ____

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2200	U
100-02-7-----	4-Nitrophenol	860	U
121-14-2-----	2,4-Dinitrotoluene	430	U
132-64-9-----	Dibenzofuran	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	430	U
100-01-6-----	4-Nitroaniline	860	U
534-52-1-----	4,6-Dinitro-2-methylphenol	860	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	860	U
85-01-8-----	Phenanthrene	430	U
120-12-7-----	Anthracene	430	U
86-74-8-----	Carbazole	430	U
84-74-2-----	Di-n-butylphthalate	430	U
206-44-0-----	Fluoranthene	430	U
129-00-0-----	Pyrene	430	U
85-68-7-----	Butylbenzylphthalate	430	U
91-94-1-----	3,3'-Dichlorobenzidine	860	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	430	U
56-55-3-----	Benzo(a)anthracene	430	U
218-01-9-----	Chrysene	430	U
117-84-0-----	Di-n-octylphthalate	430	U
205-99-2-----	Benzo(b)fluoranthene	430	U
207-08-9-----	Benzo(k)fluoranthene	430	U
50-32-8-----	Benzo(a)pyrene	430	U
193-39-5-----	Indeno(1,2,3-c,d)pyrene	430	U
53-70-3-----	Dibenzo(a,h)anthracene	430	U
191-24-2-----	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine

FORM I SV

8270C

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB14A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-14

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/22/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	0.10	J
72-20-8-----	Endrin	1.0	U
76-44-8-----	Heptachlor	6.8	EP
1024-57-3-----	Heptachlor Epoxide	0.25	U
72-43-5-----	Methoxychlor	2.5	U
8001-35-2-----	Toxaphene	25	U
12789-03-6-----	Technical Chlordane	25	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 8

6SB14ADL

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-14

Sample wt/vol: 100.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/29/00

Injection Volume: 2.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

58-89-9-----	gamma-BHC (Lindane)	0.10	DJ
72-20-8-----	Endrin	5.0	U
76-44-8-----	Heptachlor	1.9	DP
1024-57-3-----	Heptachlor Epoxide	1.2	U
72-43-5-----	Methoxychlor	12	U
8001-35-2-----	Toxaphene	120	U
12789-03-6-----	Technical Chlordane	120	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB14A

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: R1701-14

Sample wt/vol: 100.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

94-75-7-----2,4-D		3.2	JBP
93-72-1-----silvex		0.14	JBP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB14B

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-14

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 27 decanted: (Y/N) N

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

309-00-2-----	Aldrin	2.3	U
319-84-6-----	alpha-BHC	2.3	U
319-85-7-----	beta-BHC	2.7	JPB
319-86-8-----	delta-BHC	2.3	U
58-89-9-----	gamma-BHC (Lindane)	2.3	U
72-54-8-----	4,4'-DDD	9.0	U
72-55-9-----	4,4'-DDE	4.6	U
50-29-3-----	4,4'-DDT	14	U
60-57-1-----	Dieldrin	4.6	U
959-98-8-----	Endosulfan I	4.6	U
33213-65-9-----	Endosulfan II	9.0	U
1031-07-8-----	Endosulfan sulfate	9.0	U
72-20-8-----	Endrin	9.0	U
7421-93-4-----	Endrin Aldehyde	9.0	U
76-44-8-----	Heptachlor	2.3	U
1024-57-3-----	Heptachlor Epoxide	14	PB
72-43-5-----	Methoxychlor	23	U
8001-35-2-----	Toxaphene	230	U
12674-11-2-----	Aroclor-1016	180	U
11104-28-2-----	Aroclor-1221	230	U
11141-16-5-----	Aroclor-1232	180	U
53469-21-9-----	Aroclor-1242	120	U
12672-29-6-----	Aroclor-1248	120	U
11097-69-1-----	Aroclor-1254	120	U
11096-82-5-----	Aroclor-1260	180	U
53494-70-5-----	Endrin Ketone	23	U
5103-74-2-----	gamma-Chlordane	2.3	U
5103-71-9-----	alpha-Chlordane	4.6	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6SB14B

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: Q1701-14

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	1.5	U
99-35-4-----	1,3,5-Trinitrobenzene	1.0	U
121-82-4-----	RDX	1.0	U
99-65-0-----	1,3-Dinitrobenzene	1.0	U
118-96-7-----	2,4,6-Trinitrotoluene	1.0	U
479-45-8-----	Tetryl	1.5	U
98-95-3-----	Nitrobenzene	1.0	U
121-14-2-----	2,4-Dinitrotoluene	1.0	U
606-20-2-----	2,6-Dinitrotoluene	1.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	1.5	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	1.5	U
88-72-2-----	2-Nitrotoluene	1.5	U
99-99-0-----	4-Nitrotoluene	1.5	U
99-08-1-----	3-Nitrotoluene	1.5	U

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LABORATORY ANALYSIS DATA SHEETS
INVESTIGATIVE DERIVED MATERIAL

SW846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDMSWMU6

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: U1701

Matrix (soil/water): WATER Lab Sample ID: U1701-1

Level (low/med): LOW Date Received: 11/17/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6	B		P
7440-39-3	Barium	56.8	B	E	P
7440-43-9	Cadmium	0.32	B		P
7440-47-3	Chromium	20.9	B		P
7439-92-1	Lead	40.5	B		P
7439-97-6	Mercury	0.11	B		CV
7782-49-2	Selenium	5.2	B		P
7440-22-4	Silver	0.40	U		P

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

SW846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

LEACH BLK

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: U1701Matrix (soil/water): WATERLab Sample ID: WG7037-1Level (low/med): LOWDate Received: 11/17/00% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	0.89	B	E	P
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	0.60	U		P
7439-92-1	Lead	2.1	U		P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	0.40	U		P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

SW846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

IDMSWMU6

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: T1701

Matrix (soil/water): WATER

Lab Sample ID: T1701-1

Level (low/med): LOW

Date Received: 11/17/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	534	B		P
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	5.3	B		P
7439-92-1	Lead	48.3	B		P
7439-97-6	Mercury	0.48	B		CV
7782-49-2	Selenium	14.0	B		P
7440-22-4	Silver	0.40	U		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

SW846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

LEACH BLK

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: T1701Matrix (soil/water): WATERLab Sample ID: WG7029-1Level (low/med): LOWDate Received: 11/17/00% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	2.0	B		P
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	0.69	B		P
7439-92-1	Lead	25.1	B		P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	12.2	B		P
7440-22-4	Silver	0.40	U		P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 169

IDMSWMU6

Lab Name: COMPUCHEM Contract: _____
Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: U1701
Matrix: (soil/water) WATER Lab Sample ID: U1701-1
Sample wt/vol: 5 (g/ml) ML Lab File ID: U1701-1A59
Level: (low/med) LOW Date Received: 11/17/00
% Moisture: not dec. _____ Date Analyzed: 11/21/00
GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
75-01-4-----	Vinyl Chloride	25	U	
75-35-4-----	1,1-Dichloroethene	25	U	
78-93-3-----	2-butanone	63	U	
67-66-3-----	Chloroform	25	U	
56-23-5-----	Carbon Tetrachloride	25	U	
71-43-2-----	Benzene	25	U	
107-06-2-----	1,2-Dichloroethane	25	U	
79-01-6-----	Trichloroethene	25	U	
127-18-4-----	Tetrachloroethene	25	U	
108-90-7-----	Chlorobenzene	25	U	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

IDMSWMU6MS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: U1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7039-6

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG7039-6A59

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	510	
75-35-4-----	1,1-Dichloroethene	690	
78-93-3-----	2-butanone	530	
67-66-3-----	Chloroform	570	
56-23-5-----	Carbon Tetrachloride	580	
71-43-2-----	Benzene	540	
107-06-2-----	1,2-Dichloroethane	530	
79-01-6-----	Trichloroethene	540	
127-18-4-----	Tetrachloroethene	510	
108-90-7-----	Chlorobenzene	530	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 21

IDMSWMU6MSD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: U1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7039-7

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG7039-7A59

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

75-01-4-----	Vinyl Chloride	520	
75-35-4-----	1,1-Dichloroethene	690	
78-93-3-----	2-butanone	550	
67-66-3-----	Chloroform	570	
56-23-5-----	Carbon Tetrachloride	570	
71-43-2-----	Benzene	540	
107-06-2-----	1,2-Dichloroethane	550	
79-01-6-----	Trichloroethene	540	
127-18-4-----	Tetrachloroethene	510	
108-90-7-----	Chlorobenzene	540	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

IDMSWMU6

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T1701

Matrix: (soil/water) WATER

Lab Sample ID: T1701-1

Sample wt/vol: 5 (g/ml) ML

Lab File ID: T1701-1A59

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

IDMSWMU6MS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7038-6

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG7038-6A59

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	510	
75-35-4-----	1,1-Dichloroethene	670	
78-93-3-----	2-butanone	410	
67-66-3-----	Chloroform	550	
56-23-5-----	Carbon Tetrachloride	560	
71-43-2-----	Benzene	540	
107-06-2-----	1,2-Dichloroethane	520	
79-01-6-----	Trichloroethene	540	
127-18-4-----	Tetrachloroethene	510	
108-90-7-----	Chlorobenzene	520	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

IDMSWMU6MSD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7038-7

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG7038-7A59

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

75-01-4-----	Vinyl Chloride	480	
75-35-4-----	1,1-Dichloroethene	650	
78-93-3-----	2-butanone	480	
67-66-3-----	Chloroform	570	
56-23-5-----	Carbon Tetrachloride	550	
71-43-2-----	Benzene	540	
107-06-2-----	1,2-Dichloroethane	550	
79-01-6-----	Trichloroethene	530	
127-18-4-----	Tetrachloroethene	510	
108-90-7-----	Chlorobenzene	520	

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 42

IDMSWMU6

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: U1701

Matrix: (soil/water) WATER

Lab Sample ID: U1701-1

Sample wt/vol: 100 (g/mL) ML

Lab File ID: U1701-1RB64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/21/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

IDMSWMU6MS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: U1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7101-5

Sample wt/vol: 100 (g/mL) ML

Lab File ID: WG7101-5RB64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/21/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	150	
106-46-7-----	1,4-Dichlorobenzene	140	
95-48-7-----	2-Methylphenol	110	
108-39-4-----	3-Methylphenol	160	
106-44-5-----	4-Methylphenol	160	
67-72-1-----	Hexachloroethane	120	
98-95-3-----	Nitrobenzene	160	
87-68-3-----	Hexachlorobutadiene	130	
88-06-2-----	2,4,6-Trichlorophenol	48	J
95-95-4-----	2,4,5-Trichlorophenol	62	
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	210	
87-86-5-----	Pentachlorophenol	100	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 377

IDMSWMU6MSD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: U1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7101-6

Sample wt/vol: 100 (g/mL) ML

Lab File ID: WG7101-6RB64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/21/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

110-86-1-----	Pyridine	99	
106-46-7-----	1,4-Dichlorobenzene	120	
95-48-7-----	2-Methylphenol	140	
108-39-4-----	3-Methylphenol	250	
106-44-5-----	4-Methylphenol	250	
67-72-1-----	Hexachloroethane	120	
98-95-3-----	Nitrobenzene	150	
87-68-3-----	Hexachlorobutadiene	110	
88-06-2-----	2,4,6-Trichlorophenol	92	
95-95-4-----	2,4,5-Trichlorophenol	110	
121-14-2-----	2,4-Dinitrotoluene	65	
118-74-1-----	Hexachlorobenzene	170	
87-86-5-----	Pentachlorophenol	15	J

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

IDMSWMU6

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T1701

Matrix: (soil/water) WATER

Lab Sample ID: T1701-1

Sample wt/vol: 100 (g/mL) ML

Lab File ID: T1701-1RB64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/21/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/21/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-48-7-----	2-Methylphenol	50	U
108-39-4-----	3-Methylphenol	50	U
106-44-5-----	4-Methylphenol	50	U
67-72-1-----	Hexachloroethane	50	U
98-95-3-----	Nitrobenzene	50	U
87-68-3-----	Hexachlorobutadiene	50	U
88-06-2-----	2,4,6-Trichlorophenol	50	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	50	U
118-74-1-----	Hexachlorobenzene	50	U
87-86-5-----	Pentachlorophenol	100	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 178

IDMSWU6MS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7101-3

Sample wt/vol: 100 (g/mL) ML

Lab File ID: WG7101-3RB64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/21/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	41	J
106-46-7-----	1,4-Dichlorobenzene	120	
95-48-7-----	2-Methylphenol	66	
108-39-4-----	3-Methylphenol	100	
106-44-5-----	4-Methylphenol	100	
67-72-1-----	Hexachloroethane	130	
98-95-3-----	Nitrobenzene	150	
87-68-3-----	Hexachlorobutadiene	120	
88-06-2-----	2,4,6-Trichlorophenol	120	
95-95-4-----	2,4,5-Trichlorophenol	110	
121-14-2-----	2,4-Dinitrotoluene	90	
118-74-1-----	Hexachlorobenzene	200	
87-86-5-----	Pentachlorophenol	52	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

IDMSWMU6MSD

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7101-4

Sample wt/vol: 100 (g/mL) ML

Lab File ID: WG7101-4RB64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/21/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	86	
106-46-7-----	1,4-Dichlorobenzene	130	
95-48-7-----	2-Methylphenol	69	
108-39-4-----	3-Methylphenol	110	
106-44-5-----	4-Methylphenol	110	
67-72-1-----	Hexachloroethane	130	
98-95-3-----	Nitrobenzene	160	
87-68-3-----	Hexachlorobutadiene	130	
88-06-2-----	2,4,6-Trichlorophenol	120	
95-95-4-----	2,4,5-Trichlorophenol	120	
121-14-2-----	2,4-Dinitrotoluene	110	
118-74-1-----	Hexachlorobenzene	210	
87-86-5-----	Pentachlorophenol	31	J

LABORATORY ANALYSIS DATA SHEETS

**CORROSIVITY, pH, IGNITABILITY
AND PAINT FILTER TEST**

CORROSIVITY (AS PH) ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (Standard pH units)	REPORTING LIMIT (Standard pH units)
1.	6SB7A	R1701-2	6.66	N/A
2.	6SB3A	R1701-1	5.96	N/A
3.	6SB4A	R1701-3	5.65	N/A
4.	6SB5A	R1701-4	6.42	N/A
5.	6SB6A	R1701-5	6.71	N/A
6.	6SB6AFD	R1701-6	6.65	N/A
7.	6SB8A	R1701-7	6.90	N/A
8.	6SB9A	R1701-8	7.00	N/A
9.	6SB12A	R1701-9	7.18	N/A
10.	6SB10A	R1701-10	6.33	N/A
11.	6SB10AFD	R1701-11	6.30	N/A
12.	6SB11A	R1701-12	6.70	N/A
13.	6SB13A	R1701-13	6.89	N/A
14.	6SB14A	R1701-14	6.59	N/A

BRL = BELOW REPORTING LIMIT

Reviewed by/ID#: R. J. Jones 12405 Date: 11/29/00

IGNITABILITY ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (degree F)	REPORTING LIMIT (degree F)
1.	6SB7A	R1701-2	> 140	68
2.	6SB3A	R1701-1	> 140	68
3.	6SB4A	R1701-3	> 140	68
4.	6SB5A	R1701-4	> 140	68
5.	6SB6A	R1701-5	> 140	68
6.	6SB6AFD	R1701-6	> 140	68
7.	6SB8A	R1701-7	> 140	68
8.	6SB9A	R1701-8	> 140	68
9.	6SB12A	R1701-9	> 140	68
10.	6SB10A	R1701-10	> 140	68
11.	6SB10AFD	R1701-11	> 140	68
12.	6SB11A	R1701-12	> 140	68
13.	6SB13A	R1701-13	> 140	68
14.	6SB14A	R1701-14	> 140	68

BRL = BELOW REPORTING LIMIT

Reviewed by/ID#: R. J. Jones 12405 Date: 11/29/00

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PAINT FILTER ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	FREE LIQUIDS (Yes/No)
1.	6SB7A	R1701-2	NO
2.	6SB3A	R1701-1	NO
3.	6SB4A	R1701-3	NO
4.	6SB5A	R1701-4	NO
5.	6SB6A	R1701-5	NO
6.	6SB6AFD	R1701-6	NO
7.	6SB8A	R1701-7	NO
8.	6SB9A	R1701-8	NO
9.	6SB12A	R1701-9	NO
10.	6SB10A	R1701-10	NO
11.	6SB10AFD	R1701-11	NO
12.	6SB11A	R1701-12	NO
13.	6SB13A	R1701-13	NO
14.	6SB14A	R1701-14	NO

BRL = BELOW REPORTING LIMIT

Reviewed by/ID#: R. J. George / 2405 11/29/00

ANALYTICAL REPORT OF DATA - CASE # T1701

SUBMITTED TO:

Mr. Bob Shaffer

URS

5540 Falmouth Street

Suite 201

Richmond, VA 23230

LABORATORY CHRONICLE - CORROSIVITY (AS PH) ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	IDMSWMU6	T1701-1	11/17/00	11/21/00

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ANALYTICAL REPORT OF DATA - CASE # T1701

SUBMITTED TO:
Mr. Bob Shaffer
URS
5540 Falmouth Street
Suite 201
Richmond, VA 23230

LABORATORY CHRONICLE - PAINT FILTER ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	IDMSWMU6	T1701-1	11/17/00	11/21/00

IGNITABILITY ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (degree F)	REPORTING LIMIT (degree F)
1.	IDMSWMU6	T1701-1	> 140	68

BRL = BELOW REPORTING LIMIT

Reviewed by/ID#: R. J. George 12405 Date: 11/22/00

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CORROSIVITY (AS PH) ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (Standard pH units)	REPORTING LIMIT (Standard pH units)
1.	IDMSWMU6	T1701-1	6.92	N/A

BRL = BELOW REPORTING LIMIT

Reviewed by/ID#: R. George / 2405 Date: 11/22/00

PAINT FILTER ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	Free Liquids (Yes/No)
1.	IDMSWMU6	T1701-1	NO

BRL = BELOW REPORTING LIMIT

Reviewed by/ID#: Ruiz / 2405 Date: 11/22/00

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**IGNITABILITY ANALYSIS
QUALITY CONTROL REPORT**

CASE: T1701
MATRIX: SOIL

Analyst: 2441
Date Analyzed: 11/21/00

BLANK SPIKE			
COMPUCHEM #	TRUE VALUE (degree F)	OBSERVED RESULT (degree F)	BS ACCEPTANCE LIMITS
WG7134-2	81	81.4	79 - 83

ORIG. SAMPLE COMPUCHEM #: T1701-1	
SAMPLE DUPLICATE (DUP) COMPUCHEM #: WG7134-3	
SAMPLE CONC. (degree F)	DUP CONC. (degree F)
> 140	> 140

RPD = RELATIVE PERCENT DIFFERENCE

BRL = BELOW REPORTING LIMIT

**CORROSIVITY (AS PH) ANALYSIS
QUALITY CONTROL REPORT**

CASE: T1701
MATRIX: SOIL

Analyst:2441
Date Analyzed:11/21/00

BLANK SPIKE			
COMPUCHEM #	TRUE VALUE (Standard pH units)	OBSERVED RESULT (Standard pH units)	BS ACCEPTANCE LIMITS
WG7134-2	9.09	8.99	8.89 - 9.29

ORIG. SAMPLE COMPUCHEM #: T1701-1		
SAMPLE DUPLICATE (DUP) COMPUCHEM #: WG7134-3		
SAMPLE CONC. (Standard pH units)	DUP CONC. (Standard pH units)	RPD
6.9	7.1	2.0

RPD = RELATIVE PERCENT DIFFERENCE
BRL = BELOW REPORTING LIMIT

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ANALYTICAL REPORT OF DATA - CASE # U1701

SUBMITTED TO:

Mr. Bob Shaffer

URS

5540 Falmouth Street

Suite 201

Richmond, VA 23230

LABORATORY CHRONICLE - PH IN WATER ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	IDMSWMU6	U1701-1	11/17/00	11/21/00

ANALYTICAL REPORT OF DATA - CASE # U1701

SUBMITTED TO:
Mr. Bob Shaffer
URS
5540 Falmouth Street
Suite 201
Richmond, VA 23230

LABORATORY CHRONICLE - IGNITABILITY ANALYSIS

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	DATE SAMPLE RECEIVED	DATE ANALYSIS COMPLETED
1.	IDMSWMU6	U1701-1	11/17/00	11/21/00

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PH IN WATER ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (Standard pH units)	REPORTING LIMIT (Standard pH units)
1.	IDMSWMU6	U1701-1	7.16	N/A

BRL = BELOW REPORTING LIMIT

Reviewed by/ID#: R. Dege 12405 Date: 11/22/02

IGNITABILITY ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	RESULT (degree F)	REPORTING LIMIT (degree F)
1.	IDMSWMU6	U1701-1	> 140	68

BRL = BELOW REPORTING LIMIT

Reviewed by/ID#: R. J. George 17405 Date: 11/22/00

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PH IN WATER ANALYSIS
QUALITY CONTROL REPORT

CASE: U1701
MATRIX: WATER

Analyst: 2441
Date Analyzed: 11/21/00

BLANK SPIKE			
COMPUCHEM #	TRUE VALUE (Standard pH units)	OBSERVED RESULT (Standard pH units)	BS ACCEPTANCE LIMITS
WG7130-2	9.09	8.99	8.89 - 9.29

ORIG. SAMPLE COMPUCHEM #: U1701-1		
SAMPLE DUPLICATE (DUP) COMPUCHEM #: WG7130-3		
SAMPLE CONC. (Standard pH units)	DUP CONC. (Standard pH units)	RPD
7.2	7.2	1.0

RPD = RELATIVE PERCENT DIFFERENCE
BRL = BELOW REPORTING LIMIT

IGNITABILITY ANALYSIS
QUALITY CONTROL REPORT

CASE: U1701
MATRIX: WATER

Analyst:2441
Date Analyzed:11/21/00

BLANK SPIKE			
COMPUCHEM #	TRUE VALUE (degree F)	OBSERVED RESULT (degree F)	BS ACCEPTANCE LIMITS
WG7130-2	81	81.4	79 - 83

ORIG. SAMPLE COMPUCHEM #: U1701-1	
SAMPLE DUPLICATE (DUP) COMPUCHEM #: WG7130-3	
SAMPLE CONC. (degree F)	DUP CONC. (degree F)
> 140	> 140

RPD = RELATIVE PERCENT DIFFERENCE
BRL = BELOW REPORTING LIMIT

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LABORATORY ANALYSIS DATA SHEETS

REACTIVITY

602

Sample ID	SWMUG	MUD DIRT
Batch	JERRY RITTER	11/21/00
Charge Code	08650156AA01.00	
Notes	L1096742	65B13

MOISTURE

L1096742

DISH + SAMPLE WT	66.3269
DISH WT	50.3299
SAMPLE WT	15.997
DISH + SAMPLE WT (AFTER DRYING)	63.9571
WT LOSS	2.3698
% MOISTURE	14.81

REACTIVITY

SAMPLE NUMBER	L1096742
SAMPLE WT	11.6514

NQU	<1PPM
HMX	<2 PPM
RDX	<2 PPM
DEGDN	<2 PPM
NG	<1 PPM
DNT	<1 PPM
AK II	<1 PPM
MC	<1 PPM

NC	no NC detected by microscope
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Sample ID	SWMUG	MUD DIRT
Batch	JERRY RITTER	11/21/00
Charge Code	08650156AA01.00	
Notes	L1096743	65B7

MOISTURE**L1096743**

DISH + SAMPLE WT	63.3791
DISH WT	51.7423
SAMPLE WT	11.6368
DISH + SAMPLE WT (AFTER DRYING)	61.2975
WT LOSS	2.0816
% MOISTURE	17.89

REACTIVITY

SAMPLE NUMBER	L1096743
SAMPLE WT	8.6777 GM

NQU	<1PPM
HMX	<2 PPM
RDX	<2 PPM
DEGDN	<2 PPM
NG	<1 PPM
DNT	<1 PPM
AK II	<1 PPM
MC	<1 PPM

NC	no NC detected by microscope
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LABORATORY ANALYSIS DATA SHEETS
RINSE BLANKS AND TRIP BLANKS

SW846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

111400R

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: S1701Matrix (soil/water): WATERLab Sample ID: S1701-1Level (low/med): LOWDate Received: 11/15/00% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	27.1	U		P
7440-36-0	Antimony	2.3	B		P
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	3.1	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	25.0	U		P
7440-47-3	Chromium	0.60	U		P
7440-48-4	Cobalt	1.0	B		P
7440-50-8	Copper	0.90	U		P
7439-89-6	Iron	11.2	B		P
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium	11.1	B		P
7439-96-5	Manganese	1.6	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.80	U		P
7440-03-7	Potassium	23.0	U		P
7782-43-2	Selenium	4.3	U		P
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	746	B		P
7440-23-0	Thallium	5.7	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	115			P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

SW846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

111500R

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: S1701Matrix (soil/water): WATERLab Sample ID: S1701-3Level (low/med): LOWDate Received: 11/16/00% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	27.1	U		P
7440-36-0	Antimony	2.3	U		P
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	1.4	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	25.0	U		P
7440-47-3	Chromium	0.60	U		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	0.90	U		P
7439-89-6	Iron	16.9	B		P
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium	9.8	B		P
7439-96-5	Manganese	1.2	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.80	U		P
7440-03-7	Potassium	23.0	U		P
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	871	B		P
7440-28-0	Thallium	5.7	U		P
7440-38-2	Vanadium	0.70	U		P
7440-66-6	Zinc	1.2	U		P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

SW846 METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

111600R

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: S1701Matrix (soil/water): WATERLab Sample ID: S1701-5Level (low/med): LOWDate Received: 11/17/00% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	27.1	U		P
7440-35-0	Antimony	2.3	U		P
7440-38-2	Arsenic	3.4	U		P
7440-38-3	Barium	0.72	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	25.0	U		P
7440-47-3	Chromium	0.60	U		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	0.90	U		P
7439-89-6	Iron	15.1	B		P
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium	7.6	U		P
7439-96-5	Manganese	1.3	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.80	U		P
7440-09-7	Potassium	23.0	U		P
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	752	B		P
7440-28-0	Thallium	5.7	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	1.2	U		P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

111400R

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-1

Sample wt/vol: 5 (g/ml) ML

Lab File ID: S1701-1RA59

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: not dec. _____

Date Analyzed: 11/28/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	2	J
67-64-1	Acetone	5	JB
75-09-2	Methylene Chloride	5	JB
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	1	JB
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

111400TB

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-2

Sample wt/vol: 5 (g/ml) ML

Lab File ID: S1701-2RA59

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: not dec. _____

Date Analyzed: 11/28/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
67-64-1	Acetone	4	JB
75-09-2	Methylene Chloride	4	JB
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

111500R

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-3

Sample wt/vol: 5 (g/ml) ML

Lab File ID: S1701-3RA59

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. _____

Date Analyzed: 11/28/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
75-01-4-----	Vinyl Chloride	10	U
74-83-9-----	Bromomethane	10	U
75-00-3-----	Chloroethane	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-15-0-----	Carbon disulfide	10	U
67-64-1-----	Acetone	3	JB
75-09-2-----	Methylene Chloride	6	JB
75-34-3-----	1,1-Dichloroethane	10	U
78-93-3-----	2-butanone	10	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
71-43-2-----	Benzene	10	U
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	10	U
78-87-5-----	1,2-Dichloropropane	10	U
75-27-4-----	Bromodichloromethane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
108-88-3-----	Toluene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
591-78-6-----	2-hexanone	10	U
124-48-1-----	Dibromochloromethane	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
1330-20-7-----	Xylene (total)	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

111500TB

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-4

Sample wt/vol: 5 (g/ml) ML

Lab File ID: S1701-4RA59

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: not dec. _____

Date Analyzed: 11/28/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
75-01-4-----	Vinyl Chloride	10	U
74-83-9-----	Bromomethane	10	U
75-00-3-----	Chloroethane	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-15-0-----	Carbon disulfide	10	U
67-64-1-----	Acetone	2	JB
75-09-2-----	Methylene Chloride	5	JB
75-34-3-----	1,1-Dichloroethane	10	U
78-93-3-----	2-butanone	10	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
71-43-2-----	Benzene	10	U
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	10	U
78-87-5-----	1,2-Dichloropropane	10	U
75-27-4-----	Bromodichloromethane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
108-88-3-----	Toluene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
591-78-6-----	2-hexanone	10	U
124-48-1-----	Dibromochloromethane	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
1330-20-7-----	Xylene (total)	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

111600R

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-5

Sample wt/vol: 5 (g/ml) ML

Lab File ID: S1701-5RA59

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: not dec. _____

Date Analyzed: 11/28/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
75-01-4-----	Vinyl Chloride	10	U
74-83-9-----	Bromomethane	10	U
75-00-3-----	Chloroethane	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-15-0-----	Carbon disulfide	1	J
67-64-1-----	Acetone	4	JB
75-09-2-----	Methylene Chloride	5	JB
75-34-3-----	1,1-Dichloroethane	10	U
78-93-3-----	2-butanone	10	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
71-43-2-----	Benzene	10	U
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	10	U
78-87-5-----	1,2-Dichloropropane	10	U
75-27-4-----	Bromodichloromethane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
108-88-3-----	Toluene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
591-78-6-----	2-hexanone	10	U
124-48-1-----	Dibromochloromethane	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
1330-20-7-----	Xylene (total)	10	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 413

111400R

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-1

Sample wt/vol: 500 (g/mL) ML

Lab File ID: S1701-1A60

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/15/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/16/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

108-95-2-----	Phenol	10	U
111-44-4-----	Bis(2-chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-N-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	Bis(2-chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	20	U
131-11-3-----	Dimethylphthalate	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
208-96-8-----	Acenaphthylene	10	U
99-09-2-----	3-Nitroaniline	20	U
83-32-9-----	Acenaphthene	10	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

111400R

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-1

Sample wt/vol: 500 (g/mL) ML

Lab File ID: S1701-1A60

Level: (low/med) LOW

Date Received: 11/15/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/15/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/16/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	20	U
121-14-2-----	2,4-Dinitrotoluene	10	U
132-64-9-----	Dibenzofuran	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol	20	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	20	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	10	U
56-55-3-----	Benzo (a) anthracene	10	U
218-01-9-----	Chrysene	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo (b) fluoranthene	10	U
207-08-9-----	Benzo (k) fluoranthene	10	U
50-32-8-----	Benzo (a) pyrene	10	U
193-39-5-----	Indeno (1,2,3-c,d) pyrene	10	U
53-70-3-----	Dibenzo (a,h) anthracene	10	U
191-24-2-----	Benzo (g,h,i) perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 45

111500R

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1703-3

Sample wt/vol: 1050 (g/mL) ML

Lab File ID: S1701-3A64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

108-95-2-----	Phenol	10	U
111-44-4-----	Bis (2-chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis (1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-N-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	Bis (2-chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	19	U
131-11-3-----	Dimethylphthalate	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
208-96-8-----	Acenaphthylene	10	U
99-09-2-----	3-Nitroaniline	19	U
83-32-9-----	Acenaphthene	10	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

111500R

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1703-3

Sample wt/vol: 1050 (g/mL) ML

Lab File ID: S1701-3A64

Level: (low/med) LOW

Date Received: 11/16/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	48	U
100-02-7-----	4-Nitrophenol	19	U
121-14-2-----	2,4-Dinitrotoluene	10	U
132-64-9-----	Dibenzofuran	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	19	U
534-52-1-----	4,6-Dinitro-2-methylphenol	19	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	19	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	19	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	10	U
56-55-3-----	Benzo(a) anthracene	10	U
218-01-9-----	Chrysene	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b) fluoranthene	10	U
207-08-9-----	Benzo(k) fluoranthene	10	U
50-32-8-----	Benzo(a) pyrene	10	U
193-39-5-----	Indeno(1,2,3-c,d) pyrene	10	U
53-70-3-----	Dibenzo(a,h) anthracene	10	U
191-24-2-----	Benzo(g,h,i) perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 47

111600R

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-5

Sample wt/vol: 1050 (g/mL) ML

Lab File ID: S1701-5A64

Level: (low/med) LOW

Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/22/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/27/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

108-95-2-----	Phenol	10	U
111-44-4-----	Bis (2-chloroethyl) ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis (1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-N-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	Bis (2-chloroethoxy) methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	19	U
131-11-3-----	Dimethylphthalate	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
208-96-8-----	Acenaphthylene	10	U
99-09-2-----	3-Nitroaniline	19	U
83-32-9-----	Acenaphthene	10	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

111600R

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: S1701

Matrix: (soil/water) WATER Lab Sample ID: S1701-5

Sample wt/vol: 1050 (g/mL) ML Lab File ID: S1701-5A64

Level: (low/med) LOW Date Received: 11/17/00

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 11/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/27/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

51-28-5-----	2,4-Dinitrophenol	48	U
100-02-7-----	4-Nitrophenol	19	U
121-14-2-----	2,4-Dinitrotoluene	10	U
132-64-9-----	Dibenzofuran	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	19	U
534-52-1-----	4,6-Dinitro-2-methylphenol	19	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	19	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	19	U
117-81-7-----	bis(2-ethylhexyl) Phthalate	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-c,d)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine
FORM I SV

8270C

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 49

111400R

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-1

Sample wt/vol: 925.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/16/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/17/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

309-00-2-----	Aldrin	0.036	JP
319-84-6-----	alpha-BHC	0.0074	JPB
319-85-7-----	beta-BHC	0.11	U
319-86-8-----	delta-BHC	0.054	U
58-89-9-----	gamma-BHC (Lindane)	0.054	U
72-54-8-----	4,4'-DDD	0.22	U
72-55-9-----	4,4'-DDE	0.042	JPB
50-29-3-----	4,4'-DDT	0.32	U
60-57-1-----	Dieldrin	0.11	U
959-98-8-----	Endosulfan I	0.11	U
33213-65-9-----	Endosulfan II	0.22	U
1031-07-8-----	Endosulfan sulfate	0.22	U
72-20-8-----	Endrin	0.22	U
7421-93-4-----	Endrin Aldehyde	0.22	U
76-44-8-----	Heptachlor	0.018	JPB
1024-57-3-----	Heptachlor Epoxide	0.038	JPB
72-43-5-----	Methoxychlor	0.54	U
8001-35-2-----	Toxaphene	5.4	U
12674-11-2-----	Aroclor-1016	1.1	U
11104-28-2-----	Aroclor-1221	2.2	U
11141-16-5-----	Aroclor-1232	1.1	U
53469-21-9-----	Aroclor-1242	1.1	U
12672-29-6-----	Aroclor-1248	1.1	U
11097-69-1-----	Aroclor-1254	1.1	U
11096-82-5-----	Aroclor-1260	1.1	U
53494-70-5-----	Endrin Ketone	0.54	U
5103-74-2-----	gamma-Chlordane	0.0069	JPB
5103-71-9-----	alpha-Chlordane	0.045	JPB

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

111500R

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-3

Sample wt/vol: 925.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/21/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

309-00-2-----Aldrin	0.054	U
319-84-6-----alpha-BHC	0.0093	JPB
319-85-7-----beta-BHC	0.026	JPB
319-86-8-----delta-BHC	0.0073	J
58-89-9-----gamma-BHC (Lindane)	0.0093	JP
72-54-8-----4,4'-DDD	0.22	U
72-55-9-----4,4'-DDE	0.068	JPB
50-29-3-----4,4'-DDT	0.0095	J
60-57-1-----Dieldrin	0.0049	J
959-98-8-----Endosulfan I	0.11	U
33213-65-9-----Endosulfan II	0.22	U
1031-07-8-----Endosulfan sulfate	0.22	U
72-20-8-----Endrin	0.22	U
7421-93-4-----Endrin Aldehyde	0.22	U
76-44-8-----Heptachlor	0.027	JPB
1024-57-3-----Heptachlor Epoxide	0.021	JB
72-43-5-----Methoxychlor	0.54	U
8001-35-2-----Toxaphene	5.4	U
12674-11-2-----Aroclor-1016	1.1	U
11104-28-2-----Aroclor-1221	2.2	U
11141-16-5-----Aroclor-1232	1.1	U
53469-21-9-----Aroclor-1242	1.1	U
12672-29-6-----Aroclor-1248	1.1	U
11097-69-1-----Aroclor-1254	1.1	U
11096-82-5-----Aroclor-1260	1.1	U
53494-70-5-----Endrin Ketone	0.010	JP
5103-74-2-----gamma-Chlordane	0.0050	JPB
5103-71-9-----alpha-Chlordane	0.0045	JPB

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 67

111500RRE

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-3

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/29/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/29/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

309-00-2-----	Aldrin	0.0082	JPB
319-84-6-----	alpha-BHC	0.0097	JPB
319-85-7-----	beta-BHC	0.10	U
319-86-8-----	delta-BHC	0.0026	JP
58-89-9-----	gamma-BHC (Lindane)	0.0030	JP
72-54-8-----	4,4'-DDD	0.20	U
72-55-9-----	4,4'-DDE	0.023	JB
50-29-3-----	4,4'-DDT	0.30	U
60-57-1-----	Dieldrin	0.10	U
959-98-8-----	Endosulfan I	0.10	U
33213-65-9-----	Endosulfan II	0.20	U
1031-07-8-----	Endosulfan sulfate	0.20	U
72-20-8-----	Endrin	0.20	U
7421-93-4-----	Endrin Aldehyde	0.20	U
76-44-8-----	Heptachlor	0.010	JPB
1024-57-3-----	Heptachlor Epoxide	0.012	JPB
72-43-5-----	Methoxychlor	0.50	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U
53494-70-5-----	Endrin Ketone	0.50	U
5103-74-2-----	gamma-Chlordane	0.0093	JPB
5103-71-9-----	alpha-Chlordane	0.060	JPB

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

111600R

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-5

Sample wt/vol: 940.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/21/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

309-00-2-----	Aldrin	0.014	JP
319-84-6-----	alpha-BHC	0.0024	J
319-85-7-----	beta-BHC	0.0090	JPB
319-86-8-----	delta-BHC	0.053	U
58-89-9-----	gamma-BHC (Lindane)	0.053	U
72-54-8-----	4,4'-DDD	0.21	U
72-55-9-----	4,4'-DDE	0.11	U
50-29-3-----	4,4'-DDT	0.32	U
60-57-1-----	Dieldrin	0.11	U
959-98-8-----	Endosulfan I	0.11	U
33213-65-9-----	Endosulfan II	0.21	U
1031-07-8-----	Endosulfan sulfate	0.21	U
72-20-8-----	Endrin	0.21	U
7421-93-4-----	Endrin Aldehyde	0.21	U
76-44-8-----	Heptachlor	0.018	JPB
1024-57-3-----	Heptachlor Epoxide	0.014	JPB
72-43-5-----	Methoxychlor	0.53	U
8001-35-2-----	Toxaphene	5.3	U
12674-11-2-----	Aroclor-1016	1.1	U
11104-28-2-----	Aroclor-1221	2.1	U
11141-16-5-----	Aroclor-1232	1.1	U
53469-21-9-----	Aroclor-1242	1.1	U
12672-29-6-----	Aroclor-1248	1.1	U
11097-69-1-----	Aroclor-1254	1.1	U
11096-82-5-----	Aroclor-1260	1.1	U
53494-70-5-----	Endrin Ketone	0.53	U
5103-74-2-----	gamma-Chlordane	0.010	JPB
5103-71-9-----	alpha-Chlordane	0.11	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 423

111600RRE

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-5

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/29/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/29/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2-----	Aldrin	0.0072	JPB
319-84-6-----	alpha-BHC	0.013	JPB
319-85-7-----	beta-BHC	0.011	JP
319-86-8-----	delta-BHC	0.0020	J
58-89-9-----	gamma-BHC (Lindane)	0.0026	JP
72-54-8-----	4,4'-DDD	0.20	U
72-55-9-----	4,4'-DDE	0.053	JP
50-29-3-----	4,4'-DDT	0.30	U
60-57-1-----	Dieldrin	0.10	U
959-98-8-----	Endosulfan I	0.10	U
33213-65-9-----	Endosulfan II	0.20	U
1031-07-8-----	Endosulfan sulfate	0.20	U
72-20-8-----	Endrin	0.20	U
7421-93-4-----	Endrin Aldehyde	0.20	U
76-44-8-----	Heptachlor	0.011	JPB
1024-57-3-----	Heptachlor Epoxide	0.0092	JB
72-43-5-----	Methoxychlor	0.50	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U
53494-70-5-----	Endrin Ketone	0.50	U
5103-74-2-----	gamma-Chlordane	0.0080	JB
5103-71-9-----	alpha-Chlordane	0.053	JPB

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

111400R

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-1

Sample wt/vol: 770.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/15/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/16/00

Concentrated Extract Volume: 21000 (ul)

Date Analyzed: 11/29/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

2691-41-0-----	HMX	4.2	U
99-35-4-----	1,3,5-Trinitrobenzene	2.1	U
121-82-4-----	RDX	5.2	U
99-65-0-----	1,3-Dinitrobenzene	2.1	U
118-96-7-----	2,4,6-Trinitrotoluene	4.2	U
479-45-8-----	Tetryl	4.2	U
98-95-3-----	Nitrobenzene	3.2	U
121-14-2-----	2,4-Dinitrotoluene	5.2	U
606-20-2-----	2,6-Dinitrotoluene	5.2	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	6.3	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	4.2	U
88-72-2-----	2-Nitrotoluene	5.2	U
99-99-0-----	4-Nitrotoluene	5.2	U
99-08-1-----	3-Nitrotoluene	4.2	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

111500R

Lab Name: COMPUCHEM Contract: 8330

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: S1701

Matrix: (soil/water) WATER Lab Sample ID: S1701-3

Sample wt/vol: 770.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____ Date Received: 11/16/00

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/20/00

Concentrated Extract Volume: 14000 (ul) Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

2691-41-0-----	HMX	2.8	U
99-35-4-----	1,3,5-Trinitrobenzene	1.4	U
121-82-4-----	RDX	3.5	U
99-65-0-----	1,3-Dinitrobenzene	1.4	U
118-96-7-----	2,4,6-Trinitrotoluene	2.8	U
479-45-8-----	Tetryl	2.8	U
98-95-3-----	Nitrobenzene	2.1	U
121-14-2-----	2,4-Dinitrotoluene	3.5	U
606-20-2-----	2,6-Dinitrotoluene	3.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	4.2	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	2.8	U
88-72-2-----	2-Nitrotoluene	3.5	U
99-99-0-----	4-Nitrotoluene	3.5	U
99-08-1-----	3-Nitrotoluene	2.8	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

111600R

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: S1701-5

Sample wt/vol: 770.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 11/17/00

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 14000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

2691-41-0-----	HMX	2.8	U
99-35-4-----	1,3,5-Trinitrobenzene	1.4	U
121-82-4-----	RDX	3.5	U
99-65-0-----	1,3-Dinitrobenzene	1.4	U
118-96-7-----	2,4,6-Trinitrotoluene	2.8	U
479-45-8-----	Tetryl	2.8	U
98-95-3-----	Nitrobenzene	2.1	U
121-14-2-----	2,4-Dinitrotoluene	3.5	U
606-20-2-----	2,6-Dinitrotoluene	3.5	U
35572-78-2-----	2-Amino-4,6-dinitrotoluene	4.2	U
1946-51-0-----	4-Amino-2,6-dinitrotoluene	2.8	U
88-72-2-----	2-Nitrotoluene	3.5	U
99-99-0-----	4-Nitrotoluene	3.5	U
99-08-1-----	3-Nitrotoluene	2.8	U

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LABORATORY ANALYSIS DATA SHEETS

LABORATORY CONTROL SAMPLES

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VZXLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7027-4

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG7028-4A59

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 11/20/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

75-01-4-----	Vinyl Chloride	97	
75-35-4-----	1,1-Dichloroethene	130	
78-93-3-----	2-butanone	100	
67-66-3-----	Chloroform	110	
56-23-5-----	Carbon Tetrachloride	110	
71-43-2-----	Benzene	110	
107-06-2-----	1,2-Dichloroethane	100	
79-01-6-----	Trichloroethene	110	
127-18-4-----	Tetrachloroethene	100	
108-90-7-----	Chlorobenzene	110	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. _____

VZYLCS

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7028-5

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG7028-5A59

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-01-4-----	Vinyl Chloride	99	_____
75-35-4-----	1,1-Dichloroethene	130	_____
78-93-3-----	2-butanone	78	_____
67-66-3-----	Chloroform	110	_____
56-23-5-----	Carbon Tetrachloride	110	_____
71-43-2-----	Benzene	110	_____
107-06-2-----	1,2-Dichloroethane	110	_____
79-01-6-----	Trichloroethene	100	_____
127-18-4-----	Tetrachloroethene	100	_____
108-90-7-----	Chlorobenzene	100	_____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ZHEBLKVL

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG6975-1

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG6975-1A59

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 11/20/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
75-01-4-----	Vinyl Chloride	25	U	
75-35-4-----	1,1-Dichloroethene	25	U	
78-93-3-----	2-butanone	63	U	
67-66-3-----	Chloroform	25	U	
56-23-5-----	Carbon Tetrachloride	25	U	
71-43-2-----	Benzene	25	U	
107-06-2-----	1,2-Dichloroethane	25	U	
79-01-6-----	Trichloroethene	25	U	
127-18-4-----	Tetrachloroethene	25	U	
108-90-7-----	Chlorobenzene	25	U	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ZHEBLKWJ

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7055-1

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG7055-1A59

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 439

VBDLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG7092-4

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: WG7092-4B56

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	10	U
75-01-4-----	Vinyl Chloride	10	U
74-83-9-----	Bromomethane	10	U
75-00-3-----	Chloroethane	10	U
75-35-4-----	1,1-Dichloroethene	44	
75-15-0-----	Carbon disulfide	10	U
67-64-1-----	Acetone	10	U
75-09-2-----	Methylene Chloride	10	U
75-34-3-----	1,1-Dichloroethane	10	U
78-93-3-----	2-butanone	10	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
71-43-2-----	Benzene	45	
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	43	
78-87-5-----	1,2-Dichloropropane	10	U
75-27-4-----	Bromodichloromethane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
108-88-3-----	Toluene	41	
10061-02-6-----	trans-1,3-Dichloropropene	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
591-78-6-----	2-hexanone	10	U
124-48-1-----	Dibromochloromethane	10	U
108-90-7-----	Chlorobenzene	43	
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
1330-20-7-----	Xylene (total)	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VCOLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG7138-5

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: WG7138-5B56P881

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 11/28/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	10	U
75-01-4-----	Vinyl Chloride	10	U
74-83-9-----	Bromomethane	10	U
75-00-3-----	Chloroethane	10	U
75-35-4-----	1,1-Dichloroethene	46	
75-15-0-----	Carbon disulfide	10	U
67-64-1-----	Acetone	10	U
75-09-2-----	Methylene Chloride	5	JB
75-34-3-----	1,1-Dichloroethane	10	U
78-93-3-----	2-butanone	10	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
71-43-2-----	Benzene	47	
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	45	
78-87-5-----	1,2-Dichloropropane	10	U
75-27-4-----	Bromodichloromethane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
108-88-3-----	Toluene	47	
10061-02-6-----	trans-1,3-Dichloropropene	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
591-78-6-----	2-hexanone	10	U
124-48-1-----	Dibromochloromethane	10	U
108-90-7-----	Chlorobenzene	47	
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
1330-20-7-----	Xylene (total)	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 44

VYDLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG6971-4

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: WG6971-4B56P881

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 11/29/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

74-87-3-----	Chloromethane	10	U
75-01-4-----	Vinyl Chloride	10	U
74-83-9-----	Bromomethane	10	U
75-00-3-----	Chloroethane	10	U
75-35-4-----	1,1-Dichloroethene	49	
75-15-0-----	Carbon disulfide	10	U
67-64-1-----	Acetone	10	U
75-09-2-----	Methylene Chloride	3	JB
75-34-3-----	1,1-Dichloroethane	10	U
78-93-3-----	2-butanone	10	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
71-43-2-----	Benzene	48	
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	45	
78-87-5-----	1,2-Dichloropropane	10	U
75-27-4-----	Bromodichloromethane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
108-88-3-----	Toluene	46	B
10061-02-6-----	trans-1,3-Dichloropropene	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
591-78-6-----	2-hexanone	10	U
124-48-1-----	Dibromochloromethane	10	U
108-90-7-----	Chlorobenzene	46	
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
1330-20-7-----	Xylene (total)	10	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SWELCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7041-2

Sample wt/vol: 500 (g/mL) ML

Lab File ID: WG7041-2A64

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
			Q
110-86-1-----	Pyridine	21	
106-46-7-----	1,4-Dichlorobenzene	26	
95-48-7-----	2-Methylphenol	39	
108-39-4-----	3-Methylphenol	65	
106-44-5-----	4-Methylphenol	65	
67-72-1-----	Hexachloroethane	26	
98-95-3-----	Nitrobenzene	29	
87-68-3-----	Hexachlorobutadiene	25	
88-06-2-----	2,4,6-Trichlorophenol	36	
95-95-4-----	2,4,5-Trichlorophenol	33	
121-14-2-----	2,4-Dinitrotoluene	16	
118-74-1-----	Hexachlorobenzene	38	
87-86-5-----	Pentachlorophenol	19	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SXNLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7173-2

Sample wt/vol: 500 (g/mL) ML

Lab File ID: WG7173-2A64

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/26/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/28/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	31	_____
106-46-7-----	1,4-Dichlorobenzene	33	_____
95-48-7-----	2-Methylphenol	41	_____
108-39-4-----	3-Methylphenol	73	_____
106-44-5-----	4-Methylphenol	73	_____
67-72-1-----	Hexachloroethane	24	_____
98-95-3-----	Nitrobenzene	38	_____
87-68-3-----	Hexachlorobutadiene	35	_____
88-06-2-----	2,4,6-Trichlorophenol	44	_____
95-95-4-----	2,4,5-Trichlorophenol	46	_____
121-14-2-----	2,4-Dinitrotoluene	34	_____
118-74-1-----	Hexachlorobenzene	45	_____
87-86-5-----	Pentachlorophenol	30	_____

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TCLPBLKUV

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7029-1

Sample wt/vol: 250 (g/mL) ML

Lab File ID: WG7029-1A64

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	20	U
106-46-7-----	1,4-Dichlorobenzene	20	U
95-48-7-----	2-Methylphenol	20	U
108-39-4-----	3-Methylphenol	20	U
106-44-5-----	4-Methylphenol	20	U
67-72-1-----	Hexachloroethane	20	U
98-95-3-----	Nitrobenzene	20	U
87-68-3-----	Hexachlorobutadiene	20	U
88-06-2-----	2,4,6-Trichlorophenol	20	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
121-14-2-----	2,4-Dinitrotoluene	20	U
118-74-1-----	Hexachlorobenzene	20	U
87-86-5-----	Pentachlorophenol	40	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 48

TCLPBLKVC

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG6946-1

Sample wt/vol: 250 (g/mL) ML

Lab File ID: WG6946-1A64

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	20	U
106-46-7-----	1,4-Dichlorobenzene	20	U
95-48-7-----	2-Methylphenol	20	U
108-39-4-----	3-Methylphenol	20	U
106-44-5-----	4-Methylphenol	20	U
67-72-1-----	Hexachloroethane	20	U
98-95-3-----	Nitrobenzene	20	U
87-68-3-----	Hexachlorobutadiene	20	U
88-06-2-----	2,4,6-Trichlorophenol	20	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
121-14-2-----	2,4-Dinitrotoluene	20	U
118-74-1-----	Hexachlorobenzene	20	U
87-86-5-----	Pentachlorophenol	40	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TCLPBLKV

Lab Name: COMPUCEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7029-2

Sample wt/vol: 250 (g/mL) ML

Lab File ID: WG7029-2A64

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/20/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/22/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	20	U
106-46-7-----	1,4-Dichlorobenzene	20	U
95-48-7-----	2-Methylphenol	20	U
108-39-4-----	3-Methylphenol	20	U
106-44-5-----	4-Methylphenol	20	U
67-72-1-----	Hexachloroethane	20	U
98-95-3-----	Nitrobenzene	20	U
87-68-3-----	Hexachlorobutadiene	20	U
88-06-2-----	2,4,6-Trichlorophenol	20	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
121-14-2-----	2,4-Dinitrotoluene	20	U
118-74-1-----	Hexachlorobenzene	20	U
87-86-5-----	Pentachlorophenol	40	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 64

SVSLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG6986-2

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: WG6986-2B64

Level: (low/med) LOW

Date Received: _____

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/17/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	2700	
111-44-4-----	Bis(2-chloroethyl) ether	3200	
95-57-8-----	2-Chlorophenol	3000	
541-73-1-----	1,3-Dichlorobenzene	3000	
106-46-7-----	1,4-Dichlorobenzene	3000	
95-50-1-----	1,2-Dichlorobenzene	2900	
95-48-7-----	2-Methylphenol	2900	
108-60-1-----	2,2'-oxybis(1-Chloropropane)	3300	
106-44-5-----	4-Methylphenol	5400	E
621-64-7-----	N-Nitroso-di-N-propylamine	3500	
67-72-1-----	Hexachloroethane	3100	
98-95-3-----	Nitrobenzene	3000	
78-59-1-----	Isophorone	2900	
88-75-5-----	2-Nitrophenol	2700	
105-67-9-----	2,4-Dimethylphenol	2400	
111-91-1-----	Bis(2-chloroethoxy) methane	3400	
120-83-2-----	2,4-Dichlorophenol	2900	
120-82-1-----	1,2,4-Trichlorobenzene	3100	
91-20-3-----	Naphthalene	3300	
106-47-8-----	4-Chloroaniline	1300	
87-68-3-----	Hexachlorobutadiene	3100	
59-50-7-----	4-Chloro-3-methylphenol	2900	
91-57-6-----	2-Methylnaphthalene	3000	
77-47-4-----	Hexachlorocyclopentadiene	3400	
88-06-2-----	2,4,6-Trichlorophenol	3000	
95-95-4-----	2,4,5-Trichlorophenol	3200	
91-58-7-----	2-Chloronaphthalene	3200	
88-74-4-----	2-Nitroaniline	3000	
131-11-3-----	Dimethylphthalate	3300	
606-20-2-----	2,6-Dinitrotoluene	3400	
208-96-8-----	Acenaphthylene	3400	
99-09-2-----	3-Nitroaniline	2000	
83-32-9-----	Acenaphthene	3500	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SVSLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG6986-2

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: WG6986-2B64

Level: (low/med) LOW

Date Received: _____

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/17/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
51-28-5-----	2,4-Dinitrophenol	1900
100-02-7-----	4-Nitrophenol	2800
121-14-2-----	2,4-Dinitrotoluene	3200
132-64-9-----	Dibenzofuran	3200
84-66-2-----	Diethylphthalate	3300
7005-72-3-----	4-Chlorophenyl-phenylether	3500
86-73-7-----	Fluorene	3500
100-01-6-----	4-Nitroaniline	2000
534-52-1-----	4,6-Dinitro-2-methylphenol	2500
86-30-6-----	N-Nitrosodiphenylamine (1)	3200
101-55-3-----	4-Bromophenyl-phenylether	3300
118-74-1-----	Hexachlorobenzene	3300
87-86-5-----	Pentachlorophenol	2800
85-01-8-----	Phenanthrene	3400
120-12-7-----	Anthracene	3500
86-74-8-----	Carbazole	3300
84-74-2-----	Di-n-butylphthalate	3300
206-44-0-----	Fluoranthene	3500
129-00-0-----	Pyrene	3700
85-68-7-----	Butylbenzylphthalate	3300
91-94-1-----	3,3'-Dichlorobenzidine	880
117-81-7-----	bis(2-ethylhexyl) Phthalate	3500
56-55-3-----	Benzo(a)anthracene	3500
218-01-9-----	Chrysene	3700
117-84-0-----	Di-n-octylphthalate	3400
205-99-2-----	Benzo(b)fluoranthene	4000
207-08-9-----	Benzo(k)fluoranthene	3400
50-32-8-----	Benzo(a)pyrene	3600
193-39-5-----	Indeno(1,2,3-c,d)pyrene	2900
53-70-3-----	Dibenzo(a,h)anthracene	3500
191-24-2-----	Benzo(g,h,i)perylene	3800

(1) - Cannot be separated from Diphenylamine
FORM I SV

82700

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 467

PWGLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7043-2

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/21/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

58-89-9-----	gamma-BHC (Lindane)	0.29	J
72-20-8-----	Endrin	0.20	U
76-44-8-----	Heptachlor	0.30	
1024-57-3-----	Heptachlor Epoxide	0.30	
72-43-5-----	Methoxychlor	0.50	U
8001-35-2-----	Toxaphene	6.8	P
12789-03-6-----	Technical Chlordane	5.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PWDLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: R1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7040-2

Sample wt/vol: 500.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 2500 (ul)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

94-75-7-----2,4-D	8.9	B
93-72-1-----silvex	0.78	B

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PWNLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG7065-2

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
309-00-2	-----Aldrin	6.4
319-84-6	-----alpha-BHC	1.7 U
319-85-7	-----beta-BHC	3.4 U
319-86-8	-----delta-BHC	1.8 PB
58-89-9	-----gamma-BHC (Lindane)	5.1
72-54-8	-----4,4'-DDD	6.6 U
72-55-9	-----4,4'-DDE	3.4 U
50-29-3	-----4,4'-DDT	18
60-57-1	-----Dieldrin	17
959-98-8	-----Endosulfan I	3.4 U
33213-65-9	-----Endosulfan II	6.6 U
1031-07-8	-----Endosulfan sulfate	6.6 U
72-20-8	-----Endrin	15
7421-93-4	-----Endrin Aldehyde	6.6 U
76-44-8	-----Heptachlor	6.3
1024-57-3	-----Heptachlor Epoxide	1.7 U
72-43-5	-----Methoxychlor	17 U
8001-35-2	-----Toxaphene	170 U
12674-11-2	-----Aroclor-1016	130 U
11104-28-2	-----Aroclor-1221	170 U
11141-16-5	-----Aroclor-1232	130 U
53469-21-9	-----Aroclor-1242	90 U
12672-29-6	-----Aroclor-1248	90 U
11097-69-1	-----Aroclor-1254	90 U
11096-82-5	-----Aroclor-1260	130 U
53494-70-5	-----Endrin Ketone	2.0 J
5103-74-2	-----gamma-Chlordane	1.7 U
5103-71-9	-----alpha-Chlordane	3.4 U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PCBLCSWN

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG7065-3

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/23/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

309-00-2-----Aldrin	1.7	U
319-84-6-----alpha-BHC	1.7	U
319-85-7-----beta-BHC	3.4	U
319-86-8-----delta-BHC	1.7	U
58-89-9-----gamma-BHC (Lindane)	1.7	U
72-54-8-----4,4'-DDD	6.6	U
72-55-9-----4,4'-DDE	3.4	U
50-29-3-----4,4'-DDT	10	U
60-57-1-----Dieldrin	3.4	U
959-98-8-----Endosulfan I	3.4	U
33213-65-9-----Endosulfan II	6.6	U
1031-07-8-----Endosulfan sulfate	6.6	U
72-20-8-----Endrin	6.6	U
7421-93-4-----Endrin Aldehyde	6.6	U
76-44-8-----Heptachlor	1.7	U
1024-57-3-----Heptachlor Epoxide	1.7	U
72-43-5-----Methoxychlor	17	U
8001-35-2-----Toxaphene	170	U
12674-11-2-----Aroclor-1016	220	P
11104-28-2-----Aroclor-1221	170	U
11141-16-5-----Aroclor-1232	130	U
53469-21-9-----Aroclor-1242	90	U
12672-29-6-----Aroclor-1248	90	U
11097-69-1-----Aroclor-1254	90	U
11096-82-5-----Aroclor-1260	150	
53494-70-5-----Endrin Ketone	17	U
5103-74-2-----gamma-Chlordane	1.7	U
5103-71-9-----alpha-Chlordane	3.4	U

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PWHLCS

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: Q1701

Matrix: (soil/water) SOIL

Lab Sample ID: WG7050-2

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N

Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 11/20/00

Concentrated Extract Volume: 10000 (ul)

Date Analyzed: 11/30/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
---------	----------	---	---

2691-41-0-----	HMX	3.7	_____
99-35-4-----	1,3,5-Trinitrobenzene	2.9	_____
121-82-4-----	RDX	2.5	_____
99-65-0-----	1,3-Dinitrobenzene	2.9	_____
118-96-7-----	2,4,6-Trinitrotoluene	2.0	_____
479-45-8-----	Tetryl	2.4	_____
98-95-3-----	Nitrobenzene	1.6	_____
121-14-2-----	2,4-Dinitrotoluene	2.4	_____
606-20-2-----	2,6-Dinitrotoluene	1.9	_____
35572-78-2-----	2-Amino-4,6-dinitrotoluene	2.4	_____
1946-51-0-----	4-Amino-2,6-dinitrotoluene	2.8	_____
88-72-2-----	2-Nitrotoluene	3.6	_____
99-99-0-----	4-Nitrotoluene	3.2	_____
99-08-1-----	3-Nitrotoluene	3.6	_____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VZYLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: U1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7028-5

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG7028-5A59

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

75-01-4-----	Vinyl Chloride	99	
75-35-4-----	1,1-Dichloroethene	130	
78-93-3-----	2-butanone	78	
67-66-3-----	Chloroform	110	
56-23-5-----	Carbon Tetrachloride	110	
71-43-2-----	Benzene	110	
107-06-2-----	1,2-Dichloroethane	110	
79-01-6-----	Trichloroethene	100	
127-18-4-----	Tetrachloroethene	100	
108-90-7-----	Chlorobenzene	100	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. *448*

ZHEBLKWC

ab Name: COMPUCHEM Contract:
Lab Code: LIBRTY Case No.: SAS No.: SDG No.: U1701
Matrix: (soil/water) WATER Lab Sample ID: WG7039-1
Sample wt/vol: 5 (g/ml) ML Lab File ID: WG7039-1A59
Level: (low/med) LOW Date Received:
% Moisture: not dec. Date Analyzed: 11/21/00
GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 5.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
75-01-4-----	Vinyl Chloride	25	U	
75-35-4-----	1,1-Dichloroethene	25	U	
78-93-3-----	2-butanone	63	U	
67-66-3-----	Chloroform	25	U	
56-23-5-----	Carbon Tetrachloride	25	U	
71-43-2-----	Benzene	25	U	
107-06-2-----	1,2-Dichloroethane	25	U	
79-01-6-----	Trichloroethene	25	U	
127-18-4-----	Tetrachloroethene	25	U	
108-90-7-----	Chlorobenzene	25	U	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VYLLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG6976-5

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG6976-5A59P881

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 11/28/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
75-01-4-----	Vinyl Chloride	10	U
74-83-9-----	Bromomethane	10	U
75-00-3-----	Chloroethane	10	U
75-35-4-----	1,1-Dichloroethene	52	
75-15-0-----	Carbon disulfide	10	U
67-64-1-----	Acetone	4	JB
75-09-2-----	Methylene Chloride	5	JB
75-34-3-----	1,1-Dichloroethane	10	U
78-93-3-----	2-butanone	10	U
67-66-3-----	Chloroform	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
71-43-2-----	Benzene	49	
107-06-2-----	1,2-Dichloroethane	10	U
79-01-6-----	Trichloroethene	50	
78-87-5-----	1,2-Dichloropropane	10	U
75-27-4-----	Bromodichloromethane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
108-88-3-----	Toluene	49	B
10061-02-6-----	trans-1,3-Dichloropropene	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
127-18-4-----	Tetrachloroethene	10	U
591-78-6-----	2-hexanone	10	U
124-48-1-----	Dibromochloromethane	10	U
108-90-7-----	Chlorobenzene	48	
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
75-25-2-----	Bromoform	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
1330-20-7-----	Xylene (total)	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VZYLCS

ab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7028-5

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG7028-5A59

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-01-4-----	Vinyl Chloride	99	
75-35-4-----	1,1-Dichloroethene	130	
78-93-3-----	2-butanone	78	
67-66-3-----	Chloroform	110	
56-23-5-----	Carbon Tetrachloride	110	
71-43-2-----	Benzene	110	
107-06-2-----	1,2-Dichloroethane	110	
79-01-6-----	Trichloroethene	100	
127-18-4-----	Tetrachloroethene	100	
108-90-7-----	Chlorobenzene	100	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ZHEBLKWB

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7038-1

Sample wt/vol: 5 (g/ml) ML

Lab File ID: WG7038-1A59

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 11/21/00

GC Column: EQUITY624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

75-01-4-----	Vinyl Chloride	25	U
75-35-4-----	1,1-Dichloroethene	25	U
78-93-3-----	2-butanone	63	U
67-66-3-----	Chloroform	25	U
56-23-5-----	Carbon Tetrachloride	25	U
71-43-2-----	Benzene	25	U
107-06-2-----	1,2-Dichloroethane	25	U
79-01-6-----	Trichloroethene	25	U
127-18-4-----	Tetrachloroethene	25	U
108-90-7-----	Chlorobenzene	25	U

FORM I VOA

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 487

SWSLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: U1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7101-2

Sample wt/vol: 500 (g/mL) ML

Lab File ID: WG7101-2B64

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/21/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/21/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	22	
106-46-7-----	1,4-Dichlorobenzene	27	
95-48-7-----	2-Methylphenol	39	
108-39-4-----	3-Methylphenol	72	
106-44-5-----	4-Methylphenol	72	
67-72-1-----	Hexachloroethane	27	
98-95-3-----	Nitrobenzene	33	
87-68-3-----	Hexachlorobutadiene	23	
88-06-2-----	2,4,6-Trichlorophenol	38	
95-95-4-----	2,4,5-Trichlorophenol	36	
121-14-2-----	2,4-Dinitrotoluene	25	
118-74-1-----	Hexachlorobenzene	42	
87-86-5-----	Pentachlorophenol	24	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FILTERBLKWA

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: U1701

Matrix: (soil/water) WATER Lab Sample ID: WG7037-1

Sample wt/vol: 250 (g/mL) ML Lab File ID: WG7037-1RB64

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 11/21/00

Concentrated Extract Volume: 500 (uL) Date Analyzed: 11/21/00

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1-----	Pyridine	20	U
106-46-7-----	1,4-Dichlorobenzene	20	U
95-48-7-----	2-Methylphenol	20	U
108-39-4-----	3-Methylphenol	20	U
106-44-5-----	4-Methylphenol	20	U
67-72-1-----	Hexachloroethane	20	U
98-95-3-----	Nitrobenzene	20	U
87-68-3-----	Hexachlorobutadiene	20	U
88-06-2-----	2,4,6-Trichlorophenol	20	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
121-14-2-----	2,4-Dinitrotoluene	20	U
118-74-1-----	Hexachlorobenzene	20	U
87-86-5-----	Pentachlorophenol	40	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 160

SUSLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG6924-2

Sample wt/vol: 500 (g/mL) ML

Lab File ID: WG6924-2A60_881

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/15/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/16/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

108-95-2	Phenol	36	
111-44-4	Bis (2-chloroethyl) ether	55	
95-57-8	2-Chlorophenol	54	
541-73-1	1,3-Dichlorobenzene	52	
106-46-7	1,4-Dichlorobenzene	54	
95-50-1	1,2-Dichlorobenzene	55	
95-48-7	2-Methylphenol	54	
108-60-1	2,2'-oxybis (1-Chloropropane)	55	
106-44-5	4-Methylphenol	95	
621-64-7	N-Nitroso-di-N-propylamine	65	
67-72-1	Hexachloroethane	53	
98-95-3	Nitrobenzene	57	
78-59-1	Isophorone	60	
88-75-5	2-Nitrophenol	64	
105-67-9	2,4-Dimethylphenol	63	
111-91-1	Bis (2-chloroethoxy) methane	68	
120-83-2	2,4-Dichlorophenol	60	
120-82-1	1,2,4-Trichlorobenzene	62	
91-20-3	Naphthalene	65	
106-47-8	4-Chloroaniline	54	
87-68-3	Hexachlorobutadiene	61	
59-50-7	4-Chloro-3-methylphenol	61	
91-57-6	2-Methylnaphthalene	60	
77-47-4	Hexachlorocyclopentadiene	53	
88-06-2	2,4,6-Trichlorophenol	66	
95-95-4	2,4,5-Trichlorophenol	69	
91-58-7	2-Chloronaphthalene	68	
88-74-4	2-Nitroaniline	62	
131-11-3	Dimethylphthalate	72	
606-20-2	2,6-Dinitrotoluene	66	
208-96-8	Acenaphthylene	78	
99-09-2	3-Nitroaniline	55	
83-32-9	Acenaphthene	66	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SUSLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG6924-2

Sample wt/vol: 500 (g/mL) ML

Lab File ID: WG6924-2A60_881

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/15/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/16/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

51-28-5-----	2,4-Dinitrophenol	46	J
100-02-7-----	4-Nitrophenol	40	
121-14-2-----	2,4-Dinitrotoluene	67	
132-64-9-----	Dibenzofuran	68	
84-66-2-----	Diethylphthalate	75	
7005-72-3-----	4-Chlorophenyl-phenylether	76	
86-73-7-----	Fluorene	88	
100-01-6-----	4-Nitroaniline	68	
534-52-1-----	4,6-Dinitro-2-methylphenol	57	
86-30-6-----	N-Nitrosodiphenylamine (1)	71	
101-55-3-----	4-Bromophenyl-phenylether	73	
118-74-1-----	Hexachlorobenzene	74	
87-86-5-----	Pentachlorophenol	51	
85-01-8-----	Phenanthrene	85	
120-12-7-----	Anthracene	82	
86-74-8-----	Carbazole	71	
84-74-2-----	Di-n-butylphthalate	78	
206-44-0-----	Fluoranthene	86	
129-00-0-----	Pyrene	72	
85-68-7-----	Butylbenzylphthalate	57	
91-94-1-----	3,3'-Dichlorobenzidine	40	
117-81-7-----	bis(2-ethylhexyl) Phthalate	69	
56-55-3-----	Benzo(a)anthracene	75	
218-01-9-----	Chrysene	75	
117-84-0-----	Di-n-octylphthalate	74	
205-99-2-----	Benzo(b)fluoranthene	84	
207-08-9-----	Benzo(k)fluoranthene	77	
50-32-8-----	Benzo(a)pyrene	77	
193-39-5-----	Indeno(1,2,3-c,d)pyrene	70	
53-70-3-----	Dibenzo(a,h)anthracene	82	
191-24-2-----	Benzo(g,h,i)perylene	79	

(1) - Cannot be separated from Diphenylamine
FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 47

SVNLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG6978-2

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: WG6978-2A64S

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

108-95-2-----	Phenol	36	
111-44-4-----	Bis(2-chloroethyl) ether	75	
95-57-8-----	2-Chlorophenol	68	
541-73-1-----	1,3-Dichlorobenzene	62	
106-46-7-----	1,4-Dichlorobenzene	63	
95-50-1-----	1,2-Dichlorobenzene	62	
95-48-7-----	2-Methylphenol	63	
108-60-1-----	2,2'-oxybis(1-Chloropropane)	82	
106-44-5-----	4-Methylphenol	120	
621-64-7-----	N-Nitroso-di-N-propylamine	88	
67-72-1-----	Hexachloroethane	64	
98-95-3-----	Nitrobenzene	74	
78-59-1-----	Isophorone	74	
88-75-5-----	2-Nitrophenol	59	
105-67-9-----	2,4-Dimethylphenol	64	
111-91-1-----	Bis(2-chloroethoxy) methane	85	
120-83-2-----	2,4-Dichlorophenol	70	
120-82-1-----	1,2,4-Trichlorobenzene	69	
91-20-3-----	Naphthalene	79	
106-47-8-----	4-Chloroaniline	71	
87-68-3-----	Hexachlorobutadiene	69	
59-50-7-----	4-Chloro-3-methylphenol	82	
91-57-6-----	2-Methylnaphthalene	73	
77-47-4-----	Hexachlorocyclopentadiene	76	
88-06-2-----	2,4,6-Trichlorophenol	76	
95-95-4-----	2,4,5-Trichlorophenol	79	
91-58-7-----	2-Chloronaphthalene	79	
88-74-4-----	2-Nitroaniline	75	
131-11-3-----	Dimethylphthalate	71	
606-20-2-----	2,6-Dinitrotoluene	75	
208-96-8-----	Acenaphthylene	90	
99-09-2-----	3-Nitroaniline	69	
83-32-9-----	Acenaphthene	91	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SVNLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG6978-2

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: WG6978-2A64S

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/17/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/19/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	32	
121-14-2-----	2,4-Dinitrotoluene	75	
132-64-9-----	Dibenzofuran	76	
84-66-2-----	Diethylphthalate	79	
7005-72-3-----	4-Chlorophenyl-phenylether	87	
86-73-7-----	Fluorene	90	
100-01-6-----	4-Nitroaniline	63	
534-52-1-----	4,6-Dinitro-2-methylphenol	36	
86-30-6-----	N-Nitrosodiphenylamine (1)	85	
101-55-3-----	4-Bromophenyl-phenylether	84	
118-74-1-----	Hexachlorobenzene	81	
87-86-5-----	Pentachlorophenol	72	
85-01-8-----	Phenanthrene	89	
120-12-7-----	Anthracene	91	
86-74-8-----	Carbazole	82	
84-74-2-----	Di-n-butylphthalate	84	
206-44-0-----	Fluoranthene	92	
129-00-0-----	Pyrene	95	
85-68-7-----	Butylbenzylphthalate	77	
91-94-1-----	3,3'-Dichlorobenzidine	42	
117-81-7-----	bis(2-ethylhexyl) Phthalate	78	
56-55-3-----	Benzo (a) anthracene	90	
218-01-9-----	Chrysene	94	
117-84-0-----	Di-n-octylphthalate	73	
205-99-2-----	Benzo (b) fluoranthene	98	
207-08-9-----	Benzo (k) fluoranthene	84	
50-32-8-----	Benzo (a) pyrene	92	
193-39-5-----	Indeno (1,2,3-c,d) pyrene	73	
53-70-3-----	Dibenzo (a,h) anthracene	90	
191-24-2-----	Benzo (g,h,i) perylene	93	

(1) - Cannot be separated from Diphenylamine
FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. 68

SWYLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7127-2

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: WG7127-2A64_881

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/22/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/27/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

108-95-2-----	Phenol	37	
111-44-4-----	Bis(2-chloroethyl) ether	65	
95-57-8-----	2-Chlorophenol	79	
541-73-1-----	1,3-Dichlorobenzene	69	
106-46-7-----	1,4-Dichlorobenzene	67	
95-50-1-----	1,2-Dichlorobenzene	71	
95-48-7-----	2-Methylphenol	78	
108-60-1-----	2,2'-oxybis(1-Chloropropane)	67	
106-44-5-----	4-Methylphenol	150	
621-64-7-----	N-Nitroso-di-N-propylamine	79	
67-72-1-----	Hexachloroethane	68	
98-95-3-----	Nitrobenzene	82	
78-59-1-----	Isophorone	86	
88-75-5-----	2-Nitrophenol	75	
105-67-9-----	2,4-Dimethylphenol	66	
111-91-1-----	Bis(2-chloroethoxy) methane	85	
120-83-2-----	2,4-Dichlorophenol	80	
120-82-1-----	1,2,4-Trichlorobenzene	76	
91-20-3-----	Naphthalene	61	
106-47-8-----	4-Chloroaniline	76	
87-68-3-----	Hexachlorobutadiene	76	
59-50-7-----	4-Chloro-3-methylphenol	83	
91-57-6-----	2-Methylnaphthalene	74	
77-47-4-----	Hexachlorocyclopentadiene	85	
88-06-2-----	2,4,6-Trichlorophenol	88	
95-95-4-----	2,4,5-Trichlorophenol	89	
91-58-7-----	2-Chloronaphthalene	91	
88-74-4-----	2-Nitroaniline	86	
131-11-3-----	Dimethylphthalate	80	
606-20-2-----	2,6-Dinitrotoluene	100	
208-96-8-----	Acenaphthylene	77	
99-09-2-----	3-Nitroaniline	88	
83-32-9-----	Acenaphthene	79	

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SWYLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7127-2

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: WG7127-2A64_881

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/22/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/27/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

51-28-5-----	2,4-Dinitrophenol	66	
100-02-7-----	4-Nitrophenol	41	
121-14-2-----	2,4-Dinitrotoluene	100	
132-64-9-----	Dibenzofuran	85	
84-66-2-----	Diethylphthalate	84	
7005-72-3-----	4-Chlorophenyl-phenylether	83	
86-73-7-----	Fluorene	78	
100-01-6-----	4-Nitroaniline	76	
534-52-1-----	4,6-Dinitro-2-methylphenol	82	
86-30-6-----	N-Nitrosodiphenylamine (1)	84	
101-55-3-----	4-Bromophenyl-phenylether	87	
118-74-1-----	Hexachlorobenzene	94	
87-86-5-----	Pentachlorophenol	91	
85-01-8-----	Phenanthrene	82	
120-12-7-----	Anthracene	78	
86-74-8-----	Carbazole	88	
84-74-2-----	Di-n-butylphthalate	87	
206-44-0-----	Fluoranthene	78	
129-00-0-----	Pyrene	85	
85-68-7-----	Butylbenzylphthalate	90	
91-94-1-----	3,3'-Dichlorobenzidine	63	
117-81-7-----	bis(2-ethylhexyl) Phthalate	87	
56-55-3-----	Benzo(a)anthracene	79	
218-01-9-----	Chrysene	89	
117-84-0-----	Di-n-octylphthalate	86	
205-99-2-----	Benzo(b)fluoranthene	77	
207-08-9-----	Benzo(k)fluoranthene	78	
50-32-8-----	Benzo(a)pyrene	78	
193-39-5-----	Indeno(1,2,3-c,d)pyrene	84	
53-70-3-----	Dibenzo(a,h)anthracene	80	
191-24-2-----	Benzo(g,h,i)perylene	80	

(1) - Cannot be separated from Diphenylamine
FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO. yjd

TCLPBLKEB

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7029-1

Sample wt/vol: 250 (g/mL) ML

Lab File ID: WG7029-1RB64

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/21/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/21/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	20	U
106-46-7-----	1,4-Dichlorobenzene	20	U
95-48-7-----	2-Methylphenol	20	U
108-39-4-----	3-Methylphenol	20	U
106-44-5-----	4-Methylphenol	20	U
67-72-1-----	Hexachloroethane	20	U
98-95-3-----	Nitrobenzene	20	U
87-68-3-----	Hexachlorobutadiene	20	U
88-06-2-----	2,4,6-Trichlorophenol	20	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
121-14-2-----	2,4-Dinitrotoluene	20	U
118-74-1-----	Hexachlorobenzene	20	U
87-86-5-----	Pentachlorophenol	40	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SWSLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: T1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7101-2

Sample wt/vol: 500 (g/mL) ML

Lab File ID: WG7101-2B64

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 11/21/00

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 11/21/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

110-86-1-----	Pyridine	22	
106-46-7-----	1,4-Dichlorobenzene	27	
95-48-7-----	2-Methylphenol	39	
108-39-4-----	3-Methylphenol	72	
106-44-5-----	4-Methylphenol	72	
67-72-1-----	Hexachloroethane	27	
98-95-3-----	Nitrobenzene	33	
87-68-3-----	Hexachlorobutadiene	23	
88-06-2-----	2,4,6-Trichlorophenol	38	
95-95-4-----	2,4,5-Trichlorophenol	36	
121-14-2-----	2,4-Dinitrotoluene	25	
118-74-1-----	Hexachlorobenzene	42	
87-86-5-----	Pentachlorophenol	24	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 467

PBLKVF

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG6954-1

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/16/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/17/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

309-00-2-----Aldrin	0.050	U
319-84-6-----alpha-BHC	0.0079	JP
319-85-7-----beta-BHC	0.016	JP
319-86-8-----delta-BHC	0.050	U
58-89-9-----gamma-BHC (Lindane)	0.050	U
72-54-8-----4,4'-DDD	0.20	U
72-55-9-----4,4'-DDE	0.037	JP
50-29-3-----4,4'-DDT	0.30	U
60-57-1-----Dieldrin	0.10	U
959-98-8-----Endosulfan I	0.014	JP
33213-65-9-----Endosulfan II	0.20	U
1031-07-8-----Endosulfan sulfate	0.20	U
72-20-8-----Endrin	0.20	U
7421-93-4-----Endrin Aldehyde	0.20	U
76-44-8-----Heptachlor	0.022	JP
1024-57-3-----Heptachlor Epoxide	0.042	JP
72-43-5-----Methoxychlor	0.50	U
8001-35-2-----Toxaphene	5.0	U
12674-11-2-----Aroclor-1016	1.0	U
11104-28-2-----Aroclor-1221	2.0	U
11141-16-5-----Aroclor-1232	1.0	U
53469-21-9-----Aroclor-1242	1.0	U
12672-29-6-----Aroclor-1248	1.0	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U
53494-70-5-----Endrin Ketone	0.50	U
5103-74-2-----gamma-Chlordane	0.0060	JP
5103-71-9-----alpha-Chlordane	0.037	JP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKWM

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7064-1

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/21/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

309-00-2-----Aldrin	0.050	U
319-84-6-----alpha-BHC	0.018	JP
319-85-7-----beta-BHC	0.029	JP
319-86-8-----delta-BHC	0.050	U
58-89-9-----gamma-BHC (Lindane)	0.050	U
72-54-8-----4,4'-DDD	0.20	U
72-55-9-----4,4'-DDE	0.11	P
50-29-3-----4,4'-DDT	0.30	U
60-57-1-----Dieldrin	0.10	U
959-98-8-----Endosulfan I	0.10	U
33213-65-9-----Endosulfan II	0.20	U
1031-07-8-----Endosulfan sulfate	0.20	U
72-20-8-----Endrin	0.20	U
7421-93-4-----Endrin Aldehyde	0.20	U
76-44-8-----Heptachlor	0.014	JP
1024-57-3-----Heptachlor Epoxide	0.017	J
72-43-5-----Methoxychlor	0.50	U
8001-35-2-----Toxaphene	5.0	U
12674-11-2-----Aroclor-1016	1.0	U
11104-28-2-----Aroclor-1221	2.0	U
11141-16-5-----Aroclor-1232	1.0	U
53469-21-9-----Aroclor-1242	1.0	U
12672-29-6-----Aroclor-1248	1.0	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U
53494-70-5-----Endrin Ketone	0.50	U
5103-74-2-----gamma-Chlordane	0.022	JP
5103-71-9-----alpha-Chlordane	0.12	P

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKYN

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7220-1

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/29/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/29/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

309-00-2-----Aldrin	0.0074	JP
319-84-6-----alpha-BHC	0.022	JP
319-85-7-----beta-BHC	0.10	U
319-86-8-----delta-BHC	0.050	U
58-89-9-----gamma-BHC (Lindane)	0.050	U
72-54-8-----4,4'-DDD	0.20	U
72-55-9-----4,4'-DDE	0.0071	J
50-29-3-----4,4'-DDT	0.30	U
60-57-1-----Dieldrin	0.10	U
959-98-8-----Endosulfan I	0.10	U
33213-65-9-----Endosulfan II	0.20	U
1031-07-8-----Endosulfan sulfate	0.20	U
72-20-8-----Endrin	0.20	U
7421-93-4-----Endrin Aldehyde	0.20	U
76-44-8-----Heptachlor	0.010	JP
1024-57-3-----Heptachlor Epoxide	0.012	JP
72-43-5-----Methoxychlor	0.50	U
8001-35-2-----Toxaphene	5.0	U
12674-11-2-----Aroclor-1016	1.0	U
11104-28-2-----Aroclor-1221	2.0	U
11141-16-5-----Aroclor-1232	1.0	U
53469-21-9-----Aroclor-1242	1.0	U
12672-29-6-----Aroclor-1248	1.0	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U
53494-70-5-----Endrin Ketone	0.50	U
5103-74-2-----gamma-Chlordane	0.0041	J
5103-71-9-----alpha-Chlordane	0.041	JP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PCBLCSVF

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG6954-3

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/16/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/17/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

309-00-2-----	Aldrin	0.050	U
319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.10	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
72-54-8-----	4,4'-DDD	0.20	U
72-55-9-----	4,4'-DDE	0.10	U
50-29-3-----	4,4'-DDT	0.30	U
60-57-1-----	Dieldrin	0.10	U
959-98-8-----	Endosulfan I	0.10	U
33213-65-9-----	Endosulfan II	0.20	U
1031-07-8-----	Endosulfan sulfate	0.20	U
72-20-8-----	Endrin	0.20	U
7421-93-4-----	Endrin Aldehyde	0.20	U
76-44-8-----	Heptachlor	0.050	U
1024-57-3-----	Heptachlor Epoxide	0.050	U
72-43-5-----	Methoxychlor	0.50	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	7.2	P
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	4.1	
53494-70-5-----	Endrin Ketone	0.50	U
5103-74-2-----	gamma-Chlordane	0.050	U
5103-71-9-----	alpha-Chlordane	0.10	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 467

PCBLCSWM

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7064-3

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/21/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

309-00-2-----	Aldrin	0.050	U
319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.10	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
72-54-8-----	4,4'-DDD	0.20	U
72-55-9-----	4,4'-DDE	0.10	U
50-29-3-----	4,4'-DDT	0.30	U
60-57-1-----	Dieldrin	0.10	U
959-98-8-----	Endosulfan I	0.10	U
33213-65-9-----	Endosulfan II	0.20	U
1031-07-8-----	Endosulfan sulfate	0.20	U
72-20-8-----	Endrin	0.20	U
7421-93-4-----	Endrin Aldehyde	0.20	U
76-44-8-----	Heptachlor	0.050	U
1024-57-3-----	Heptachlor Epoxide	0.050	U
72-43-5-----	Methoxychlor	0.50	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	5.3	P
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	4.1	
53494-70-5-----	Endrin Ketone	0.50	U
5103-74-2-----	gamma-Chlordane	0.050	U
5103-71-9-----	alpha-Chlordane	0.10	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PCBYNLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7220-3

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/29/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/29/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

309-00-2-----Aldrin	0.050	U
319-84-6-----alpha-BHC	0.050	U
319-85-7-----beta-BHC	0.10	U
319-86-8-----delta-BHC	0.050	U
58-89-9-----gamma-BHC (Lindane)	0.050	U
72-54-8-----4,4'-DDD	0.20	U
72-55-9-----4,4'-DDE	0.10	U
50-29-3-----4,4'-DDT	0.30	U
60-57-1-----Dieldrin	0.10	U
959-98-8-----Endosulfan I	0.10	U
33213-65-9-----Endosulfan II	0.20	U
1031-07-8-----Endosulfan sulfate	0.20	U
72-20-8-----Endrin	0.20	U
7421-93-4-----Endrin Aldehyde	0.20	U
76-44-8-----Heptachlor	0.050	U
1024-57-3-----Heptachlor Epoxide	0.050	U
72-43-5-----Methoxychlor	0.50	U
8001-35-2-----Toxaphene	5.0	U
12674-11-2-----Aroclor-1016	6.0	P
11104-28-2-----Aroclor-1221	2.0	U
11141-16-5-----Aroclor-1232	1.0	U
53469-21-9-----Aroclor-1242	1.0	U
12672-29-6-----Aroclor-1248	1.0	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	4.6	U
53494-70-5-----Endrin Ketone	0.50	U
5103-74-2-----gamma-Chlordane	0.050	U
5103-71-9-----alpha-Chlordane	0.10	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PVFLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG6954-2

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/16/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/17/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

309-00-2-----	Aldrin	0.19	
319-84-6-----	alpha-BHC	0.0068	JP
319-85-7-----	beta-BHC	0.014	JP
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.16	
72-54-8-----	4,4'-DDD	0.20	U
72-55-9-----	4,4'-DDE	0.028	JP
50-29-3-----	4,4'-DDT	0.53	
60-57-1-----	Dieldrin	0.50	
959-98-8-----	Endosulfan I	0.0045	JP
33213-65-9-----	Endosulfan II	0.20	U
1031-07-8-----	Endosulfan sulfate	0.20	U
72-20-8-----	Endrin	0.43	
7421-93-4-----	Endrin Aldehyde	0.029	JP
76-44-8-----	Heptachlor	0.21	
1024-57-3-----	Heptachlor Epoxide	0.026	JP
72-43-5-----	Methoxychlor	0.50	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U
53494-70-5-----	Endrin Ketone	0.077	J
5103-74-2-----	gamma-Chlordane	0.0066	JP
5103-71-9-----	alpha-Chlordane	0.10	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PWMLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7064-2

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/21/00

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/21/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

309-00-2-----Aldrin	0.20	
319-84-6-----alpha-BHC	0.0087	JP
319-85-7-----beta-BHC	0.032	JP
319-86-8-----delta-BHC	0.050	U
58-89-9-----gamma-BHC (Lindane)	0.16	
72-54-8-----4,4'-DDD	0.20	U
72-55-9-----4,4'-DDE	0.082	JP
50-29-3-----4,4'-DDT	0.53	
60-57-1-----Dieldrin	0.51	
959-98-8-----Endosulfan I	0.10	U
33213-65-9-----Endosulfan II	0.20	U
1031-07-8-----Endosulfan sulfate	0.20	U
72-20-8-----Endrin	0.44	
7421-93-4-----Endrin Aldehyde	0.033	JP
76-44-8-----Heptachlor	0.22	
1024-57-3-----Heptachlor Epoxide	0.017	J
72-43-5-----Methoxychlor	0.50	U
8001-35-2-----Toxaphene	5.0	U
12674-11-2-----Aroclor-1016	1.0	U
11104-28-2-----Aroclor-1221	2.0	U
11141-16-5-----Aroclor-1232	1.0	U
53469-21-9-----Aroclor-1242	1.0	U
12672-29-6-----Aroclor-1248	1.0	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U
53494-70-5-----Endrin Ketone	0.078	J
5103-74-2-----gamma-Chlordane	0.020	JP
5103-71-9-----alpha-Chlordane	0.093	JP

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PYNLCS

Lab Name: COMPUCHEM

Contract:

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7220-2

Sample wt/vol: 500.0 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/29/00

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 11/29/00

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

309-00-2-----Aldrin	0.22	
319-84-6-----alpha-BHC	0.012	JP
319-85-7-----beta-BHC	0.10	U
319-86-8-----delta-BHC	0.050	U
58-89-9-----gamma-BHC (Lindane)	0.19	
72-54-8-----4,4'-DDD	0.060	J
72-55-9-----4,4'-DDE	0.016	J
50-29-3-----4,4'-DDT	0.56	
60-57-1-----Dieldrin	0.59	
959-98-8-----Endosulfan I	0.10	U
33213-65-9-----Endosulfan II	0.0051	J
1031-07-8-----Endosulfan sulfate	0.20	U
72-20-8-----Endrin	0.52	
7421-93-4-----Endrin Aldehyde	0.020	J
76-44-8-----Heptachlor	0.24	
1024-57-3-----Heptachlor Epoxide	0.013	JP
72-43-5-----Methoxychlor	0.027	JP
8001-35-2-----Toxaphene	5.0	U
12674-11-2-----Aroclor-1016	1.0	U
11104-28-2-----Aroclor-1221	2.0	U
11141-16-5-----Aroclor-1232	1.0	U
53469-21-9-----Aroclor-1242	1.0	U
12672-29-6-----Aroclor-1248	1.0	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U
53494-70-5-----Endrin Ketone	0.081	J
5103-74-2-----gamma-Chlordane	0.0089	JP
5103-71-9-----alpha-Chlordane	0.050	JP

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PVELCS

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG6947-2

Sample wt/vol: 770.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/16/00

Concentrated Extract Volume: 20000 (ul)

Date Analyzed: 11/29/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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2691-41-0-----	HMX	12	
99-35-4-----	1,3,5-Trinitrobenzene	4.9	
121-82-4-----	RDX	6.9	
99-65-0-----	1,3-Dinitrobenzene	6.9	
118-96-7-----	2,4,6-Trinitrotoluene	7.2	
479-45-8-----	Tetryl	8.9	
98-95-3-----	Nitrobenzene	5.9	
121-14-2-----	2,4-Dinitrotoluene	6.4	
606-20-2-----	2,6-Dinitrotoluene	8.8	
35572-78-2-----	2-Amino-4,6-dinitrotoluene	10	
1946-51-0-----	4-Amino-2,6-dinitrotoluene	8.9	
88-72-2-----	2-Nitrotoluene	7.5	
99-99-0-----	4-Nitrotoluene	8.2	
99-08-1-----	3-Nitrotoluene	8.4	

1D
EXPLOSIVE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PWILCS

Lab Name: COMPUCHEM

Contract: 8330

Lab Code: LIBRTY

Case No.:

SAS No.:

SDG No.: S1701

Matrix: (soil/water) WATER

Lab Sample ID: WG7054-2

Sample wt/vol: 770.0 (g/ml) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 11/20/00

Concentrated Extract Volume: 20000 (ul)

Date Analyzed: 11/29/00

Injection Volume: 25.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

2691-41-0-----	HMX	9.6	
99-35-4-----	1,3,5-Trinitrobenzene	4.9	
121-82-4-----	RDX	4.7	J
99-65-0-----	1,3-Dinitrobenzene	5.3	
118-96-7-----	2,4,6-Trinitrotoluene	4.8	
479-45-8-----	Tetryl	9.1	
98-95-3-----	Nitrobenzene	6.1	
121-14-2-----	2,4-Dinitrotoluene	4.6	J
606-20-2-----	2,6-Dinitrotoluene	6.4	
35572-78-2-----	2-Amino-4,6-dinitrotoluene	7.8	
1946-51-0-----	4-Amino-2,6-dinitrotoluene	7.8	
88-72-2-----	2-Nitrotoluene	5.0	
99-99-0-----	4-Nitrotoluene	6.1	
99-08-1-----	3-Nitrotoluene	7.1	