FORMER CANINE KENNEL SITE GABRESKI AIRPORT WESTHAMPTON, NEW YORK SCP SITE ID: #1-52-079

# INTERIM REMEDIAL MEASURE REPORT



#### PREPARED FOR:



Suffolk County Department of Health Services 360 Yaphank Avenue Yaphank, New York 11980

#### PREPARED BY:



P.W. Grosser Consulting, Inc. 630 Johnson Avenue, Suite 7 Bohemia, New York 11716 Phone: 631-589-6353 Fax: 631-589-8705

Andrew Lockwood, LEP

andyl@pwgrosser.com

PWGC Project Number: SHD1201

# P.W. GROSSER CONSULTING INC. PROJECT NO. SHD1201

### INTERIM REMEDIAL MEASURE REPORT

FORMER CANINE KENNEL SITE

GABRESKI AIRPORT, WESTHAMPTON BEACH, NEW YORK

BCP SITE ID: #1-52-079

SUBMITTED: JUNE 2013

PREPARED FOR:
SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
OFFICE OF POLLUTION CONTROL
15 HORSEBLOCK PLACE
FARMINGVILLE, NEW YORK 11738

PREPARED BY:
P.W. GROSSER CONSULTING, INC.
630 JOHNSON AVENUE, SUITE 7
BOHEMIA, NEW YORK 11716
PHONE: 631-589-6353
FAX: 631-589-8705



# INTERIM REMEDIAL MEASURE REPORT FORMER CANINE KENNEL SITE, FRANCIS S. GABRESKI AIRPORT, WESTHAMPTON BEACH, NEW YORK BCP SITE ID: #1-52-079

1.1       Site Description	CON	TENTS		PAGE
1.2       Site History	1.0	INTRO	DDUCTION	1
1.2       Site History		1.1	Site Description	1
2.0       INTERIM REMEDIAL MEASURE       3         2.1       Scope of Work       3         2.2       Boatyard PCB Delineation       3         2.2.1       Sample Collection       3         2.2.2       Sample Analysis       4         2.2.3       Analytical Results       4         2.3       Boatyard Soil Removal       5         2.3.1       Boatyard Endpoint Sample Collection       5         2.3.2       Boatyard Endpoint Sample Collection       5         2.3.3       Boatyard Endpoint Sample Analysis       5         2.3.4       Boatyard Endpoint Analytical Results       5         2.4.1       Capacitor Location Soil Removal       6         2.4.1       Capacitor Soil Removal       6         2.4.2       Capacitor Endpoint Sample Collection       6         2.4.2       Capacitor Endpoint Sample Analysis       6         2.4.4       Capacitor Endpoint Sample Analysis       7         2.5       Excavation Backfill       7         2.5       Excavation Backfill       7         2.5       Excavation Backfill       7         2.6       Storm Water Control Installation       7         3.0       WASTE CHARACTERIZATION AND DISPOSAL		1.2	·	
2.1       Scope of Work       3         2.2       Boatyard PCB Delineation       3         2.2.1       Sample Collection       3         2.2.2       Sample Analysis       4         2.2.3       Analytical Results       4         2.3       Boatyard Soil Removal       5         2.3.1       Boatyard Endpoint Sample Collection       5         2.3.2       Boatyard Endpoint Sample Collection       5         2.3.3       Boatyard Endpoint Sample Analysis       5         2.3.4       Boatyard Endpoint Analytical Results       5         2.4       Capacitor Location Soil Removal       6         2.4.1       Capacitor Soil Removal       6         2.4.1       Capacitor Endpoint Sample Collection       6         2.4.2       Capacitor Endpoint Sample Collection       6         2.4.2       Capacitor Endpoint Sample Analysis       6         2.4.2       Capacitor Endpoint Analytical Results       7         2.5       Excavation Backfill       7         2.6       Storm Water Control Installation       7         3.0       WASTE CHARACTERIZATION AND DISPOSAL       8         3.1       Waste Characterization       8         3.2       W				
2.1       Scope of Work       3         2.2       Boatyard PCB Delineation       3         2.2.1       Sample Collection       3         2.2.2       Sample Analysis       4         2.2.3       Analytical Results       4         2.3       Boatyard Soil Removal       5         2.3.1       Boatyard Endpoint Sample Collection       5         2.3.2       Boatyard Endpoint Sample Collection       5         2.3.3       Boatyard Endpoint Sample Analysis       5         2.3.4       Boatyard Endpoint Analytical Results       5         2.4       Capacitor Location Soil Removal       6         2.4.1       Capacitor Soil Removal       6         2.4.1       Capacitor Endpoint Sample Collection       6         2.4.2       Capacitor Endpoint Sample Collection       6         2.4.2       Capacitor Endpoint Sample Analysis       6         2.4.2       Capacitor Endpoint Analytical Results       7         2.5       Excavation Backfill       7         2.6       Storm Water Control Installation       7         3.0       WASTE CHARACTERIZATION AND DISPOSAL       8         3.1       Waste Characterization       8         3.2       W	2.0	INTER	IM REMEDIAL MEASURE	3
2.2       Boatyard PCB Delineation				
2.2.1 Sample Collection       3         2.2.2 Sample Analysis       4         2.2.3 Analytical Results       4         2.3 Boatyard Soil Removal       4         2.3.1 Boatyard Soil Removal       5         2.3.2 Boatyard Endpoint Sample Collection       5         2.3.3 Boatyard Endpoint Sample Analysis       5         2.3.4 Boatyard Endpoint Sample Analysis       5         2.3.4 Boatyard Endpoint Sample Analysis       5         2.4.1 Capacitor Location Soil Removal       6         2.4.1 Capacitor Endpoint Sample Collection       6         2.4.2 Capacitor Endpoint Sample Analysis       6         2.4.3 Capacitor Endpoint Sample Analysis       6         2.4.4 Capacitor Endpoint Analytical Results       7         2.5 Excavation Backfill       7         2.6 Storm Water Control Installation       7         3.0 WASTE CHARACTERIZATION AND DISPOSAL       8         3.1 Waste Characterization       8         3.2 Waste Disposal       8         4.0 QUALITY ASSURANCE/QUALITY CONTROL       9         4.1 QA/QC Samples       9         4.2 Data Usability and Validation       9         5.0 CONCLUSIONS AND RECOMMENDATIONS       11         5.1 Conclusions       11		2.2	·	
2.2.2       Sample Analysis       4         2.2.3       Analytical Results       4         2.3       Boatyard Soil Removal       5         2.3.1       Boatyard Endpoint Soil Removal       5         2.3.2       Boatyard Endpoint Sample Collection       5         2.3.3       Boatyard Endpoint Sample Analysis       5         2.3.4       Boatyard Endpoint Analytical Results       5         2.3.4       Boatyard Endpoint Analytical Results       5         2.4.1       Capacitor Location Soil Removal       6         2.4.1       Capacitor Soil Removal       6         2.4.1       Capacitor Endpoint Sample Collection       6         2.4.2       Capacitor Endpoint Sample Collection       6         2.4.3       Capacitor Endpoint Sample Analysis       6         2.4.4       Capacitor Endpoint Sample Collection       7         2.5       Excavation Backfill       7         2.5       Excavation Backfill       7         2.6       Storm Water Control Installation       7         3.0       WASTE CHARACTERIZATION AND DISPOSAL       8         3.1       Waste Characterization       8         3.2       Waste Disposal       8         4.0			,	
2.2.3 Analytical Results       4         2.3 Boatyard Soil Removal       4         2.3.1 Boatyard Soil Removal       5         2.3.2 Boatyard Endpoint Sample Collection       5         2.3.3 Boatyard Endpoint Sample Collection       5         2.3.4 Boatyard Endpoint Sample Analysis       5         2.3.4 Capacitor Location Soil Removal       6         2.4.1 Capacitor Soil Removal       6         2.4.2 Capacitor Endpoint Sample Collection       6         2.4.2 Capacitor Endpoint Sample Analysis       6         2.4.3 Capacitor Endpoint Sample Analysis       6         2.4.4 Capacitor Endpoint Analytical Results       7         2.5 Excavation Backfill       7         2.5 Excavation Backfill       7         2.6 Storm Water Control Installation       7         3.0 WASTE CHARACTERIZATION AND DISPOSAL       8         3.1 Waste Characterization       8         3.2 Waste Disposal       8         4.0 QUALITY ASSURANCE/QUALITY CONTROL       9         4.1 QA/QC Samples       9         4.2 Data Usability and Validation       9         5.0 CONCLUSIONS AND RECOMMENDATIONS       11         5.1 Conclusions       11				
2.3       Boatyard Soil Removal       4         2.3.1       Boatyard Soil Removal       5         2.3.2       Boatyard Endpoint Sample Collection       5         2.3.3       Boatyard Endpoint Sample Analysis       5         2.3.4       Boatyard Endpoint Analytical Results       5         2.4       Capacitor Location Soil Removal       6         2.4.1       Capacitor Soil Removal       6         2.4.2       Capacitor Endpoint Sample Collection       6         2.4.3       Capacitor Endpoint Sample Analysis       6         2.4.4       Capacitor Endpoint Analytical Results       7         2.5       Excavation Backfill       7         2.6       Storm Water Control Installation       7         3.0       WASTE CHARACTERIZATION AND DISPOSAL       8         3.1       Waste Characterization       8         3.2       Waste Disposal       8         4.0       QUALITY ASSURANCE/QUALITY CONTROL       9         4.1       QA/QC Samples       9         4.2       Data Usability and Validation       9         5.0       CONCLUSIONS AND RECOMMENDATIONS       11         5.1       Conclusions       11				
2.3.2       Boatyard Endpoint Sample Collection		2.3		
2.3.2       Boatyard Endpoint Sample Collection			2.3.1 Boatyard Soil Removal	5
2.3.3       Boatyard Endpoint Sample Analysis       5         2.3.4       Boatyard Endpoint Analytical Results       5         2.4       Capacitor Location Soil Removal       6         2.4.1       Capacitor Soil Removal       6         2.4.2       Capacitor Endpoint Sample Collection       6         2.4.3       Capacitor Endpoint Sample Analysis       6         2.4.4       Capacitor Endpoint Analytical Results       7         2.5       Excavation Backfill       7         2.6       Storm Water Control Installation       7         3.0       WASTE CHARACTERIZATION AND DISPOSAL       8         3.1       Waste Characterization       8         3.2       Waste Disposal       8         4.0       QUALITY ASSURANCE/QUALITY CONTROL       9         4.1       QA/QC Samples       9         4.2       Data Usability and Validation       9         5.0       CONCLUSIONS AND RECOMMENDATIONS       11         5.1       Conclusions       11				
2.3.4 Boatyard Endpoint Analytical Results.       5         2.4 Capacitor Location Soil Removal.       6         2.4.1 Capacitor Soil Removal.       6         2.4.2 Capacitor Endpoint Sample Collection       6         2.4.3 Capacitor Endpoint Sample Analysis       6         2.4.4 Capacitor Endpoint Analytical Results       7         2.5 Excavation Backfill.       7         2.6 Storm Water Control Installation.       7         3.0 WASTE CHARACTERIZATION AND DISPOSAL       8         3.1 Waste Characterization       8         3.2 Waste Disposal       8         4.0 QUALITY ASSURANCE/QUALITY CONTROL       9         4.1 QA/QC Samples       9         4.2 Data Usability and Validation       9         5.0 CONCLUSIONS AND RECOMMENDATIONS       11         5.1 Conclusions       11				
2.4.1 Capacitor Soil Removal 6 2.4.2 Capacitor Endpoint Sample Collection 6 2.4.3 Capacitor Endpoint Sample Analysis 6 2.4.4 Capacitor Endpoint Analytical Results 7 2.5 Excavation Backfill 7 2.6 Storm Water Control Installation 7 3.0 WASTE CHARACTERIZATION AND DISPOSAL 8 3.1 Waste Characterization 8 3.2 Waste Disposal 8 4.0 QUALITY ASSURANCE/QUALITY CONTROL 9 4.1 QA/QC Samples 9 4.2 Data Usability and Validation 9 5.0 CONCLUSIONS AND RECOMMENDATIONS 11 5.1 Conclusions 11			2.3.4 Boatyard Endpoint Analytical Results	5
2.4.2 Capacitor Endpoint Sample Collection       6         2.4.3 Capacitor Endpoint Sample Analysis       6         2.4.4 Capacitor Endpoint Analytical Results       7         2.5 Excavation Backfill       7         2.6 Storm Water Control Installation       7         3.0 WASTE CHARACTERIZATION AND DISPOSAL       8         3.1 Waste Characterization       8         3.2 Waste Disposal       8         4.0 QUALITY ASSURANCE/QUALITY CONTROL       9         4.1 QA/QC Samples       9         4.2 Data Usability and Validation       9         5.0 CONCLUSIONS AND RECOMMENDATIONS       11         5.1 Conclusions       11		2.4	Capacitor Location Soil Removal	6
2.4.3       Capacitor Endpoint Sample Analysis       6         2.4.4       Capacitor Endpoint Analytical Results       7         2.5       Excavation Backfill       7         2.6       Storm Water Control Installation       7         3.0       WASTE CHARACTERIZATION AND DISPOSAL       8         3.1       Waste Characterization       8         3.2       Waste Disposal       8         4.0       QUALITY ASSURANCE/QUALITY CONTROL       9         4.1       QA/QC Samples       9         4.2       Data Usability and Validation       9         5.0       CONCLUSIONS AND RECOMMENDATIONS       11         5.1       Conclusions       11			2.4.1 Capacitor Soil Removal	6
2.4.4 Capacitor Endpoint Analytical Results       7         2.5 Excavation Backfill       7         2.6 Storm Water Control Installation       7         3.0 WASTE CHARACTERIZATION AND DISPOSAL       8         3.1 Waste Characterization       8         3.2 Waste Disposal       8         4.0 QUALITY ASSURANCE/QUALITY CONTROL       9         4.1 QA/QC Samples       9         4.2 Data Usability and Validation       9         5.0 CONCLUSIONS AND RECOMMENDATIONS       11         5.1 Conclusions       11			2.4.2 Capacitor Endpoint Sample Collection	6
2.5       Excavation Backfill       7         2.6       Storm Water Control Installation       7         3.0       WASTE CHARACTERIZATION AND DISPOSAL       8         3.1       Waste Characterization       8         3.2       Waste Disposal       8         4.0       QUALITY ASSURANCE/QUALITY CONTROL       9         4.1       QA/QC Samples       9         4.2       Data Usability and Validation       9         5.0       CONCLUSIONS AND RECOMMENDATIONS       11         5.1       Conclusions       11				
2.6       Storm Water Control Installation				
3.0       WASTE CHARACTERIZATION AND DISPOSAL       8         3.1       Waste Characterization       8         3.2       Waste Disposal       8         4.0       QUALITY ASSURANCE/QUALITY CONTROL       9         4.1       QA/QC Samples       9         4.2       Data Usability and Validation       9         5.0       CONCLUSIONS AND RECOMMENDATIONS       11         5.1       Conclusions       11		2.5	Excavation Backfill	7
3.1       Waste Characterization		2.6	Storm Water Control Installation	7
3.1       Waste Characterization	3.0	WAST	E CHARACTERIZATION AND DISPOSAL	8
3.2       Waste Disposal       8         4.0       QUALITY ASSURANCE/QUALITY CONTROL       9         4.1       QA/QC Samples       9         4.2       Data Usability and Validation       9         5.0       CONCLUSIONS AND RECOMMENDATIONS       11         5.1       Conclusions       11		3.1	Waste Characterization	8
4.1       QA/QC Samples       9         4.2       Data Usability and Validation       9         5.0       CONCLUSIONS AND RECOMMENDATIONS       11         5.1       Conclusions       11		3.2		
4.1       QA/QC Samples       9         4.2       Data Usability and Validation       9         5.0       CONCLUSIONS AND RECOMMENDATIONS       11         5.1       Conclusions       11	40	QHAL	ITY ASSURANCE/QUALITY CONTROL	9
4.2Data Usability and Validation	1.0			
5.0 CONCLUSIONS AND RECOMMENDATIONS				
5.1 Conclusions11	5.0			
	5.0			
		5.2		



#### **FIGURES**

Figure 1	Vicinity Map
Figure 2	Site Plan
Figure 3	IRM Excavation and Delineation Soil Sampling
Figure 4	Endpoint Sampling Locations

#### **TABLES**

Table 1	Delineation Soil Sampling Analytical Data Summary
Table 2	Endpoint Sampling Analytical Data Summary

#### **APPENDICES**

Appendix A	Photo Log
Appendix B	Laboratory Analytical Reports (Delineation Soil Sampling)
Appendix C	Laboratory Analytical Reports (Endpoint Sampling)
Appendix D	NYSDEC Approval Letters
Appendix E	Backfill Material Source Letter and Sieve Analysis
Appendix F	Laboratory Analytical Reports (Waste Characterization)
Appendix G	Waste Manifests
Appendix H	Data Usability Summary Report



1

#### 1.0 INTRODUCTION

This interim remedial measure (IRM) report has been prepared by P.W. Grosser Consulting Inc. (PWGC), on behalf of the Suffolk County Department of Health Services (SCDHS), for the Former Canine Kennel Site at Francis S. Gabreski Airport in Westhampton Beach, New York (Suffolk County Tax Map number 900-312-1-1). This property is owned by Suffolk County and managed by the Department of Economic Development and Workforce Housing.

This report documents the results of the IRM activities performed at the above referenced property. The scope of work was based upon the IRM Work Plan (March 2012), IRM Addendum (May 18, 2012), and the requirements of the Suffolk County Department of Health Services (SCDHS) and New York State Department of Environmental Conservation (NYSDEC) for the subject property. NYSDEC approved the IRM Work Plan in a letter dated July 13, 2012. IRM activities were performed under the NYSDEC Brownfield Cleanup Program (BCP).

This IRM is not intended to be the final remedy for the site, a remedial work plan with alternatives analysis will be prepared to document the selection of the final remedy.

#### 1.1 Site Description

Francis S. Gabreski airport is located on County Road 31 in the Town of Southampton, New York and is owned by Suffolk County. The airport is located within the Long Island Pine Barrens which are characterized by open, sunlit woodlands dominated by pitch pine interspersed with white and scarlet oak. The nearby Quogue wildlife refuge is characterized by dwarf pitch pines ranging from 3 to 6 feet tall. The airport itself is characterized by surrounding woodled areas consisting of 25 foot pitch pines and scattered scrub oak. The airport has no commercially scheduled service, but does support private planes and presently is the home of the 106th Rescue Wing of the New York Air National Guard (NYANG).

The area of concern is a section of disturbed ground, approximately 1.0 acre in size and irregular in shape. The site is located in a remote portion of the airport, south of a former canine kennel and just east of a boat storage yard near the eastern property line of the airport. A Vicinity Map is included as **Figure 1**, and a site plan is included as **Figure 2**.

The property is currently zoned for light industrial use and is a portion of the Francis S. Gabreski Airport. The airport is located within the core preservation area of the central Pine Barrens. Since the Canine Kennel site is within the core Pine Barrens area, development is prohibited and the site will remain undeveloped.

#### 1.2 Site History

In 1943 the federal government built the airport for use as an Air Force base during World War II. After the war, it was given to Suffolk County. In 1951, the airport was reclaimed for the Korean War National Emergency. In 1960, the US Air Force leased the site for an Air Defense Command Base, which was deactivated in 1969, then released back to Suffolk County in 1970.

2

During deactivation activities (Spring 1970), the Suffolk County Air Base used the canine kennel area to bury inert wastes, such as office furniture. The site was also used for the disposal of polychlorinated biphenyl (PCB) containing electrical distribution equipment such as transformers and capacitors.

In March 1984, the NYSDEC discovered the site in response to a complaint from a local citizen's group. At that time, the NYSDEC observed several half-buried capacitors leaking PCB oil within a ten-foot deep pit. In May 1984, nine soil samples were collected for laboratory analysis. Eight contained the PCB Arcolor-1254 in concentrations up to 1,700 milligrams per kilogram (mg/kg).

In January 1986, a NYSDEC contractor noted that the pit was only half as deep as previously stated, and that the capacitors were no longer visible. The area showed signs of recent earthwork activities and was devoid of vegetation.

#### 1.2.1 Remedial Investigation

In November 2008, PWGC performed a subsurface investigation at the former Canine Kennel site. The investigation consisted of a geophysical survey, soil and groundwater sampling, test pit excavations and the removal of identified capacitors suspected to contain PCBs.

Geophysical and test pit investigations confirmed that the area of disposal was limited to the western/central portion of the site adjacent to the fence line and boatyard.

Pesticides were not detected in the site soil samples. The PCB Aroclor-1254 was detected in soil samples ranging in depth from 0-2 inches below ground surface (bgs) to approximately 8.5 feet bgs. Fifty-nine soil samples had concentrations of Aroclor-1254 above the Residential Use Soil Cleanup Objective (RUSCO) of 1.0 mg/kg ranging from 1.1 to 86,000 mg/kg (directly underneath one of the removed capacitors). Surface soil samples showed the largest area of impact (across the western and central areas of the site). PCBs were also detected at concentrations greater than the RUSCO in surface soils within the unpaved eastern portion of the adjacent boatyard. Spread of PCBs within surface soils at the site was determined to likely be a result of physical processes, including localized surface runoff of PCB-contaminated soils from the on-site disposal area westward following the surface topography.

PCBs in the 2.0-2.5 feet depth samples were limited to the western central area of the site and coincide with the main area of existing debris and the former capacitor locations. Three isolated areas of impact at depths of 4.0 feet bgs or greater were also identified, two of which coincided with the main area of debris and the former capacitor locations. A third area was identified northeast of the capacitor locations. No pesticides were detected in soil samples collected at the site.

Based on the findings of the RI completed in November 2008, PWGC recommended that an IRM be implemented at the site to remove PCB impacted soils from the unpaved portion of the boatyard and former capacitor areas.



#### 2.0 INTERIM REMEDIAL MEASURE

PWGC performed remedial activities at the site from August 2012 through April 2013. The IRM was performed in accordance with PWGC's approved IRM Work Plan (IRMWP) and IRM Addendum for the site.

#### 2.1 Scope of Work

The scope of work for the IRM consisted of the removal of PCB impacted soils from the unpaved portion of the boatyard and former capacitor locations. Remedial activities were performed by Metro Environmental Contracting Corp. (Metro) of Lindenhurst, New York.

The scope of work as detailed in the IRMWP included:

- Additional soil sampling to further delineate the extent of PCB impact within the unpaved portion of the boatyard.
- Removal and disposal of PCB impacted soil from the unpaved portion of the boatyard. Removal and disposal of PCB impacted soils from former capacitor locations (i.e., the locations with the most elevated concentrations of PCBs).
- Collection of endpoint samples to confirm the effectiveness of remedial activities.
- Backfill of capacitor location excavations to prevent residual PCB impacted soils from being exposed to the environment.
- Installation of storm water control to prevent storm water runoff from entering the boatyard.

Photo documentation of IRM activities is included as **Appendix A**.

#### 2.2 Boatyard PCB Delineation

In order to further delineate PCB impacted soils, PWGC collected soil samples from throughout the unpaved portion of the boatyard. Delineation sampling was designed to determine excavation boundaries and depths for the IRM.

#### 2.2.1 Sample Collection

PWGC mobilized to the site on August 23, 2012 to perform delineation soil sampling. A total of twelve soil samples were collected from the boatyard. In accordance with the IRMWP, soil borings were installed manually, utilizing a properly decontaminated stainless steel hand-auger. Delineation soil sample locations are illustrated in **Figure 3**.

At each sample location, soil samples were collected continuously, in six inch intervals, to a depth of two feet below ground surface (bgs) (i.e. 0 to 6 inches, 6 to 12 inches, 12 to 18 inches, 18 to 24 inches), with the exception of locations DS001, DS002, and DS003. Due to prior surface sampling near these three locations during the RI, samples collected at locations DS001, DS002, and DS003 were collected from the 6 to 12 inch interval only.

Soil sampling and equipment decontamination was performed in accordance with the USEPA SOP #2001 General Field Sampling Guidelines, SOP #2012 Soil Sampling, and SOP #2006 Sampling Equipment

4

Decontamination.

2.2.2 Sample Analysis

Samples were collected in pre-cleaned, pre-preserved (where applicable), laboratory supplied glassware and stored in a cooler packed with ice for shipment to the analytical laboratory. Samples were shipped under proper

chain-of-custody procedures via UPS to Chemtech Laboratory of Mountainside, New Jersey, a New York State

Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory (ELAP ID:

11376). Samples were analyzed for the presence of PCBs by USEPA Method 8082.

Initially, the shallowest sample from each location was submitted to the laboratory for analysis; in the event that

PCB concentrations exceeded the NYSDEC RUSCO of 1.0 part per million (ppm), the next deepest interval was

submitted for analysis. Where necessary, this process was repeated with deeper samples until PCB concentrations

were below 1.0 ppm.

Analytical services were performed in accordance with NYSDEC Analytical Services Protocol (ASP) with Category

B deliverables (ASP-B). Laboratory analytical reports (results only) are included as **Appendix B**; full ASP-B reports

are included on the enclosed CD-ROM.

2.2.3 Analytical Results

Delineation soil sample results were compared to the NYSDEC RUSCO of 1.0 ppm for PCBs. Delineation soil sample

analytical data is summarized in Table 1.

Based on analytical data, Aroclor-1254 was detected at concentrations exceeding its NYSDEC RUSCO in three of

the twelve samples submitted from the 0 to 6 inch interval (locations DS005, DS006, and DS008). Based on these

results, samples collected from the 6 to 12 inch interval at these locations were analyzed. PCB concentrations in

remaining delineation samples did not exceed the NYSDEC RUSCO of 1.0 ppm.

PCB concentrations in samples collected from the 6 to 12 inch interval from locations DS006 and DS008 were

below their NYSCDEC RUSCO. Aroclor-1254 was detected at a concentration exceeding its NYSDEC RUSCO in the

sample collected form the 6 to 12 inch interval at location DS005. Because PCB concentrations in the 6 to 12 inch

sample at DS005 only slightly exceeded the RUSCO of 1.0 ppm, the 12 to 18 inch sample was not analyzed with

additional soils to be removed as necessary during excavation activities.

2.3 Boatyard Soil Removal

PWGC utilized the results of the RI and delineation soil sampling to determine the necessary excavation

boundaries for removal of PCB impacted soils (illustrated in **Figure 3**). Based on sample data, PWGC determined

that the initial excavation depth throughout the excavation area would be to 6 inches bgs, with the provision that

additional (deeper) soils would be removed as necessary based on endpoint sampling results.

PWGC performed air monitoring for VOCs and particulates during excavation activities utilizing a PID and dust

5

monitor.

2.3.1 Boatyard Soil Removal

PWGC and Metro mobilized to the site from November 6, 2012 through November 28, 2012 to implement IRM activities within the boatyard. Soils within the unpaved portion of the boatyard were excavated to a depth of 6 inches below existing grade. Following removal of soils to a depth of 6 inches bgs, endpoint samples were collected from 21 locations within the excavation area. Based on endpoint sample results (see Section 2.2.2), additional soil removal was performed in 8 foot by 8 foot area in the vicinity of endpoint samples EP001, EP007,

EP008, EP018 and EP020. Additional excavation in these areas was to 12 inches bgs, with the exception of EP001,

where the excavation extended to 18 inches bgs. A total of approximately 200 tons of soil were removed from

the boatyard.

Upon removal, soils were temporarily stockpiled within the excavation area prior to transport (via dump truck) to a

stockpile within the staging area. Soils within the staging area were stockpiled on 15 mil polyethylene sheeting;

during non-work hours, the stockpile was covered with polyethylene sheeting and surrounded with silt fence to

prevent storm water runoff from transporting impacted soils.

2.3.2 Boatyard Endpoint Sample Collection

Following removal of impacted soils from the boatyard, 21 endpoint samples were collected throughout the

excavation area to confirm the effectiveness of remedial activities. Endpoint samples were collected from a

depth of 0 to 6 inches below the bottom of the initial excavation depth of six inches bgs (6 to 12 inches below pre-existing grade), utilizing a properly decontaminated stainless steel hand auger. Where necessary, additional

endpoint samples were collected following removal of additional soils.

2.3.3 Boatyard Endpoint Sample Analysis

Samples were collected in pre-cleaned, pre-preserved (where applicable), laboratory supplied glassware and

stored in a cooler packed with ice for shipment to the analytical laboratory. Samples were shipped under proper

chain-of-custody procedures via UPS to Chemtech Laboratory of Mountainside, New Jersey, a NYSDOH ELAP

certified laboratory (ELAP ID: 11376). Samples were analyzed for the presence of PCBs by USEPA Method 8082.

Analytical services were performed in accordance with NYSDEC Analytical Services Protocol (ASP) with Category

B deliverables (ASP-B). Laboratory analytical reports (results only) are included as **Appendix C**; full ASP-B reports

are included on the enclosed CD-ROM.

2.3.4 Boatyard Endpoint Analytical Results

Endpoint sampling results were compared to the NYSDEC RUSCO of 1.0 ppb for PCBs. Endpoint soil sample

analytical data is summarized in **Table 2**.

PCB concentrations in initial endpoint samples collected from 6 to 12 inches bgs (0 to 6 inches below the

excavation bottom) were below NYSDEC RUSCOs for each sample locations with the exception of locations

6

EP001, EP007, EP008, EP018 and EP020. At each of these locations, additional soils were removed to a depth of 12 inches bgs (locations EP007, EP008, EP018 and EP020) or 18 inches bgs (location EP001) and additional endpoint samples were collected. Following removal of additional soils, PCB concentrations in endpoint samples at locations EP001, EP007, EP008, EP018 and EP020 were below NYSDEC RUSCOs.

#### 2.4 Capacitor Location Soil Removal

The RI identified elevated concentration of PCBs in surface soils throughout the site. The highest PCB concentrations were detected in the immediate vicinity of three former capacitor locations (identified as locations CA-1, CA-2, and CA-3 in **Figure 3**). PCB concentrations in the former capacitor locations ranged from 1,300 ppm to 88,600 ppm. Based upon these findings, PWGC determined that soils at these locations would be excavated to one foot bgs.

PWGC performed air monitoring for VOCs and particulates during excavation activities utilizing a PID and dust monitor

#### 2.4.1 Capacitor Soil Removal

PWGC and Metro mobilized to the site on November 6, 2012 to excavate and remove impacted soils from the three former capacitor areas (CA-1, CA-2 and CA-3). Utilizing a mini excavator, soils were removed to a depth of one foot bgs from a 10 foot by 10 foot area surrounding each of the former capacitor locations. A total of approximately 30 tons of soil were removed from the capacitor areas.

Upon removal, soils were loaded into a skid steer bucket and then transferred to a nearby dump truck for transport to a stockpile in the staging area. Polyethylene sheeting was placed on the ground under the skid steer bucket during soil transfer to prevent the spread of contamination. Soils within the staging area were stockpiled on 15 mil polyethylene sheeting; during non-work hours, the stockpile was covered with polyethylene sheeting and surrounded with silt fence to prevent storm water runoff from transporting impacted soils.

#### 2.4.2 Capacitor Endpoint Sample Collection

Following removal of impacted soils from the former capacitor areas, one endpoint sample was collected at a depth of 0 to 6 inches below the excavation depth of one foot bgs (12 to 18 inches below pre-existing grade) from the center of each excavation to confirm the effectiveness of remedial activities. Samples were collected utilizing a properly decontaminated stainless steel hand auger.

#### 2.4.3 Capacitor Endpoint Sample Analysis

Samples were collected in pre-cleaned, pre-preserved (where applicable), laboratory supplied glassware and stored in a cooler packed with ice for shipment to the analytical laboratory. Samples were shipped under proper chain-of-custody procedures via UPS to Chemtech Laboratory of Mountainside, New Jersey, a NYSDOH ELAP certified laboratory (ELAP ID: 11376). Samples were analyzed for the presence of PCBs by USEPA Method 8082.

Analytical services were performed in accordance with NYSDEC Analytical Services Protocol (ASP) with Category

PWGC 9

7

B deliverables (ASP-B). Laboratory analytical reports (results only) are included as **Appendix C**; full ASP-B reports are included on the enclosed CD-ROM.

#### 2.4.4 Capacitor Endpoint Analytical Results

Endpoint sampling results were compared to the site specific soil cleanup objective (SCO) of 1,000 ppm for PCBs, as specified in the approved IRM Work Plan. Endpoint soil sample analytical data is summarized in **Table 2**.

PCB concentrations in endpoint soil samples collected within excavation areas CA-1, CA-2, and CA-3 did not exceed the site specific SCO of 1,000 ppm. Endpoint samples collected from capacitor locations CA-2 and CA-3 were below the NYSDEC RUSCO of 1.0 ppm for PCBs, while the endpoint sample from capacitor location CA-1 only slightly exceeded the NYSDEC RUSCO (1.2 ppm).

#### 2.5 Excavation Backfill

Boatyard and capacitor area excavations were backfilled to pre-existing grade with clean fill material, compacted, and capped with RCA.

A total of 210 cubic yards (yds³) of clean fill material was brought to the site from the Gallipoli property, located at Strongs Road, East Patchogue, New York and a total of 100 yds³ of RCA was brought to the site from Con-Strux, LLC., of Lindenhurst, New York. Clean backfill and RCA was approved by the NYSDEC in emails dated January 7 and March 28, 2013.

NYSDEC backfill material approval e-mails are included as **Appendix D**; descriptions of the backfill and RCA and their sources are included as **Appendix E**.

#### 2.6 Storm Water Control Installation

Following the removal of impacted soils from the boatyard a one foot tall, earthen berm was installed along the eastern property boundary. The berm was installed to minimize overland storm water runoff from the former Canine Kennel site to the boatyard, and prevent transport of residual PCB impact from the former Canine Kennel site to the boatyard. The location of the berm is illustrated in **Figure 2**. The berm was installed using NYSDEC approved backfill material. The berm was capped with recycled concrete aggregate (RCA) and compacted.

NYSDEC backfill material approval e-mails are included as **Appendix D**; descriptions of the backfill and RCA and their sources are included as **Appendix E**.



#### 3.0 WASTE CHARACTERIZATION AND DISPOSAL

#### 3.1 Waste Characterization

Following excavation, PWGC collected waste characterization samples from the stockpiled soil in accordance with the disposal facility's requirements. Based on the generated waste volume, a total of four waste characterization samples were collected. Grab samples were collected for VOC analysis; four-point composite samples were collected for other parameters. Samples were collected directly from the soil stockpile in accordance with disposal facility sampling requirements.

Samples were collected in pre-cleaned, pre-preserved (where applicable), laboratory supplied glassware and stored in a cooler packed with ice for shipment to the analytical laboratory. Samples were shipped under proper chain-of-custody procedures via UPS to Chemtech Laboratory of Mountainside, New Jersey, a NYSDOH ELAP certified laboratory (ELAP ID: 11376). Based on disposal facility requirements, samples were analyzed for the following:

- VOCs by USEPA Method 8260
- SVOCs by USEPA Method 8270
- Total metals by USEPA Method 6010/7471
- PCBs by USEPA Method 8082.
- Hazardous waste characteristics (corrosivity, ignitability, reactivity)

Waste characterization sampling results were provided to the disposal facility for waste acceptance. Laboratory analytical reports for waste characterization samples are included as **Appendix F**.

#### 3.2 Waste Disposal

A total of 227.23 tons of hazardous soils were generated and disposed of during implementation of the IRM. Excavated soils were transported by a licensed waste hauler, and disposed of at CWM Chemical Services LLC in Model City, New York (USEPA ID: NYD049836679). Copies of waste manifests and disposal receipts are included as **Appendix G**.



#### 4.0 QUALITY ASSURANCE/QUALITY CONTROL

The overall quality assurance/quality control (QA/QC) objective for the field investigation was to develop and implement procedures that provide data of known and documented quality. QA/QC characteristics for data include precision, accuracy, representativeness, completeness, and comparability. The purpose of the QA/QC activities developed for this site were to verify the integrity of the work performed and data collected is of the appropriate type and quality for the intended use.

#### 4.1 QA/QC Samples

To assess the adequacy of the sample collection and decontamination procedures performed in the field, QA/QC samples were collected and analyzed throughout the field sampling program. QA/QC samples included field blanks, blind duplicates, matrix spike (MS), and matrix spike duplicates (MSD). Types and frequencies of field QA/QC samples are listed below.

Type Frequency

Field Blank
One per day per matrix sampled
Blind Duplicate
One per 20 samples per matrix
Matrix Spike/Matrix Spike Duplicate
One per 20 samples per matrix

In general, QA/QC samples confirmed that the procedures performed in the field were consistent and acceptable. Targeted analytes were not detected above the laboratory MDL in field blank samples submitted for analysis, indicating that sample collection procedures and/or ambient conditions are unlikely to have impacted environmental samples collected from the site during implementation of the IRM.

#### 4.2 Data Usability and Validation

A Data Validation Report and a Data Usability Summary Report (DUSR) were prepared by Stone Environmental, Inc. (Stone) of Montpelier, Vermont. A copy of the DUSR (with the Data Validation Report included as an attachment) is included as **Appendix H**.

#### Data Validation

In accordance with the approved IRMWP, full data validation was performed on 10% of the data generated. Remaining data received a summary validation as detailed in the DUSR. The findings and recommendations of the Data Validation Report (included as Attachment C to the DUSR) are summarized as follows:

The result for AR1254 in EP019(6-12) was qualified as estimated (J) and the result for AR1254 in EP021(6-12) was qualified as tentatively identified and estimated (JN).

Results for AR1254 in EP001B(12-18), FieldDup002, and EP020(6-12) were rejected (R) due to detection of these compounds outside the linear range of the instrument. Results for this compound were replaced with the acceptable concentrations from the more diluted analysis of these samples (EP001B(12-18)DL, FieldDup002DL,

PWGC 9

10

and EP020(6-12)DL).

Results for the Aroclor compounds except for AR1254 in the diluted analyses of EP001B(12-18)DL, FieldDup002DL, and EP020(6-12)DL were rejected (R) because acceptable results for these compounds were taken from the

original (less diluted) analysis of these samples.

The low standard concentration for these methods supports the LOQ reported value as recorded on Form I but does not support the laboratories' method detection limit concentration in the analytical sequence. Since the concentration reported with a "U" on all reports is not supported by the concentration of the low standard which provides precision and bias during these analyses for identification and quantitation, results for all non-detects in all samples have been qualified as estimated (UJ). The low standard of the calibration curve performed for these

methods supports the limit of quantitation (LOQ) concentration on Form I and not the MDL concentration;

therefore, sensitivity at the MFL could not be assessed based on the data package alone.

"E" qualifiers were appropriately applied by the laboratory to sample Form I results when concentrations of target analytes were greater than the instrument calibration range. "D" qualifiers were appropriately applied by the laboratory to positive results from Diluted sample analyses. The validator removed all laboratory "E" and "D"

qualifiers.

**Data Usability** 

The DUSR was prepared in accordance with USEPA Region II SOPs for validating 8082A PCB analyses and was based on a review of the laboratory SDG case narrative and full "Tier-III", third-party data validation report (detailed above). The findings and recommendations of the DUSR are summarized as follows:

Data represents adequate method accuracy and precision with regard to project objectives.

The completeness level attained for the analysis of the field samples was greater than 95%. For all data, the

overall quality of the data was acceptable and all results as qualified are considered usable.

PWGC 9

11

5.0 CONCLUSIONS AND RECOMMENDATIONS

PWGC implemented an IRM at the boatyard and former capacitor area locations on behalf of SCDHS at the

Former Canine Kennel at Francis S. Gabreski Airport. The IRM was implemented in accordance with the IRM Work

Plan (March 2012), IRM Addendum (May 18, 2012), and the requirements of the Suffolk County Department of Health Services (SCDHS) and New York State Department of Environmental Conservation (NYSDEC) for the subject

property. IRM activities were performed under the NYSDEC Brownfield Cleanup Program (BCP).

The scope of work for the IRM consisted of: additional delineation sampling within the boatyard, removal and

proper disposal of PCB impacted soils from within the boatyard and former capacitor locations, collection of

confirmatory endpoint samples, backfill of excavations, and installation of storm water controls.

5.1 Conclusions

PWGC performed delineation soil sampling to determine the necessary excavation boundaries within the

boatyard. Following delineation, soils were removed from the excavation area to a depth of six inches bgs.

Based on endpoint sampling, additional soils were removed (to depths of 12 to 18 inches bgs) at several locations.

Following additional soil removal, PCB concentrations in endpoint samples were below the NYSDEC RUSCO of 1.0

ppm.

Soils were removed to a depth of one foot bgs in the vicinity of former capacitor locations CA-1, CA-2 and CA-3.

Following soil removal, PCB concentrations in endpoint samples were below the site specific SCO of 1,000 ppm.

Endpoint samples collected from capacitor locations CA-2 and CA-3 were below the NYSDEC RUSCO of 1.0 ppm

for PCBs, while the endpoint sample from capacitor location CA-1 only slightly exceeded the NYSDEC RUSCO (1.2

ppm).

IRM excavation activities within the boatyard and capacitor locations generated a total of 227.23 tons of PCB

contaminated soils. Excavated soils were transported by a licensed waste hauler, and disposed of at CWM

Chemical Services LLC in Model City, New York (USEPA ID: NYD049836679).

Upon completion of soil removal activities, excavation areas were backfilled with NYSDEC approved backfill

material and capped with RCA. Additionally, a one foot high earthen berm constructed of NYSDEC approved

backfill material and capped with RCA was installed at the eastern boundary of the boatyard to minimize

overland runoff of storm water from the former Canine Kennel site into the boatyard.

5.2 Recommendations

Based on the results of the IRM, PWGC offers the following recommendations:

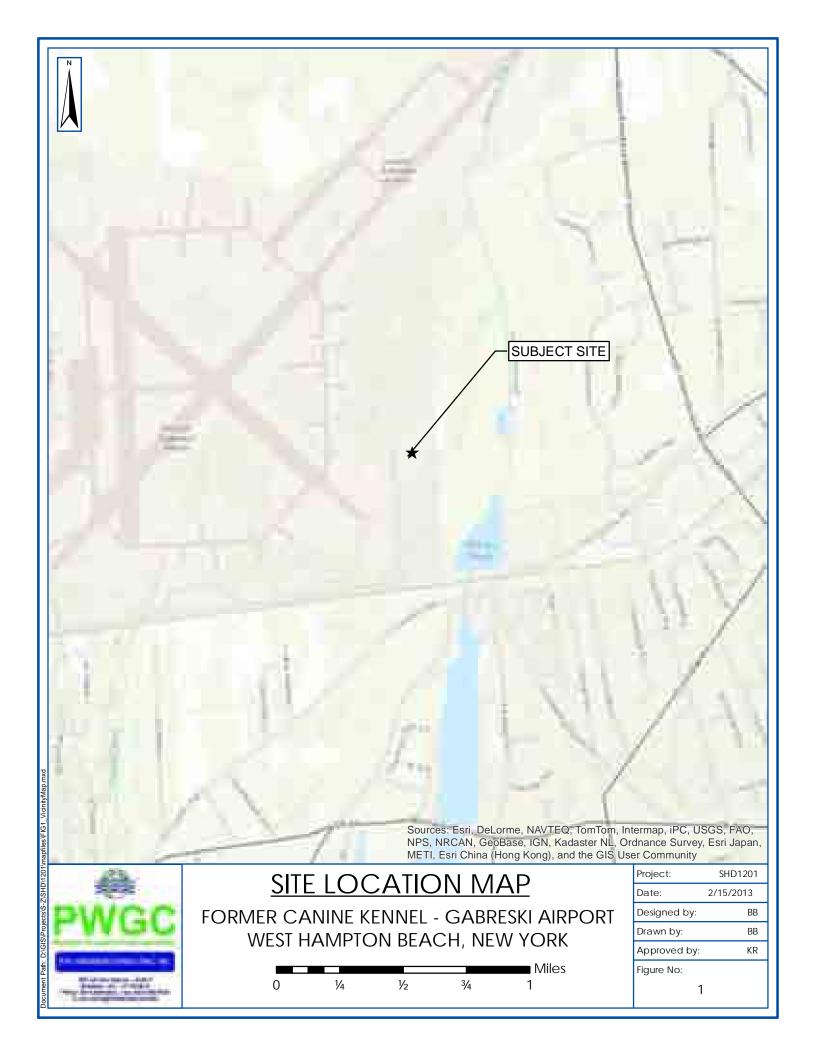
The soil removal action within the boatyard appears to have satisfactorily addressed PCB impacted soils

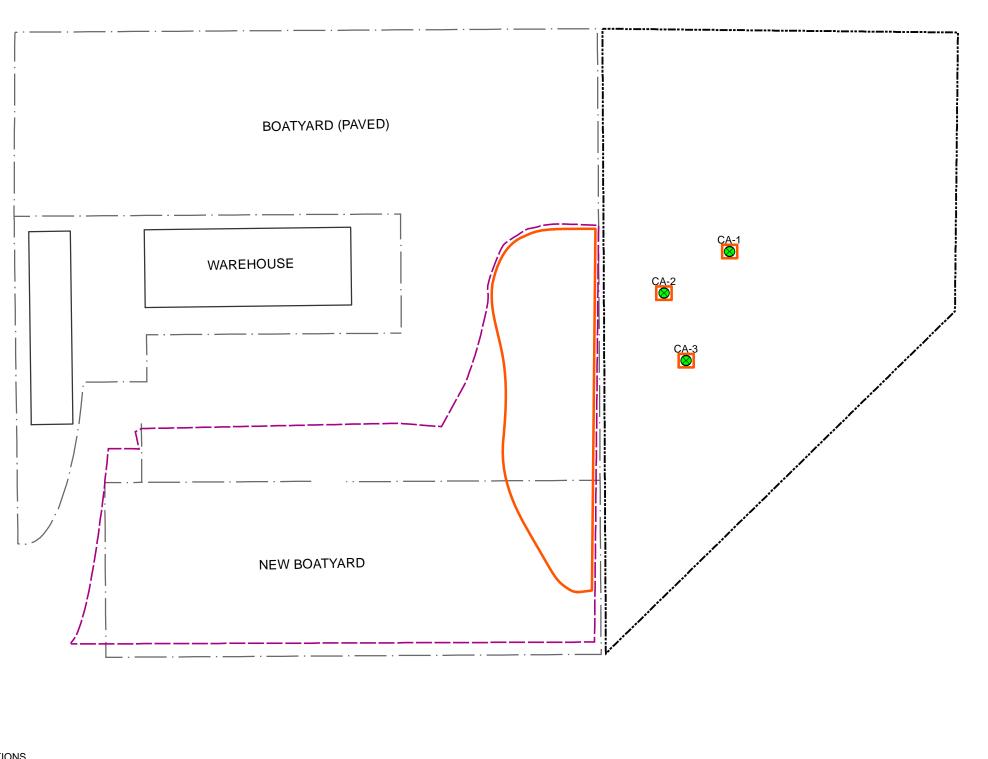
within this area. As such, PWGC recommends no further action for the boatyard portion of the site.



• Despite the removal of contaminated soil from the former capacitor areas, there are still areas of the site containing concentrations of Aroclor-1254 ranging from 1.1 ppm to 4,200 ppm at depths of 0 to 6.5 feet bgs. PWGC recommends that a Remedial Work Plan (RWP) with Alternatives Analysis (AA), as described in the Brownfields Cleanup Program (BCP), be prepared. The RWP should include evaluation of alternatives that would meet different tracks as described in 6 NYCRR Part 375; Track 1-unrestricted use, Track 2 – restricted use with generic cleanup goals, Track 3 – restricted use with modified soil cleanup objectives, and/or Track 4 – restricted use with site-specific soil cleanup objectives. A no action alternative should also be evaluated.

# **FIGURES**



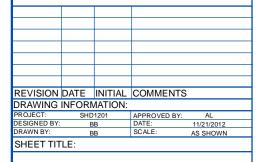


с існовавії сіоніцьтіна CO mines freque - bits f Sparse - Nr. - 10'00 dry www. Still 180-950 - Fax 15'00 despring E-stat 187-05g/neg/tathetics - 10'00

DRAWING AND RELATED DOCUMENTS IS A VIOLATION
OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW

DRAWINGS PREPARED FOR:

SUFFOLK COUNTY DEPT. OF HEALTH SERVICES OFFICE OF POLLUTION CONTROL 15 HORSEBLOCK PLACE FARMINGVILLE, NEW YORK 11738



FORMER CANINE KENNEL GABRESKI AIRPORT WEST HAMPTON, NEW YORK

PROPOSED IRM EXCAVATION

FIGURE NO:

SHEET:

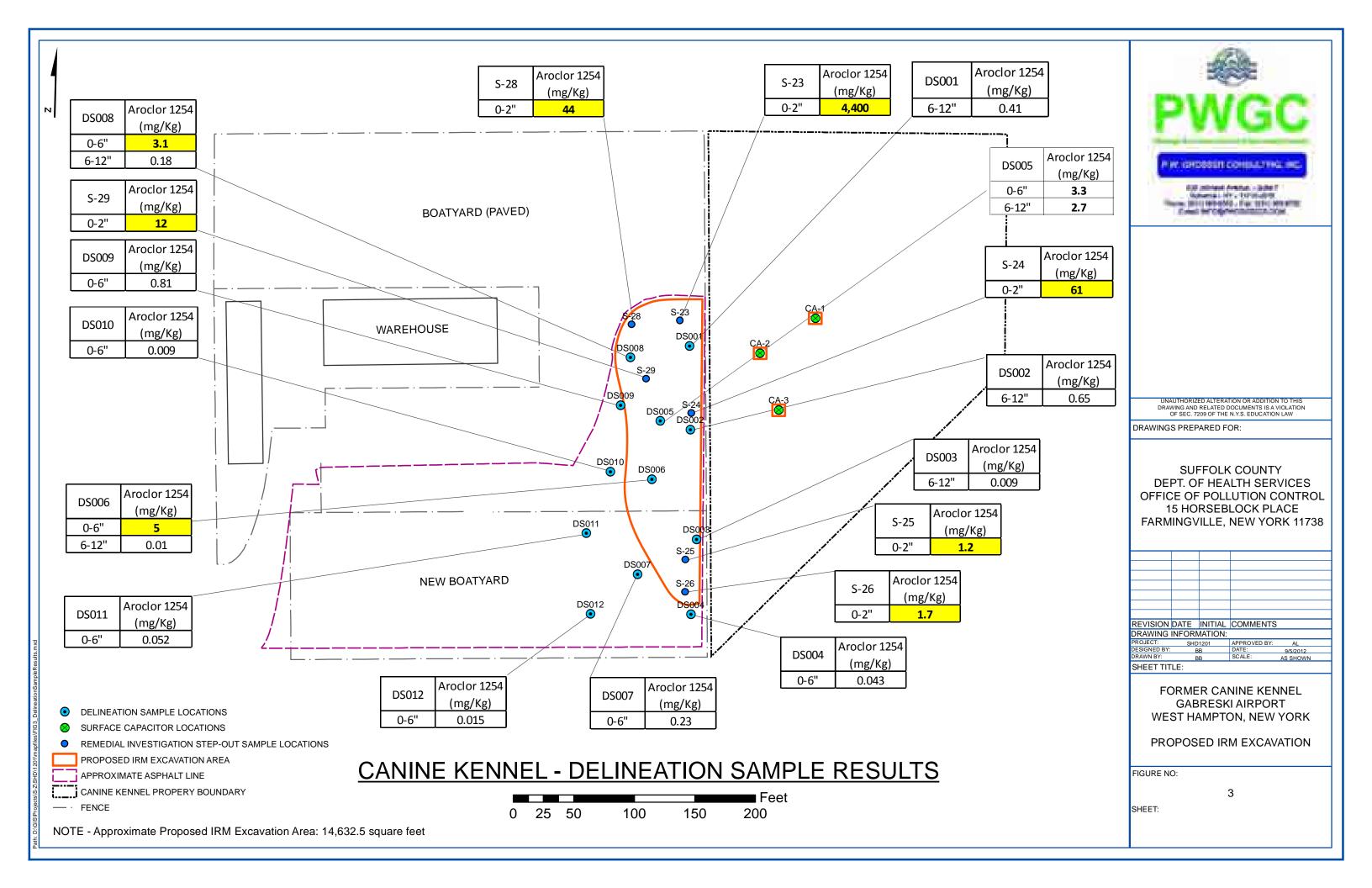
SURFACE CAPACITOR LOCATIONS PROPOSED IRM EXCAVATION AREA APPROXIMATE ASPHALT LINE

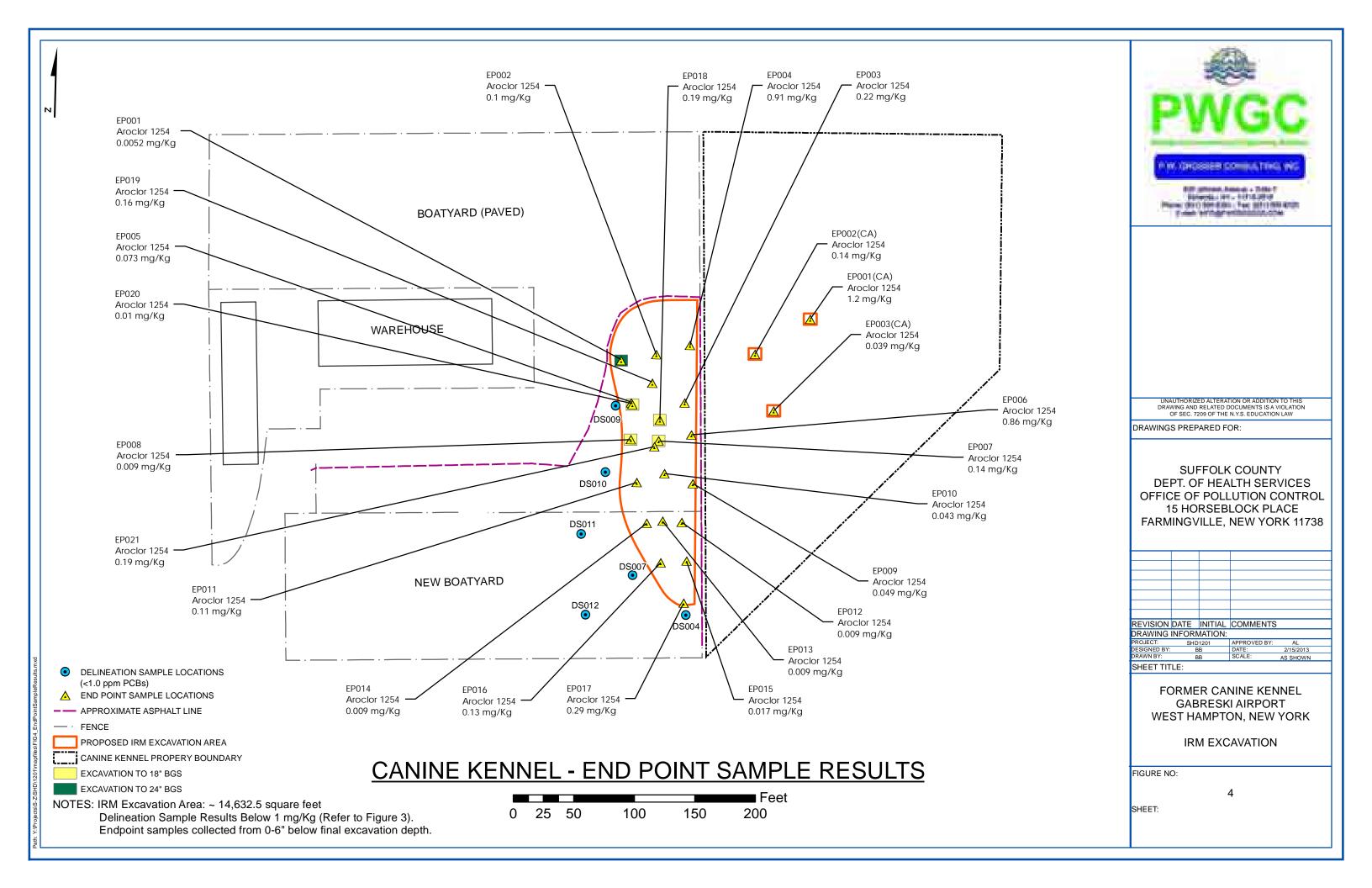
CANINE KENNEL PROPERY BOUNDARY - · FENCE

NOTE - Approximate Proposed IRM Excavation Area: 14,632.5 square feet

**CANINE KENNEL - SITE PLAN** 

Feet 0 25 50 100 150 200





## **TABLES**

Table 1

Delineation Soil Sample Analytical Data Summary
Former Canine Kennel Site, Westhampton Beach, New York

Sample ID	NYSDEC	DS001		DS002		DS003		DS004	DS004		5	DS00	5	DS00	6	DS006		DS00	7
Sample Depth	Residential Use	(6-12"	)	(6-12")		(6-12")		(0-6")		(0-6')		(6-12	")	(0-6"	)	(6-12'	)	(0-6")	)
Sample Date	SCO <sup>1</sup>	8/23/20	12	8/23/2012		8/23/20	)12	8/23/20	)12	8/23/2012		8/23/2012		8/23/2012		8/23/20	)12	8/23/20	012
PCBs by USEPA Metho	d 8082																		
Aroclor-1016	1	0.0205	UD	0.0455	UD	0.009	U	0.009	U	0.09	UD	0.09	UD	0.18	UD	0.009	U	0.01	U
Aroclor-1221	1	0.0205	UD	0.0455	UD	0.009	U	0.009	U	0.09	UD	0.09	UD	0.18	UD	0.009	U	0.01	U
Aroclor-1232	1	0.0205	UD	0.0455	UD	0.009	U	0.009	U	0.09	UD	0.09	UD	0.18	UD	0.009	U	0.01	U
Aroclor-1242	1	0.0205	UD	0.0455	UD	0.009	U	0.009	U	0.09	UD	0.09	UD	0.18	UD	0.009	U	0.01	U
Aroclor-1248	1	0.0205	UD	0.0455	UD	0.009	U	0.009	U	0.09	UD	0.09	UD	0.18	UD	0.009	U	0.01	U
Aroclor-1254	1	0.41	DP	0.65	D	0.009	U	0.043	Р	3.3	D	2.7	D	5.0	D	0.01	J	0.23	
Aroclor-1260	1	0.0205	UD	0.0455	UD	0.009	U	0.009	U	0.09	UD	0.09	UD	0.18	UD	0.009	U	0.01	U

Sample ID	NYSDEC	DS008		DS008		DS009		DS010		DS011		DS012	2	FieldDup	001*	FieldDup0	02**
Sample Depth	Residential Use	(0-6'	)	(6-12")		(0-6")		(0-6")		(0-6")		(0-6")					
Sample Date	SCO <sup>1</sup>	8/23/2	012	8/23/2012		8/23/2012		8/23/2012		8/23/20	12	8/23/20	12	8/23/20	)12	8/23/20	12
PCBs by USEPA Method	d 8082																
Aroclor-1016	1	90	UD	0.009	U	0.0445	UD	0.009	U	0.009	U	0.009	U	0.018	UD	0.009	U
Aroclor-1221	1	90	UD	0.009	U	0.0445	UD	0.009	U	0.009	U	0.009	U	0.018	UD	0.009	U
Aroclor-1232	1	90	UD	0.009	U	0.0445	UD	0.009	U	0.009	U	0.009	U	0.018	UD	0.009	U
Aroclor-1242	1	90	UD	0.009	U	0.0445	UD	0.009	U	0.009	U	0.009	U	0.018	UD	0.009	U
Aroclor-1248	1	90	UD	0.009	U	0.0445	UD	0.009	U	0.009	U	0.009	U	0.018	UD	0.009	U
Aroclor-1254	1	3.1	D	0.18	U	0.81	D	0.009	U	0.052		0.015	J	4.7	D	0.081	
Aroclor-1260	1	90	UD	0.009	U	0.0445	UD	0.009	U	0.009	U	0.009	U	0.018	UD	0.009	U

#### Notes:

All concentrations are mg/kg (ppm)

- 1- Residential Use Soil Cleanup Objectives (SCO), 6 NYCRR Part 375-6, Remediation Program Soil Cleanup Objectives
- U The compound was not detected at the indicated concentration.
- J Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater. The concentration given is an estimated value.
- P For dual column analysis, the percent difference between the quantitated concentrations on the two columns is less than 25%.
- D The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

Highlighted values indicate exceedance of the NYSDEC Cleanup Objective

- \* FieldDup001 is a QA/QC duplicate sample of DS008 @ 0-6"
- \*\*FieldDUp002 is a QA/QC duplicate sample of DS010 @ 0-6"

#### Table 2

# Endpoint Soil Sample Analytical Data Summary Former Canine Kennel Site, Westhampton Beach, New York

Sample ID	NYSDEC	Site Specific	EP001(C		EP002(C	A)†	EP003(C		EP00		EP001		EP0010		EP002		EP003		EP00		EP005		EP006	5	EP00	
Sample Depth	Residential Use	SCO <sup>2</sup>	(0-6")	)	(0-6")		(0-6")		(0-6"	)	(6-12	")	(12-18	")	(0-6")		(0-6")		(0-6")	)	(0-6")		(0-6")		(0-6	)
Sample Date	SCO <sup>1</sup>		11/6/20	012	11/6/20	12	11/6/20	12	11/12/2	012	11/20/2	2012	11/228/2	012	11/12/20	012	11/12/20	)12	11/6/20	)12	11/12/20	)12	11/12/20	012	11/12/2	2012
PCBs by USEPA Metho	od 8082																									
Aroclor-1016	1	1,000	0.085	UD	0.009	U	0.009	U	0.095	UD	0.085	UD	0.009	U	0.009	U	0.009	U	0.09	UD	0.009	U	0.0465	UD	0.19	UD
Aroclor-1221	1	1,000	0.085	UD	0.009	U	0.009	U	0.095	UD	0.085	UD	0.009	U	0.009	U	0.009	U	0.09	UD	0.009	U	0.0465	UD	0.19	UD
Aroclor-1232	1	1,000	0.085	UD	0.009	U	0.009	U	0.095	UD	0.085	UD	0.009	U	0.009	U	0.009	U	0.09	UD	0.009	U	0.0465	UD	0.19	UD
Aroclor-1242	1	1,000	0.085	UD	0.009	U	0.009	U	0.095	UD	0.085	UD	0.009	U	0.009	U	0.009	U	0.09	UD	0.009	U	0.0465	UD	0.19	UD
Aroclor-1248	1	1,000	0.085	UD	0.009	U	0.009	U	0.095	UD	0.085	UD	0.009	U	0.009	U	0.009	U	0.09	UD	0.009	U	0.0465	UD	0.19	UD
Aroclor-1254	1	1,000	1.2	DP	0.14		0.039		1.2	D	2.9	D	0.0052	JP	0.1		0.22		0.91	DP	0.073		0.86	D	3.8	D
Aroclor-1260	1	1,000	0.085	UD	0.009	U	0.009	U	0.095	UD	0.085	UD	0.009	U	0.009	U	0.009	U	0.09	UD	0.009	U	0.0465	UD	0.19	UD

Sample ID	NYSDEC Residential Use	Site Specific SCO <sup>2</sup>	EP007		EP00		EP008		EP009		EP01		EP011		EP012		EP013		EP014		EP015	;	EP016	,	EP017	
Sample Depth		300	(6-12'	)	(0-6"	)	(6-12'	)	(0-6")	)	(0-6"	)	(0-6")		(0-6")		(0-6")		(0-6")		(0-6")		(0-6")		(0-6")	
Sample Date	sco'		11/20/2	012	11/12/2	012	11/20/2	012	11/12/20	012	11/12/2	012	11/12/20	012	11/9/20	12	11/9/20	12	11/9/20	12	11/9/20	12	11/9/20	12	11/9/20	12
PCBs by USEPA Metho	d 8082																									
Aroclor-1016	1	1,000	0.0095	U	0.095	UD	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U
Aroclor-1221	1	1,000	0.0095	U	0.095	UD	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U
Aroclor-1232	1	1,000	0.0095	U	0.095	UD	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U
Aroclor-1242	1	1,000	0.0095	U	0.095	UD	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U
Aroclor-1248	1	1,000	0.0095	U	0.095	UD	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U
Aroclor-1254	1	1,000	0.140		1.2	D	0.009	U	0.049		0.043	Р	0.11		0.009	U	0.009	U	0.009	U	0.017	J	0.130		0.290	
Aroclor-1260	1	1,000	0.0095	U	0.095	UD	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U	0.009	U

Sample ID Sample Depth	NYSDEC Residential Use	Site Specific SCO <sup>2</sup>	EP01 (0-6		EP018 (6-12"		EP01 <sup>,</sup> (0-6"		EP02 (0-6		EP020 (6-12		EP02 <sup>°</sup> (0-6"		FIELDDUF	001*	FIELDDUP	002**	FIELDBLAN	IK001	FIELDBLAN	K002	FIELDBLAN	K003	FIELDBLAN	K003
Sample Date	sco'		11/13/2		11/20/20		11/20/2		11/20/2		11/28/2		11/20/2		11/6/20	12	11/20/2	012	11/9/20	12	11/12/20	12	11/20/20	12	11/28/20	012
PCBs by USEPA Metho	od 8082																									
Aroclor-1016	1	1,000	0.185	UD	0.0095	U	0.009	U	0.09	UD	0.009	U	0.009	U	0.085	UD	0.09	UD	0.00025	U	0.00026	U	0.00026	U	0.00028	U
Aroclor-1221	1	1,000	0.185	UD	0.0095	U	0.009	U	0.09	UD	0.009	U	0.009	U	0.085	UD	0.09	UD	0.00025	U	0.00026	U	0.00026	U	0.00028	U
Aroclor-1232	1	1,000	0.185	UD	0.0095	U	0.009	U	0.09	UD	0.009	U	0.009	U	0.085	UD	0.09	UD	0.00025	U	0.00026	U	0.00026	U	0.00028	U
Aroclor-1242	1	1,000	0.185	UD	0.0095	U	0.009	U	0.09	UD	0.009	U	0.009	U	0.085	UD	0.09	UD	0.00025	U	0.00026	U	0.00026	U	0.00028	U
Aroclor-1248	1	1,000	0.185	UD	0.0095	U	0.009	U	0.09	UD	0.009	U	0.009	U	0.085	UD	0.09	UD	0.00025	U	0.00026	U	0.00026	U	0.00028	U
Aroclor-1254	1	1,000	4.3	D	0.190		0.160	Р	1.0	D	0.01	J	0.19	Р	0.89	DP	2.7	D	0.00025	U	0.00026	U	0.00026	U	0.00028	U
Aroclor-1260	1	1.000	0.185	UD	0.0095	U	0.009	U	0.09	UD	0.009	U	0.009	U	0.085	UD	0.09	UD	0.00025	U	0.00026	U	0.00026	U	0.00028	U

#### Notes:

All concentrations are mg/kg (ppm)

All sample depths are measured from the bottom of the intial excavation depth (i.e., six inches in boatyard, 12 inches in capacitor area)

- 1- Residential Use Soil Cleanup Objectives (SCO), 6 NYCRR Part 375-6, Remediation Program Soil Cleanup Objectives
- 2- Site Specific SCO, as specified in the approved IRM Work Plan, applies to Capacitor Area endpoint samples
- U The compound was not detected at the indicated concentration.
- J Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater. The concentration given is an estimated value.
- P For dual column analysis, the percent difference between the quantitated concentrations on the two columns is less than 25%.
- D The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

Highlighted values indicate exceedance of the NYSDEC Cleanup Objective

- + Capacitor Area (CA) Endpoint Sample
- \* FieldDup001 is a QA/QC duplicate sample of EP001(CA) @ 0-6"
- \*\*FieldDUp002 is a QA/QC duplicate sample of EP001 @ 0-6"

# APPENDIX A PHOTO LOG





Photo 1 – View of boatyard pre IRM (looking north)



Photo 2 – View of boatyard pre IRM (looking south)





Photo 3 – Boatyard during excavation activities



Photo 4 - Boatyard after completion of excavation Endpoint sample locations are marked with stakes.





Photo 5 – Boatyard after completion of backfill. Berm is visible at the rear of the site, along tree line.



Photo 6 –Boatyard after completion of backfill Berm is visible along the tree line on right of photo.





Photo 7 – Capacitor location CA-1 during excavation.



Photo 8 – Capacitor location CA-1 after completion of excavation.





Photo 9 – Capacitor location CA-2 during excavation.



Photo 10 - Capacitor location CA-2 after completion of excavation.





Photo 11 – Capacitor location CA-3 during excavation.



Photo 12 – Capacitor location CA-3 after completion of excavation.





Photo 13 – Soils stockpiled on polyethylene sheeting in staging area.



Photo 14 – Soil stockpile covered with polyethylene sheeting and surrounded with silt fence.





Photo 15 – Soil loading activities.



Photo 16 – Stockpile area restoration after completion of soil load out.

# APPENDIX B LABORATORY ANALYTICAL REPORTS (DELINEATION SOIL SAMPLING)



### **DATA FOR**

### **GC SEMI-VOLATILES**

**PROJECT NAME: CANINE KENNEL** 

P.W. GROSSER CONSULTING

630 Johnson Ave.

Suite 7

**Bohemia, NY - 11716** 

Phone No: 6315896353

ORDER ID: D3945

**ATTENTION:** Brian Barth







Date: 09/04/2012

Dear Brian Barth,

**25** soil samples for the **Canine Kennel** project were received on **08/25/2012**. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

Regards,

CHRISTOPHER WOLSKI

c.wolski@CHEMTECH.NET



### 269 Sheffield Street, Magatainside, NJ: 07092 (988) 789-8966 Fax (908) 263-8922 Www.chemiech.est

( North North of Special Social Control	£3auç
CC K, Htw	

CLENT NEORMATICA	PR	OUECT MECRANICA	6.,(8	ÇINFÇEMBATION
ز دم حد ۲۵ کومن	programme in a	· Sparred program	grand to the second of the	PAT .
Secretary	P1-2,2,211 (1.04) 11	. CATON Ara rang e	ALEMAN LE MONT LANGE	
ng type of the Control of the Contro	PALIT WENT S		C 1 Springs	sirit en laen n
This series is 410 years from the first	n s - B in gradinan a	Man	ATT COME A MARY	
. 15 2 5 545	P400) A 1994 ES	For NASHERS	FREE REPORTS	_
사일 등 일본의				ARRESS 6
DATA FURNARO, NO MEDINARIO		ATARES VERARLE VERMATON		
10   10   10   10   10   10   10   10	CONTRACTOR CONTRACTOR	ef i have some balla statistic	Andreads	
CAPACIAN CURRENT DE 1981 CONTROL DE 1981 CONTROL	77 30 77 K B	90 K.S 5 FEST - 1	-900990.51700S	Control of the second s
CHAMBLE FACUSET	944 <del>9</del> 10	1.01 1.0.02 1.01 1.0.02		Property of
SAMEL! != !##P.505#TFQM'C	MALTER 1	in the second	1 1 2 4 0 5 6	2 8 9 100 1000 2 8 9 100 1000
1 GSC17 11B 241	374	a 827212 123	. ,	4), J
ଓ ଅଟେଅନ୍ତ୍ରଙ୍କ		\$ \$1A71'7 '810		
6 0 <b>5</b> 99 <u>6 6-12 :</u>	S74	a 900 <b>2</b> 012 1016		
4.75\$\$66,977.99	<u>531</u>	2 3762 2 122	<del>-                                    </del>	
5 09566 (18 BM)	S.a.	<u>, 8 3777712 1274</u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·
<u>6.750m 04.</u>	5>	<u>)                                    </u>	·   -   -   -	
7 (Ser 1917)	<u> 554 </u>	<u> </u>		
s cech havet	<u> </u>	\$ 5007012 1710	- x	
୨.୧୯୫୯୯ ୯୩୫୬ <u>୯</u>	59	4 (2021) 115	·   >	<u>-&lt;.:</u>
10 0500740 <i>\$</i> 7	Sor	) 51'20'3 '38' (		
ажмеце од 31 фак мишел Ва		ach the samples charge		
(1) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		Contract Metro and market of Michael Contract Wards Contract (C. Collett) (Methy)	NATIONAL PROPERTY AND	
	-		, 7-5 — Hilland Demonati Controls 3 — Torin — Hilland La	Signer Dagsey Signer Carpsey
·		PageS_NCS		

# CHANCE CLISTOCY RECORD

### 755 Shaffield Street, Macatainside, NJ 07042 (986) 768-8900 Fex (986) 169-8912

Company (mend learnes)	
1 "2" by miles	

reserve classifications. nat-

			. — —		L				_		
Cu	ANT INFORMATION	PROA		CRUM" (CA			EI.	LUNG M		104	
1-2		FALCO HAR TONGO					True çan		2.1048		
. Mark Car Jacque	<u>・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・</u>	490 gradent		SOTUN Materials	Ē	<b>4π + '.</b> - '.	C   64	p			
oons (salah ar)		سى با ھۆرۈسۈر ' ' ' ' د م				i i Soferio			% * %*	nac zema	
Th Same∎	<u> 10 ( 6 ) (8 ) (8 )</u>	Pre <u>ulungijana</u> meres	_		L	L 1 B 1,74	- Fyb				
error ov <mark>e som</mark>		e-Let 701 89155		₩ £2 984 T.		4 10 10	мус, р				
NOTE OF WHILE	10 세일 :(대경	P-5-7		PEONE S					เาฮร		
TATE TO	ANAROGIC NEDAMATION		n F ORSM					///			
		2 W 10 00 2 2		1:4:-6		L			Λ,		
iai <del></del> : , e		Siller Lisker	= -	was grant (in 191							
·	<u> </u>	in the color approximation of the color approximation (in the color approximation app		eryn ym i <sup>196</sup> er. Ar		~ ~ ;		·	- I_	-	
· *LECKTANA .ex )	746의 년 영화연합의 학생 (16) (4)	VICTORY 6		<u> </u>		<u></u>		- F   5-	91¢	sjjerbente	
E ACOMO THE POST	No. 12 (1 4 5 1 6 1) (41)		-a : 2. !	getatu:						с (даку к Гональская)	
College Edwar	#R0.607	ان ورهينو			1					;	•
Same F	<b>የተተ</b> ለጥ ይፋላው ፍተፈር ላ	W.00 :	٠,		<b>.</b>			_  _	_ L	1942) 194 1970 - 197	
				DATE THE		* 2	<u> </u>	<u> </u>	= [=		_
L78777 <b>5</b> 127		<u> </u>	. >	5017012 12 <sup>6</sup>	1	y .			-	<b>~</b> C.3	
2 05007 (g//F)		\$6 <b>4</b>	<u>, a, </u>	878/12/12 1335 J	-	A.		<u> </u>	L. J	HO <sub>N</sub> D	
8 (75) 107 819 647 B		SH	<u>.</u>	5292012 1885	-	,r				HOU.	
4 (%) ម៉ែន (		5. <b>H</b>		3/29/2012 1940	-	J.			· ·		
१ ००० १ सन्दर्भ	S <b>V</b> 57	30	įλ	87/1/017 1340	-	2			_		
e astona it-ivio				506 700 1945	-	x				Kd.U	
តិ នេសីវិធី មានិកទីក្រ		ė,	7	\$297010 1350	-	ı,				1-0.0	
8 (2827) (18.26 <u>)</u>	<u>.                                    </u>	<u>58'</u>	<u>)</u> )).	83,70° 1355	-	2.			_	HC.B	
<u>9 05 04 97-50</u>		\$1		8317017 [1400]		6.					
id esata sita.		Špi		9/1 <u>9012 1<b>40</b>5</u>		<u> </u>	_	<u> </u>		I+©±Lis	
5.47	re. Sicustico - Musti eti coci	UMENTED BEUGHI EAC	41245	SAMPLES CHANGS	: PSC:	51554D*	A WELLE	wa ceu	ee G	LTXCA (	
s e le bane i				alle I en evalle V en ven p	A - 3mm	-P' - PL		1.500 Mg.	٧.'	-	
<u> </u>	<u> </u>	<del>-</del>		04 Bu en el #1004 «1.5 53ba - <b>56</b> 0£ 4-	_	_		e e <del></del> -			
	<del></del>	<u></u> =:		*	. 27 - 2	· · · · · · · · · · · · · · · · · · ·	'	72. <b>2</b> ¥			
	·										
<u> </u>	<u>-</u>	<del>-</del> - <del></del>		-	-	F.C					_
e on our pr									-	513769 ( <u>anders</u>	
:	<u>.</u>		f.equ	<u> </u>		<b>6</b> 5 5	- 1		-	3 450 4 4	2
** 5 (**2		<del></del>						_			



# 284 Shaffield Street | Magaziniside, NJ 03052 |5031 785-4960 | Fex | 5841 789-8977

Jeongs Freed fumpy	<u> </u>
ÇÇÇ Number	

A MAN OLL MODE MODE AND	March et . C	سهادا سامار س	_ <b></b>					_	
CLEHT VIORMATION	25	OLECT N	OBMET OR			3 4	<b>ነ</b> ው ይኖርኛ	HATE SA	
Merchanis t	est e Trach Line					a Tear Street	7	1.4	
(Library Res Notes (Meshin)	Project a seriors		. Karana da jeungan		a, raiest	المجلة في في 174			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, light Lug			- -	<del>_</del>		- 111 Y-	per mino
2 - 5 <del> </del>	-A. nM3no w								
Line (N. 1. Spr.)	e day art die by		rockt B <mark>erti</mark>		PT- The PC	TO STREET, T.		4	
FIRE SERVICES THE PROPERTY OF		aare det '	TRES P					7 .	
DATA FURNIARCUAD MEDRIMANDA		MF9=Y			/	/ /	1 / /	-//	
Tell Centre Cent	Distriction (MOA) Distriction (MOA) Clear or and CAC of COSAS (MOA) OF COSAS (MOA)		nganga Hinas Asar Chilif Linas Agang Inn 17, <u>—</u>		/\$\) - In			ما ما	/wa Nile
(1945年) 1 Bug(1951年) (1951年) 	V . O'O' ' '		<u></u>	. –					. <sup>.</sup>
######################################	guerre guran		\$ 3170 <del>0</del>			<del>┞</del> ╁╌┼			536 2-1-25
· e			tele TASE	_ :	* 5	5 4 5 4	<u> </u>	3 1	== 7
LigSgp4 (ravie)	5gi	, a	805 <u>25</u> 72 (1415)	-	<b>.</b>	<del>                                     </del>	<b>_</b>		<u> </u>
2 DS094 <u>815-241</u> .	<u> </u>		5 <u>78477</u> 0777		λ.	<u> </u>		.    .	<u>e.:</u>
3 1 <b>46</b> 0 3 <b>6</b> 001	200	,	\$77, 20m2   E			<u> </u>	<u> </u>	<u> </u>	
4. Prec (d.p. 502	] <u>‱:</u> _	λ	829/25/20 0	_	J	<u> </u>		-	
<u>,                                    </u>		. 7	\$217072 <u> </u>	-	λ			_	_
<u>s                                    </u>		<u>x</u>	#25 ED12		7	_			
-	551		5752772		] /				
· _	<u>د</u>		\$3000012	_	λ	<u> </u>	<u> [                                   </u>	_	
9	<u> </u>		82:4272		,		<u> </u>		
'	S <u>e</u>	; •	arsužiji		J.		<u>:</u> ,	,	
SAMPLE CUSTOON PUSTICE IN	DOJMENTED BELOW E	204 T <b>P</b> S	SAMPLES CHANG	9 PRO	556 <b>5</b> 50	<b>೫೬ ಇ</b> ೦ಚಿಕೆ೦ ಅನ		R DELITERT	
. I was track a Section 5. The section 5.		plet we can	###   ####   #########################	· · = · · •	1 to 100 and	le, e (			
		-							
		<u> </u>		Carry p		disastin <del>das</del> s		<u>20 5-0</u> ⊈ 113	<u>()                                    </u>
1		· • • • • • • • • • • • • • • • • • • •	9 1			7 - 1514		1 - 1 -	

% Moisture:

09/05/12

Decanted:

PB65506

99%

86%

SPK: 20

SPK: 20



PC010211.D

877-09-8

2051-24-3

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 08/23/12

Project: Canine Kennel Date Received: 08/25/12

SDG No.: Client Sample ID: DS006(6-12) D3945

Lab Sample ID: D3945-03 **SOIL** Matrix:

Analytical Method: Sample Wt/Vol: 30.08 Units: Final Vol: 10000 uL g

PCB Soil Aliquot Vol: иL Test:

Extraction Type: Injection Volume

1.0 GPC Factor: PH: N/A

1

Tetrachloro-m-xylene

Decachlorobiphenyl

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

09/04/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.1 9 18 ug/Kg Aroclor-1254 10 J 9 18 11097-69-1 16 ug/Kg Aroclor-1260 9 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 

19.8

17.2

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

10 - 166

60 - 125



# **DATA FOR**

# **GC SEMI-VOLATILES**

**PROJECT NAME: CANINE KENNEL** 

P.W. GROSSER CONSULTING

630 Johnson Ave.

Suite 7

**Bohemia, NY - 11716** 

Phone No: 6315896353

ORDER ID: D3944

**ATTENTION:** Brian Barth







Date: 09/04/2012

Dear Brian Barth,

1 water and 20 soil samples for the **Canine Kennel** project were received on 08/25/2012. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

Regards,

CHRISTOPHER WOLSKI

c.wolski@CHEMTECH.NET



# AND MICE PROTOCOL DE CARDO.

# 214 ShuMadi Davet, Nicestrietida, AJ (1992) 1906; 169-1500 Faz (1906; 109-1972)

Crembeur Project William	
COT to make	

Sara A. Arbio A. Berthan	TATAN								
CSENT BROCHMATION	f	ROUSET HAROS MATION		BITTAG AROSMALKAN					
Secretaria	भग दशर क्या सुन ह	Br - Lid Pin Combal		. : -= • •	A Leader Day	<b>_</b>	0.045		
Constant for a page of the page of	#A # 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			enge (pa	Conversion of	l'-a			
C Registration of Lange		1 y'a_ (*		.14 Jane	₩.		γ <sup>m</sup> e"tjin	28 m 1	
15 yelena <u>5</u> 1114 %	JP 1 1 JAN 1974 Straight			0.47.95	o ang Pengalan				
1. To 17. Th 中 5mm		o spaceward		<b>100 3</b>	9900		•		
novies, amens i un accisero	2-	DRIATEL MEPARLE				and)	Els.	4	
DATA 11 KNAKOUND ALOSM	21404	4F0F36F10H		گر. گار	///	///,	. 77,		
w	[2] 開発込むない 2. 現をよって記	STANDARDE STANDARDE		- 9		. //			
reduction to the second of the	1		L-		$\ell$ / /		'//		
กกับที่ เคลองเกรากระทา คื	* <b>***</b> *** * * * * * * * * * * * * * *	, _d <del>=</del>	_	<u> </u>	ورواما	<u>le :</u>			
<mark>(1965) yên îl başak</mark> î (bin îndên bi şi kornê) ye.	္ ၁၈၀၂၈မည္း		_		==(1 ,41)	1.03		uggents	
CHOMPSON MICHAELT	SAME LE	2010 1 54500 1990 - 31 52106	=	E	'			(1457 ) <sup>(1</sup> 15 의(141 <del>14)</del> ) (2 - 152	
SAPPLE SAMPLEDGATES			- <u> </u>					: Simple	
e		( year tree.		1 2	5 4 5	6 7 5	•	1,740	
hedd Sans	<b>€</b> ₩-5 <sub>2</sub>	3 5737117 13		5	<u> </u>	· · ·	<u> </u>	<u> </u>	
2 08001 (5-1 <u>2 1</u>	<u>Ś</u> s	3 -543 B	!	5		<u> </u>	1		
S (SQF) (\$40°)		<u>  \$ \$73,2012 :008</u>	<u> </u>	<u> </u>		<del></del>			
4 06009 j6 421	Sta	9 9 <del>25 27 1</del> 7 10 20	-	<u> </u>		<u> </u>			
<u>5 05005 (+5)</u>	Sca.	F (E052212 106	-	5			<u> </u>		
5 16506 \$15°		\$ 3,23,2012 1040		<u> </u>			i	-:OLD	
1.0903 (5.15)		# P759017 1045		=				-313	
<u>: 06006_(9-2)                                     </u>	Sou	9 800000 (etc.	] • [	=		<u> </u>		-205	
<u> 17506 5 F </u>	. <u>Sei</u>	A 991202 (1.0	<u> </u>	<i>.</i>					
12 05058 18 18 j	504	a   \$627.17   155\$	٠. ا	=				-010	
SMANE CUSTOON MUS	FISS 950 LIMBY RECIBELLING	BACH THE BAWY, SECHAND	is PROS	2555 D	a Admid	VS 55_5	ee ceu nee		
Francis Table 1	: <u>.</u>	<sup>1</sup> ) разбиров во востоя во найта и востуг							
		- Main Influence expression existen-							
	-	, Fernandi HOUDDAMH (NEW)	11 1, -1			Th. be			
· · · · · · · · · · · · · · · · · · ·									
	·		= = =	.1-	n = mo Citab				
	<u>-</u>	_	- т г		-			<del>otelia</del> C <del>ortela e</del>	
<del>₹ 1,2a</del>	<u> </u>	Fig. 4 5	= =	- U1117-	· · · · · · · · · · · · · · · · · · ·	7	<u> </u>	FL HAS	
				_			-		



## 234 Shaffield Street, Magazainside, NJ 97052 (908) 768-8900 Fax (906) 769-8907

Circumouth Employs Neuropein		
CCC Number		

Server charaters' and

THE MICHIGAN	A NELUMB	'ANTH-1981(18		<u>. Marc</u>					
C; <b>ĕ</b>	NT INFORMATION	Pāg		CRUMPION			8-,499	S 34F2H4S41404	
i wat '	9 84 19	FACE OF PROPER	:			<u></u>	والعصائحة المديدة	: Kep	
مع معدود و ۱۳ دو و و	<u> </u>	890. THE SC 10		SOFT IN PROCESSES		<u> </u>	المساوية الرجاليسوالو		
ومعام والأرازة		F⊃*13> C 1.	<u>. 200-19</u>	_				495 ex 3	T P T -
The purposes		E Howert And		-					
15 N T N E 19 E		- C# -1 X-20		10 KL 861.5		∸≺ಇನ		PANTAS	
CP K/ MHX2	140 - RT 1/587/4		11 d. 254.	MARKELE			7 7 7	/ / /	
047A 1555	architecture architecture		17085				////	f = f / f / f	
vijes (vijes (m. ok.) vijes (m. ok.) vijes (m. ok.)		<ul> <li>(2) 研究が100 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)</li></ul>		gruge many de QA (t programme) many a					walin
10 apr 1 kgapt 5,1,	186 GM (1870-1975-1975)	1201. 1	24:43	نرمون					- Parameter
THE BYELF	##1.E17	SAMPLE _	_ <del>-</del>	0.01000	Ė		<del> :</del>	<del>-  -</del>	34.4 34.4
₹ <b>≡ 85</b> ~, Ε	Property Circuit (T. 124)	ex-a-	~ :	5415 INC.	•	2 5	4 5 6	<u> </u>	• • • •
`⇔@##*7-*\$T			,	\$295002	•	>			c-ur
<u> </u>		Sin	<u>, 2.</u>	534373 mil.	-	, ,		<u> </u>	
Co109 (6-8)		Soe	. >	\$295000 1125		>			
0900 p.s., 998	950	See .		575 Z/12 1120		<i>x</i> .	<u> </u>		
05005 <del>6-12</del> 1		<u> 500</u>	24,	sawgra maa	-		<u> </u>	<u> </u>	<u> </u>
0.5005 (124157)		\$-	<u> </u>	828227 R	-			_	೧೮
18/07/91/19/08/0			2.	5796018 1190	-	2	<u>!</u>		·====
ნამი ტაგე		5c#		<u>ಅವರದಲ್ಲಿ ಅ</u> ತ್ತ		λ,	<u>;</u>	<u> </u>	
[S716-12]	<u>-</u>	5.5	<u> </u>	ַ בַּבִּיי בַּילבִיבּבּ	-	7	<u> </u>		543
್ರರತ್ಯಗಳ ಗಿಳಿಕ್		Spe	Į J	9/18012 1200 j	-	>			<u>a.</u> ;
三人物学	CE CUSTOSY MUST BE 0001								
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-154 .	<u>.</u>	ar Den en L	effer in velegref in egel Literatur in ef 1250 (196 Hiz anderse in Stronger	6.2 A	de permera	<b>J</b> :		
*· .	1-9 M		- <del></del>	:	Own d	<u>.</u>	e end Dalae so e Palaes y	( <u>1974)</u> . 2 Ma	- <u>100 mar</u>
90223		in the state of t	74 ye <u>.</u>	<u>- —? —∸ .</u> •8.00€ 1÷6°F					



#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

 Client Sample ID:
 DS005(6-12)
 SDG No.:
 D3944

 Lab Sample ID:
 D3944-06
 Matrix:
 SOIL

Analytical Method: SW8082A % Moisture: 8

Sample Wt/Vol: 30.07 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PC010209.D 1 09/04/12 09/05/12 PB65506

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	9	U	3.8	9	18	ug/Kg
11104-28-2	Aroclor-1221	9	U	3.7	9	18	ug/Kg
11141-16-5	Aroclor-1232	9	U	8.1	9	18	ug/Kg
53469-21-9	Aroclor-1242	9	U	3.7	9	18	ug/Kg
12672-29-6	Aroclor-1248	9	U	7.1	9	18	ug/Kg
11097-69-1	Aroclor-1254	1800	E	1.6	9	18	ug/Kg
11096-82-5	Aroclor-1260	9	U	4.5	9	18	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.2		10 - 160	5	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.3		60 - 12:	5	77%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:



#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 08/23/12

Project: Canine Kennel Date Received: 08/25/12

SDG No.: D3944 Client Sample ID: DS005(6-12)DL

Lab Sample ID: D3944-06DL Matrix: SOIL

% Moisture: Analytical Method: SW8082A Decanted: Sample Wt/Vol: Final Vol:

Test: PCB Soil Aliquot Vol: иL

g

Extraction Type: Injection Volume

1.0 PH: N/A GPC Factor:

30.07

Units:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date

09/04/12 09/05/12 PC010212.D 10 PB65506

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	90	UD	38	90	180	ug/Kg
11104-28-2	Aroclor-1221	90	UD	37	90	180	ug/Kg
11141-16-5	Aroclor-1232	90	UD	81	90	180	ug/Kg
53469-21-9	Aroclor-1242	90	UD	37	90	180	ug/Kg
12672-29-6	Aroclor-1248	90	UD	71	90	180	ug/Kg
11097-69-1	Aroclor-1254	2700	D	16	90	180	ug/Kg
11096-82-5	Aroclor-1260	90	UD	45	90	180	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	17.8		10 - 160	5	89%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.9		60 - 12:	5	100%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

10000

иL



PC010210.D

877-09-8

2051-24-3

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12
Client Sample ID: DS008(6-12) SDG No.: D3944

Lab Sample ID: D3944-10 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 6 Decanted:

Sample Wt/Vol: 30.04 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

1

Tetrachloro-m-xylene

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

09/04/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.9 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7 9 18 ug/Kg Aroclor-1254 16 9 18 11097-69-1 180 ug/Kg Aroclor-1260 U 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 

18.8

16.1

09/05/12

PB65506

94%

80%

SPK: 20

SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

10 - 166

60 - 125



# **DATA FOR**

# **GC SEMI-VOLATILES**

**PROJECT NAME: CANINE KENNEL** 

P.W. GROSSER CONSULTING

630 Johnson Ave.

Suite 7

**Bohemia, NY - 11716** 

Phone No: 6315896353

ORDER ID: D3945

**ATTENTION:** Brian Barth







Date: 09/04/2012

Dear Brian Barth,

**25** soil samples for the **Canine Kennel** project were received on **08/25/2012**. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

Regards,

CHRISTOPHER WOLSKI

c.wolski@CHEMTECH.NET



### 269 Sheffield Street, Magateirside, N.F.07092 (588) 789-8866 Fax (908) 263-8922 Www.chemiech.est

( የኢትዮጵያው ጅ ዴሞ( የ ኤ., ፅ የልተ	i¹ ∼ /
CCC Kumber	<del>-</del>
• • •	

СДБАГ АР <b>ОМ</b> ИЛГОА	PRO	JECT MECRANICAN		6 JUNG PERSAMBA						
ingle Burya;	programme in the	(H	en	P.C. <sub>Californ</sub> ia - Andrey	P,F					
See the Section of the	P140,300 (1940.50	. Califor Assemble	A.LAL:	g LC el rur Lenue						
g Lancot with a traper france	Period Went Co	IJ-FIE	5 Ser		STATE OF LIPER TO					
This server 5 African the COS	€ to produce or			an e raty						
. 15 2 5 Natio	P400] A 1994 ES	FOLVESHES	r;;	A ANG						
ANG SEPERT OF A THEORY	T-	TAIDEL VERLEUR		Ante.	MSE					
DATA FURNARO, NE MICHINA IKA		4505941-09	<u>.</u> -							
(1-10	O PRESIDENT C RECTOR RE C RECTOR REAL C RE	Strafferen Er en en som en en for Strafferen Strafferen	<b>₹</b>							
CARONE CONTROL OF THE CONTROL OF CO	77 30 77 SHIE	<del></del>		98995.AM-65	CUMMONUS					
CHEMITEUM PACIFICA SAMEL! CAMBUSIDENTEGATOR	(AP.0 _	520년 (1946년) (1 1514 - 2011년(15년 )	┊┝╧╅	<del>!</del>	Company of the second of the s					
2 (888/2008 648/28		ters 1995	<u>i  ı  ±</u>	4 (4 5 5 5 7						
1 GSC10 11B G41	\$7e	3 8052512 1265	. 2	<u> </u>	H), v					
3 75096 (3-65)	ب	\$ \$147717 1210	· 2	<u> </u>	<u>.</u>					
5 0'\$996 <u>(\$-12 :</u>	\$79	a 921 <b>2</b> 12 (213	. 3	<u> </u>	-0.:					
4. 75(30) (17-19)	<u>Sar - </u>	2 3/60 12 1/20	<u> </u>		40.0					
8 05566 (18 34)	S. e	<u> </u>	· 2		<u> </u>					
erson da.	5>	5 83257012 (3.0)	• 4	<u> </u>						
7.1%(**) \$127.	<u> 504                                   </u>	2 4292112 1375	<u> </u>	<del>                                     </del>	-0.5					
s ostanialiej	<u> </u>	<b>8</b> 50000012 1910	·   2.	1	<u></u>					
୨.୯୪୯୯ ଫଳ୍ଫନ୍	. 55	<u> </u>		<del>   </del>	-6.1					
10 0.5000 AGE	554	0. <u>519013 1380</u>	- 2							
SAMPLE DUSTIGN MEET BE DOOR	'α κ'	en Pred SWAP ESCHOLAG Historia Piller Windowski Killer (Kolonia Viller) (Herman H.C. Califon Medigi)	ет п 6.Ме 4 — <del>г. —</del> . —	ran Jine Jeri i 1900 je i Politika						
e.z.		70 yr1, 77 s	, File Contracts : —	e land Description of	Signer Dageo 2 0 935 A Mil					

# CHEMICECH STOCK SECON

### 755 Shaffield Street, Magazinieside, NJ 07042 (986) 768-8900 Fex (986) 769-8912

filesakti. Liikti Hauska				
" "2" ha prilips				

were classical of set

An amount of a decided to the factories.						
CUENTINFORMATION	05,9		CRUMPION	B	liling impare	71.04
separate to the second	ಕಲ್ಪಪ್ಪದ <b>ಕ</b> ಲಿಗೆ ತಿಡಿಗಳು	<u> </u>		t in the long of	ratury 30	<b>-</b>
Linear Company of the	ERN GOLDEN		901, n. Mainemen	4.7 mg/s 17 mg—11 t	-pr	
COTTON SECURITION NAMED	والا فيلاد وسد <sup>محمد</sup> عنه	34 m - C		1 in Spherous	<u> </u>	Charles (1991)
This seems 500 and 18	The Property of the	: :		L. I broja in Fijes		
arriest divine date	e-Les et serioù		W 92 94T.	HORNEY WILLIAM		
PATHELL IN ATTREET	r-s	-T4.05	nout t		#MM15/5	
CATA TO SHAROUSID INFORMATIO		n F (pipani			////	
	2 8 2 (C) / /		:4:-E	- /L/ /		
ias	v = 12 s - 21	:	urang palikanya		/ / / / /	
<u> </u>	□ (他の)(を2015年) □ (4010年) □ (4010年)	· . · · · ·	ega part 190 m² M	- I ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		<u>-</u>
MUNICOTOR (B) 7年5日 (A 2192年1日 新聞のためいたちでは、マモデリック	5 15 2 1 3 WHY 1 16			- F1 F1 F1 F1	9 <u>6   5 .9 1</u> 0 Mis	- ქამატისე
1010 - 1010 - 1110			Selat.:	· : :	•	u jery i President
CHESTECH PROJECT	۶.جيدو	<del></del>	i : 7 .m	╴┠ <del>╶┊</del> ╾┼	<del>-   -  </del>	¬:~ '′'
C TOTAL DEFINE CO.	5) <u>w.m</u>	100	CATE DATE	2 3 4 5	. E 7 E 9	(1922) (1944) (1973) (1974)
1.7877.6.121	<u> </u>		8935012 1324 	У		<u></u>
8 08007 (13×14)	5,08	2.	878472512 1000 <u></u>	·   2.   -		HOLD
8 CS (Q2 819-547)	SH		8999992 1925 <u>-</u>			<u>FOUT</u>
4 (S09 M s)	5.4		3/28/2012 1940	·   4		
3 0300 6-5 , 95 <b>9</b> 50	301	, 3.	5777017 (S40)	. 1		<u> </u>
e asana saya			506 700 1945	· x		l K.t
ន ប្រសិទ្ធិ មានមនុស្ស	ė,	[ x	<u> 9797012 1350 </u>	·   🖈		1-0.0
6 CSC17 (16 20)	<u>. 5e'</u>	λ	835,70°0 1255	-   2		HC_8
9 CSCON PERC	\$1		8.31.7007 j. 1 <b>40</b> 0. j. j.	<u>-   z ,     </u>		
ió egym sagt.	95i		91 <u>9012 1<b>40</b>8</u>	- x		1-C-L
5499.50.5TC0= WUST 8	E DOCUMENTED SEUGH EA	<b>3-4 1.₽4</b> €	SAUPLES CHANGE P	STEELSTAN WOLL	taka dauriee i	STUTTORY
or or the same of the control of the	7	مريو الشراطان سات به	on November 1964 15	Carconia i e mando de cesta 2 de dos esperantes 2 de Sala a la Legión de Calo		
2 2 2						
. Session	<del></del>		.=	oru ekrasa etat		500 400 2 75 470
<u> </u>		I <sup>*</sup> JPpd	<u> </u>	26 Tibr + Faces	<u> </u>	



# 284 Shaffield Street | Magaziniside, NJ 03052 |5031 785-4960 | Fex | 5841 789-8977

Jeongs Freed fumpy	<u> </u>
ÇÇÇ Number	

A MAN OLL MODE MODE AND	March et . C	سهادا سامار س	_ <b></b>					_	
CLEHT VIORMATION	25	OLECT N	OBMET OR			3 4	<b>ነ</b> ው ይኖርኛ	HATE SA	
Merchanis t	est e Trach Line					a Tear Street	7	1.4	
(Library Res Notes (Meshin)	Project a seriors		. Karana da jeungan		a, raiest	المجلة في في 174			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, light Lug			- -	<del>_</del>		- 111 Y-	per mino
2 - 5 <del> </del>	-A. nM3no w								
Line (N. 1. Spr.)	e day art die by		rockt B <mark>erti</mark>		PT-THE PE	TO STREET, T.		4	
FIRE SERVICES THE PROPERTY OF		aare det '	TRES P					7 .	
DATA FURNIARCUAD MEDRIMANDA		MF9=Y			/	/ /	1 / /	-//	
Tell Centre Cent	Distriction (MOA) Distriction (MOA) Clear or and CAC of COSAS (MOA) OF COSAS (MOA)		nganga Hinas Asar Chilif Linas Agang Inn 17, <u>—</u>		/\$\) - In			ما ما	/wa Nile
(1945年) 1 Bug(1951年) (1951年) 	V . O'O' ' '		<u></u>	. –					. <sup>.</sup>
######################################	guerre guran		\$ 3170 <del>0</del>			<del>┞</del> ╁╌┼			536 2-1-25
· e			tele TASE	_ :	* 5	5 4 5 4	<u> </u>	3 1	== 7
LigSgp4 (ravie)	5gi	, a	805 <u>00</u> 00 (40.5)	-	<b>.</b>	<del>                                     </del>	<b>_</b>		<u> </u>
2 DS094 <u>815-241</u> .	<u> </u>		5 <u>78477</u> 0777		λ.	<u> </u>		.    .	<u>e.:</u>
3 1 <b>46</b> 0 3 <b>6</b> 001	200	,	\$77, 20m2   E			<u> </u>	<u> </u>	<u> </u>	
4. Prec (d.p. 502	] <u>‱:</u> _	λ	829/25/20 0	_	J	<u> </u>		-	
<u>,                                    </u>		. 7	\$217072 <u> </u>	-	λ			_	_
<u>s                                    </u>		<u>x</u>	#25 ED12		7	_			
-	551		5752772		] /				
· _	<u>د</u>		\$3000012	_	λ	<u> </u>	<u> [                                   </u>	_	
9	<u> </u>		82:4272		,		<u> </u>		
'	S <u>e</u>	; •	arsužiji		J.		<u>:</u> ,	,	
SAMPLE CUSTOON PUSTICE IN	DOJMENTED BELOW E	204 T <b>P</b> S	SAMPLES CHANG	9 PRO	556 <b>5</b> 50	<b>೫೬ ಇ</b> ೦ಚಿಕೆ೦ ಅನ		R DELITERT	
. I was track a Section 5. The section 5.		plet we can	###   ####   #########################	· · = · · •	1 to 100 and	le, e (			
		-							
		<u> </u>		Carry p		disastin <del>das</del> s		<u>20 5-0</u> ⊈ 113	<u>()                                    </u>
1		· • • • • • • • • • • • • • • • • • • •	9 1			7 - 1514		1 - 1 -	



PC010168.D

877-09-8

2051-24-3

#### **Report of Analysis**

Client:P.W. Grosser ConsultingDate Collected:08/23/12Project:Canine KennelDate Received:08/25/12Client Sample ID:DS006(0-6)SDG No.:D3945

Lab Sample ID: D3945-02 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 6 Decanted:

Sample Wt/Vol: 30.09 Units: g Final Vol: 10000
Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

1

Tetrachloro-m-xylene

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.9 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7 9 18 ug/Kg Aroclor-1254 2700  $\mathbf{E}$ 16 9 18 11097-69-1 ug/Kg Aroclor-1260 U 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 

21.7

17.9

08/29/12

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

10 - 166

60 - 125

uL

PB65378

108%

89%

SPK: 20

SPK: 20

Final Vol:

08/29/12

10000

uL

PB65378

0%

SPK: 20



Sample Wt/Vol:

PC010155.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

Client Sample ID: DS006(0-6)DL SDG No.: D3945

Lab Sample ID: D3945-02DL Matrix: SOIL

Analytical Method: SW8082A % Moisture: 6 Decanted:

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

g

GPC Factor: 1.0 PH: N/A

20

30.09

Units:

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 180 UD 74 180 360 ug/Kg 11104-28-2 Aroclor-1221 180 UD 72 180 360 ug/Kg

11141-16-5 Aroclor-1232 180 UD 160 180 360 ug/Kg 53469-21-9 Aroclor-1242 180 UD 72 180 360 ug/Kg 12672-29-6 Aroclor-1248 180 UD 140 180 360 ug/Kg Aroclor-1254 5000 32 11097-69-1 D 180 360 ug/Kg Aroclor-1260 87 11096-82-5 180 UD 180 360 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 0 10 - 166 0% SPK: 20

0

U = Not Detected

2051-24-3

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

60 - 125



PC010130.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

Client Sample ID: DS011(0-6) SDG No.: D3945

Lab Sample ID: D3945-06 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 6

Sample Wt/Vol: 30.11 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

1

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.9 9 18 ug/Kg 9 53469-21-9 Aroclor-1242 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7 9 18 ug/Kg Aroclor-1254 52 16 9 18 11097-69-1 ug/Kg Aroclor-1260 9 U 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 19.4 10 - 166 97% SPK: 20

15.6

08/28/12

U = Not Detected

2051-24-3

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

60 - 125

Decanted:

PB65378

78%

SPK: 20



PC010131.D

11096-82-5

**SURROGATES** 

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12
Client Sample ID: DS007(0-6) SDG No.: D3945

Lab Sample ID: D3945-10 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 15 Decanted:

Sample Wt/Vol: 30.04 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

1

Aroclor-1260

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 10 U 4.1 10 20 ug/Kg 11104-28-2 Aroclor-1221 10 U 4 10 20 ug/Kg 11141-16-5 Aroclor-1232 10 U 8.8 10 20 ug/Kg 53469-21-9 Aroclor-1242 10 U 4 10 20 ug/Kg 12672-29-6 Aroclor-1248 10 U 7.7 10 20 ug/Kg Aroclor-1254 20 11097-69-1 230 1.8 10 ug/Kg

08/28/12

U

4.8

10

PB65378

20

ug/Kg

 877-09-8
 Tetrachloro-m-xylene
 16.6
 10 - 166
 83%
 SPK: 20

 2051-24-3
 Decachlorobiphenyl
 10.3
 \*
 60 - 125
 52%
 SPK: 20

10

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



PC010154.D

**SURROGATES** 

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

Client Sample ID: DS007(0-6)RE SDG No.: D3945

Lab Sample ID: D3945-10RE Matrix: SOIL

Analytical Method: SW8082A % Moisture: 15

Sample Wt/Vol: 30.04 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 10 U 4.1 10 20 ug/Kg 11104-28-2 Aroclor-1221 10 U 4 10 20 ug/Kg

08/29/12

11141-16-5 Aroclor-1232 10 U 8.8 10 20 ug/Kg 53469-21-9 Aroclor-1242 10 U 4 10 20 ug/Kg 12672-29-6 Aroclor-1248 10 U 7.7 10 20 ug/Kg Aroclor-1254 190 20 11097-69-1 1.8 10 ug/Kg Aroclor-1260 U 4.8 11096-82-5 10 10 20 ug/Kg

877-09-8 Tetrachloro-m-xylene 12.5 10 - 166 63% SPK: 20 2051-24-3 Decachlorobiphenyl 9.97 \* 60 - 125 50% SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:

PB65378



PC010125.D

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 08/23/12 Project: Canine Kennel Date Received: 08/25/12

SDG No.: Client Sample ID: DS012(0-6) D3945 Lab Sample ID: D3945-14 Matrix: **SOIL** 

% Moisture: Analytical Method: SW8082A Decanted:

Sample Wt/Vol: 30.07 Units: Final Vol: 10000 uL g

PCB Soil Aliquot Vol: иL Test: Extraction Type: Injection Volume

1.0 GPC Factor: PH: N/A

1

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8 9 18 ug/Kg 9 53469-21-9 Aroclor-1242 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.1 9 18 ug/Kg Aroclor-1254 J 9 18 11097-69-1 15 16 ug/Kg Aroclor-1260 9 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 18.5 10 - 166 93% SPK: 20 60 - 125 2051-24-3 14.1 70% SPK: 20

08/28/12

PB65378

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Test:

08/28/12



#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 08/23/12 Project: Canine Kennel Date Received: 08/25/12

SDG No.: Client Sample ID: DS004(0-6) D3945

Lab Sample ID: D3945-20 Matrix: **SOIL** 

Analytical Method: SW8082A % Moisture: Decanted:

Sample Wt/Vol: 30.04 Units: Final Vol: 10000 g PCB

Soil Aliquot Vol: Extraction Type: Injection Volume

иL

1.0 GPC Factor: PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.7 9 18 ug/Kg

11141-16-5 Aroclor-1232 9 U 8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.7 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.1 9 18 ug/Kg Aroclor-1254 43 P 9 18 11097-69-1 16 ug/Kg Aroclor-1260 9 U 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 

877-09-8 Tetrachloro-m-xylene 18.8 10 - 166 94% SPK: 20 60 - 125 2051-24-3 15.3 77% SPK: 20 Decachlorobiphenyl

U = Not Detected

PC010108.D

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

uL

PB65378



PC010109.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

Client Sample ID: FIELDDUP001 SDG No.: D3945

Lab Sample ID: D3945-24 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 5 Decanted: Sample Wt/Vol: 30.07 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.6 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 6.9 9 18 ug/Kg Aroclor-1254 2700 EP 9 18 11097-69-1 1.6 ug/Kg Aroclor-1260 4.3 9 11096-82-5 U 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 16.8 10 - 166 84% SPK: 20 60 - 125 2051-24-3 15.9 80% SPK: 20 Decachlorobiphenyl

08/28/12

PB65378

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

Client Sample ID: FIELDDUP001DL SDG No.: D3945

Lab Sample ID: D3945-24DL Matrix: SOIL

Analytical Method: SW8082A % Moisture: 5 Decanted: Sample Wt/Vol: 30.07 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PC010162.D 20 08/27/12 08/29/12 PB65378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	180	UD	73	180	360	ug/Kg
11104-28-2	Aroclor-1221	180	UD	71	180	360	ug/Kg
11141-16-5	Aroclor-1232	180	UD	160	180	360	ug/Kg
53469-21-9	Aroclor-1242	180	UD	71	180	360	ug/Kg
12672-29-6	Aroclor-1248	180	UD	140	180	360	ug/Kg
11097-69-1	Aroclor-1254	4700	D	31	180	360	ug/Kg
11096-82-5	Aroclor-1260	180	UD	86	180	360	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.6		10 - 160	6	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	28.8	*	60 - 12:	5	144%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



PC010110.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

Client Sample ID: FIELDDUP002 SDG No.: D3945

Lab Sample ID: D3945-25 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 6 Decanted:

Sample Wt/Vol: 30.02 Units: g Final Vol: 10000
Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.9 9 18 ug/Kg 9 53469-21-9 Aroclor-1242 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7 9 18 ug/Kg 11097-69-1 Aroclor-1254 81 16 9 18 ug/Kg Aroclor-1260 9 U 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 17.6 10 - 166 88% SPK: 20 60 - 125 2051-24-3 Decachlorobiphenyl 14.2 71% SPK: 20

08/28/12

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

uL

PB65378



# **DATA FOR**

# **GC SEMI-VOLATILES**

**PROJECT NAME: CANINE KENNEL** 

P.W. GROSSER CONSULTING

630 Johnson Ave.

Suite 7

**Bohemia, NY - 11716** 

Phone No: 6315896353

ORDER ID: D3944

**ATTENTION:** Brian Barth







Date: 09/04/2012

Dear Brian Barth,

1 water and 20 soil samples for the **Canine Kennel** project were received on 08/25/2012. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

Regards,

CHRISTOPHER WOLSKI

c.wolski@CHEMTECH.NET



# AND MICE PROTOCOL DE CARDO.

# 214 ShuMadi Davet, Nicestrietida, AJ (1992) 1906; 169-1500 Faz (1906; 109-1972)

Crembeur Project William	
COT to make	

Sara A. Arbio A. Berthan	TATAN										
CSENT BROCHMATION	f	PAGESCH BARCHWAT CN				BILLING NECEMATION					
Secretaria	भग दशर क्या सुन ह	Br - Lid Pin Combal		. : -= • •	A Leader Day	<b>_</b>	0.045				
Constant for a page of the page of	#A # 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			enge (pa	Conversion of	l'-a					
C Registration of Lange		1 y'a_ (*		.14 Jane	₩.		γ <sup>m</sup> e"tjin	28 m 1			
15 yelena <u>5</u> 1114 %	JP 1 1 JAN 1974 Straight			0.47.95	o ang Pengalan						
1. To 17. Th 中 5mm		o spaceward		<b>100 8</b>	9900		•				
୮୯୯ କର୍ <del>ଷ୍ୟ ଓଡ଼ିଆ । ଏହି ପ</del> ର୍ବ	2-	DRIATEL MEPARLE				and)	Els.	4			
DATA 11 KNAKOUND ALOSM	21404	4F0F36F10H		گر. گار	///	///,	. 77,				
w	[2] 開発込むない 2. 現をよって記	STANDARDE STANDARDE		- 9		. //					
reduction to the second of the	1		L-		$\ell$ / /		'//				
กกับที่ เคลองเกรากระทา คื	* <b>***</b> *** * * * * * * * * * * * * * *	, _d <del>=</del>	_	<u> </u>	ورواما	<u>le :</u>					
<mark>(1965) yên îl başak</mark> î (bin îndên bi şi kornê) ye.	္ ၁၈၀၂၈မည္း		_		==(1 ,41)	1.03		uggents			
CHOMPSON MICHAELT	SAME LE	2010 1 54500 1990 - 31 52106	=	E	'			(1457 ) <sup>(1</sup> 15 의(141 <del>14)</del> ) (2 - 152			
SAPPLE SAMPLEDGATES			- <u> </u>					: Simple			
e		( year tree.		1 2	5 4 5	6 7 5	•	1,740			
hedd Sans	<b>€</b> ₩-5 <sub>2</sub>	3 5737117 13		5	<u> </u>	· · ·	<u> </u>	<u> </u>			
2 08001 (5-1 <u>2 1</u>	<u>Ś</u> s	3 -543 B	!	5		<u> </u>	1				
S (SQF) (\$40°)		<u>  \$ \$73,2012 :008</u>	<u> </u>	<u> </u>		<del></del>					
<u>4.06009.6425</u>	Sta	9 9 <del>25 27 1</del> 7 10 20	-	<u> </u>		<u> </u>					
<u>5 05005 (45)</u>	Sca.	F (E052212 106	-	5			<u> </u>				
5 16506 \$15°		\$ 3,23,2012 1040		<u> </u>			i	-:OLD			
1.0903 (5.15)		# P759017 1045		=				-343			
<u>: 06006_(9-2)                                     </u>	Sou	9 800000 (etc.	] • [	=		<u> </u>		-205			
<u> 17506 5 F </u>	. <u>Sei</u>	A 991202 (1.0	<u> </u>	<i>.</i>							
12 05005 18 18 j	504	a   \$627.17   155\$	٠. ا	=				-010			
SMANE CUSTOON MUS	FISS 950 LIMBY RC BELLING	SACH " WE BERT, SE CREAT	is PROS	2555 D	a Adula	VS 55_5	ee ceu nee				
•											
		endia escapata de di	11 1, -1			Th. be					
· · · · · · · · · · · · · · · · · · ·											
	·		= = =	.1-	n = mo Citab						
	<u>-</u>	_	- т г		-						
<del>₹ 1,2a</del>	<u> </u>	Fig. 7	= =	J.: ;-	1136	7		· <u>·</u> • • • •			
Column   C											



## 234 Shaffield Street, Magazainside, NJ 97052 (908) 768-8900 Fax (906) 789-8902

Örgeriya bi Braygas bayırdırı		
CCC furter	 -	

warmuckerstach.est

_				la .				
Pā O Æ	311	COMPANIES.				B-,LW		1854 I 104
FACE OF FORCE				•:	4 - 4	737 Jan		16g
\$500 of \$6000		00 Pillion Street and Pillion		4.5.4.4	للسوائد إيدا	in all my name		
FR 134-9F 1.20	. —							35475 Av. (78 m2d)
E Howert ground to	<u>.                                    </u>			E	<u> </u>			
e C# +1 00±00	<u></u>	0 <u>5</u> 7 9412		<= × ×	Med.			
P. 1.1		101P C					346443	· S
							/ .	
シーナスポート		<del>-</del>						
and the second second second								/ <u>/                                  </u>
1771 - 61 -				- irg				le. Ç√20⊊kişi
	<del></del>						i	- Se Antonia
94444	- <b>-</b> -	niarius	, L			:		s
WAY OF			\$	ļ	LI.	_ :_	i	Treat to
	<del></del> :+		ــــَــ	<u> </u>		<del>, , , ,</del>	<u> </u>	•
<u> 554</u>	. >	\$29% <u>00</u> 2		·			<u> </u>	
Sze	. 2.	5343513 <u>1113</u>	-	, <u> </u>		1 10	<u> </u>	er <sub>A</sub> :
Soe	. >	5235042 1125	<u>. —</u>	>			<u> </u>	
See"	. 4	57 <b>9</b> 777 1121		۸,	<u> </u>	-	_	•
50		59 WQ12 1135		٠.			<u> </u>	<u>-0.0</u>
\$54	∴_	5080000 1138 <u>.</u>	-	1	<u> </u>		<u> </u>	-a.5
534	2	57392012 <u>1140</u>		λ	!	<del> </del>	<u> </u>	+0.0
5c#		<u> ಆರುವರ್ಚ್ ಆಸ್ತಿ</u>		λ	:	-	_	
5÷	<u> </u>	ַ פֿפֿיי בּטילקיבּפּ	-	, .	i		<u> </u>	<u>-0.0</u>
Spe		≥150.15	-	>	-	•	_	-0.0
MENTED SELOW (AC	•i 1r•± ş	ANY PLES CHANGE	e req	\$ <b>3£</b> 559	ያያ ፈ <sub>ተ</sub> ር [			K DELINEAY
MT.	[Here12]	Vincou es el 620009€	F.A. 4	a le serve	1 C-4			
		•		51 -		عد حالت	-	(1.00mm, 188 pm
	74 pe			-	_ :.		_	; <u>েন্ন ১৯৯৯</u> ১ পাচ
·	Sept	PROJECT   PART	SQL   17   SQL   17	PROJECT   PROJECT   PROJECT		Second   S	PROJECT PROCESS   PROJECT SAME   PROJECT   P	Description (Comment   Description   Descr



#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

Client Sample ID: FIELDBLANK SDG No.: D3944

Lab Sample ID: D3944-01 Matrix: WATER

Analytical Method: SW8082A % Moisture: 100 Decanted:

Sample Wt/Vol: 970 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: 6

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PC010118.D 1 08/27/12 08/28/12 PB65394

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.26	U	0.099	0.26	0.52	ug/L
11104-28-2	Aroclor-1221	0.26	U	0.196	0.26	0.52	ug/L
11141-16-5	Aroclor-1232	0.26	U	0.155	0.26	0.52	ug/L
53469-21-9	Aroclor-1242	0.26	U	0.092	0.26	0.52	ug/L
12672-29-6	Aroclor-1248	0.26	U	0.247	0.26	0.52	ug/L
11097-69-1	Aroclor-1254	0.26	U	0.045	0.26	0.52	ug/L
11096-82-5	Aroclor-1260	0.26	U	0.084	0.26	0.52	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	22.7		35 - 137	7	113%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.9		40 - 135	5	85%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

% Moisture:

17



#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 08/23/12 Project: Canine Kennel Date Received: 08/25/12

SDG No.: Client Sample ID: DS001(6-12) D3944

Lab Sample ID: D3944-02 Matrix: **SOIL** 

Analytical Method: SW8082A Decanted: Sample Wt/Vol: Final Vol: 30.06 Units: 10000 иL g

Test: PCB Soil Aliquot Vol: иL

Extraction Type: Injection Volume

1.0 PH: N/A GPC Factor:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date

1 08/27/12 08/29/12 PC010166.D PB65378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	10	U	4.2	10	20	ug/Kg
11104-28-2	Aroclor-1221	10	U	4.1	10	20	ug/Kg
11141-16-5	Aroclor-1232	10	U	9	10	20	ug/Kg
53469-21-9	Aroclor-1242	10	U	4.1	10	20	ug/Kg
12672-29-6	Aroclor-1248	10	U	7.9	10	20	ug/Kg
11097-69-1	Aroclor-1254	430	E	1.8	10	20	ug/Kg
11096-82-5	Aroclor-1260	10	U	4.9	10	20	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.1		10 - 166	6	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.7		60 - 125	5	83%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



PC010133.D

SURROGATES 877-09-8

2051-24-3

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

Client Sample ID: DS001(6-12)DL SDG No.: D3944

Lab Sample ID: D3944-02DL Matrix: SOIL

Analytical Method: SW8082A % Moisture: 17 Decanted: Sample Wt/Vol: 30.06 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

2

Tetrachloro-m-xylene

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 20.5 UD 8.3 20.5 41 ug/Kg 11104-28-2 Aroclor-1221 20.5 UD 8.2 20.5 41 ug/Kg 11141-16-5 Aroclor-1232 20.5 UD 18 20.5 41 ug/Kg Aroclor-1242 20.5 UD 8.2 20.5 53469-21-9 41 ug/Kg 12672-29-6 Aroclor-1248 20.5 UD 16 20.5 41 ug/Kg Aroclor-1254 410 DP 11097-69-1 3.6 20.5 41 ug/Kg Aroclor-1260 9.9 11096-82-5 20.5 UD 20.5 41 ug/Kg

12.9

15.1

08/28/12

PB65378

65%

76%

SPK: 20

SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

10 - 166

60 - 125



PC010167.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12
Project: Canine Kennel Date Received: 08/25/12

Client Sample ID: DS002(6-12) SDG No.: D3944

Lab Sample ID: D3944-03 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 7

Sample Wt/Vol: 30.03 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.7 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.7 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.1 9 18 ug/Kg Aroclor-1254 480  $\mathbf{E}$ 9 18 11097-69-1 16 ug/Kg Aroclor-1260 9 U 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 18.7 10 - 166 93% SPK: 20 60 - 125 2051-24-3 15.5 78% SPK: 20 Decachlorobiphenyl

08/29/12

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:

PB65378

% Moisture:

Decanted:



Analytical Method:

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

Client Sample ID: DS002(6-12)DL SDG No.: D3944

Lab Sample ID: D3944-03DL Matrix: SOIL

Sample Wt/Vol: 30.03 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PC010134.D 5 08/27/12 08/28/12 PB65378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	45.5	UD	19	45.5	91	ug/Kg
11104-28-2	Aroclor-1221	45.5	UD	18	45.5	91	ug/Kg
11141-16-5	Aroclor-1232	45.5	UD	40	45.5	91	ug/Kg
53469-21-9	Aroclor-1242	45.5	UD	18	45.5	91	ug/Kg
12672-29-6	Aroclor-1248	45.5	UD	35	45.5	91	ug/Kg
11097-69-1	Aroclor-1254	650	D	8	45.5	91	ug/Kg
11096-82-5	Aroclor-1260	45.5	UD	22	45.5	91	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	15.2		10 - 160	5	76%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.6		60 - 12:	5	78%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Final Vol:

08/28/12

IJ

U

10000

9

9

1.6

4.3

uL

PB65378

18

ug/Kg



Sample Wt/Vol:

PC010123.D

11097-69-1

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 08/23/12 Canine Kennel Date Received: 08/25/12

Project: SDG No.: Client Sample ID: DS003(6-12) D3944

Lab Sample ID: D3944-04 **SOIL** Matrix:

5 Analytical Method: SW8082A % Moisture: Decanted:

PCB Soil Aliquot Vol: иL Test:

Extraction Type: Injection Volume

g

1.0 GPC Factor: PH: N/A

1

Aroclor-1254

30.06

Units:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.6 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 6.9 9 18 ug/Kg

Aroclor-1260 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 19.2 10 - 166 96% SPK: 20 60 - 125 2051-24-3 14 70% SPK: 20 Decachlorobiphenyl

9

9

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

08/30/12

Decanted:

PB65378



PC010179.D

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 08/23/12 Project: Canine Kennel Date Received: 08/25/12

SDG No.: Client Sample ID: DS005(0-6) D3944

Lab Sample ID: D3944-05 Matrix: **SOIL** 

Analytical Method: Final Vol: Sample Wt/Vol: 30.1 Units: 10000 uL g

PCB Soil Aliquot Vol: иL Test:

Extraction Type: Injection Volume

1.0 GPC Factor: PH: N/A

1

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.9 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7 9 18 ug/Kg Aroclor-1254 2700  $\mathbf{E}$ 16 9 18 11097-69-1 ug/Kg Aroclor-1260 U 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 19.7 10 - 166 98% SPK: 20 60 - 125 79% 2051-24-3 15.8 SPK: 20 Decachlorobiphenyl

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

Client Sample ID: DS005(0-6)DL SDG No.: D3944

Lab Sample ID: D3944-05DL Matrix: SOIL

Analytical Method: SW8082A % Moisture: 6

Sample Wt/Vol: 30.1 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PC010135.D 10 08/27/12 08/28/12 PB65378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	90	UD	37	90	180	ug/Kg
11104-28-2	Aroclor-1221	90	UD	36	90	180	ug/Kg
11141-16-5	Aroclor-1232	90	UD	79	90	180	ug/Kg
53469-21-9	Aroclor-1242	90	UD	36	90	180	ug/Kg
12672-29-6	Aroclor-1248	90	UD	70	90	180	ug/Kg
11097-69-1	Aroclor-1254	3300	D	16	90	180	ug/Kg
11096-82-5	Aroclor-1260	90	UD	44	90	180	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	12.9		10 - 16	5	65%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.5		60 - 12:	5	83%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:

Test:

08/30/12



PC010180.D

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 08/23/12

Project: Canine Kennel Date Received: 08/25/12 SDG No.: Client Sample ID: DS008(0-6) D3944

Lab Sample ID: D3944-09 **SOIL** Matrix:

5 Analytical Method: SW8082A % Moisture: Decanted:

Sample Wt/Vol: 30.01 Units: Final Vol: 10000 g PCB

Soil Aliquot Vol: Extraction Type: Injection Volume

иL

1.0 GPC Factor: PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.9 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 6.9 9 18 ug/Kg Aroclor-1254 2100 9 18 11097-69-1 E 1.6 ug/Kg Aroclor-1260 U 4.3 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 18.4 10 - 166 92% SPK: 20 60 - 125 2051-24-3 15.3 77% SPK: 20 Decachlorobiphenyl

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

uL

PB65378



PC010136.D

11104-28-2

2051-24-3

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 08/23/12

Project: Canine Kennel Date Received: 08/25/12

SDG No.: Client Sample ID: DS008(0-6)DL D3944

D3944-09DL **SOIL** Lab Sample ID: Matrix:

5 Analytical Method: SW8082A % Moisture: Decanted: Sample Wt/Vol: 30.01 Units: Final Vol: 10000 uL g

PCB Soil Aliquot Vol: иL Test:

Extraction Type: Injection Volume

1.0 GPC Factor: PH: N/A

10

Aroclor-1221

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 90 UD 37 90 180 ug/Kg

90

17.7

08/28/12

UD

36

60 - 125

90

PB65378

180

89%

SPK: 20

ug/Kg 11141-16-5 Aroclor-1232 90 UD 79 90 180 ug/Kg 53469-21-9 Aroclor-1242 90 UD 36 90 180 ug/Kg 12672-29-6 Aroclor-1248 90 UD 69 90 180 ug/Kg Aroclor-1254 3100 16 180 11097-69-1 D 90 ug/Kg Aroclor-1260 43 11096-82-5 90 UD 90 180 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 13.5 10 - 166 68% SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



PC010181.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

 Client Sample ID:
 DS009(0-6)
 SDG No.:
 D3944

 Lab Sample ID:
 D3944-13
 Matrix:
 SOIL

Analytical Method: SW8082A % Moisture: 5 Decanted:

Sample Wt/Vol: 30.05 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.6 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.9 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 6.9 9 18 ug/Kg Aroclor-1254  $\mathbf{E}$ 9 18 11097-69-1 730 1.6 ug/Kg Aroclor-1260 U 4.3 9 11096-82-5 18 ug/Kg

08/30/12

PB65378

 SURROGATES

 877-09-8
 Tetrachloro-m-xylene
 21.2
 10 - 166
 106%
 SPK: 20

 2051-24-3
 Decachlorobiphenyl
 17.9
 60 - 125
 89%
 SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



PC010137.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12
Client Sample ID: DS009(0-6)DL SDG No.: D3944

Lab Sample ID: D3944-13DL Matrix: SOIL

Analytical Method: SW8082A % Moisture: 5 Decanted:

Sample Wt/Vol: 30.05 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

5

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 44.5 UD 18 44.5 89 ug/Kg 11104-28-2 Aroclor-1221 44.5 UD 18 44.5 89 ug/Kg 11141-16-5 Aroclor-1232 44.5 UD 39 44.5 89 ug/Kg 53469-21-9 Aroclor-1242 44.5 UD 18 44.5 89 ug/Kg 12672-29-6 Aroclor-1248 44.5 UD 35 44.5 89 ug/Kg Aroclor-1254 810 78 44.5 89 11097-69-1 D ug/Kg Aroclor-1260 11096-82-5 44.5 UD 22 44.5 89 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 15 10 - 166 75% SPK: 20

19.3

08/28/12

PB65378

97%

SPK: 20

U = Not Detected

2051-24-3

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

60 - 125



PC010124.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 08/23/12

Project: Canine Kennel Date Received: 08/25/12

Client Sample ID: DS010(0-6) SDG No.: D3944

Lab Sample ID: D3944-19 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 5 Decanted: Sample Wt/Vol: 30.01 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume 1

GPC Factor: 1.0 PH: N/A

1

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

08/27/12

**CAS Number** Parameter Conc. **Qualifier MDL** LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.9 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 6.9 9 18 ug/Kg Aroclor-1254 9 IJ 9 18 11097-69-1 1.6 ug/Kg Aroclor-1260 9 U 4.3 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 18.4 10 - 166 92% SPK: 20

14.6

08/28/12

PB65378

73%

SPK: 20

U = Not Detected

2051-24-3

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

60 - 125

# APPENDIX C LABORATORY ANALYTICAL REPORTS (ENDPOINT SAMPLING)



## **DATA FOR**

## **GC SEMI-VOLATILES**

**PROJECT NAME: CANINE KENNEL** 

P.W. GROSSER CONSULTING

630 Johnson Ave.

Suite 7

**Bohemia, NY - 11716** 

Phone No: 631-589-6353

ORDER ID: D4787

**ATTENTION:** Andy Lockwood







Date: 11/13/2012

Dear Andy Lockwood,

1 water and 7 soil samples for the **Canine Kennel** project were received on 11/12/2012. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

Regards,

CHRISTOPHER WOLSKI

c.wolski@CHEMTECH.NET



## 284 Sheffield Street, Mountainside, NJ 07892 (908) 789-8900 Fax (808) 789-8922 www.channech.est

[ged englighters]	NEC 1 VC
രുത്തില	3-26 P
OCC HARRING ()	25 <b>19</b> 3

CLEAT ARCHMETEL	CLUBAT PROJECT HAS CAN A ROY	CORAL BATTERS AND AND AND AND AND ADDRESS OF THE PERSON OF
SERVED PWEC	Purpose S Caming Kenner	18.000 <u>SAME</u> 45 <u>400.</u>
2008 <u>22                                </u>	HARLESTON SHIP SHIP STATES AND PROPERTY BASES	1 comes (1120) 1970
and Bound would writtle	movement Andy Lockward	<u> </u>
American A Lockinsond	· वस्त्रम् । स्ट केम्प्रेस्ट केम्प्रेस्ट केस्ट के	*FTDNRIDA: THOA:
mana 63 - 550 - 634 2 - 63 - 630 - 6365		
DATA TEMPNINGS NO ORMALI DA	CLINE: ROLLING COMPARISON	Carried State of the State of t
estronomic <u> </u>	Martin Burst Co. 1	
leto Gyl. ewist Frankringter zerte <b>pi</b> No	The state of the s	and the second
TO THE SAME TO SEE A PROPERTY OF THE SAME SAME	CAMPAL SAMPLE S	HESERVATIONS COMMINIS
CHECKFOOL PROJECT SAMPLE SAMPLE PROJECT CATCH-	MILLS LAND COULTESON	- 15,440 to Programme 4 8, 454
Sanita Beet I car bu	BANK NAME 3	The second of th
Fteld@cnc-Ocz	1 No. 1 No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>
<u>፡</u> . ቼየ - ዕር2(ረል∑	[돛·炎ː_쌀인![火 _	
<u> </u>		i
A 上 E 9 - 0(ib		- · · ·   · <del></del> ·- <del></del> -
는 . EP-CN5 > : EP-CN4		, † <del></del> · · · · · · · · · · · · · · · · · ·
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	S   X   1350   X   =	<u> </u>
<u> </u>	1 s   [x] \ \(\frac{1}{2} \)   [x] \	
[ <del></del>	<u> </u>	; ]
15 <u></u>	\$	Service of the Control of the Contro
en egyszegy singeregen ja jaka jaka jaka jaka jaka jaka jaka	Cardios d toller or certer et sesse:	O'Company
	Harital a constant of the 400 modes of t	Color to become south
၇ ကျမာလော်ရောမှ သောနှစ် 1// 37 ကလက်မိုးမှာ မ	- 1. — — — — — — — — — — — — — — — — — —	
$\frac{1}{1}$ $\frac{1}$	Mach on 1	CALIFORN CHARGE IN CONTRACT THE CAL



Client: Date Collected: P.W. Grosser Consulting

Project: Canine Kennel Date Received: 11/12/12

SDG No.: Client Sample ID: FIELDBLANK-001 D4787

Lab Sample ID: D4787-01 Matrix: WATER

% Moisture: Analytical Method: SW8082A 100 Decanted: Sample Wt/Vol: Final Vol:

uL Test: PCB Soil Aliquot Vol:

Extraction Type: Injection Volume:

mL

1.0 PH: 5 GPC Factor:

1000

Units:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date

1 11/12/12 11/12/12 PB66772 PO005172.D

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQI	Units
TARGETS							
12674-11-2	Aroclor-1016	0.25	U	0.096	0.25	0.5	ug/L
11104-28-2	Aroclor-1221	0.25	U	0.19	0.25	0.5	ug/L
11141-16-5	Aroclor-1232	0.25	U	0.15	0.25	0.5	ug/L
53469-21-9	Aroclor-1242	0.25	U	0.089	0.25	0.5	ug/L
12672-29-6	Aroclor-1248	0.25	U	0.24	0.25	0.5	ug/L
11097-69-1	Aroclor-1254	0.25	U	0.044	0.25	0.5	ug/L
11096-82-5	Aroclor-1260	0.25	U	0.081	0.25	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	6.91		35 - 137	7	35%	SPK: 20
2051-24-3	Decachlorobiphenyl	4.3	*	40 - 135	5	22%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11/09/12

10000

иL



Client: P.W. Grosser Consulting Date Collected:

Project: Canine Kennel Date Received: 11/12/12

Client Sample ID: FIELDBLANK-001RE SDG No.: D4787

Lab Sample ID: D4787-01RE Matrix: WATER

Analytical Method: SW8082A % Moisture: 100 Decanted:

Sample Wt/Vol: 1000 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: 5

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PO005193.D 1 11/12/12 11/13/12 PB66772

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.25	U	0.096	0.25	0.5	ug/L
11104-28-2	Aroclor-1221	0.25	U	0.19	0.25	0.5	ug/L
11141-16-5	Aroclor-1232	0.25	U	0.15	0.25	0.5	ug/L
53469-21-9	Aroclor-1242	0.25	U	0.089	0.25	0.5	ug/L
12672-29-6	Aroclor-1248	0.25	U	0.24	0.25	0.5	ug/L
11097-69-1	Aroclor-1254	0.25	U	0.044	0.25	0.5	ug/L
11096-82-5	Aroclor-1260	0.25	U	0.081	0.25	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	7.08		35 - 137	7	35%	SPK: 20
2051-24-3	Decachlorobiphenyl	4.22	*	40 - 135	;	21%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11/09/12



Client: P.W. Grosser Consulting Date Collected:

Project: Canine Kennel Date Received: 11/12/12

Client Sample ID: EP-002(CA) SDG No.: D4787

Lab Sample ID: D4787-02 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 5 Decanted: Sample Wt/Vol: 30.07 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PO005173.D 1 11/12/12 11/12/12 PB66780

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	9	U	3.6	9	18	ug/Kg
11104-28-2	Aroclor-1221	9	U	3.6	9	18	ug/Kg
11141-16-5	Aroclor-1232	9	U	7.8	9	18	ug/Kg
53469-21-9	Aroclor-1242	9	U	3.6	9	18	ug/Kg
12672-29-6	Aroclor-1248	9	U	6.9	9	18	ug/Kg
11097-69-1	Aroclor-1254	140		1.6	9	18	ug/Kg
11096-82-5	Aroclor-1260	9	U	4.3	9	18	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.9		10 - 160	5	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.6		60 - 123	5	83%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11/09/12



PO005174.D

877-09-8

2051-24-3

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/09/12

Project: Canine Kennel Date Received: 11/12/12

Client Sample ID: EP-017 SDG No.: D4787

Lab Sample ID: D4787-03 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 4 Decanted: Sample Wt/Vol: 30.1 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

Tetrachloro-m-xylene

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/12/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.6 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.5 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.5 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 6.8 9 18 ug/Kg 11097-69-1 Aroclor-1254 1.5 9 18 290 ug/Kg Aroclor-1260 U 4.3 9 11096-82-5 18 ug/Kg **SURROGATES** 

20.7

18

11/12/12

PB66780

104%

90%

SPK: 20

SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

10 - 166

60 - 125

11/12/12

8

Decanted:

PB66780



Analytical Method:

PO005175.D

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 11/09/12

Project: Canine Kennel Date Received: 11/12/12

SDG No.: Client Sample ID: EP-016 D4787

Lab Sample ID: D4787-04 Matrix: **SOIL** 

Sample Wt/Vol: 30.05 Units: Final Vol: 10000 uL g

PCB Soil Aliquot Vol: иL Test:

Extraction Type: Injection Volume:

1.0 GPC Factor: PH: N/A

1

Decachlorobiphenyl

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/12/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.8 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.7 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8.1 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.7 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.2 9 18 ug/Kg Aroclor-1254 9 18 11097-69-1 130 16 ug/Kg Aroclor-1260 U 4.5 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 20.4 10 - 166 102% SPK: 20 60 - 125 2051-24-3 15 75% SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:



#### **Report of Analysis**

Client: Date Collected: 11/09/12 P.W. Grosser Consulting

Project: Canine Kennel Date Received: 11/12/12

SDG No.: Client Sample ID: EP-015 D4787

Lab Sample ID: D4787-05 Matrix: SOIL

Analytical Method: Sample Wt/Vol: 30.12 Units: Final Vol: 10000 иL g

Test: PCB Soil Aliquot Vol: иL

Extraction Type: Injection Volume:

1.0 PH: N/A GPC Factor:

SW8082A

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date

1 11/12/12 11/12/12 PB66780 PO005176.D

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	9	U	3.8	9	18	ug/Kg
11104-28-2	Aroclor-1221	9	U	3.7	9	18	ug/Kg
11141-16-5	Aroclor-1232	9	U	8.1	9	18	ug/Kg
53469-21-9	Aroclor-1242	9	U	3.7	9	18	ug/Kg
12672-29-6	Aroclor-1248	9	U	7.1	9	18	ug/Kg
11097-69-1	Aroclor-1254	17	J	1.6	9	18	ug/Kg
11096-82-5	Aroclor-1260	9	U	4.4	9	18	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.8		10 - 160	5	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.8		60 - 125	5	84%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



PO005177.D

877-09-8

2051-24-3

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/09/12

Project: Canine Kennel Date Received: 11/12/12

Client Sample ID: EP-014 SDG No.: D4787

Lab Sample ID: D4787-06 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 8 Decanted: Sample Wt/Vol: 30.01 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

Tetrachloro-m-xylene

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/12/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.8 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.7 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8.1 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.7 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.2 9 18 ug/Kg Aroclor-1254 9 IJ 9 18 11097-69-1 16 ug/Kg Aroclor-1260 9 4.5 9 11096-82-5 18 ug/Kg **SURROGATES** 

19

13.6

11/12/12

PB66780

95%

68%

SPK: 20

SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

10 - 166

60 - 125



PO005178.D

877-09-8

2051-24-3

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected:

Project: Canine Kennel Date Received: 11/12/12

Client Sample ID: EP-013 SDG No.: D4787

Lab Sample ID: D4787-07 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 7 Decanted: Sample Wt/Vol: 30.09 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

Tetrachloro-m-xylene

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/12/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.1 9 18 ug/Kg Aroclor-1254 9 IJ 9 18 11097-69-1 16 ug/Kg Aroclor-1260 9 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 

18.8

13.4

11/12/12

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

10 - 166

60 - 125

11/09/12

PB66780

94%

67%

SPK: 20

SPK: 20

Decanted:



#### **Report of Analysis**

Client: Date Collected: 11/09/12 P.W. Grosser Consulting

Project: Canine Kennel Date Received: 11/12/12

SDG No.: Client Sample ID: EP-012 D4787

Lab Sample ID: D4787-08 Matrix: SOIL

Analytical Method: Sample Wt/Vol: 30.09 Units: Final Vol: 10000 иL g

Test: PCB Soil Aliquot Vol: иL

Extraction Type: Injection Volume:

1.0 PH: N/A GPC Factor:

SW8082A

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date

1 11/12/12 11/12/12 PB66780 PO005179.D

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	9	U	3.7	9	18	ug/Kg
11104-28-2	Aroclor-1221	9	U	3.6	9	18	ug/Kg
11141-16-5	Aroclor-1232	9	U	8	9	18	ug/Kg
53469-21-9	Aroclor-1242	9	U	3.6	9	18	ug/Kg
12672-29-6	Aroclor-1248	9	U	7.1	9	18	ug/Kg
11097-69-1	Aroclor-1254	9	U	1.6	9	18	ug/Kg
11096-82-5	Aroclor-1260	9	U	4.4	9	18	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.8		10 - 160	5	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.6		60 - 12:	5	73%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



## **DATA FOR**

## **GC SEMI-VOLATILES**

**PROJECT NAME: CANINE KENNEL** 

P.W. GROSSER CONSULTING

630 Johnson Ave.

Suite 7

**Bohemia, NY - 11716** 

Phone No: 631-589-6353

ORDER ID: D4831

**ATTENTION:** Andy Lockwood







Date: 11/16/2012

Dear Andy Lockwood,

1 water and 11 soil samples for the **Canine Kennel** project were received on 11/15/2012. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

The invoice for this workorder is also attached to the e-mail.

Regards,

CHRISTOPHER WOLSKI

c.wolski@CHEMTECH.NET



# 284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fex (908) 789-8922 www.chamteck.net

29 M 10 24 (1.19) Court 10 DEC Marcon 0 2 5 1 6 4

<u> </u>				<b>E</b>	029124	
Orth secessings		CLUBS PROJECTIONS	report	418	4: 8 J.Ped #40Relations	
eneral G20 Mnnsch	. Impac <u>si</u> wa Book . Samusian	or <u>A</u> gene <u>r Me</u> Sheket somerij	MACL PR	<u>2</u> m	k €3 . mar.	-
	Bollow ( [ 12] K. Company on	omen Bady Livi		: •	The Internal of	<b>u</b> •
ა ინია გა ადირებებაბა ადა: ქქაქანებებებები გამ ადანითოლი ადა დიფო		<u>ئے کھنے یا 101</u> 1	<u> </u>	OLENSON	PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF	
(40) (40) (40) (40) (40)	J#551	— —				para sa
THE ALBERTANCE OF THE PROPERTY	## 10 to ± Juli 2000 un til 2000 en en	With a XII at the care		EE SI De AFren y	10/10/	— <u>-</u>
GREMATACIN . PROLESS SAMPLE SAMPLE TOENTIL	SAMPLE SA	TE SAMPLI C F CULLFETION	£ ,	, i , i	1 (Aug 75) 1 (Aug 75)	Meritania Presentation Presentation Presentation
_		Natabiliazs II 12 ( 1886) i	X	÷	_ ! .	<u> </u>
. ცებიმა ქებიმა	RW3   EWA	0.50		_ [	Y-78	_
EPOCIA EPOCIA		1 (1886) 1 (1956)			· · ·	
. E2005 . E2003 		1040	<u>X</u> :		1	-
<u>EPOtO</u> ti <u>POtt</u> s•⇔ci cas	OUT MISSTING SOCIAL MISS INTO AUTO	1765   1 <u>4 - 4</u> 1 <u>1306   4  </u>	X	<u> </u>		
7, K/10 x 2 111/K 1/20		Contracts of the contract of t	ende possission la les element (Colored Colored Colore	CI COMO COUR ER CA MINOR COUR ER CA MINOR COUR ER CA	to one to an and one of the control	5"( j
100 m 10	Section of the sectio	. ,	) SHOTED WA	rinari (Cewooniya	1911 (18€ 11 12 12 17 17 19 11 11 11 11 11 11 11 11 11 11 11 11	<u></u>



# 284 Sheffield Street, Mountainside, NJ 07092 [908] 789-8900 Fax [908] 789-8922 www.chemisch.net

1 84 07 00 0900 041 90	
3000 NO	
GRUNA - 12/6/5	

COMP. BRECOMPANION	C. UK 1 PROJECT THE DISHBATTON	では 9世 A 1995 970年APOで
Character Annual Contractions of the Contraction of	PARTY SAME TO BE STORE THE BEST OF THE	Parton Sunt Assets
Limited States of Augustin	The SHORE STARTER	$const$ $C(JG)^{\dagger}$
ACCOUNT OF Y. MERSON AND	A FROM THE WALL TO LEGET	. in (NFC) on 2π
		artin hayes re-con-
- 10 - BLOCKWOOT /K ALDING	The same of the contract of th	ANIL YES
Property of the property of the Company of the Comp	PRICAL SAME IN SAME	
144 . Telefoldstan manager	La producti Reservoires de la meser	
HARD APP	The state of the s	
And And	The state of the second property of the state of the stat	
Higher (KTASC) for the Miles of the form to 1999.	Transport	PRINTED STATES COMMENTS
CHRHATICH DOOLERS	SAMPLE SAMPLE &	a cest fy the conspictors
SAMPLE SAMPLE CLARKE	MARCO 1. TOP COLUMN S	1 Heli (3 Hel) (5 Hel) (5 Hel) (5 Hel) (5 Hel) (5 Hel) (5 Hel) (6 Hel) (6 Hel) (7 Hel)
<ul> <li>First A BN-νία - α - ξ.</li> </ul>	N Xuthrasm Z:	L Company
r eroig	$\int S = \lambda \log \log n \log n$	L. D⊒GCyw., L.
, <u> </u>		
ļ.		· · · · · · · · · · · · · · · · · · ·
[ <u> </u>		
4		
<b>,</b> '		
1 · · · · · · · · · · · · · · · · · · ·		, ! !
es in the second second	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
SAME A COLSTON MANY	<del>~~~</del> <del></del>	MONEMON MANAGE CANADA OF PRINCES AND CONTRACTOR OF THE CONTRACTOR
The second secon	Conceans of torses > coords of execut Use, is the second control of execution of execution of Comments	gar we
	(A)	ONE CORP ( SHOULD IN MED MONEY SHOW CONTROL SHOWS CONTROL

11/15/12

Decanted:

PB66849

104%

83%

SPK: 20

SPK: 20



Analytical Method:

PO005243.D

SURROGATES 877-09-8

2051-24-3

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/12/12

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP001 SDG No.: d4831

Lab Sample ID: D4831-01 Matrix: SOIL

Sample Wt/Vol: 30.07 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

Tetrachloro-m-xylene

Decachlorobiphenyl

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/15/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9.5 U 3.8 9.5 19 ug/Kg 11104-28-2 Aroclor-1221 9.5 U 3.7 9.5 19 ug/Kg 11141-16-5 Aroclor-1232 9.5 U 8.2 9.5 19 ug/Kg 53469-21-9 Aroclor-1242 9.5 U 3.7 9.5 19 ug/Kg 12672-29-6 Aroclor-1248 9.5 U 7.2 9.5 19 ug/Kg Aroclor-1254 1500  $\mathbf{E}$ 19 11097-69-1 16 9.5 ug/Kg Aroclor-1260 9.5 U 4.5 19 11096-82-5 9.5 ug/Kg

20.9

16.6

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

10 - 166

60 - 125

11/16/12

Decanted:

PB66849



Analytical Method:

PO005266.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/12/12

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP001DL SDG No.: d4831

Lab Sample ID: D4831-01DL Matrix: SOIL

Sample Wt/Vol: 30.07 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

10

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/15/12

**CAS Number Parameter** Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 95 UD 38 95 190 ug/Kg 11104-28-2 Aroclor-1221 95 UD 37 95 190 ug/Kg 11141-16-5 Aroclor-1232 95 UD 82 95 190 ug/Kg 53469-21-9 Aroclor-1242 95 UD 37 95 190 ug/Kg 12672-29-6 Aroclor-1248 95 UD 72 95 190 ug/Kg Aroclor-1254 1200 16 95 190 11097-69-1 D ug/Kg Aroclor-1260 45 190 11096-82-5 95 UD 95 ug/Kg

 SURROGATES

 877-09-8
 Tetrachloro-m-xylene
 17.8
 10 - 166
 89%
 SPK: 20

 2051-24-3
 Decachlorobiphenyl
 14.4
 60 - 125
 72%
 SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11/15/12

Decanted:

PB66849



Analytical Method:

PO005244.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/12/12

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP002 SDG No.: d4831

Lab Sample ID: D4831-02 Matrix: SOIL

Sample Wt/Vol: 30.05 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/15/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.9 9 18 ug/Kg

53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7 9 18 ug/Kg Aroclor-1254 100 16 9 18 11097-69-1 ug/Kg Aroclor-1260 U 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 

 877-09-8
 Tetrachloro-m-xylene
 20.7
 10 - 166
 104%
 SPK: 20

 2051-24-3
 Decachlorobiphenyl
 16.6
 60 - 125
 83%
 SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



PO005245.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/12/12

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP003 SDG No.: d4831
Lab Sample ID: D4831-03 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 8

Sample Wt/Vol: 30.09 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/15/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.8 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.7 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8.1 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.7 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.1 9 18 ug/Kg Aroclor-1254 9 18 11097-69-1 220 16 ug/Kg Aroclor-1260 U 4.5 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 22 10 - 166 110% SPK: 20 60 - 125 91% 2051-24-3 18.3 SPK: 20 Decachlorobiphenyl

11/15/12

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:

PB66849



PO005246.D

11096-82-5

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/12/12

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP005 SDG No.: d4831 Lab Sample ID: D4831-04 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 8

Sample Wt/Vol: 30.04 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

Aroclor-1260

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/15/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.8 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.7 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8.1 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.7 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.2 9 18 ug/Kg Aroclor-1254 73 9 18 11097-69-1 16 ug/Kg

11/15/12

U

4.5

9

 SURROGATES

 877-09-8
 Tetrachloro-m-xylene
 21
 10 - 166
 105%
 SPK: 20

 2051-24-3
 Decachlorobiphenyl
 16.9
 60 - 125
 84%
 SPK: 20

9

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:

PB66849

18

ug/Kg

Decanted:



Analytical Method:

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/12/12

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP006 SDG No.: d4831

Lab Sample ID: D4831-05 Matrix: SOIL

Sample Wt/Vol: 30.01 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PO005247.D 1 11/15/12 11/15/12 PB66849

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	9.5	U	3.8	9.5	19	ug/Kg
11104-28-2	Aroclor-1221	9.5	U	3.7	9.5	19	ug/Kg
11141-16-5	Aroclor-1232	9.5	U	8.2	9.5	19	ug/Kg
53469-21-9	Aroclor-1242	9.5	U	3.7	9.5	19	ug/Kg
12672-29-6	Aroclor-1248	9.5	U	7.2	9.5	19	ug/Kg
11097-69-1	Aroclor-1254	900	EP	1.6	9.5	19	ug/Kg
11096-82-5	Aroclor-1260	9.5	U	4.5	9.5	19	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.3		10 - 166	6	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.4		60 - 125	5	62%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



Analytical Method:

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 11/12/12

Project: Canine Kennel Date Received: 11/15/12

SDG No.: Client Sample ID: EP006DL d4831

Lab Sample ID: D4831-05DL Matrix: **SOIL** % Moisture:

Sample Wt/Vol: 30.01 Units: Final Vol: 10000 иL g

Test: PCB Soil Aliquot Vol: иL

Extraction Type: Injection Volume:

1.0 PH: N/A GPC Factor:

SW8082A

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date

5 11/15/12 11/16/12 PB66849 PO005267.D

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	46.5	UD	19	46.5	93	ug/Kg
11104-28-2	Aroclor-1221	46.5	UD	19	46.5	93	ug/Kg
11141-16-5	Aroclor-1232	46.5	UD	41	46.5	93	ug/Kg
53469-21-9	Aroclor-1242	46.5	UD	19	46.5	93	ug/Kg
12672-29-6	Aroclor-1248	46.5	UD	36	46.5	93	ug/Kg
11097-69-1	Aroclor-1254	860	D	8.2	46.5	93	ug/Kg
11096-82-5	Aroclor-1260	46.5	UD	23	46.5	93	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.5		10 - 160	5	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.8	*	60 - 12:	5	59%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:

11/15/12

11

Decanted:

PB66849



Analytical Method:

PO005248.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/12/12

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP007 SDG No.: d4831

Lab Sample ID: D4831-06 Matrix: SOIL

Sample Wt/Vol: 30.05 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/15/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9.5 U 3.9 9.5 19 ug/Kg 11104-28-2 Aroclor-1221 9.5 U 3.8 9.5 19 ug/Kg 11141-16-5 Aroclor-1232 9.5 U 8.4 9.5 19 ug/Kg 53469-21-9 Aroclor-1242 9.5 U 3.8 9.5 19 ug/Kg 12672-29-6 Aroclor-1248 9.5 U 7.4 9.5 19 ug/Kg Aroclor-1254 4300 EP 17 19 11097-69-1 9.5 ug/Kg Aroclor-1260 9.5 4.6 19 11096-82-5 U 9.5 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 19.2 10 - 166 96% SPK: 20 60 - 125 2051-24-3 14.5 72% SPK: 20 Decachlorobiphenyl

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11

Decanted:



Analytical Method:

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/12/12

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP007DL SDG No.: d4831

Lab Sample ID: D4831-06DL Matrix: SOIL

Sample Wt/Vol: 30.05 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PO005268.D 20 11/15/12 11/16/12 PB66849

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	190	UD	78	190	380	ug/Kg
11104-28-2	Aroclor-1221	190	UD	76	190	380	ug/Kg
11141-16-5	Aroclor-1232	190	UD	170	190	380	ug/Kg
53469-21-9	Aroclor-1242	190	UD	76	190	380	ug/Kg
12672-29-6	Aroclor-1248	190	UD	150	190	380	ug/Kg
11097-69-1	Aroclor-1254	3800	D	33	190	380	ug/Kg
11096-82-5	Aroclor-1260	190	UD	92	190	380	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	24.2		10 - 160	5	121%	SPK: 20
2051-24-3	Decachlorobiphenyl	15		60 - 123	5	75%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



Client: P.W. Grosser Consulting Date Collected: 11/12/12

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP008 SDG No.: d4831

Lab Sample ID: D4831-07 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 9

Sample Wt/Vol: 30.04 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PO005251.D 1 11/15/12 11/15/12 PB66849

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	9.5	U	3.8	9.5	19	ug/Kg
11104-28-2	Aroclor-1221	9.5	U	3.7	9.5	19	ug/Kg
11141-16-5	Aroclor-1232	9.5	U	8.2	9.5	19	ug/Kg
53469-21-9	Aroclor-1242	9.5	U	3.7	9.5	19	ug/Kg
12672-29-6	Aroclor-1248	9.5	U	7.2	9.5	19	ug/Kg
11097-69-1	Aroclor-1254	1400	EP	1.6	9.5	19	ug/Kg
11096-82-5	Aroclor-1260	9.5	U	4.5	9.5	19	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.3		10 - 160	5	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.4		60 - 12:	5	72%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:



Analytical Method:

PO005269.D

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 11/12/12

Project: Canine Kennel Date Received: 11/15/12

SDG No.: Client Sample ID: EP008DL d4831

Lab Sample ID: D4831-07DL Matrix: **SOIL** SW8082A % Moisture:

Sample Wt/Vol: 30.04 Units: Final Vol: 10000 uL g

PCB Soil Aliquot Vol: иL Test:

Extraction Type: Injection Volume:

1.0 GPC Factor: PH: N/A

10

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/15/12

**CAS Number Parameter** Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 95 UD 38 95 190 ug/Kg 11104-28-2 Aroclor-1221 95 UD 37 95 190 ug/Kg 11141-16-5 Aroclor-1232 95 UD 82 95 190 ug/Kg 53469-21-9 Aroclor-1242 95 UD 37 95 190 ug/Kg 12672-29-6 Aroclor-1248 95 UD 72 95 190 ug/Kg Aroclor-1254 1200 16 95 190 11097-69-1 D ug/Kg Aroclor-1260 45 190 11096-82-5 95 UD 95 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 21.7 10 - 166 109% SPK: 20 60 - 125 2051-24-3 14.7 74% SPK: 20

11/16/12

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:

PB66849

Matrix:

SOIL

Decanted:



#### **Report of Analysis**

Client: Date Collected: 11/12/12 P.W. Grosser Consulting

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP009 SDG No.: d4831

Lab Sample ID: % Moisture: Analytical Method: SW8082A

Sample Wt/Vol: 30.07 Units: Final Vol: 10000 иL g

uL Test: PCB Soil Aliquot Vol:

Extraction Type: Injection Volume:

1.0 PH: N/A GPC Factor:

D4831-08

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

1 11/15/12 11/15/12 PB66849 PO005252.D

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	9	U	3.7	9	18	ug/Kg
11104-28-2	Aroclor-1221	9	U	3.6	9	18	ug/Kg
11141-16-5	Aroclor-1232	9	U	8	9	18	ug/Kg
53469-21-9	Aroclor-1242	9	U	3.6	9	18	ug/Kg
12672-29-6	Aroclor-1248	9	U	7.1	9	18	ug/Kg
11097-69-1	Aroclor-1254	49		1.6	9	18	ug/Kg
11096-82-5	Aroclor-1260	9	U	4.4	9	18	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	21		10 - 160	5	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	17		60 - 12:	5	85%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/12/12

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP010 SDG No.: d4831

Lab Sample ID: D4831-09 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 7

Sample Wt/Vol: 30.08 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PO005253.D 1 11/15/12 11/15/12 PB66849

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	9	U	3.7	9	18	ug/Kg
11104-28-2	Aroclor-1221	9	U	3.6	9	18	ug/Kg
11141-16-5	Aroclor-1232	9	U	8	9	18	ug/Kg
53469-21-9	Aroclor-1242	9	U	3.6	9	18	ug/Kg
12672-29-6	Aroclor-1248	9	U	7.1	9	18	ug/Kg
11097-69-1	Aroclor-1254	43	P	1.6	9	18	ug/Kg
11096-82-5	Aroclor-1260	9	U	4.4	9	18	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.1		10 - 16	6	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.1		60 - 12:	5	80%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:



PO005254.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/12/12

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP011 SDG No.: d4831
Lab Sample ID: D4831-10 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 7

Sample Wt/Vol: 30.05 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/15/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.1 9 18 ug/Kg Aroclor-1254 9 18 11097-69-1 110 16 ug/Kg Aroclor-1260 U 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 19.9 10 - 166 100% SPK: 20 60 - 125 2051-24-3 15.4 77% SPK: 20 Decachlorobiphenyl

11/15/12

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:

PB66849



#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected:

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: FIELDBLANK-002 SDG No.: d4831

Lab Sample ID: D4831-11 Matrix: WATER

Analytical Method: SW8082A % Moisture: 100 Decanted: Sample Wt/Vol: 960 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: 5

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PO005272.D 1 11/15/12 11/16/12 PB66839

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.26	U	0.1	0.26	0.52	ug/L
11104-28-2	Aroclor-1221	0.26	U	0.198	0.26	0.52	ug/L
11141-16-5	Aroclor-1232	0.26	U	0.156	0.26	0.52	ug/L
53469-21-9	Aroclor-1242	0.26	U	0.093	0.26	0.52	ug/L
12672-29-6	Aroclor-1248	0.26	U	0.25	0.26	0.52	ug/L
11097-69-1	Aroclor-1254	0.26	U	0.046	0.26	0.52	ug/L
11096-82-5	Aroclor-1260	0.26	U	0.084	0.26	0.52	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.1		35 - 137	7	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	9.83		40 - 135	;	49%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates > 25% difference for detected

concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11/12/12



#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/13/12

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP018 SDG No.: d4831

Lab Sample ID: D4831-12 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 9

Sample Wt/Vol: 30.04 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PO005255.D 1 11/15/12 11/15/12 PB66849

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	9.5	U	3.8	9.5	19	ug/Kg
11104-28-2	Aroclor-1221	9.5	U	3.7	9.5	19	ug/Kg
11141-16-5	Aroclor-1232	9.5	U	8.2	9.5	19	ug/Kg
53469-21-9	Aroclor-1242	9.5	U	3.7	9.5	19	ug/Kg
12672-29-6	Aroclor-1248	9.5	U	7.2	9.5	19	ug/Kg
11097-69-1	Aroclor-1254	3800	EP	1.6	9.5	19	ug/Kg
11096-82-5	Aroclor-1260	9.5	U	4.5	9.5	19	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.1		10 - 166	6	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	16		60 - 125	5	80%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:

Date Collected:

% Moisture:

11/13/12

Decanted:



Analytical Method:

#### Report of Analysis

Client: P.W. Grosser Consulting

Project: Canine Kennel Date Received: 11/15/12

Client Sample ID: EP018DL SDG No.: d4831

Lab Sample ID: D4831-12DL Matrix: SOIL

Sample Wt/Vol: 30.04 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PO005270.D 20 11/15/12 11/16/12 PB66849

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	185	UD	76	185	370	ug/Kg
11104-28-2	Aroclor-1221	185	UD	75	185	370	ug/Kg
11141-16-5	Aroclor-1232	185	UD	160	185	370	ug/Kg
53469-21-9	Aroclor-1242	185	UD	75	185	370	ug/Kg
12672-29-6	Aroclor-1248	185	UD	140	185	370	ug/Kg
11097-69-1	Aroclor-1254	4300	D	33	185	370	ug/Kg
11096-82-5	Aroclor-1260	185	UD	90	185	370	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	31.8		10 - 166	6	159%	SPK: 20
2051-24-3	Decachlorobiphenyl	21		60 - 125	5	105%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



# **DATA FOR**

# **GC SEMI-VOLATILES**

**PROJECT NAME: CANINE KENNEL** 

P.W. GROSSER CONSULTING

630 Johnson Ave.

Suite 7

**Bohemia, NY - 11716** 

Phone No: 631-589-6353

ORDER ID: D4907

**ATTENTION:** Andy Lockwood







Date: 11/23/2012

Dear Andy Lockwood,

1 water and 10 soil samples for the **Canine Kennel** project were received on 11/21/2012. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

Regards,

CHRISTOPHER WOLSKI

c.wolski@CHEMTECH.NET



# 284 Sheffield Street, Mountainaide, NJ 07092 (908) 789-8900 Fax (908) 789-8922 www.chemiech.pgt

Friedrich - Stages (1965)	
MARTING	
900 N-19444	

	CAN MA AND AND AND AND AND AND AND AND AND AN	C. 4 of Philippin serversanges		BAG A REMINER AND
	M. J. K.	$\log n \sim e^{-\frac{1}{2} \left( \frac{1}{2} \left($	para Militaria (Prince)	19.4
	et water and	THE PROPERTY OF THE PROPERTY O	The second of th	ilio.
3,170	zina nikita 💎 siren kapimili dibe.	produce manage of the faith for the second	900	 Nearl 7 5
AFFR TO CA	Flori om fri Kirknik	extend が成身 (1.7 元20 元 12.3)	<u>1</u> 1967/8	· ····································
$\mathbf{v} = (\mathbf{u}_{1}) \cdot \mathbf{v} \cdot \frac{\mathbf{v}_{2}}{\mathbf{v}_{2}}$	one which was the	<u> 1888年</u> 年月1 <u>年 (</u> 2011年 <u>東東西</u> 州)	3.4	AL YSJ
1000 (1201) (12010) (1201) (12010) (12011)	CATA TAMPARIOLEC SAFORMANDA (CATA) A 1 BOST (LAC) (CATA)	DATA STEINLEADLE Very-manages  1 1967 (1 1968) (1 1968) (1 1978)  2 1979 (2 1968) (1 1978) (1 1978) (1 1978)  2 2 3 4 5 5 6 6 7 7 10 10 10 10 10 10 10 10 10 10 10 10 10	<u> </u>	
CHRATECH SAMPLE CO	PAGILUT BANKERISHTALGALOA	SHAPE SAMPLE SAMPLE S SHAPE TAPE COLLECTION S MATCHES & S (MATE THAN 6)	PAITEHVATIVES	COMMUNICATION  A MEA OF HAIL  C MISSE C TABLE
	「「PecopRita」を含 LPではたら(pa を含 とをできならののでは はないきならのは pa modifica LPでははなられる。 CTU はははあ きまはMankCO.5	X   3   1   X   X   X   X   X   X   X   X   X		A North Participant
en entre de l'est l'église de l'église l'église de l'église l'église de l'église de l'église l'église de l'église	- mail in the state of the stat	ANPHREE BUILDIN HACH TIME SCHOOL PERCHANCE PRINTINGS  Concerns to bytes to contain to proceed to the Charles to the Concerns t	SE COMPANY OF THE COMPANY OF THE PROPERTY OF THE COMPANY OF THE CO	Code temp 5 °C com Code en C
· <i>天序</i> 合	<u> </u>	i i	100(mg)(20 ) for MF7 (No. 7)	Constant Paris Car



# 284 Shaffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922

Commonweath Progress Neumonia 

CHAIN OF CUSTODY RECORD	www.chemtech.pet	
CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
	reserved to the second of the contract of the	
<u> </u>	market bearing. By the Color of the	<u> </u>
The state of the s	<u> ( ምሳ - ሕዕፅፈንም የፈላተርር አንድን - ርዕፈኝ)</u> መደረገ አለብ መደረገ አለባች - <sup>144</sup> ሲያ <u>ተርቀባለው የ</u> ፈ	411 5 ° 6 6 1
<u>የተመሰው ነው ቅር ትርተለው ያለነት ተሞን </u> ምለነው ነው።		NAL*51S
ратд Тукналочко Information	DATA DELIVEPARLE INFORMATION	
oute 1 parez nadejo talizi 50 propin najpo konstantje je je 100 priližije najpo konstantje je je 100 priližije	(I well a space (I grades))  Grades and the Section (I grades)  Experience (I grades)  I consider (I grades)  I consider (I grades)	
Control of the Contro	NAMES CAMPUT	and the second s
EN LIMITACI) MACABUT CAMPAR SOME UL MICHATORIO M NO I	SAMP THE THE THE TABLE THE	
<u>。                                    </u>	S X 25 10 (350) 1.	
<u>β.</u> γ <sup>2</sup> Εβεν ( <del>13,πβω</del> (γ.12) μ Θενελ ( <del>13,πβω</del> (γ.12)		
4		
·	<b>}</b>	┝╶┆ <del>╞╌</del> ┤┊┼ <del>┡╏╸</del> │ ──
<u> </u>	1· · · <del>† -</del> ; -	<del>                                     </del>
·		I. [ · · · · · · · · · · · · · · · · · ·
<u> </u>	<b>↓</b>	I
		INCRESSION INCLUDING COURIES DELIVERY
'		HOSSESSION INCLUDING COURIER CELLYERY
1) 1) 1/2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Comments	APT DE LA PERSONA
[	<u></u>	<u> </u>
1/2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /	April 1985	The second of th

Date Collected:

Final Vol:

11/23/12

11/20/12

10000

uL

PB66995



Sample Wt/Vol:

PC011408.D

**SURROGATES** 

#### **Report of Analysis**

Client: P.W. Grosser Consulting

Units:

Project: Canine Kennel Date Received: 11/21/12

Client Sample ID: EP001B(12-18) SDG No.: D4907

Lab Sample ID: D4907-01 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 3 Decanted:

Soil Aliquot Vol: uL Test: PCB

g

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

30.09

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/21/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 8.5 U 3.6 8.5 17 ug/Kg 11104-28-2 Aroclor-1221 8.5 U 3.5 8.5 17 ug/Kg 11141-16-5 Aroclor-1232 8.5 U 7.7 8.5 17 ug/Kg

53469-21-9 Aroclor-1242 8.5 U 3.5 8.5 17 ug/Kg 12672-29-6 Aroclor-1248 8.5 U 6.8 8.5 17 ug/Kg Aroclor-1254 2100  $\mathbf{E}$ 1.5 11097-69-1 8.5 17 ug/Kg Aroclor-1260 4.2 11096-82-5 8.5 U 8.5 17 ug/Kg

 877-09-8
 Tetrachloro-m-xylene
 22.2
 10 - 166
 111%
 SPK: 20

 2051-24-3
 Decachlorobiphenyl
 21.8
 60 - 125
 109%
 SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/20/12

Project: Canine Kennel Date Received: 11/21/12

Client Sample ID: EP001B(12-18)DL SDG No.: D4907

Lab Sample ID: D4907-01DL Matrix: SOIL

Analytical Method: SW8082A % Moisture: 3 Decanted: Sample Wt/Vol: 30.09 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PC011411.D 10 11/21/12 11/23/12 PB66995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	85	UD	36	85	170	ug/Kg
11104-28-2	Aroclor-1221	85	UD	35	85	170	ug/Kg
11141-16-5	Aroclor-1232	85	UD	77	85	170	ug/Kg
53469-21-9	Aroclor-1242	85	UD	35	85	170	ug/Kg
12672-29-6	Aroclor-1248	85	UD	68	85	170	ug/Kg
11097-69-1	Aroclor-1254	2900	D	15	85	170	ug/Kg
11096-82-5	Aroclor-1260	85	UD	42	85	170	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.4		10 - 166	5	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.5		60 - 125	5	123%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

Date Collected:

11/23/12

11/20/12

PB66995



#### **Report of Analysis**

Client: P.W. Grosser Consulting

Project: Canine Kennel Date Received: 11/21/12

Client Sample ID: EP018B(12-18) SDG No.: D4907

Lab Sample ID: D4907-02 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 10 Decanted: Sample Wt/Vol: 30.1 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/21/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9.5 U 3.8 9.5 19 ug/Kg

11104-28-2 Aroclor-1221 9.5 U 3.8 9.5 19 ug/Kg 11141-16-5 Aroclor-1232 9.5 U 8.3 9.5 19 ug/Kg 53469-21-9 Aroclor-1242 9.5 U 3.8 9.5 19 ug/Kg 12672-29-6 Aroclor-1248 9.5 U 7.3 9.5 19 ug/Kg Aroclor-1254 190 17 19 11097-69-1 9.5 ug/Kg Aroclor-1260 9.5 U 4.6 19 11096-82-5 9.5 ug/Kg **SURROGATES** 

 877-09-8
 Tetrachloro-m-xylene
 20.9
 10 - 166
 105%
 SPK: 20

 2051-24-3
 Decachlorobiphenyl
 15.6
 60 - 125
 78%
 SPK: 20

U = Not Detected

PC011401.D

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



PC011402.D

2051-24-3

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting

Project: Canine Kennel Date Received: 11/21/12

SDG No.: Client Sample ID: EP007B(12-18) D4907

D4907-03 Matrix: **SOIL** Lab Sample ID:

Analytical Method: SW8082A % Moisture: Decanted: Sample Wt/Vol: 30.05 Units: Final Vol: 10000 uL g

PCB Soil Aliquot Vol: иL Test:

Extraction Type: Injection Volume:

1.0 GPC Factor: PH: N/A

1

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/21/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9.5 U 3.8 9.5 19 ug/Kg 11104-28-2 Aroclor-1221 9.5 U 3.7 9.5 19 ug/Kg 11141-16-5 Aroclor-1232 9.5 U 8.2 9.5 19 ug/Kg 53469-21-9 Aroclor-1242 9.5 U 3.7 9.5 19 ug/Kg 12672-29-6 Aroclor-1248 9.5 U 7.2 9.5 19 ug/Kg Aroclor-1254 140 19 11097-69-1 16 9.5 ug/Kg Aroclor-1260 9.5 U 4.5 19 11096-82-5 9.5 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 20.1 10 - 166 100% SPK: 20 60 - 125 12.8 64% SPK: 20

11/23/12

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11/20/12

PB66995



PC011403.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected:

Project: Canine Kennel Date Received: 11/21/12

Client Sample ID: EP008B(12-18) SDG No.: D4907

Lab Sample ID: D4907-06 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 7 Decanted: Sample Wt/Vol: 30.07 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/21/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.1 9 18 ug/Kg Aroclor-1254 9 IJ 9 18 11097-69-1 16 ug/Kg Aroclor-1260 9 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 22.4 10 - 166 112% SPK: 20 60 - 125 2051-24-3 17 85% SPK: 20 Decachlorobiphenyl

11/23/12

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11/20/12

PB66995



PC011409.D

11096-82-5

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/20/12

Project: Canine Kennel Date Received: 11/21/12

Client Sample ID: FIELDDUP002 SDG No.: D4907

Lab Sample ID: D4907-07 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 4

Sample Wt/Vol: 30.12 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

Aroclor-1260

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/21/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.6 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.5 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.5 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 6.8 9 18 ug/Kg Aroclor-1254 1800  $\mathbf{E}$ 1.5 9 18 11097-69-1 ug/Kg

11/23/12

U

4.3

9

 SURROGATES

 877-09-8
 Tetrachloro-m-xylene
 23.3
 10 - 166
 117%
 SPK: 20

 2051-24-3
 Decachlorobiphenyl
 19.7
 60 - 125
 99%
 SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:

PB66995

18

ug/Kg



PC011412.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/20/12

Project: Canine Kennel Date Received: 11/21/12

Client Sample ID: FIELDDUP002DL SDG No.: D4907

Lab Sample ID: D4907-07DL Matrix: SOIL

Analytical Method: SW8082A % Moisture: 4 Decanted: Sample Wt/Vol: 30.12 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

10

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/21/12

**CAS Number Parameter** Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 90 UD 36 90 180 ug/Kg 11104-28-2 Aroclor-1221 90 UD 35 90 180 ug/Kg 11141-16-5 Aroclor-1232 90 UD 78 90 180 ug/Kg Aroclor-1242 90 UD 35 90 180 ug/Kg 53469-21-9 12672-29-6 Aroclor-1248 90 UD 68 90 180 ug/Kg Aroclor-1254 2700 15 90 180 11097-69-1 D ug/Kg Aroclor-1260 90 43 11096-82-5 UD 90 180 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 20.8 10 - 166 104% SPK: 20 60 - 125 25.5 128% SPK: 20 2051-24-3 Decachlorobiphenyl

11/23/12

PB66995

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected:

Project: Canine Kennel Date Received: 11/21/12

Client Sample ID: FIELDBLANK003 SDG No.: D4907

Lab Sample ID: D4907-08 Matrix: WATER

Analytical Method: SW8082A % Moisture: 100 Decanted: Sample Wt/Vol: 960 Units: mL Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: 5

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PC011404.D 1 11/21/12 11/23/12 PB66996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.26	U	0.1	0.26	0.52	ug/L
11104-28-2	Aroclor-1221	0.26	U	0.198	0.26	0.52	ug/L
11141-16-5	Aroclor-1232	0.26	U	0.156	0.26	0.52	ug/L
53469-21-9	Aroclor-1242	0.26	U	0.093	0.26	0.52	ug/L
12672-29-6	Aroclor-1248	0.26	U	0.25	0.26	0.52	ug/L
11097-69-1	Aroclor-1254	0.26	U	0.046	0.26	0.52	ug/L
11096-82-5	Aroclor-1260	0.26	U	0.084	0.26	0.52	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	22.3		35 - 137	7	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.6		40 - 135	5	98%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11/20/12



Sample Wt/Vol:

PC011405.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected:

Units:

Project: Canine Kennel Date Received: 11/21/12

Client Sample ID: EP019(6-12) SDG No.: D4907

Lab Sample ID: D4907-09 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 7 Decanted:

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

g

GPC Factor: 1.0 PH: N/A

1

30.09

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/21/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.1 9 18 ug/Kg Aroclor-1254 P 9 18 11097-69-1 160 16 ug/Kg Aroclor-1260 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 21.2 10 - 166 106% SPK: 20 60 - 125 2051-24-3 15.6 78% SPK: 20 Decachlorobiphenyl

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11/20/12

10000

uL

PB66995

Final Vol:

11/23/12

% Moisture:

11/23/12

8

Decanted:

PB66995

95%

SPK: 20



PC011410.D

2051-24-3

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 11/20/12

Project: Canine Kennel Date Received: 11/21/12

SDG No.: Client Sample ID: EP020(6-12) D4907

Lab Sample ID: D4907-10 Matrix: **SOIL** 

Analytical Method: Sample Wt/Vol: 30.04 Units: Final Vol: 10000 uL g

PCB Soil Aliquot Vol: иL Test:

Extraction Type: Injection Volume:

1.0 GPC Factor: PH: N/A

1

Decachlorobiphenyl

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/21/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.8 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.7 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8.1 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.7 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.2 9 18 ug/Kg Aroclor-1254  $\mathbf{E}$ 9 18 11097-69-1 650 16 ug/Kg Aroclor-1260 U 4.5 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 22.3 10 - 166 111% SPK: 20

19

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

60 - 125

% Moisture:

11/23/12

8

Decanted:

PB66995

115%

SPK: 20



Analytical Method:

PC011413.D

2051-24-3

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/20/12

Project: Canine Kennel Date Received: 11/21/12

Client Sample ID: EP020(6-12)DL SDG No.: D4907

Lab Sample ID: D4907-10DL Matrix: SOIL

Sample Wt/Vol: 30.04 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

10

Decachlorobiphenyl

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/21/12

**CAS Number Parameter** Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 90 UD 38 90 180 ug/Kg 11104-28-2 Aroclor-1221 90 UD 37 90 180 ug/Kg 11141-16-5 Aroclor-1232 90 UD 81 90 180 ug/Kg Aroclor-1242 90 UD 37 90 180 ug/Kg 53469-21-9 12672-29-6 Aroclor-1248 90 UD 72 90 180 ug/Kg Aroclor-1254 1000 16 180 11097-69-1 D 90 ug/Kg Aroclor-1260 90 45 11096-82-5 UD 90 180 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 20.7 10 - 166 104% SPK: 20

23

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

60 - 125



#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/20/12

Project: Canine Kennel Date Received: 11/21/12

Client Sample ID: EP021(6-12) SDG No.: D4907
Lab Sample ID: D4907-11 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 8 Decanted:

Sample Wt/Vol: 30.02 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/21/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.8 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.7 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8.1 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.7 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.2 9 18 ug/Kg Aroclor-1254 190 P 9 18 11097-69-1 16 ug/Kg Aroclor-1260 4.5 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 21.5 10 - 166 107% SPK: 20 60 - 125 15.5 78% SPK: 20 2051-24-3 Decachlorobiphenyl

11/23/12

PB66995

U = Not Detected

PC011406.D

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



# **DATA FOR**

# **GC SEMI-VOLATILES**

**PROJECT NAME: CANINE KENNEL** 

P.W. GROSSER CONSULTING

630 Johnson Ave.

Suite 7

**Bohemia, NY - 11716** 

Phone No: 631-589-6353

ORDER ID: D4965

**ATTENTION:** Andy Lockwood







Date: 11/30/2012

Dear Andy Lockwood,

1 water and 2 soil samples for the **Canine Kennel** project were received on 11/29/2012. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

The invoice for this workorder is also attached to the e-mail.

Regards,

CHRISTOPHER WOLSKI 9087283149

c.wolski@CHEMTECH.NET



284 Shelfield Street, Moetrainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922 (XX

remnech Propol Number	
Y Y Tarelon	

DANN OF CITZ LONG HERONN	WWW.CMMIDCH.PFT	
CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
(Applification 6.2	: was Kalene freque	$\frac{32687}{3} \frac{115}{3} \cdot 11$
The Control of the co	The same of the property of the same of th	Contract Con
<u>የመ</u> ቀመው የተፈ <u>ተር አቀም</u> ያያያውም ትምር - የመስያያኒያው ተለያ <u>አርሲ</u> ማስ <u>ነት የአ</u> ር		
William A LONGLOGO	r- 0 65 981 5553 0 55 181 80 55	
$\frac{1}{2} \frac{1}{2} \frac{1}$	рата репуелавсе	ANALTSIS
рата туянандыно INFORMATION	MECRMATION	351///////
ille 1_ Otes	grade and the second of the se	
1 (17) (17) (17) (17) (17) (17) (17) (17	September 19	/ <del>Y</del> .
The ground of the Color of Market (1997) is a second of the Color of t	160 40 3/4 Col	Profit of the factor of the fa
	\$4000 (**********************************	# 1947 1 Section 1
CHILMYCA PROJECT SANDATIONATION	Marieta	
м	- 1 元 元 1 元 1 元 1 元 1 元 1 元 1 元 1 元 1 元	1  2  3  4  5  6  7  8  9   ;***
- : : <u> </u>	<u>                                    </u>	┡╩┦╶╶┿╌┞╟╏╒╌┾╌╴╴╶╌┤
2 <u> </u>	1 3 X X X X X X X X X X X X X X X X X X	K⊶···
s <u>(1987</u> 25号( <u>14-14-</u> )	$\perp                   $	!^  :   <del>! !   .</del>
- <u></u>	]   ;	<u>                                     </u>
<u> </u>	]	▎
[c	.I ─l.	<del>╻┸┈</del> ╷┍╏ <del>╃</del> ┩╂╺╏┪═┉
		┃ . <u></u> -:│ • │ <del>│                               </del>
le	i	<del>┃</del> —, . │ <del>゚                                 </del>
······································	]	┃ ╷ │ <del> </del>
-o <u> </u>		
SAMPLE GUSTOUY MUST BE DOCUME	NTED BELDWIEACH HIMF SAMPLES CHANGE P	
The second secon	piffet an abilitativi si safabilitati ta sagginti sip Is managaman an assessa sa sagan sagan sagan	والمحاضر كالمسابع كالمسابعة
[4 <u>2] 1999</u> , 150   April 1994,   -	Commence but	
- 420 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		لجس
The state of the s	<u> —                                     </u>	The second of th
[17] John John L. D. C.	May 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Takon a sasan <u>a ka</u> fan a ber
<u> </u>	mosephanical roughly should be the control of the c	CONTRACT SAME SAME SAME SAME SAME SAME SAME SAME



Sample Wt/Vol:

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected:

Units:

Project: Canine Kennel Date Received: 11/29/12

Client Sample ID: FIELDBLANK004 SDG No.: D4965

Lab Sample ID: D4965-01 Matrix: WATER

Analytical Method: SW8082A % Moisture: 100 Decanted:

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

mL

GPC Factor: 1.0 PH: 5

900

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PC011568.D 1 11/29/12 11/29/12 PB67120

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.28	U	0.107	0.28	0.56	ug/L
11104-28-2	Aroclor-1221	0.28	U	0.211	0.28	0.56	ug/L
11141-16-5	Aroclor-1232	0.28	U	0.167	0.28	0.56	ug/L
53469-21-9	Aroclor-1242	0.28	U	0.099	0.28	0.56	ug/L
12672-29-6	Aroclor-1248	0.28	U	0.267	0.28	0.56	ug/L
11097-69-1	Aroclor-1254	0.28	U	0.049	0.28	0.56	ug/L
11096-82-5	Aroclor-1260	0.28	U	0.09	0.28	0.56	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	21.1		35 - 137	7	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.1		40 - 135	;	100%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates > 25% difference for detected

concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11/28/12

10000

иL

Final Vol:



PC011602.D

#### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/28/12

Project: Canine Kennel Date Received: 11/29/12

Client Sample ID: EP001C(18-24) SDG No.: D4965

Lab Sample ID: D4965-02 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 4 Decanted: Sample Wt/Vol: 30.07 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/29/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.6 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.5 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.5 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 6.8 9 18 ug/Kg Aroclor-1254 5.2 JP 1.5 9 18 11097-69-1 ug/Kg Aroclor-1260 4.3 9 11096-82-5 U 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 16.7 10 - 166 84% SPK: 20 60 - 125 15.6 78% SPK: 20 2051-24-3 Decachlorobiphenyl

11/30/12

PB67155

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



PC011603.D

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting

g

Project: Canine Kennel Date Received: 11/29/12

SDG No.: Client Sample ID: EP020B(12-18) D4965

Lab Sample ID: D4965-03 **SOIL** Matrix:

Analytical Method: SW8082A % Moisture: Decanted: Sample Wt/Vol: 30.05 Units: Final Vol: 10000 uL

PCB Soil Aliquot Vol: иL Test:

Extraction Type: Injection Volume:

1.0 GPC Factor: PH: N/A

1

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/29/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 8 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 7.1 9 18 ug/Kg Aroclor-1254 10 J 9 18 11097-69-1 16 ug/Kg Aroclor-1260 9 4.4 9 11096-82-5 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 19.3 10 - 166 96% SPK: 20 60 - 125 17.9 90% SPK: 20 2051-24-3 Decachlorobiphenyl

11/30/12

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11/28/12

PB67155

# APPENDIX D NYSDEC APPROVAL LETTERS

#### **Andrew Lockwood**

From: Heather Bishop

**Sent:** Monday, January 07, 2013 9:06 AM

To: Andrew Lockwood

Cc: James Meyers; Kristen Rubino

Subject: Re: Former Canine Kennel IRM - Clean FIII Approval

#### Andy,

Sorry for my delay. I've reviewed the clean fill source information and I approve the backfilling at the Former Canine Kennel IRM. Please let me know if you need more information.

Thanks -Heather

Heather Bishop NYSDEC Division of Environmental Remediation Remedial Bureau A 625 Broadway, 11th Floor Albany, NY 12233-7015 Phone: (518) 402-9692

Fax: (518) 402-9022>>> Andrew Lockwood <andyl@pwgrosser.com> 1/3/2013 1:02 PM >>>

Heather,

Attached is the clean fill source our subcontractor has identified for the subject site restoration (~300 yards). Please call me if you have any questions, per our WP I am waiting until I receive your approval before we backfill, thanks.

#### Andy C. Lockwood

Vice President



P.W. Grosser Consulting 630 Johnson Avenue, Suite 7 Bohemia, NY 11716

Phone: 631.589.6353 Fax: 631.589.8705

E-mail: <a href="mailto:andyl@pwgrosser.com">andyl@pwgrosser.com</a>
Web: <a href="mailto:www.pwgrosser.com">www.pwgrosser.com</a>

The information contained in this e-mail, including any attachments, is intended solely for the use of the individual to which it is addressed and may contain information that is privileged and confidential. Any review, use, distribution or disclosure by others is strictly prohibited. If you have received this communication in error, please notify the sender immediately and delete the email message along with any attachments. Thank you.

A Please consider the environment - think before you print!

#### **Andrew Lockwood**

From: Heather Bishop

**Sent:** Thursday, March 28, 2013 9:02 AM

To: Andrew Lockwood Cc: James Meyers

Subject: Re: Canine Kennel Site #152079

#### Andy,

I have reviewed the sieve analysis provided and I have no concerns with the backfill material. Please go ahead with the restoration plans at the Canine Kennel Site #152079 as described in your email below. Thanks -Heather

Heather Bishop NYSDEC Division of Environmental Remediation Remedial Bureau A 625 Broadway, 11th Floor Albany, NY 12233-7015

Fax: (518) 402-9022>>> Andrew Lockwood <andyl@pwgrosser.com> 3/25/2013 2:09 PM >>>

Heather,

As part of the restoration we will need to place 3"-4" of RCA over the backfill material to make it suitable to drive on. I have attached the sieve analysis provided by the proposed source of the RCA. They are a NYSDEC permitted facility (#52W138R), let me know if we can proceed with placing this material or if you need additional information. Thanks.

#### Andy C. Lockwood

Phone: (518) 402-9692

Vice President



P.W. Grosser Consulting 630 Johnson Avenue, Suite 7 Bohemia, NY 11716

Phone: 631.589.6353 Fax: 631.589.8705

E-mail: <a href="mailto:andyl@pwgrosser.com">andyl@pwgrosser.com</a>
Web: <a href="mailto:www.pwgrosser.com">www.pwgrosser.com</a>

The information contained in this e-mail, including any attachments, is intended solely for the use of the individual to which it is addressed and may contain information that is privileged and confidential. Any review, use, distribution or disclosure by others is strictly prohibited. If you have received this communication in error, please notify the sender immediately and delete the email message along with any attachments. Thank you.

A Please consider the environment - think before you print!

# APPENDIX E BACKFILL MATERIAL SOURCE LETTER AND SIEVE ANALYSIS

# New York State Department of Environmental Conservation Division of Solid & Hazardous Materials, Region One

Storny Brook University

50 Circle Road, Storry Brook, New York, 11790 - 3409

Phone: (631) 444-0375 • FAX: (631) 444-0231

Website: www.dec.state.ny.us



February 24, 2009

Mr. James M. DeMartinis JR Holzmacher, PE, LLC. 300 Wheeler Road, Suite 402 Hauppaugue, NY 11788-4300

Rec

Soil Sampling and Testing

250 Orchard Road, East Patchogue, New York

Dear Mr. DeMartinis:

The New York State Department of Environmental Conservation (Department) has reviewed the report, dated February 2, 2009, for the initial phase of soil sampling and testing for the referenced site. Based on those results, the Department has determined that there is no environmental concern for the materials tested thus far, and hereby appeaves your recommendations for the second phase of sampling of the large pile. Sampling activities shall start within fifteen (15) days from the date of this letter, and all sampling shall be completed within forty-five (45) days from the date of this letter. The Department must be notified at least three business days before the start of any field activities.

According to the Paragraph III A of the Compliance Schedule of Order on Consent (DEC File No. R1-20080114-14), after completion of the investigation, the Respondent shall submit an approvable plan with an implementation schedule for the clean up of materials stockpiled at the facility. The Respondent, however, may opt to submit such plan in stages for different piles or portions thereof when said portions of the investigation are completed. Upon the Department's approval, the materials will be disposed of in accordance with the approved plan and implementation schedule.

Should you have any questions regarding this matter, please contact Ms. Jie Zhao of my staff at (631) 444-0375.

Sincerely,

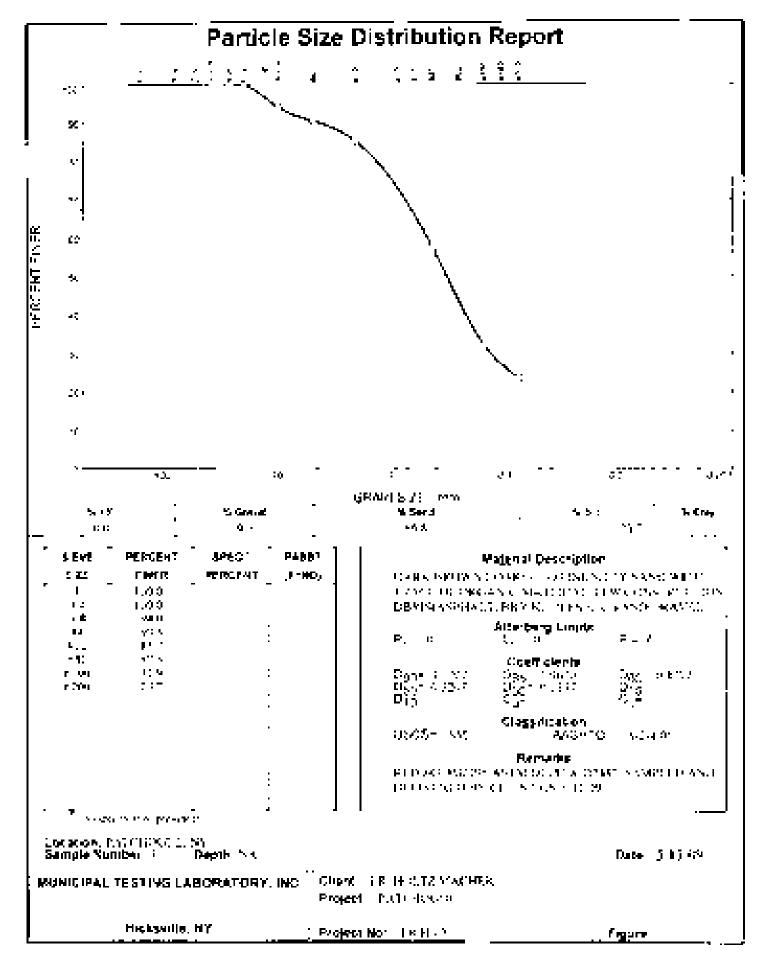
Syed H. Rahman, P.H.

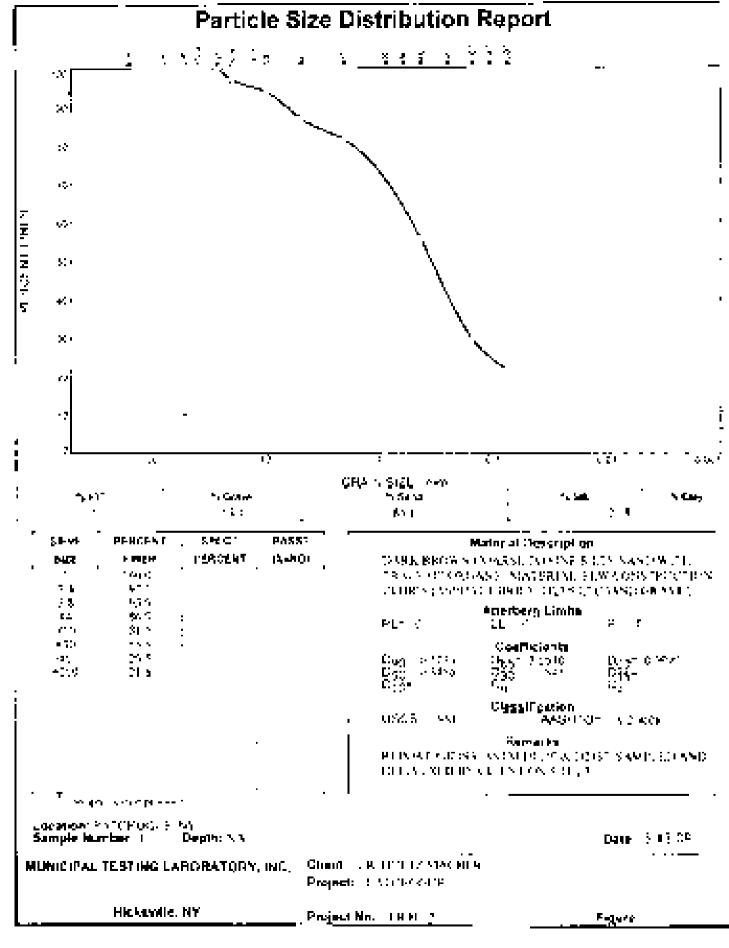
Regional Solid Materials Engineer

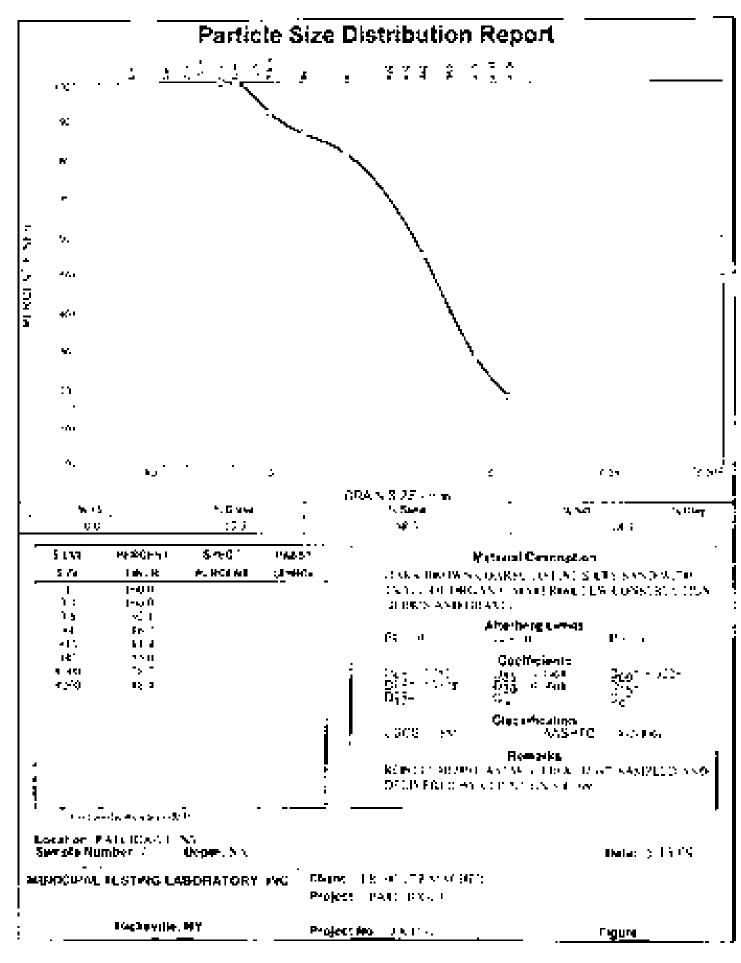
000

Vernon G. Rail, Regional Attorney Merlange Genece, P.E., DSHM Jie Zhao, P.E. DSHM

Nancy Gallipoli









73 Otis Street | W. Babylon NY 11704 T: 631 491 5252 F: 631 491 3060 www.universaltest.com

Supplier:

LLW#:		Page 1 of	1
DOB#:		Date:	9/19/2012
FID#:		Time in/out:	n/a
		UTIS Report #:	12-14284
		Gradation Analysis	
Client:	CON-STRUX LLC		
	690 Muncy Ave., Lindenhurst, NY 11757	UTIS Inspector:	G.Hungerford
Project:	Self Evaluation	Gen Contractor:	
Job Location:		G.C. Rep.:	
		Sub-Contractor	:
Sample(s) (Type):	Recycled Concrete Aggregate (RCA)	Test(s): ASTM C136 Sieve Analysis	

Coarse Gravel	Sieve Size	% Passing	Specification
	2 in	100.0	100
	1.5 in		
<b>+</b>	1 in	92.1	
Fine Gravel	3/4 in	63.9	
	1/2 in	55.1	
	3/8 in		
<b>+</b>	1/4 in	39.3	30 - 65
Coarse Sand	no. 4	24.0	
1	no. 8		
1	no. 10	16.9	
Medium Sand	no. 16		
	no. 20		
	no. 30		
. ↓	no. 40	9.9	5 - 40
Fine Sand	no. 50		
	no. 60		
<b>↓</b>	no. 80		
Silt/Clay	no. 100		
	no. 200	3.60	0 - 10

#### **REMARKS**

Gradation meets NYSDOT 304-1 Type 4 Sub Base

Sampled by: Client Date: 9/13/12
Delivered by: Client Date: 9/13/12

UTIS Lab Technician:	Gary Hungerford	Date:	9/19/2012	
Reviewed By:		Date:	9/19/2012	

# APPENDIX F LABORATORY ANALYTICAL REPORTS (WASTE CHARACTERIZATION)



# **DATA FOR**

VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS
GC SEMI-VOLATILES
METALS
GENERAL CHEMISTRY

**PROJECT NAME: CANINE KENNEL** 

**P.W. GROSSER CONSULTING** 

630 Johnson Ave.

Suite 7

**Bohemia, NY - 11716** 

Phone No: 631-589-6353

ORDER ID: D4857

**ATTENTION:** Andy Lockwood







Date: 11/23/2012

Dear Andy Lockwood,

8 soil samples for the **Canine Kennel** project were received on **11/16/2012**. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

Regards,

CHRISTOPHER WOLSKI

c.wolski@CHEMTECH.NET



# 284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922 www.chentech.net

...ники териод 199 Билика Сосината (1251,25)

CONTRACTOR CONTRACTOR	College Programme Company (Company)	CLUBS BELLES RECHMANION
TOWNS OF BUILDING AND	HOURTH LANGE CONSTRUCTIONS CONTINUES	ያ <b>ለ</b> በነው ሰነት ማ ሮኒውሊያች
ুন প্ৰসংগ্ৰহৰ বুলাল প্ৰথম কৰা কৰা প্ৰথম	The state of the s	INTO stary you
Andrew A Laterant for Subsets	to make the state of the state	ን-የ/ላ! ወሳዲ ፕታሪ
ро (х. 14,5), ( <u>3,5,5), (3,5,7), (3,6), (3,5,7), (3,6), (</u>	CHARLEST PARTITION OF THE STATE	
Tues	Charles Francisco (1975) - 1975 - 197	
ം പ്രവ്യാര് എന്നുകളെ പ്രവ്യാര് വിവാഗ്യവുള്ള ഇത്രവ	SAMPLE SAMPLE S	VES COMMENTS
(SELECTION PROJECT SAMPLE SAMPLE SAMPLE RESERVED OF THE PROJECT OF	CAMPILITY COLLECTION OF E.E.E.E.E.E.	4 7 8 9 8 51 6 30 W
MCCCI We control Meccal Meccal	3 X	
E		x;x;x;
SAMPLE COSTOON MUST DE CO	CHAIR AS NO ARY DAY I ACH THAN SAMPLES CHAIRING POSSESSION BICL UDWING S	
	Compliance of Option for community and the Compliant  Out of the Compliant an artifecture if the Compliant is  Communities.	
====================================	CHIST OF SIMPLE SHAPE OF CHISTINGS	навота по во в т <b>О</b> левович (п <mark>остоя Волого</mark> Пексирия Починалия — Десто (1941)



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax: 908 789 8922

### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: WC001 SDG No.: D4857

Lab Sample ID: D4857-01 Matrix: SOIL

Level (low/med): low % Solid: 92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQ	<b>QL</b> Units Prep Date	Date Ana.	Ana Met.
7440-36-0	Antimony	0.56	UN	1	0.25	0.56	1.12	mg/Kg 11/19/12	11/21/12	SW6010B
7440-38-2	Arsenic	2.12		1	0.15	0.225	0.45	mg/Kg 11/19/12	11/21/12	SW6010B
7440-41-7	Beryllium	0.065	U	1	0.03	0.065	0.13	mg/Kg 11/19/12	11/21/12	SW6010B
7440-43-9	Cadmium	0.83		1	0.03	0.065	0.13	mg/Kg 11/19/12	11/21/12	SW6010B
7440-47-3	Chromium	18.6	N*	1	0.06	0.11	0.22	mg/Kg 11/19/12	11/21/12	SW6010B
7440-50-8	Copper	61.3		1	0.14	0.225	0.45	mg/Kg 11/19/12	11/21/12	SW6010B
7439-92-1	Lead	50.3		1	0.05	0.135	0.27	mg/Kg 11/19/12	11/21/12	SW6010B
7439-97-6	Mercury	0.02		1	0.002	0.006	0.011	mg/Kg 11/16/12	11/19/12	SW7471A
7440-02-0	Nickel	7.4	*	1	0.21	0.45	0.9	mg/Kg 11/19/12	11/21/12	SW6010B
7782-49-2	Selenium	0.225	U	1	0.18	0.225	0.45	mg/Kg 11/19/12	11/21/12	SW6010B
7440-22-4	Silver	1.63	*	1	0.07	0.11	0.22	mg/Kg 11/19/12	11/21/12	SW6010B
7440-28-0	Thallium	0.45	U	1	0.12	0.45	0.9	mg/Kg 11/19/12	11/21/12	SW6010B
7440-66-6	Zinc	106		1	0.31	0.45	0.9	mg/Kg 11/19/12	11/21/12	SW6010B

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comments: METALS-PP

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

% Moisture:



### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 11/15/12

Project: Canine Kennel Date Received: 11/16/12

WC001 SDG No.: Client Sample ID: D4857

Lab Sample ID: D4857-01 Matrix: SOIL

Analytical Method: SW8082A Decanted: Sample Wt/Vol: 30.03 Units: Final Vol: 10000 иL g

Test: PCB Soil Aliquot Vol: иL

Extraction Type: Injection Volume:

1.0 PH: N/A GPC Factor:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date

11/19/12 11/23/12 PB66939 PO005462.D 500

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	4600	U	1900	4600	9200	ug/Kg
11104-28-2	Aroclor-1221	4600	U	1800	4600	9200	ug/Kg
11141-16-5	Aroclor-1232	4600	U	4100	4600	9200	ug/Kg
53469-21-9	Aroclor-1242	4600	U	1800	4600	9200	ug/Kg
12672-29-6	Aroclor-1248	4600	U	3600	4600	9200	ug/Kg
11097-69-1	Aroclor-1254	120000		810	4600	9200	ug/Kg
11096-82-5	Aroclor-1260	4600	U	2200	4600	9200	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	0	*	10 - 166	5	0%	SPK: 20
2051-24-3	Decachlorobiphenyl	0	*	60 - 125	5	0%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



Sample Wt/Vol:

30.02

Units:

# **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

SDG No.: Client Sample ID: WC001 D4857 SOIL Lab Sample ID: D4857-01 Matrix:

Analytical Method: SW8270D % Moisture:

g SVOC-Chemtech Full -25 Soil Aliquot Vol: uL Test:

Final Vol:

1000

uL

Extraction Type: N Level: LOW Decanted:

Injection Volume: GPC Factor: 1.0 GPC Cleanup: Ν PH:

File ID/Qc Batch: Dilution: Prep Batch ID Prep Date Date Analyzed

BE079948.D 1 11/19/12 11/22/12 PB66941

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	180	U	18.6	180	360	ug/Kg
110-86-1	Pyridine	180	U	71.7	180	360	ug/Kg
100-52-7	Benzaldehyde	180	U	18.9	180	360	ug/Kg
62-53-3	Aniline	180	U	30.9	180	360	ug/Kg
108-95-2	Phenol	180	U	8.4	180	360	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	180	U	17.4	180	360	ug/Kg
95-57-8	2-Chlorophenol	180	U	19.1	180	360	ug/Kg
95-50-1	1,2-Dichlorobenzene	180	U	13.8	180	360	ug/Kg
541-73-1	1,3-Dichlorobenzene	180	U	6.4	180	360	ug/Kg
106-46-7	1,4-Dichlorobenzene	180	U	12.4	180	360	ug/Kg
100-51-6	Benzyl Alcohol	180	U	13.6	180	360	ug/Kg
95-48-7	2-Methylphenol	180	U	19.7	180	360	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	180	U	15	180	360	ug/Kg
98-86-2	Acetophenone	180	U	11.1	180	360	ug/Kg
65794-96-9	3+4-Methylphenols	180	U	18.8	180	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	180	U	18.3	180	360	ug/Kg
67-72-1	Hexachloroethane	180	U	16.2	180	360	ug/Kg
98-95-3	Nitrobenzene	180	U	13.7	180	360	ug/Kg
78-59-1	Isophorone	180	U	11.1	180	360	ug/Kg
88-75-5	2-Nitrophenol	180	U	17.5	180	360	ug/Kg
105-67-9	2,4-Dimethylphenol	180	U	20.5	180	360	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	180	U	20.9	180	360	ug/Kg
120-83-2	2,4-Dichlorophenol	180	U	13.8	180	360	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	180	U	13.8	180	360	ug/Kg
65-85-0	Benzoic acid	435	U	71.7	435	870	ug/Kg
91-20-3	Naphthalene	180	U	12.5	180	360	ug/Kg
106-47-8	4-Chloroaniline	180	U	25.5	180	360	ug/Kg
87-68-3	Hexachlorobutadiene	180	U	13.2	180	360	ug/Kg
105-60-2	Caprolactam	180	U	16.8	180	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	180	U	16.1	180	360	ug/Kg
91-57-6	2-Methylnaphthalene	180	U	9.1	180	360	ug/Kg



Extraction Type:

# **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

SDG No.: Client Sample ID: WC001 D4857 SOIL Lab Sample ID: D4857-01 Matrix:

Analytical Method: SW8270D % Moisture: 8

Sample Wt/Vol: 30.02 Units: g Final Vol: 1000 uL

N

Level:

LOW

Soil Aliquot Vol: uL Test: SVOC-Chemtech Full -25 Decanted:

Injection Volume: GPC Factor: 1.0 GPC Cleanup: Ν PH:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BE070048 D 11/10/12 11/22/12 PR660/1

BE079948.D	1	11/19/12	11	/22/12		PB66941	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	180	U	8.8	180	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	180	U	11.1	180	360	ug/Kg
95-95-4	2,4,5-Trichlorophenol	180	U	25.4	180	360	ug/Kg
92-52-4	1,1-Biphenyl	180	U	13.7	180	360	ug/Kg
91-58-7	2-Chloronaphthalene	180	U	8.3	180	360	ug/Kg
88-74-4	2-Nitroaniline	180	U	16.1	180	360	ug/Kg
131-11-3	Dimethylphthalate	590		9.8	180	360	ug/Kg
208-96-8	Acenaphthylene	180	U	9.1	180	360	ug/Kg
606-20-2	2,6-Dinitrotoluene	180	U	14.8	180	360	ug/Kg
99-09-2	3-Nitroaniline	180	U	23.3	180	360	ug/Kg
83-32-9	Acenaphthene	180	U	10.2	180	360	ug/Kg
51-28-5	2,4-Dinitrophenol	180	U	36.8	180	360	ug/Kg
100-02-7	4-Nitrophenol	180	U	67.3	180	360	ug/Kg
132-64-9	Dibenzofuran	180	U	14.1	180	360	ug/Kg
121-14-2	2,4-Dinitrotoluene	180	U	10.1	180	360	ug/Kg
84-66-2	Diethylphthalate	180	U	5.7	180	360	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	180	U	19.7	180	360	ug/Kg
86-73-7	Fluorene	180	U	13.7	180	360	ug/Kg
100-01-6	4-Nitroaniline	180	U	47.2	180	360	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	180	U	20.8	180	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	180	U	8.7	180	360	ug/Kg
103-33-3	Azobenzene	180	U	8.5	180	360	ug/Kg
101-55-3	4-Bromophenyl-phenylether	180	U	7.1	180	360	ug/Kg
118-74-1	Hexachlorobenzene	180	U	14.8	180	360	ug/Kg
1912-24-9	Atrazine	180	U	19.1	180	360	ug/Kg
87-86-5	Pentachlorophenol	180	U	24.8	180	360	ug/Kg
85-01-8	Phenanthrene	180	U	9.8	180	360	ug/Kg
120-12-7	Anthracene	180	U	7.4	180	360	ug/Kg
86-74-8	Carbazole	180	U	7.9	180	360	ug/Kg
84-74-2	Di-n-butylphthalate	180	U	28.5	180	360	ug/Kg
206-44-0	Fluoranthene	180	U	7.3	180	360	ug/Kg
92-87-5	Benzidine	180	U	36.4	180	360	ug/Kg
129-00-0	Pyrene	180	U	8.7	180	360	ug/Kg



Sample Wt/Vol:

30.02

Units:

g

# **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: WC001 SDG No.: D4857
Lab Sample ID: D4857-01 Matrix: SOIL

Analytical Method: SW8270D % Moisture: 8

Soil Aliquot Vol: uL Test: SVOC-Chemtech Full -25

Final Vol:

1000

uL

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BE079948 D. 1 11/19/12 11/22/12 PB66941

BE079948.D	1	11/19/12	11	/22/12		PB66941	
CAS Number	Parameter	Conc	. Qualifier	MDL	LOD	LOQ / CRQL	Units
85-68-7	Butylbenzylphthalate	180	U	17.4	180	360	ug/Kg
91-94-1	3,3-Dichlorobenzidine	180	U	23.3	180	360	ug/Kg
56-55-3	Benzo(a)anthracene	180	U	17.3	180	360	ug/Kg
218-01-9	Chrysene	180	U	16.4	180	360	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	J	12.8	180	360	ug/Kg
117-84-0	Di-n-octyl phthalate	180	U	4.1	180	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	180	U	11.8	180	360	ug/Kg
207-08-9	Benzo(k)fluoranthene	180	U	17.1	180	360	ug/Kg
50-32-8	Benzo(a)pyrene	180	U	7.8	180	360	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	180	U	12.1	180	360	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	180	U	10.4	180	360	ug/Kg
191-24-2	Benzo(g,h,i)perylene	180	U	14.7	180	360	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	14.2	180	360	ug/Kg
123-91-1	1,4-Dioxane	180	U	14.2	180	360	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	180	U	14.2	180	360	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	130		28 - 12		88%	SPK: 150
13127-88-3	Phenol-d6	120		34 - 12		82%	SPK: 150
4165-60-0	Nitrobenzene-d5	92		31 - 13		92%	SPK: 100
321-60-8	2-Fluorobiphenyl	91		39 - 12		91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		30 - 13		78%	SPK: 150
1718-51-0	Terphenyl-d14	88		37 - 11:	5	88%	SPK: 100
INTERNAL STA	ANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8536	4 8.2				
1146-65-2	Naphthalene-d8	3246					
15067-26-2	Acenaphthene-d10	1736					
1517-22-2	Phenanthrene-d10	2972	82 15.76	6			
1719-03-5	Chrysene-d12	2833	68 20.11				
1520-96-3	Perylene-d12	2547	20 23.33	3			
TENTATIVE ID	ENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl					5.42	ug/Kg
007785-70-8	1RalphaPinene	320	J			7.06	ug/Kg



Client: P.W. Grosser Consulting Date Collected: 11/15/12 Project: Canine Kennel Date Received: 11/16/12 SDG No.: Client Sample ID: WC001 D4857 SOIL Lab Sample ID: D4857-01 Matrix: Analytical Method: SW8270D % Moisture: Sample Wt/Vol: 30.02 Units: g Final Vol: 1000 uL SVOC-Chemtech Full -25 Soil Aliquot Vol: uL Test:

Extraction Type: N Level: LOW Decanted:

Injection Volume: GPC Factor: 1.0 GPC Cleanup: Ν PH:

File ID/Qc Batch: Dilution: Prep Batch ID Prep Date Date Analyzed BE079948.D 1 11/19/12 11/22/12 PB66941

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
	unknown7.81	3800	J			7.81	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J			16.62	ug/Kg
002437-79-8	1,1-Biphenyl, 2,2,4,4-tetrachlo	540	J			16.79	ug/Kg
052663-58-8	1,1-Biphenyl, 2,3,4,6-tetrachlor	550	J			17.6	ug/Kg
038380-01-7	1,1-Biphenyl, 2,2,4,4,5-pentach	1100	J			17.63	ug/Kg
029887-33-0	(2,3,4,5-Tetrachloro-2,4-cyclopent	350	J			17.86	ug/Kg
038380-03-9	1,1-Biphenyl, 2,3,3,4,6-pentach	660	J			18	ug/Kg
039485-83-1	1,1-Biphenyl, 2,2,4,4,6-Pentach	630	J			18.21	ug/Kg
041464-51-1	1,1-Biphenyl, 2,2,3,4,5-Pentach	1000	J			18.29	ug/Kg
	unknown18.56	430	J			18.56	ug/Kg
052712-04-6	1,1-Biphenyl, 2,2,3,4,5,5-hexac	1300	J			18.7	ug/Kg
031508-00-6	1,1-Biphenyl, 2,3,4,4,5-pentach	2300	J			18.75	ug/Kg
052663-72-6	1,1-Biphenyl, 2,3,4,4,5,5-hexa	1400	J			19.01	ug/Kg
035694-04-3	1,1-Biphenyl, 2,2,3,3,5,5-Hexa	890	J			19.06	ug/Kg
060145-21-3	1,1-Biphenyl, 2,2,4,5,6-Pentach	940	J			19.08	ug/Kg
041411-62-5	1,1-Biphenyl, 2,3,3,4,5,6-hexach	350	J			19.18	ug/Kg
032774-16-6	1,1-Biphenyl, 3,3,4,4,5,5-hexa	2900	J			19.36	ug/Kg
035065-28-2	1,1-Biphenyl, 2,2,3,4,4,5-hexa	680	J			19.71	ug/Kg
018835-32-0	1-Tricosene	580	J			19.82	ug/Kg
038380-07-3	1,1-Biphenyl, 2,2,3,3,4,4-hexa	280	J			20	ug/Kg
074472-51-8	1,1-Biphenyl, 2,3,3,4,5,5,6-hep	300	J			20.19	ug/Kg



Client: P.W. Grosser Consulting Date Collected: 11/15/12 Project: Canine Kennel Date Received: 11/16/12 SDG No.: Client Sample ID: WC001(B) D4857 SOIL Lab Sample ID: D4857-02 Matrix: Analytical Method: SW8260C % Moisture: 7

Sample Wt/Vol: 5.01 Units: g Final Vol: 5000 uL
Soil Aliquot Vol: uL Test: VOC- Chemtech Full

GC Column: RTX-VMS ID: 0.18 Level: LOW

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VF036050.D 1 11/19/12 VF111912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.7	U	0.7	2.7	5.4	ug/Kg
74-87-3	Chloromethane	2.7	U	0.92	2.7	5.4	ug/Kg
75-01-4	Vinyl Chloride	2.7	U	1.3	2.7	5.4	ug/Kg
141-78-6	Ethyl Acetate	2.7	U	0.93	2.7	5.4	ug/Kg
108-21-4	Isopropyl Acetate	2.7	U	1.3	2.7	5.4	ug/Kg
628-63-7	N-amyl acetate	2.7	U	1	2.7	5.4	ug/Kg
74-83-9	Bromomethane	2.7	U	2.6	2.7	5.4	ug/Kg
75-00-3	Chloroethane	2.7	U	1.5	2.7	5.4	ug/Kg
75-69-4	Trichlorofluoromethane	2.7	U	1.4	2.7	5.4	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.7	U	1.4	2.7	5.4	ug/Kg
75-65-0	Tert butyl alcohol	13.5	U	8	13.5	27	ug/Kg
60-29-7	Diethyl Ether	2.7	U	2.1	2.7	5.4	ug/Kg
75-35-4	1,1-Dichloroethene	2.7	U	1.6	2.7	5.4	ug/Kg
107-02-8	Acrolein	13.5	U	4.3	13.5	27	ug/Kg
107-13-1	Acrylonitrile	13.5	U	5.3	13.5	27	ug/Kg
67-64-1	Acetone	13.5	U	3.2	13.5	27	ug/Kg
75-15-0	Carbon Disulfide	2.7	U	1.1	2.7	5.4	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.7	U	1	2.7	5.4	ug/Kg
79-20-9	Methyl Acetate	2.7	U	1.6	2.7	5.4	ug/Kg
75-09-2	Methylene Chloride	3.6	J	1.5	2.7	5.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.7	U	0.74	2.7	5.4	ug/Kg
108-05-4	Vinyl Acetate	13.5	U	3.7	13.5	27	ug/Kg
75-34-3	1,1-Dichloroethane	2.7	U	1	2.7	5.4	ug/Kg
110-82-7	Cyclohexane	2.7	U	1.1	2.7	5.4	ug/Kg
78-93-3	2-Butanone	13.5	U	3.3	13.5	27	ug/Kg
56-23-5	Carbon Tetrachloride	2.7	U	1.1	2.7	5.4	ug/Kg
594-20-7	2,2-Dichloropropane	2.7	U	1.1	2.7	5.4	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.7	U	0.96	2.7	5.4	ug/Kg
74-97-5	Bromochloromethane	2.7	U	0.85	2.7	5.4	ug/Kg
67-66-3	Chloroform	2.7	U	0.79	2.7	5.4	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.7	U	0.94	2.7	5.4	ug/Kg



Sample Wt/Vol:

5.01

Units:

g

# **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12 Project: Canine Kennel Date Received: 11/16/12 SDG No.: Client Sample ID: WC001(B) D4857 SOIL Lab Sample ID: D4857-02 Matrix:

Analytical Method: SW8260C % Moisture: 7

Soil Aliquot Vol: uL Test: VOC- Chemtech Full

Final Vol:

5000

uL

GC Column: RTX-VMS ID: 0.18 Level: LOW

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VF036050.D 1 11/19/12 VF111912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
108-87-2	Methylcyclohexane	2.7	U	1.1	2.7	5.4	ug/Kg
563-58-6	1,1-Dichloropropene	2.7	U	0.49	2.7	5.4	ug/Kg
71-43-2	Benzene	2.7	U	0.41	2.7	5.4	ug/Kg
107-06-2	1,2-Dichloroethane	2.7	U	0.69	2.7	5.4	ug/Kg
79-01-6	Trichloroethene	2.7	U	0.92	2.7	5.4	ug/Kg
78-87-5	1,2-Dichloropropane	2.7	U	0.28	2.7	5.4	ug/Kg
74-95-3	Dibromomethane	2.7	U	0.84	2.7	5.4	ug/Kg
75-27-4	Bromodichloromethane	2.7	U	0.67	2.7	5.4	ug/Kg
108-10-1	4-Methyl-2-Pentanone	13.5	U	3.1	13.5	27	ug/Kg
108-88-3	Toluene	2.7	U	0.69	2.7	5.4	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.7	U	0.85	2.7	5.4	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.7	U	0.77	2.7	5.4	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.7	U	0.97	2.7	5.4	ug/Kg
142-28-9	1,3-Dichloropropane	2.7	U	0.79	2.7	5.4	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	13.5	U	12	13.5	27	ug/Kg
591-78-6	2-Hexanone	13.5	U	4.2	13.5	27	ug/Kg
124-48-1	Dibromochloromethane	2.7	U	0.58	2.7	5.4	ug/Kg
106-93-4	1,2-Dibromoethane	2.7	U	0.69	2.7	5.4	ug/Kg
127-18-4	Tetrachloroethene	2.7	U	1.1	2.7	5.4	ug/Kg
108-90-7	Chlorobenzene	2.7	U	0.54	2.7	5.4	ug/Kg
630-20-6	1,1,1,2-Tetrachloroethane	2.7	U	0.46	2.7	5.4	ug/Kg
67-72-1	Hexachloroethane	2.7	U	0.82	2.7	5.4	ug/Kg
100-41-4	Ethyl Benzene	2.7	U	0.67	2.7	5.4	ug/Kg
179601-23-1	m/p-Xylenes	5.5	U	0.77	5.5	11	ug/Kg
95-47-6	o-Xylene	2.7	U	0.73	2.7	5.4	ug/Kg
100-42-5	Styrene	2.7	U	0.48	2.7	5.4	ug/Kg
75-25-2	Bromoform	2.7	U	0.79	2.7	5.4	ug/Kg
98-82-8	Isopropylbenzene	2.7	U	0.52	2.7	5.4	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.7	U	0.49	2.7	5.4	ug/Kg
96-18-4	1,2,3-Trichloropropane	2.7	U	0.53	2.7	5.4	ug/Kg
108-86-1	Bromobenzene	2.7	U	0.56	2.7	5.4	ug/Kg
103-65-1	n-propylbenzene	2.7	U	0.39	2.7	5.4	ug/Kg



Client:P.W. Grosser ConsultingDate Collected:11/15/12Project:Canine KennelDate Received:11/16/12Client Sample ID:WC001(B)SDG No.:D4857

Lab Sample ID:D4857-02Matrix:SOILAnalytical Method:SW8260C% Moisture:7

Sample Wt/Vol: 5.01 Units: g Final Vol: 5000 uL

Soil Aliquot Vol: uL Test: VOC- Chemtech Full

GC Column: RTX-VMS ID: 0.18 Level: LOW

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID
VF036050.D 1 11/19/12 VF111912

V1 030030.D			11/19/			,1111/12	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
95-49-8	2-Chlorotoluene	2.7	U	0.79	2.7	5.4	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.7	U	0.48	2.7	5.4	ug/Kg
106-43-4	4-Chlorotoluene	2.7	U	0.67	2.7	5.4	ug/Kg
98-06-6	tert-Butylbenzene	2.7	U	0.63	2.7	5.4	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.7	U	0.54	2.7	5.4	ug/Kg
135-98-8	sec-Butylbenzene	2.7	U	0.56	2.7	5.4	ug/Kg
99-87-6	p-Isopropyltoluene	2.7	U	0.31	2.7	5.4	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.7	U	0.4	2.7	5.4	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.7	U	0.44	2.7	5.4	ug/Kg
104-51-8	n-Butylbenzene	2.7	U	0.49	2.7	5.4	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.7	U	0.67	2.7	5.4	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.7	U	0.93	2.7	5.4	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.7	U	0.75	2.7	5.4	ug/Kg
87-68-3	Hexachlorobutadiene	2.7	U	0.85	2.7	5.4	ug/Kg
91-20-3	Naphthalene	2.7	U	0.48	2.7	5.4	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.7	U	0.54	2.7	5.4	ug/Kg
74-88-4	Methyl Iodide	5.4	U	5.4	5.4	5.4	ug/Kg
107-05-1	Allyl chloride	5.4	U	5.4	5.4	5.4	ug/Kg
126-98-7	Methacrylonitrile	5.4	U	5.4	5.4	5.4	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	5.4	U	5.4	5.4	5.4	ug/Kg
97-63-2	Ethyl methacrylate	5.4	U	5.4	5.4	5.4	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.9		56 - 120		84%	SPK: 50
1868-53-7	Dibromofluoromethane	41.6		57 - 13:		83%	SPK: 50
2037-26-5	Toluene-d8	42.4		67 - 123		85%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.2		33 - 14	1	82%	SPK: 50
INTERNAL STA		1,00521	4.2.4				
363-72-4	Pentafluorobenzene	168521	4.34				
540-36-3	1,4-Difluorobenzene	251259	5.08				
3114-55-4	Chlorobenzene-d5	210520	9.29				
3855-82-1	1,4-Dichlorobenzene-d4	75631	12.22				

Client: P.W. Grosser Consulting

Project: Canine Kennel

Client Sample ID: WC001(B)

Lab Sample ID: D4857-02

Analytical Method: SW8260C

Sample Wt/Vol: 5.01 Units: g

Soil Aliquot Vol: uL

GC Column: RTX-VMS ID: 0.18 Date Collected: Date Received: 11/15/12 11/16/12

D4857

SDG No.: Matrix:

Final Vol:

SOIL

7

% Moisture:

5000

uL

Test:

VOC- Chemtech Full

Level:

LOW

File ID/Qc Batch:

VF036050.D

Dilution:

1

Prep Date

Date Analyzed

Prep Batch ID

11/19/12

VF111912

**CAS Number** 

**Parameter** 

Conc.

Qualifier

MDL

LOD

LOQ / CRQL

Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



Client: Date Collected: P.W. Grosser Consulting 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: SDG No.: WC002 D4857

Lab Sample ID: D4857-03 Matrix: SOIL

% Solid: 92 Level (low/med): low

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / C	RQL Units Prep Date	Date Ana.	Ana Met.
7440-36-0	Antimony	0.58	UN	1	0.26	0.58	1.16	mg/Kg 11/19/12	11/21/12	SW6010B
7440-38-2	Arsenic	1.51		1	0.15	0.23	0.46	mg/Kg 11/19/12	11/21/12	SW6010B
7440-41-7	Beryllium	0.07	U	1	0.03	0.07	0.14	mg/Kg 11/19/12	11/21/12	SW6010B
7440-43-9	Cadmium	0.7		1	0.03	0.07	0.14	mg/Kg 11/19/12	11/21/12	SW6010B
7440-47-3	Chromium	7.8	N*	1	0.06	0.115	0.23	mg/Kg 11/19/12	11/21/12	SW6010B
7440-50-8	Copper	39.5		1	0.15	0.23	0.46	mg/Kg 11/19/12	11/21/12	SW6010B
7439-92-1	Lead	30.3		1	0.06	0.14	0.28	mg/Kg 11/19/12	11/21/12	SW6010B
7439-97-6	Mercury	0.014		1	0.002	0.005	0.01	mg/Kg 11/16/12	11/19/12	SW7471A
7440-02-0	Nickel	4.38	*	1	0.21	0.465	0.93	mg/Kg 11/19/12	11/21/12	SW6010B
7782-49-2	Selenium	0.23	U	1	0.19	0.23	0.46	mg/Kg 11/19/12	11/21/12	SW6010B
7440-22-4	Silver	0.115	U*	1	0.07	0.115	0.23	mg/Kg 11/19/12	11/21/12	SW6010B
7440-28-0	Thallium	0.465	U	1	0.12	0.465	0.93	mg/Kg 11/19/12	11/21/12	SW6010B
7440-66-6	Zinc	94.9		1	0.32	0.465	0.93	mg/Kg 11/19/12	11/21/12	SW6010B

Color Before: Brown Clarity Before: Texture: Medium Color After:

Clarity After:

METALS-PP Comments:

Yellow

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

Artifacts:

No

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: WC002 SDG No.: D4857

Lab Sample ID: D4857-03 Matrix: SOIL

Analytical Method: SW8082A % Moisture: 8

Sample Wt/Vol: 30.03 Units: g Final Vol: 10000 uL

Soil Aliquot Vol: uL Test: PCB

Extraction Type: Injection Volume: 1

GPC Factor: 1.0 PH: N/A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

PO005455.D 1 11/19/12 11/23/12 PB66939

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	9	U	3.8	9	18	ug/Kg
11104-28-2	Aroclor-1221	9	U	3.7	9	18	ug/Kg
11141-16-5	Aroclor-1232	9	U	8.1	9	18	ug/Kg
53469-21-9	Aroclor-1242	9	U	3.7	9	18	ug/Kg
12672-29-6	Aroclor-1248	9	U	7.2	9	18	ug/Kg
11097-69-1	Aroclor-1254	730	EP	1.6	9	18	ug/Kg
11096-82-5	Aroclor-1260	9	U	4.5	9	18	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.2		10 - 16	6	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.3		60 - 12:	5	91%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:



PO005456.D

### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 11/15/12

Project: Canine Kennel Date Received: 11/16/12

SDG No.: Client Sample ID: WC002DL D4857

Lab Sample ID: D4857-03DL **SOIL** Matrix:

Analytical Method: SW8082A % Moisture: 8 Decanted: Sample Wt/Vol: 30.03 Units: Final Vol: 10000 uL g

PCB Soil Aliquot Vol: иL Test:

Extraction Type: Injection Volume:

1.0 GPC Factor: PH: N/A

10

Decachlorobiphenyl

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/19/12

**CAS Number Parameter** Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 90 UD 38 90 180 ug/Kg 11104-28-2 Aroclor-1221 90 UD 37 90 180 ug/Kg 11141-16-5 Aroclor-1232 90 UD 81 90 180 ug/Kg 53469-21-9 Aroclor-1242 90 UD 37 90 180 ug/Kg 12672-29-6 Aroclor-1248 90 UD 72 90 180 ug/Kg Aroclor-1254 DP 16 180 11097-69-1 730 90 ug/Kg Aroclor-1260 90 45 11096-82-5 UD 90 180 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 17.4 10 - 166 87% SPK: 20 60 - 125 24.6 123% SPK: 20

11/23/12

PB66939

U = Not Detected

2051-24-3

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.



Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

SDG No.: Client Sample ID: WC002 D4857 SOIL Lab Sample ID: D4857-03 Matrix:

Analytical Method: SW8270D % Moisture:

Sample Wt/Vol: 30.08 Units: g 1000 uL SVOC-Chemtech Full -25 Soil Aliquot Vol: uL Test:

Final Vol:

Extraction Type: N Level: LOW Decanted:

Injection Volume: GPC Factor: 1.0 GPC Cleanup: Ν PH:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date

BE079949.D 1 11/19/12 11/22/12 PB66941

BE019919.B	•	11/17/12	1.	./ 22/ 12		1 0007 11	
CAS Number	Parameter	Con	c. Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	180	U	18.6	180	360	ug/Kg
110-86-1	Pyridine	180	U	71.7	180	360	ug/Kg
100-52-7	Benzaldehyde	180	U	18.9	180	360	ug/Kg
62-53-3	Aniline	180	U	30.9	180	360	ug/Kg
108-95-2	Phenol	180	U	8.4	180	360	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	180	U	17.4	180	360	ug/Kg
95-57-8	2-Chlorophenol	180	U	19.1	180	360	ug/Kg
95-50-1	1,2-Dichlorobenzene	180	U	13.8	180	360	ug/Kg
541-73-1	1,3-Dichlorobenzene	180	U	6.4	180	360	ug/Kg
106-46-7	1,4-Dichlorobenzene	180	U	12.4	180	360	ug/Kg
100-51-6	Benzyl Alcohol	180	U	13.6	180	360	ug/Kg
95-48-7	2-Methylphenol	180	U	19.7	180	360	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	180	U	15	180	360	ug/Kg
98-86-2	Acetophenone	180	U	11.1	180	360	ug/Kg
65794-96-9	3+4-Methylphenols	180	U	18.8	180	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	180	U	18.3	180	360	ug/Kg
67-72-1	Hexachloroethane	180	U	16.2	180	360	ug/Kg
98-95-3	Nitrobenzene	180	U	13.7	180	360	ug/Kg
78-59-1	Isophorone	180	U	11.1	180	360	ug/Kg
88-75-5	2-Nitrophenol	180	U	17.5	180	360	ug/Kg
105-67-9	2,4-Dimethylphenol	180	U	20.5	180	360	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	180	U	20.9	180	360	ug/Kg
120-83-2	2,4-Dichlorophenol	180	U	13.8	180	360	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	180	U	13.8	180	360	ug/Kg
65-85-0	Benzoic acid	435	U	71.7	435	870	ug/Kg
91-20-3	Naphthalene	180	U	12.5	180	360	ug/Kg
106-47-8	4-Chloroaniline	180	U	25.5	180	360	ug/Kg
87-68-3	Hexachlorobutadiene	180	U	13.2	180	360	ug/Kg
105-60-2	Caprolactam	180	U	16.8	180	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	180	U	16.1	180	360	ug/Kg
91-57-6	2-Methylnaphthalene	180	U	9.1	180	360	ug/Kg



Soil Aliquot Vol:

# **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: WC002 SDG No.: D4857
Lab Sample ID: D4857-03 Matrix: SOIL

Analytical Method: SW8270D % Moisture: 8

uL

Sample Wt/Vol: 30.08 Units: g Final Vol: 1000 uL

Test:

SVOC-Chemtech Full -25

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BE079949.D 1 11/19/12 11/22/12 PB66941

BE079949.D	1	11/19/12	11	/22/12		PB66941	
CAS Number	Parameter	Conc	. Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	180	U	8.8	180	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	180	U	11.1	180	360	ug/Kg
95-95-4	2,4,5-Trichlorophenol	180	U	25.4	180	360	ug/Kg
92-52-4	1,1-Biphenyl	180	U	13.7	180	360	ug/Kg
91-58-7	2-Chloronaphthalene	180	U	8.3	180	360	ug/Kg
88-74-4	2-Nitroaniline	180	U	16.1	180	360	ug/Kg
131-11-3	Dimethylphthalate	670		9.8	180	360	ug/Kg
208-96-8	Acenaphthylene	180	U	9.1	180	360	ug/Kg
606-20-2	2,6-Dinitrotoluene	180	U	14.8	180	360	ug/Kg
99-09-2	3-Nitroaniline	180	U	23.3	180	360	ug/Kg
83-32-9	Acenaphthene	180	U	10.2	180	360	ug/Kg
51-28-5	2,4-Dinitrophenol	180	U	36.8	180	360	ug/Kg
100-02-7	4-Nitrophenol	180	U	67.3	180	360	ug/Kg
132-64-9	Dibenzofuran	180	U	14.1	180	360	ug/Kg
121-14-2	2,4-Dinitrotoluene	180	U	10.1	180	360	ug/Kg
84-66-2	Diethylphthalate	180	U	5.7	180	360	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	180	U	19.7	180	360	ug/Kg
86-73-7	Fluorene	180	U	13.7	180	360	ug/Kg
100-01-6	4-Nitroaniline	180	U	47.2	180	360	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	180	U	20.8	180	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	180	U	8.7	180	360	ug/Kg
103-33-3	Azobenzene	180	U	8.5	180	360	ug/Kg
101-55-3	4-Bromophenyl-phenylether	180	U	7.1	180	360	ug/Kg
118-74-1	Hexachlorobenzene	180	U	14.8	180	360	ug/Kg
1912-24-9	Atrazine	180	U	19.1	180	360	ug/Kg
87-86-5	Pentachlorophenol	180	U	24.8	180	360	ug/Kg
85-01-8	Phenanthrene	180	U	9.8	180	360	ug/Kg
120-12-7	Anthracene	180	U	7.4	180	360	ug/Kg
86-74-8	Carbazole	180	U	7.9	180	360	ug/Kg
84-74-2	Di-n-butylphthalate	180	U	28.5	180	360	ug/Kg
206-44-0	Fluoranthene	180	J	7.3	180	360	ug/Kg
92-87-5	Benzidine	180	U	36.4	180	360	ug/Kg
129-00-0	Pyrene	200	J	8.7	180	360	ug/Kg



Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: WC002 SDG No.: D4857
Lab Sample ID: D4857-03 Matrix: SOIL

 Analytical Method:
 SW8270D
 % Moisture:
 8

 Sample Wt/Vol:
 30.08
 Units:
 g
 Final Vol:
 1000

Soil Aliquot Vol: uL Test: SVOC-Chemtech Full -25

uL

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID
BE079949.D 1 11/19/12 11/22/12 PB66941

BE079949.D	1	11/19/12	11.	/22/12		PB66941	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
85-68-7	Butylbenzylphthalate	180	U	17.4	180	360	ug/Kg
91-94-1	3,3-Dichlorobenzidine	180	U	23.3	180	360	ug/Kg
56-55-3	Benzo(a)anthracene	180	U	17.3	180	360	ug/Kg
218-01-9	Chrysene	180	U	16.4	180	360	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	180	U	12.8	180	360	ug/Kg
117-84-0	Di-n-octyl phthalate	180	U	4.1	180	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	180	U	11.8	180	360	ug/Kg
207-08-9	Benzo(k)fluoranthene	180	U	17.1	180	360	ug/Kg
50-32-8	Benzo(a)pyrene	180	U	7.8	180	360	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	180	U	12.1	180	360	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	180	U	10.4	180	360	ug/Kg
191-24-2	Benzo(g,h,i)perylene	180	U	14.7	180	360	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	14.2	180	360	ug/Kg
123-91-1	1,4-Dioxane	180	U	14.2	180	360	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	180	U	14.2	180	360	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	130		28 - 127	7	87%	SPK: 150
13127-88-3	Phenol-d6	120		34 - 127	7	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	93		31 - 132		93%	SPK: 100
321-60-8	2-Fluorobiphenyl	92		39 - 123	3	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		30 - 133	3	80%	SPK: 150
1718-51-0	Terphenyl-d14	93		37 - 115	5	93%	SPK: 100
INTERNAL STA							
3855-82-1	1,4-Dichlorobenzene-d4	89384	8.2				
1146-65-2	Naphthalene-d8	32365					
15067-26-2	Acenaphthene-d10	17621	3 13.32	!			
1517-22-2	Phenanthrene-d10	302310					
1719-03-5	Chrysene-d12	273422	2 20.11				
1520-96-3	Perylene-d12	248229	9 23.34	ļ			
	DENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl		A			5.43	ug/Kg
007785-70-8	1RalphaPinene	870	J			7.05	ug/Kg



Client: P.W. Grosser Consulting Date Collected: 11/15/12 Project: Canine Kennel Date Received: 11/16/12 Client Sample ID: WC002 SDG No.: D4857 Lab Sample ID: SOIL D4857-03 Matrix: Analytical Method: SW8270D % Moisture: Sample Wt/Vol: 30.08 Units: g Final Vol: 1000 uL SVOC-Chemtech Full -25 Soil Aliquot Vol: uL Test: Decanted: N Level: LOW

Extraction Type:

Injection Volume: GPC Factor: 1.0 GPC Cleanup: Ν PH:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date BE079949.D 1 11/19/12 11/22/12 PB66941

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
000127-91-3	.betaPinene	310	J			7.74	ug/Kg
	unknown7.81	3700	J			7.81	ug/Kg
000541-02-6	Cyclopentasiloxane, decamethyl-	100	J			9.53	ug/Kg
000094-59-7	1,3-Benzodioxole, 5-(2-propenyl)-	110	J			11.41	ug/Kg
000498-07-7	1,6-AnhydrobetaD-glucopyranose	87	J			13.12	ug/Kg
000593-49-7	Heptacosane	220	J			15.56	ug/Kg
025128-48-7	Selenide, ethyl 1-methyl-1-penten-	110	J			15.86	ug/Kg
000112-95-8	Eicosane	140	J			16.26	ug/Kg
000057-10-3	n-Hexadecanoic acid	370	J			16.63	ug/Kg
000057-11-4	Octadecanoic acid	190	J			17.91	ug/Kg
001330-86-5	Diisooctyl adipate	120	J			19.25	ug/Kg
001740-19-8	1-Phenanthrenecarboxylic acid, 1,2	300	J			19.77	ug/Kg
000296-56-0	Cycloeicosane	480	J			19.82	ug/Kg
005638-09-5	Cyclopentane, (4-octyldodecyl)-	210	J			21.02	ug/Kg



Client: P.W. Grosser Consulting Date Collected: 11/15/12 Project: Canine Kennel Date Received: 11/16/12 SDG No.: Client Sample ID: WC002(B) D4857 Lab Sample ID: SOIL D4857-04 Matrix:

Analytical Method: SW8260C % Moisture: 7 Sample Wt/Vol: 5 Final Vol: 5000

Units:

g

VOC- Chemtech Full Soil Aliquot Vol: uL Test:

uL

ID: 0.18 GC Column: Level: LOW RTX-VMS

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date VF036071.D 1 11/20/12 VF112012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.7	U	0.7	2.7	5.4	ug/Kg
74-87-3	Chloromethane	2.7	U	0.92	2.7	5.4	ug/Kg
75-01-4	Vinyl Chloride	2.7	U	1.3	2.7	5.4	ug/Kg
141-78-6	Ethyl Acetate	2.7	U	0.94	2.7	5.4	ug/Kg
108-21-4	Isopropyl Acetate	2.7	U	1.3	2.7	5.4	ug/Kg
628-63-7	N-amyl acetate	2.7	U	1	2.7	5.4	ug/Kg
74-83-9	Bromomethane	2.7	U	2.6	2.7	5.4	ug/Kg
75-00-3	Chloroethane	2.7	U	1.5	2.7	5.4	ug/Kg
75-69-4	Trichlorofluoromethane	2.7	U	1.4	2.7	5.4	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.7	U	1.4	2.7	5.4	ug/Kg
75-65-0	Tert butyl alcohol	13.5	U	8	13.5	27	ug/Kg
60-29-7	Diethyl Ether	2.7	U	2.1	2.7	5.4	ug/Kg
75-35-4	1,1-Dichloroethene	2.7	U	1.6	2.7	5.4	ug/Kg
107-02-8	Acrolein	13.5	U	4.3	13.5	27	ug/Kg
107-13-1	Acrylonitrile	13.5	U	5.3	13.5	27	ug/Kg
67-64-1	Acetone	40		3.2	13.5	27	ug/Kg
75-15-0	Carbon Disulfide	2.7	U	1.1	2.7	5.4	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.7	U	1	2.7	5.4	ug/Kg
79-20-9	Methyl Acetate	2.7	U	1.6	2.7	5.4	ug/Kg
75-09-2	Methylene Chloride	2.2	J	1.5	2.7	5.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.7	U	0.74	2.7	5.4	ug/Kg
108-05-4	Vinyl Acetate	13.5	U	3.7	13.5	27	ug/Kg
75-34-3	1,1-Dichloroethane	2.7	U	1	2.7	5.4	ug/Kg
110-82-7	Cyclohexane	2.7	U	1.1	2.7	5.4	ug/Kg
78-93-3	2-Butanone	13.5	U	3.3	13.5	27	ug/Kg
56-23-5	Carbon Tetrachloride	2.7	U	1.1	2.7	5.4	ug/Kg
594-20-7	2,2-Dichloropropane	2.7	U	1.1	2.7	5.4	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.7	U	0.96	2.7	5.4	ug/Kg
74-97-5	Bromochloromethane	2.7	U	0.85	2.7	5.4	ug/Kg
67-66-3	Chloroform	2.7	U	0.8	2.7	5.4	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.7	U	0.95	2.7	5.4	ug/Kg



Sample Wt/Vol:

5

Units:

g

# **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12 Project: Canine Kennel Date Received: 11/16/12 SDG No.: Client Sample ID: WC002(B) D4857 SOIL Lab Sample ID: D4857-04 Matrix:

Analytical Method: SW8260C % Moisture: 7

Soil Aliquot Vol: uL Test: VOC- Chemtech Full

Final Vol:

5000

uL

GC Column: RTX-VMS ID: 0.18 Level: LOW

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VF036071.D 1 11/20/12 VF112012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
108-87-2	Methylcyclohexane	2.7	U	1.1	2.7	5.4	ug/Kg
563-58-6	1,1-Dichloropropene	2.7	U	0.49	2.7	5.4	ug/Kg
71-43-2	Benzene	2.7	U	0.41	2.7	5.4	ug/Kg
107-06-2	1,2-Dichloroethane	2.7	U	0.69	2.7	5.4	ug/Kg
79-01-6	Trichloroethene	2.7	U	0.92	2.7	5.4	ug/Kg
78-87-5	1,2-Dichloropropane	2.7	U	0.28	2.7	5.4	ug/Kg
74-95-3	Dibromomethane	2.7	U	0.84	2.7	5.4	ug/Kg
75-27-4	Bromodichloromethane	2.7	U	0.67	2.7	5.4	ug/Kg
108-10-1	4-Methyl-2-Pentanone	13.5	U	3.1	13.5	27	ug/Kg
108-88-3	Toluene	2.7	U	0.69	2.7	5.4	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.7	U	0.85	2.7	5.4	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.7	U	0.77	2.7	5.4	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.7	U	0.97	2.7	5.4	ug/Kg
142-28-9	1,3-Dichloropropane	2.7	U	0.8	2.7	5.4	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	13.5	U	12	13.5	27	ug/Kg
591-78-6	2-Hexanone	13.5	U	4.2	13.5	27	ug/Kg
124-48-1	Dibromochloromethane	2.7	U	0.58	2.7	5.4	ug/Kg
106-93-4	1,2-Dibromoethane	2.7	U	0.69	2.7	5.4	ug/Kg
127-18-4	Tetrachloroethene	2.7	U	1.1	2.7	5.4	ug/Kg
108-90-7	Chlorobenzene	2.7	U	0.54	2.7	5.4	ug/Kg
630-20-6	1,1,1,2-Tetrachloroethane	2.7	U	0.46	2.7	5.4	ug/Kg
67-72-1	Hexachloroethane	2.7	U	0.82	2.7	5.4	ug/Kg
100-41-4	Ethyl Benzene	2.7	U	0.67	2.7	5.4	ug/Kg
179601-23-1	m/p-Xylenes	5.5	U	0.77	5.5	11	ug/Kg
95-47-6	o-Xylene	2.7	U	0.73	2.7	5.4	ug/Kg
100-42-5	Styrene	2.7	U	0.48	2.7	5.4	ug/Kg
75-25-2	Bromoform	2.7	U	0.8	2.7	5.4	ug/Kg
98-82-8	Isopropylbenzene	2.7	U	0.52	2.7	5.4	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.7	U	0.49	2.7	5.4	ug/Kg
96-18-4	1,2,3-Trichloropropane	2.7	U	0.53	2.7	5.4	ug/Kg
108-86-1	Bromobenzene	2.7	U	0.56	2.7	5.4	ug/Kg
103-65-1	n-propylbenzene	2.7	U	0.39	2.7	5.4	ug/Kg



Sample Wt/Vol:

5

Units:

g

# **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Project:Canine KennelDate Received:11/16/12Client Sample ID:WC002(B)SDG No.:D4857Lab Sample ID:D4857-04Matrix:SOIL

Analytical Method: SW8260C % Moisture: 7

Soil Aliquot Vol: uL Test: VOC- Chemtech Full

Final Vol:

5000

uL

GC Column: RTX-VMS ID: 0.18 Level: LOW

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VF036071.D 1 11/20/12 VF112012

VF036071.D	I		11/20/	12		VF112012	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
95-49-8	2-Chlorotoluene	2.7	U	0.8	2.7	5.4	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.7	U	0.48	2.7	5.4	ug/Kg
106-43-4	4-Chlorotoluene	2.7	U	0.67	2.7	5.4	ug/Kg
98-06-6	tert-Butylbenzene	2.7	U	0.63	2.7	5.4	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.7	U	0.54	2.7	5.4	ug/Kg
135-98-8	sec-Butylbenzene	2.7	U	0.56	2.7	5.4	ug/Kg
99-87-6	p-Isopropyltoluene	2.7	U	0.31	2.7	5.4	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.7	U	0.4	2.7	5.4	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.7	U	0.44	2.7	5.4	ug/Kg
104-51-8	n-Butylbenzene	2.7	U	0.49	2.7	5.4	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.7	U	0.67	2.7	5.4	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.7	U	0.94	2.7	5.4	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.7	U	0.75	2.7	5.4	ug/Kg
87-68-3	Hexachlorobutadiene	2.7	U	0.85	2.7	5.4	ug/Kg
91-20-3	Naphthalene	2.7	U	0.48	2.7	5.4	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.7	UQ	0.54	2.7	5.4	ug/Kg
74-88-4	Methyl Iodide	5.4	U	5.4	5.4	5.4	ug/Kg
107-05-1	Allyl chloride	5.4	U	5.4	5.4	5.4	ug/Kg
126-98-7	Methacrylonitrile	5.4	U	5.4	5.4	5.4	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	5.4	U	5.4	5.4	5.4	ug/Kg
97-63-2	Ethyl methacrylate	5.4	U	5.4	5.4	5.4	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.3		56 - 120	0	99%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		57 - 13:	5	98%	SPK: 50
2037-26-5	Toluene-d8	50.6		67 - 123		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		33 - 14	1	97%	SPK: 50
INTERNAL ST							
363-72-4	Pentafluorobenzene	150912	4.34				
540-36-3	1,4-Difluorobenzene	215652	5.08				
3114-55-4	Chlorobenzene-d5	177864	9.29				
3855-82-1	1,4-Dichlorobenzene-d4	80110	12.21				

Client: P.W. Grosser Consulting

Project: Canine Kennel

Client Sample ID: WC002(B)

Lab Sample ID: D4857-04

Analytical Method: SW8260C

Sample Wt/Vol: 5 Units: g

Soil Aliquot Vol: uL

GC Column: RTX-VMS ID: 0.18

Date Collected:

11/15/12

Date Received:

11/16/12

SDG No.: D4857

Matrix:

Final Vol:

SOIL 7

% Moisture:

5000

LOW

uL

Test:

VOC- Chemtech Full

Level:

File ID/Qc Batch:

VF036071.D

Dilution:

Prep Date

Date Analyzed

Prep Batch ID

11/20/12

VF112012

**CAS Number** 

Parameter

Conc.

Qualifier

MDL

LOD L

LOQ / CRQL

Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax: 908 789 8922

### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: WC003 SDG No.: D4857

Lab Sample ID: D4857-05 Matrix: SOIL

Level (low/med): low % Solid: 93.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CR	QL Units Prep Date	Date Ana.	Ana Met.
7440-36-0	Antimony	0.565	UN	1	0.25	0.565	1.13	mg/Kg 11/19/12	11/21/12	SW6010B
7440-38-2	Arsenic	1.65		1	0.15	0.225	0.45	mg/Kg 11/19/12	11/21/12	SW6010B
7440-41-7	Beryllium	0.07	U	1	0.03	0.07	0.14	mg/Kg 11/19/12	11/21/12	SW6010B
7440-43-9	Cadmium	1.76		1	0.03	0.07	0.14	mg/Kg 11/19/12	11/21/12	SW6010B
7440-47-3	Chromium	8.45	N*	1	0.06	0.115	0.23	mg/Kg 11/19/12	11/21/12	SW6010B
7440-50-8	Copper	35.2		1	0.14	0.225	0.45	mg/Kg 11/19/12	11/21/12	SW6010B
7439-92-1	Lead	33.4		1	0.05	0.135	0.27	mg/Kg 11/19/12	11/21/12	SW6010B
7439-97-6	Mercury	0.023		1	0.002	0.005	0.01	mg/Kg 11/16/12	11/19/12	SW7471A
7440-02-0	Nickel	5.74	*	1	0.21	0.45	0.9	mg/Kg 11/19/12	11/21/12	SW6010B
7782-49-2	Selenium	0.225	U	1	0.19	0.225	0.45	mg/Kg 11/19/12	11/21/12	SW6010B
7440-22-4	Silver	1.4	*	1	0.07	0.115	0.23	mg/Kg 11/19/12	11/21/12	SW6010B
7440-28-0	Thallium	0.21	J	1	0.12	0.45	0.9	mg/Kg 11/19/12	11/21/12	SW6010B
7440-66-6	Zinc	126		1	0.32	0.45	0.9	mg/Kg 11/19/12	11/21/12	SW6010B

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comments: METALS-PP

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

% Moisture:

11/23/12

Decanted:

PB66939

109%

SPK: 20



PO005457.D

### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 11/15/12

Project: Canine Kennel Date Received: 11/16/12

SDG No.: Client Sample ID: WC003 D4857

Lab Sample ID: D4857-05 Matrix: **SOIL** 

Analytical Method: Sample Wt/Vol: 30.04 Units: Final Vol: 10000 uL g

PCB Soil Aliquot Vol: иL Test:

Extraction Type: Injection Volume:

1.0 GPC Factor: PH: N/A

1

Decachlorobiphenyl

SW8082A

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/19/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 9 U 3.7 9 18 ug/Kg 11104-28-2 Aroclor-1221 9 U 3.6 9 18 ug/Kg 11141-16-5 Aroclor-1232 9 U 7.9 9 18 ug/Kg 53469-21-9 Aroclor-1242 9 U 3.6 9 18 ug/Kg 12672-29-6 Aroclor-1248 9 U 9 18 ug/Kg Aroclor-1254 4800 EP 16 9 18 11097-69-1 ug/Kg Aroclor-1260 4.4 9 11096-82-5 U 18 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 29.1 10 - 166 145% SPK: 20

21.8

U = Not Detected

2051-24-3

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

60 - 125



Analytical Method:

PO005458.D

### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting 11/15/12

Project: Canine Kennel Date Received: 11/16/12

SDG No.: Client Sample ID: WC003DL D4857

D4857-05DL **SOIL** Lab Sample ID: Matrix: SW8082A % Moisture:

Sample Wt/Vol: 30.04 Units: Final Vol: 10000 uL g

PCB Soil Aliquot Vol: иL Test:

Extraction Type: Injection Volume:

1.0 GPC Factor: PH: N/A

20

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

11/19/12

**CAS Number** Parameter Conc. **Oualifier** MDL LOD LOQ / CRQL Units **TARGETS** 12674-11-2 Aroclor-1016 180 UD 74 180 360 ug/Kg 11104-28-2 Aroclor-1221 180 UD 72 180 360 ug/Kg 11141-16-5 Aroclor-1232 180 UD 160 180 360 ug/Kg Aroclor-1242 180 UD 72 180 ug/Kg 53469-21-9 360 12672-29-6 Aroclor-1248 180 UD 140 180 360 ug/Kg Aroclor-1254 4700 DP 32 11097-69-1 180 360 ug/Kg Aroclor-1260 87 11096-82-5 180 UD 180 360 ug/Kg **SURROGATES** 877-09-8 Tetrachloro-m-xylene 27.4 10 - 166 137% SPK: 20 60 - 125 34.4 172% SPK: 20 2051-24-3 Decachlorobiphenyl

11/23/12

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

Decanted:

PB66939



Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: WC003 SDG No.: D4857
Lab Sample ID: D4857-05 Matrix: SOIL
Analytical Method: SW8270D % Moisture: 6.1

Sample Wt/Vol: 30.03 Units: g Final Vol: 1000 uL

Soil Aliquot Vol: uL Test: SVOC-Chemtech Full -25

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BE079950.D 1 11/19/12 11/22/12 PB66941

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	175	U	18.2	175	350	ug/Kg
110-86-1	Pyridine	175	U	70.3	175	350	ug/Kg
100-52-7	Benzaldehyde	175	U	18.5	175	350	ug/Kg
62-53-3	Aniline	175	U	30.2	175	350	ug/Kg
108-95-2	Phenol	175	U	8.2	175	350	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	175	U	17	175	350	ug/Kg
95-57-8	2-Chlorophenol	175	U	18.7	175	350	ug/Kg
95-50-1	1,2-Dichlorobenzene	175	U	13.5	175	350	ug/Kg
541-73-1	1,3-Dichlorobenzene	175	U	6.3	175	350	ug/Kg
106-46-7	1,4-Dichlorobenzene	175	U	12.1	175	350	ug/Kg
100-51-6	Benzyl Alcohol	175	U	13.3	175	350	ug/Kg
95-48-7	2-Methylphenol	175	U	19.3	175	350	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	175	U	14.7	175	350	ug/Kg
98-86-2	Acetophenone	175	U	10.9	175	350	ug/Kg
65794-96-9	3+4-Methylphenols	175	U	18.4	175	350	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	175	U	17.9	175	350	ug/Kg
67-72-1	Hexachloroethane	175	U	15.9	175	350	ug/Kg
98-95-3	Nitrobenzene	175	U	13.4	175	350	ug/Kg
78-59-1	Isophorone	175	U	11.7	175	350	ug/Kg
88-75-5	2-Nitrophenol	175	U	17.1	175	350	ug/Kg
105-67-9	2,4-Dimethylphenol	175	U	20.1	175	350	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	175	U	20.4	175	350	ug/Kg
120-83-2	2,4-Dichlorophenol	175	U	13.5	175	350	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	175	U	13.5	175	350	ug/Kg
65-85-0	Benzoic acid	210	J	70.3	425	850	ug/Kg
91-20-3	Naphthalene	175	U	12.2	175	350	ug/Kg
106-47-8	4-Chloroaniline	175	U	25	175	350	ug/Kg
87-68-3	Hexachlorobutadiene	175	U	12.9	175	350	ug/Kg
105-60-2	Caprolactam	175	U	16.5	175	350	ug/Kg
59-50-7	4-Chloro-3-methylphenol	175	U	15.8	175	350	ug/Kg
91-57-6	2-Methylnaphthalene	175	U	8.9	175	350	ug/Kg



Sample Wt/Vol:

30.03

Units:

g

# **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: WC003 SDG No.: D4857
Lab Sample ID: D4857-05 Matrix: SOIL

Analytical Method: SW8270D % Moisture: 6.1

Soil Aliquot Vol: uL Test: SVOC-Chemtech Full -25

Final Vol:

1000

uL

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BE079950.D 1 11/19/12 11/22/12 PB66941

BE079950.D	1	11/19/12	11.	/22/12		PB66941	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	175	U	8.6	175	350	ug/Kg
88-06-2	2,4,6-Trichlorophenol	175	U	10.9	175	350	ug/Kg
95-95-4	2,4,5-Trichlorophenol	175	U	24.9	175	350	ug/Kg
92-52-4	1,1-Biphenyl	175	U	13.4	175	350	ug/Kg
91-58-7	2-Chloronaphthalene	175	U	8.1	175	350	ug/Kg
88-74-4	2-Nitroaniline	175	U	15.8	175	350	ug/Kg
131-11-3	Dimethylphthalate	600		9.6	175	350	ug/Kg
208-96-8	Acenaphthylene	175	U	8.9	175	350	ug/Kg
606-20-2	2,6-Dinitrotoluene	175	U	14.5	175	350	ug/Kg
99-09-2	3-Nitroaniline	175	U	22.8	175	350	ug/Kg
83-32-9	Acenaphthene	175	U	10	175	350	ug/Kg
51-28-5	2,4-Dinitrophenol	175	U	36.1	175	350	ug/Kg
100-02-7	4-Nitrophenol	175	U	65.9	175	350	ug/Kg
132-64-9	Dibenzofuran	175	U	13.8	175	350	ug/Kg
121-14-2	2,4-Dinitrotoluene	175	U	10.8	175	350	ug/Kg
84-66-2	Diethylphthalate	175	U	5.5	175	350	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	175	U	19.3	175	350	ug/Kg
86-73-7	Fluorene	175	U	13.4	175	350	ug/Kg
100-01-6	4-Nitroaniline	175	U	46.2	175	350	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	175	U	20.3	175	350	ug/Kg
86-30-6	n-Nitrosodiphenylamine	175	U	8.5	175	350	ug/Kg
103-33-3	Azobenzene	175	U	8.3	175	350	ug/Kg
101-55-3	4-Bromophenyl-phenylether	175	U	6.9	175	350	ug/Kg
118-74-1	Hexachlorobenzene	175	U	14.5	175	350	ug/Kg
1912-24-9	Atrazine	175	U	18.7	175	350	ug/Kg
87-86-5	Pentachlorophenol	175	U	24.3	175	350	ug/Kg
85-01-8	Phenanthrene	380		9.6	175	350	ug/Kg
120-12-7	Anthracene	175	U	7.2	175	350	ug/Kg
86-74-8	Carbazole	175	U	7.8	175	350	ug/Kg
84-74-2	Di-n-butylphthalate	175	U	27.9	175	350	ug/Kg
206-44-0	Fluoranthene	670		7.1	175	350	ug/Kg
92-87-5	Benzidine	175	U	35.7	175	350	ug/Kg
129-00-0	Pyrene	710		8.5	175	350	ug/Kg



Client: P.W. Grosser Consulting Date Collected: 11/15/12 Project: Canine Kennel Date Received: 11/16/12 SDG No.: Client Sample ID: WC003 D4857 SOIL Lab Sample ID: D4857-05 Matrix: Analytical Method: SW8270D % Moisture: 6.1 Sample Wt/Vol: 30.03 Units: g Final Vol: 1000 uL

Soil Aliquot Vol: uL Test: SVOC-Chemtech Full -25

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID
BE079950.D 1 11/19/12 11/22/12 PB66941

BE079950.D	1	11/19/12	11,	/22/12		PB66941	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
85-68-7	Butylbenzylphthalate	175	U	17	175	350	ug/Kg
91-94-1	3,3-Dichlorobenzidine	175	U	22.8	175	350	ug/Kg
56-55-3	Benzo(a)anthracene	360		16.9	175	350	ug/Kg
218-01-9	Chrysene	440		16.1	175	350	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	175	U	12.6	175	350	ug/Kg
117-84-0	Di-n-octyl phthalate	175	U	4	175	350	ug/Kg
205-99-2	Benzo(b)fluoranthene	470		11.6	175	350	ug/Kg
207-08-9	Benzo(k)fluoranthene	190	J	16.7	175	350	ug/Kg
50-32-8	Benzo(a)pyrene	360		7.7	175	350	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	220	J	11.8	175	350	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	175	U	10.2	175	350	ug/Kg
191-24-2	Benzo(g,h,i)perylene	270	J	14.4	175	350	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	175	U	13.1	175	350	ug/Kg
123-91-1	1,4-Dioxane	175	U	13.1	175	350	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	175	U	13.1	175	350	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	130		28 - 127	7	86%	SPK: 150
13127-88-3	Phenol-d6	120		34 - 127	7	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	93		31 - 132	2	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	93		39 - 123	3	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		30 - 133	3	79%	SPK: 150
1718-51-0	Terphenyl-d14	92		37 - 115	5	92%	SPK: 100
INTERNAL ST	ANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	80642	8.2				
1146-65-2	Naphthalene-d8	30281	9 10.37	,			
15067-26-2	Acenaphthene-d10	16631	2 13.32				
1517-22-2	Phenanthrene-d10	28615	7 15.77	,			
1719-03-5	Chrysene-d12	25901	0 20.11				
1520-96-3	Perylene-d12	23471	4 23.33	1			
TENTATIVE II	DENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	- 1900	A			5.43	ug/Kg
007785-70-8	1RalphaPinene	370	J			7.06	ug/Kg



Client: P.W. Grosser Consulting Date Collected: 11/15/12 Project: Canine Kennel Date Received: 11/16/12 Client Sample ID: WC003 SDG No.: D4857 Lab Sample ID: SOIL D4857-05 Matrix: Analytical Method: SW8270D % Moisture: 6.1 Sample Wt/Vol: 30.03 Units: g Final Vol: 1000 uL SVOC-Chemtech Full -25 Soil Aliquot Vol: uL Test:

Extraction Type : Decanted : N Level : LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID
BE079950.D 1 11/19/12 11/22/12 PB66941

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
	unknown7.81	3800	J			7.81	ug/Kg
000541-02-6	Cyclopentasiloxane, decamethyl-	97	J			9.53	ug/Kg
000498-07-7	1,6-AnhydrobetaD-glucopyranose	88	J			13.12	ug/Kg
001461-22-9	Stannane, tributylchloro-	420	J			14.37	ug/Kg
000629-78-7	Heptadecane	89	J			14.82	ug/Kg
000593-45-3	Octadecane	230	J			15.55	ug/Kg
004425-82-5	9H-Fluorene, 9-methylene-	130	J			15.89	ug/Kg
000244-99-5	5H-Indeno[1,2-b]pyridine	83	J			16.13	ug/Kg
000112-95-8	Eicosane	120	J			16.25	ug/Kg
000057-10-3	n-Hexadecanoic acid	500	J			16.62	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	110	J			16.78	ug/Kg
038380-01-7	1,1-Biphenyl, 2,2,4,4,5-pentach	150	J			17.63	ug/Kg
000057-11-4	Octadecanoic acid	420	J			17.92	ug/Kg
074472-37-0	1,1-Biphenyl, 2,3,4,4,5-Pentachl	71	J			18	ug/Kg
035065-27-1	1,1-Biphenyl, 2,2,4,4,5,5-hexa	170	J			18.69	ug/Kg
056558-18-0	1,1-Biphenyl, 2,3,4,5,6-Pentach	160	J			18.75	ug/Kg
052663-72-6	1,1-Biphenyl, 2,3,4,4,5,5-hexa	130	J			19	ug/Kg
	unknown19.06	120	J			19.06	ug/Kg
038380-08-4	1,1-Biphenyl, 2,3,3,4,4,5-hexac	180	J			19.36	ug/Kg
015594-90-8	1-Heneicosanol	420	J			19.82	ug/Kg
000593-50-0	1-Triacontanol	260	J			21.02	ug/Kg

SOIL

Matrix:



D4857-06

Lab Sample ID:

# **Report of Analysis**

Client:P.W. Grosser ConsultingDate Collected:11/15/12Project:Canine KennelDate Received:11/16/12Client Sample ID:WC003(B)SDG No.:D4857

Analytical Method: SW8260C % Moisture: 5

Sample Wt/Vol: 5 Units: g Final Vol: 5000 uL

Soil Aliquot Vol: uL Test: VOC- Chemtech Full

GC Column: RTX-VMS ID: 0.18 Level: LOW

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VF036052.D 1 11/19/12 VF111912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.65	U	0.68	2.65	5.3	ug/Kg
74-87-3	Chloromethane	2.65	U	0.91	2.65	5.3	ug/Kg
75-01-4	Vinyl Chloride	2.65	U	1.3	2.65	5.3	ug/Kg
141-78-6	Ethyl Acetate	2.65	U	0.92	2.65	5.3	ug/Kg
108-21-4	Isopropyl Acetate	2.65	U	1.3	2.65	5.3	ug/Kg
628-63-7	N-amyl acetate	2.65	U	0.99	2.65	5.3	ug/Kg
74-83-9	Bromomethane	2.65	U	2.6	2.65	5.3	ug/Kg
75-00-3	Chloroethane	2.65	U	1.5	2.65	5.3	ug/Kg
75-69-4	Trichlorofluoromethane	2.65	U	1.4	2.65	5.3	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.65	U	1.4	2.65	5.3	ug/Kg
75-65-0	Tert butyl alcohol	13	U	7.8	13	26	ug/Kg
60-29-7	Diethyl Ether	2.65	U	2	2.65	5.3	ug/Kg
75-35-4	1,1-Dichloroethene	2.65	U	1.5	2.65	5.3	ug/Kg
107-02-8	Acrolein	13	U	4.2	13	26	ug/Kg
107-13-1	Acrylonitrile	13	U	5.2	13	26	ug/Kg
67-64-1	Acetone	13	U	3.2	13	26	ug/Kg
75-15-0	Carbon Disulfide	2.65	U	1.1	2.65	5.3	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.65	U	1	2.65	5.3	ug/Kg
79-20-9	Methyl Acetate	2.65	U	1.6	2.65	5.3	ug/Kg
75-09-2	Methylene Chloride	3.6	J	1.5	2.65	5.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.65	U	0.73	2.65	5.3	ug/Kg
108-05-4	Vinyl Acetate	13	U	3.7	13	26	ug/Kg
75-34-3	1,1-Dichloroethane	2.65	U	0.99	2.65	5.3	ug/Kg
110-82-7	Cyclohexane	2.65	U	1.1	2.65	5.3	ug/Kg
78-93-3	2-Butanone	13	U	3.3	13	26	ug/Kg
56-23-5	Carbon Tetrachloride	2.65	U	1	2.65	5.3	ug/Kg
594-20-7	2,2-Dichloropropane	2.65	U	1.1	2.65	5.3	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.65	U	0.94	2.65	5.3	ug/Kg
74-97-5	Bromochloromethane	2.65	U	0.83	2.65	5.3	ug/Kg
67-66-3	Chloroform	2.65	U	0.78	2.65	5.3	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.65	U	0.93	2.65	5.3	ug/Kg



GC Column:

# **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12 Project: Canine Kennel Date Received: 11/16/12 SDG No.: Client Sample ID: WC003(B) D4857 SOIL Lab Sample ID: D4857-06 Matrix:

Analytical Method: SW8260C % Moisture: 5

ID: 0.18

RTX-VMS

Sample Wt/Vol: 5 Units: g Final Vol: 5000 uL

Soil Aliquot Vol: uL Test: VOC- Chemtech Full

Level:

LOW

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

VF036052.D 1 11/19/12 VF111912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
108-87-2	Methylcyclohexane	2.65	U	1.1	2.65	5.3	ug/Kg
563-58-6	1,1-Dichloropropene	2.65	U	0.48	2.65	5.3	ug/Kg
71-43-2	Benzene	2.65	U	0.4	2.65	5.3	ug/Kg
107-06-2	1,2-Dichloroethane	2.65	U	0.67	2.65	5.3	ug/Kg
79-01-6	Trichloroethene	2.65	U	0.91	2.65	5.3	ug/Kg
78-87-5	1,2-Dichloropropane	2.65	U	0.27	2.65	5.3	ug/Kg
74-95-3	Dibromomethane	2.65	U	0.82	2.65	5.3	ug/Kg
75-27-4	Bromodichloromethane	2.65	U	0.65	2.65	5.3	ug/Kg
108-10-1	4-Methyl-2-Pentanone	13	U	3.1	13	26	ug/Kg
108-88-3	Toluene	2.65	U	0.67	2.65	5.3	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.65	U	0.83	2.65	5.3	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.65	U	0.76	2.65	5.3	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.65	U	0.95	2.65	5.3	ug/Kg
142-28-9	1,3-Dichloropropane	2.65	U	0.78	2.65	5.3	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	13	U	12	13	26	ug/Kg
591-78-6	2-Hexanone	13	U	4.1	13	26	ug/Kg
124-48-1	Dibromochloromethane	2.65	U	0.57	2.65	5.3	ug/Kg
106-93-4	1,2-Dibromoethane	2.65	U	0.67	2.65	5.3	ug/Kg
127-18-4	Tetrachloroethene	2.65	U	1.1	2.65	5.3	ug/Kg
108-90-7	Chlorobenzene	2.65	U	0.53	2.65	5.3	ug/Kg
630-20-6	1,1,1,2-Tetrachloroethane	2.65	U	0.45	2.65	5.3	ug/Kg
67-72-1	Hexachloroethane	2.65	U	0.8	2.65	5.3	ug/Kg
100-41-4	Ethyl Benzene	2.65	U	0.65	2.65	5.3	ug/Kg
179601-23-1	m/p-Xylenes	5.5	U	0.76	5.5	11	ug/Kg
95-47-6	o-Xylene	2.65	U	0.72	2.65	5.3	ug/Kg
100-42-5	Styrene	2.65	U	0.47	2.65	5.3	ug/Kg
75-25-2	Bromoform	2.65	U	0.78	2.65	5.3	ug/Kg
98-82-8	Isopropylbenzene	2.65	U	0.51	2.65	5.3	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.65	U	0.48	2.65	5.3	ug/Kg
96-18-4	1,2,3-Trichloropropane	2.65	U	0.52	2.65	5.3	ug/Kg
108-86-1	Bromobenzene	2.65	U	0.55	2.65	5.3	ug/Kg
103-65-1	n-propylbenzene	2.65	U	0.38	2.65	5.3	ug/Kg



Analytical Method:

SW8260C

# **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: WC003(B) SDG No.: D4857
Lab Sample ID: D4857-06 Matrix: SOIL

Sample Wt/Vol: 5 Units: g Final Vol: 5000 uL

% Moisture:

5

Soil Aliquot Vol: uL Test: VOC- Chemtech Full

GC Column: RTX-VMS ID: 0.18 Level: LOW

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VF036052.D 1 11/19/12 VF111912

V1 030032.D	•		11/12/12				
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
95-49-8	2-Chlorotoluene	2.65	U	0.78	2.65	5.3	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.65	U	0.47	2.65	5.3	ug/Kg
106-43-4	4-Chlorotoluene	2.65	U	0.65	2.65	5.3	ug/Kg
98-06-6	tert-Butylbenzene	2.65	U	0.62	2.65	5.3	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.65	U	0.53	2.65	5.3	ug/Kg
135-98-8	sec-Butylbenzene	2.65	U	0.55	2.65	5.3	ug/Kg
99-87-6	p-Isopropyltoluene	2.65	U	0.31	2.65	5.3	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.65	U	0.39	2.65	5.3	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.65	U	0.43	2.65	5.3	ug/Kg
104-51-8	n-Butylbenzene	2.65	U	0.48	2.65	5.3	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.65	U	0.65	2.65	5.3	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.65	U	0.92	2.65	5.3	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.65	U	0.74	2.65	5.3	ug/Kg
87-68-3	Hexachlorobutadiene	2.65	U	0.83	2.65	5.3	ug/Kg
91-20-3	Naphthalene	2.65	U	0.47	2.65	5.3	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.65	U	0.53	2.65	5.3	ug/Kg
74-88-4	Methyl Iodide	5.3	U	5.3	5.3	5.3	ug/Kg
107-05-1	Allyl chloride	5.3	U	5.3	5.3	5.3	ug/Kg
126-98-7	Methacrylonitrile	5.3	U	5.3	5.3	5.3	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	5.3	U	5.3	5.3	5.3	ug/Kg
97-63-2	Ethyl methacrylate	5.3	U	5.3	5.3	5.3	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.1		56 - 120		82%	SPK: 50
1868-53-7	Dibromofluoromethane	41.5		57 - 13:		83%	SPK: 50
2037-26-5	Toluene-d8	43.8		67 - 123		88%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		33 - 14	1	91%	SPK: 50
INTERNAL ST.							
363-72-4	Pentafluorobenzene	165021	4.34				
540-36-3	1,4-Difluorobenzene	241247	5.09				
3114-55-4	Chlorobenzene-d5	204068	9.29				
3855-82-1	1,4-Dichlorobenzene-d4	88225	12.21				

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Matrix:

11/15/12

11/16/12

D4857

SOIL

5000

uL

5

### **Report of Analysis**

Client: P.W. Grosser Consulting

Project: Canine Kennel

Client Sample ID: WC003(B)

Lab Sample ID: D4857-06

Analytical Method: SW8260C

Sample Wt/Vol: 5 Units: g

Soil Aliquot Vol: uL Test: VOC- Chemtech Full

GC Column: RTX-VMS ID: 0.18 Level: LOW

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

VF036052.D 1 11/19/12 VF111912

CAS Number Parameter Conc. Qualifier MDL LOD LOQ / CRQL Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax: 908 789 8922

#### **Report of Analysis**

Client: Date Collected: 11/15/12 P.W. Grosser Consulting Project: Canine Kennel Date Received: 11/16/12 Client Sample ID: SDG No.: WC004(CA) D4857 Lab Sample ID: D4857-07 Matrix: SOIL % Solid: 95

Parameter	Conc.	Qua	. DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	4.8		1	0	0	0	рН	11/19/12	11/19/12	SW9045C
Ignitability	NO		1	0	0	0	o C	11/19/12	11/19/12	1030
Reactive Cyanide	0.053	U	1	0.053	0.053	0.053	mg/Kg	11/09/12	11/19/12	9012B
Reactive Sulfide	10	U	1	10	10	10	mg/Kg	11/19/12	11/19/12	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits





Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: WC004(CA) SDG No.: D4857

Lab Sample ID: D4857-07 Matrix: SOIL

Level (low/med): low % Solid: 95

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CF	RQL Units Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	2900		1	0.37	1.1	2.2	mg/Kg 11/19/12	11/21/12	SW6010B
7440-36-0	Antimony	0.55	UN	1	0.25	0.55	1.1	mg/Kg 11/19/12	11/21/12	SW6010B
7440-38-2	Arsenic	0.79		1	0.15	0.22	0.44	mg/Kg 11/19/12	11/21/12	SW6010B
7440-39-3	Barium	4.85	N	1	0.18	1.1	2.2	mg/Kg 11/19/12	11/21/12	SW6010B
7440-41-7	Beryllium	0.065	U	1	0.03	0.065	0.13	mg/Kg 11/19/12	11/21/12	SW6010B
7440-43-9	Cadmium	0.03	J	1	0.03	0.065	0.13	mg/Kg 11/19/12	11/21/12	SW6010B
7440-70-2	Calcium	323	*	1	0.47	22	44	mg/Kg 11/19/12	11/21/12	SW6010B
7440-47-3	Chromium	4.71	N*	1	0.06	0.11	0.22	mg/Kg 11/19/12	11/21/12	SW6010B
7440-48-4	Cobalt	0.47	J	1	0.25	0.33	0.66	mg/Kg 11/19/12	11/21/12	SW6010B
7440-50-8	Copper	8.34		1	0.14	0.22	0.44	mg/Kg 11/19/12	11/21/12	SW6010B
7439-89-6	Iron	3120	*	1	0.59	1.1	2.2	mg/Kg 11/19/12	11/21/12	SW6010B
7439-92-1	Lead	7.86		1	0.05	0.13	0.26	mg/Kg 11/19/12	11/21/12	SW6010B
7439-95-4	Magnesium	174	*	1	2.02	22	44	mg/Kg 11/19/12	11/21/12	SW6010B
7439-96-5	Manganese	22.5	N*	1	0.08	0.22	0.44	mg/Kg 11/19/12	11/21/12	SW6010B
7439-97-6	Mercury	0.009	J	1	0.002	0.005	0.01	mg/Kg 11/16/12	11/19/12	SW7471A
7440-02-0	Nickel	2.58	*	1	0.2	0.44	0.88	mg/Kg 11/19/12	11/21/12	SW6010B
7440-09-7	Potassium	46.4		1	1.54	22	44	mg/Kg 11/19/12	11/21/12	SW6010B
7782-49-2	Selenium	0.22	U	1	0.18	0.22	0.44	mg/Kg 11/19/12	11/21/12	SW6010B
7440-22-4	Silver	0.15	J*	1	0.07	0.11	0.22	mg/Kg 11/19/12	11/21/12	SW6010B
7440-23-5	Sodium	16.2	JN*	1	1.11	22	44	mg/Kg 11/19/12	11/21/12	SW6010B
7440-28-0	Thallium	0.44	U	1	0.12	0.44	0.88	mg/Kg 11/19/12	11/21/12	SW6010B
7440-62-2	Vanadium	5.57		1	0.26	0.44	0.88	mg/Kg 11/19/12	11/21/12	SW6010B
7440-66-6	Zinc	27.6		1	0.31	0.44	0.88	mg/Kg 11/19/12	11/21/12	SW6010B

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts: No

Comments: METALS-TAL

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Test:



Soil Aliquot Vol:

#### **Report of Analysis**

Client: Date Collected: P.W. Grosser Consulting

Project: Canine Kennel Date Received: 11/16/12

SDG No.: Client Sample ID: WC004(CA) D4857

Lab Sample ID: D4857-07 Matrix: SOIL

% Moisture: 5 Analytical Method: SW8082A Decanted: иL

Sample Wt/Vol: 30.09 Units: Final Vol: 10000 g

Extraction Type: Injection Volume:

иL

1.0 PH: N/A GPC Factor:

File ID/Qc Batch: Dilution: Date Analyzed Prep Batch ID Prep Date

10000 11/19/12 11/23/12 PB66939 PO005463.D

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	90000	U	36000	90000	180000	ug/Kg
11104-28-2	Aroclor-1221	90000	U	36000	90000	180000	ug/Kg
11141-16-5	Aroclor-1232	90000	U	78000	90000	180000	ug/Kg
53469-21-9	Aroclor-1242	90000	U	36000	90000	180000	ug/Kg
12672-29-6	Aroclor-1248	90000	U	69000	90000	180000	ug/Kg
11097-69-1	Aroclor-1254	3800000	E	16000	90000	180000	ug/Kg
11096-82-5	Aroclor-1260	90000	U	43000	90000	180000	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	83800	*	10 - 166		419000%	SPK: 20
2051-24-3	Decachlorobiphenyl	1373900	*	60 - 125		6869500%	SPK: 20

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

11/15/12

PCB



Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: WC004(CA) SDG No.: D4857
Lab Sample ID: D4857-07 Matrix: SOIL
Analytical Method: SW8270D % Moisture: 5

Sample Wt/Vol: 30.07 Units: g Final Vol: 1000

Soil Aliquot Vol: uL Test: SVOC-Chemtech Full -25

uL

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BE079951.D 1 11/19/12 11/22/12 PB66941

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	175	U	18	175	350	ug/Kg
110-86-1	Pyridine	175	U	69.5	175	350	ug/Kg
100-52-7	Benzaldehyde	175	U	18.3	175	350	ug/Kg
62-53-3	Aniline	175	U	29.9	175	350	ug/Kg
108-95-2	Phenol	175	U	8.1	175	350	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	175	U	16.8	175	350	ug/Kg
95-57-8	2-Chlorophenol	175	U	18.5	175	350	ug/Kg
95-50-1	1,2-Dichlorobenzene	175	U	13.4	175	350	ug/Kg
541-73-1	1,3-Dichlorobenzene	175	U	6.2	175	350	ug/Kg
106-46-7	1,4-Dichlorobenzene	175	U	12	175	350	ug/Kg
100-51-6	Benzyl Alcohol	175	U	13.2	175	350	ug/Kg
95-48-7	2-Methylphenol	175	U	19.1	175	350	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	175	U	14.5	175	350	ug/Kg
98-86-2	Acetophenone	175	U	10.7	175	350	ug/Kg
65794-96-9	3+4-Methylphenols	175	U	18.2	175	350	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	175	U	17.7	175	350	ug/Kg
67-72-1	Hexachloroethane	175	U	15.7	175	350	ug/Kg
98-95-3	Nitrobenzene	175	U	13.3	175	350	ug/Kg
78-59-1	Isophorone	175	U	11.6	175	350	ug/Kg
88-75-5	2-Nitrophenol	175	U	16.9	175	350	ug/Kg
105-67-9	2,4-Dimethylphenol	175	U	19.9	175	350	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	175	U	20.2	175	350	ug/Kg
120-83-2	2,4-Dichlorophenol	175	U	13.4	175	350	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	175	U	13.4	175	350	ug/Kg
65-85-0	Benzoic acid	420	U	69.5	420	840	ug/Kg
91-20-3	Naphthalene	175	U	12.1	175	350	ug/Kg
106-47-8	4-Chloroaniline	175	U	24.7	175	350	ug/Kg
87-68-3	Hexachlorobutadiene	175	U	12.7	175	350	ug/Kg
105-60-2	Caprolactam	175	U	16.3	175	350	ug/Kg
59-50-7	4-Chloro-3-methylphenol	175	U	15.6	175	350	ug/Kg
91-57-6	2-Methylnaphthalene	175	U	8.8	175	350	ug/Kg



Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

Client Sample ID: WC004(CA) SDG No.: D4857

Lab Sample ID: D4857-07 Matrix: SOIL

Analytical Method: SW8270D % Moisture: 5

Sample Wt/Vol: 30.07 Units: g Final Vol: 1000 uL

Soil Aliquot Vol: uL Test: SVOC-Chemtech Full -25

Extraction Type : Decanted : N Level : LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BE079951.D 1 11/19/12 11/22/12 PB66941

BE079951.D	1	11/19/12	11	/22/12		PB66941	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	175	U	8.5	175	350	ug/Kg
88-06-2	2,4,6-Trichlorophenol	175	U	10.7	175	350	ug/Kg
95-95-4	2,4,5-Trichlorophenol	175	U	24.6	175	350	ug/Kg
92-52-4	1,1-Biphenyl	175	U	13.3	175	350	ug/Kg
91-58-7	2-Chloronaphthalene	175	U	8	175	350	ug/Kg
88-74-4	2-Nitroaniline	175	U	15.6	175	350	ug/Kg
131-11-3	Dimethylphthalate	560		9.5	175	350	ug/Kg
208-96-8	Acenaphthylene	175	U	8.8	175	350	ug/Kg
606-20-2	2,6-Dinitrotoluene	175	U	14.3	175	350	ug/Kg
99-09-2	3-Nitroaniline	175	U	22.5	175	350	ug/Kg
83-32-9	Acenaphthene	175	U	9.9	175	350	ug/Kg
51-28-5	2,4-Dinitrophenol	175	U	35.7	175	350	ug/Kg
100-02-7	4-Nitrophenol	175	U	65.2	175	350	ug/Kg
132-64-9	Dibenzofuran	175	U	13.7	175	350	ug/Kg
121-14-2	2,4-Dinitrotoluene	175	U	10.6	175	350	ug/Kg
84-66-2	Diethylphthalate	175	U	5.5	175	350	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	175	U	19.1	175	350	ug/Kg
86-73-7	Fluorene	175	U	13.3	175	350	ug/Kg
100-01-6	4-Nitroaniline	175	U	45.7	175	350	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	175	U	20.1	175	350	ug/Kg
86-30-6	n-Nitrosodiphenylamine	175	U	8.4	175	350	ug/Kg
103-33-3	Azobenzene	175	U	8.2	175	350	ug/Kg
101-55-3	4-Bromophenyl-phenylether	175	U	6.8	175	350	ug/Kg
118-74-1	Hexachlorobenzene	175	U	14.3	175	350	ug/Kg
1912-24-9	Atrazine	175	U	18.5	175	350	ug/Kg
87-86-5	Pentachlorophenol	175	U	24	175	350	ug/Kg
85-01-8	Phenanthrene	175	U	9.5	175	350	ug/Kg
120-12-7	Anthracene	175	U	7.2	175	350	ug/Kg
86-74-8	Carbazole	175	U	7.7	175	350	ug/Kg
84-74-2	Di-n-butylphthalate	175	U	27.6	175	350	ug/Kg
206-44-0	Fluoranthene	175	U	7.1	175	350	ug/Kg
92-87-5	Benzidine	175	U	35.3	175	350	ug/Kg
129-00-0	Pyrene	175	U	8.4	175	350	ug/Kg



Client:P.W. Grosser ConsultingDate Collected:11/15/12Project:Canine KennelDate Received:11/16/12Client Sample ID:WC004(CA)SDG No.:D4857

Client Sample ID: WC004(CA) SDG No.: D4857

Lab Sample ID: D4857-07 Matrix: SOIL

Analytical Method: SW8270D % Moisture: 5

Sample Wt/Vol: 30.07 Units: g Final Vol: 1000 uL

Soil Aliquot Vol: uL Test: SVOC-Chemtech Full -25

Extraction Type: Decanted: N Level: LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

BE079951.D	1	11/19/12	11.	/22/12		PB66941	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
85-68-7	Butylbenzylphthalate	175	U	16.8	175	350	ug/Kg
91-94-1	3,3-Dichlorobenzidine	175	U	22.5	175	350	ug/Kg
56-55-3	Benzo(a)anthracene	175	U	16.7	175	350	ug/Kg
218-01-9	Chrysene	175	U	15.9	175	350	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	175	U	12.4	175	350	ug/Kg
117-84-0	Di-n-octyl phthalate	175	U	4	175	350	ug/Kg
205-99-2	Benzo(b)fluoranthene	175	U	11.5	175	350	ug/Kg
207-08-9	Benzo(k)fluoranthene	175	U	16.5	175	350	ug/Kg
50-32-8	Benzo(a)pyrene	175	U	7.6	175	350	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	175	U	11.7	175	350	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	175	U	10.1	175	350	ug/Kg
191-24-2	Benzo(g,h,i)perylene	175	U	14.2	175	350	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	175	U	13.8	175	350	ug/Kg
123-91-1	1,4-Dioxane	175	U	13.8	175	350	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	175	U	13.8	175	350	ug/Kg
SURROGATES	<b>.</b>						
367-12-4	2-Fluorophenol	120		28 - 12	7	83%	SPK: 150
13127-88-3	Phenol-d6	120		34 - 12	7	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	90		31 - 132	2	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	92		39 - 123	3	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		30 - 133	3	78%	SPK: 150
1718-51-0	Terphenyl-d14	96		37 - 115	5	96%	SPK: 100
INTERNAL ST.	ANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	84395	8.2				
1146-65-2	Naphthalene-d8	30931	6 10.37	,			
15067-26-2	Acenaphthene-d10	16731	7 13.32				
1517-22-2	Phenanthrene-d10	28747	2 15.77	,			
1719-03-5	Chrysene-d12	28124	0 20.11				
1520-96-3	Perylene-d12	24690	2 23.33	1			
TENTATIVE II	DENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	1800	A			5.43	ug/Kg
	unknown7.81	3600	J			7.81	ug/Kg



Client: P.W. Grosser Consulting Date Collected: 11/15/12 Project: Canine Kennel Date Received: 11/16/12 SDG No.: Client Sample ID: WC004(CA) D4857 SOIL Lab Sample ID: D4857-07 Matrix: Analytical Method: SW8270D % Moisture: 5 Sample Wt/Vol: 30.07 Units: g Final Vol: 1000 uL Soil Aliquot Vol: uL Test: SVOC-Chemtech Full -25

Extraction Type : Decanted : N Level : LOW

Injection Volume : GPC Factor : 1.0 GPC Cleanup : N PH :

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID
BE079951.D 1 11/19/12 11/22/12 PB66941

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
032598-13-3	1,1-Biphenyl, 3,3,4,4-tetrachlo	8300	J			16.79	ug/Kg
002437-79-8	1,1-Biphenyl, 2,2,4,4-tetrachlo	1700	J			16.85	ug/Kg
041464-41-9	1,1-Biphenyl, 2,2,5,6-Tetrachlor	3500	J			17.07	ug/Kg
052663-58-8	1,1-Biphenyl, 2,3,4,6-tetrachlor	1300	J			17.56	ug/Kg
041464-42-0	1,1-Biphenyl, 2,3,5,5-tetrachlo	5700	J			17.61	ug/Kg
038380-01-7	1,1-Biphenyl, 2,2,4,4,5-pentach	12300	J			17.65	ug/Kg
041464-51-1	1,1-Biphenyl, 2,2,3,4,5-Pentach	1600	J			17.72	ug/Kg
038380-03-9	1,1-Biphenyl, 2,3,3,4,6-pentach	3500	J			17.86	ug/Kg
032598-14-4	1,1-Biphenyl, 2,3,3,4,4-pentach	4100	J			18	ug/Kg
039485-83-1	1,1-Biphenyl, 2,2,4,4,6-Pentach	3500	J			18.21	ug/Kg
	unknown18.29	6000	J			18.29	ug/Kg
029887-33-0	(2,3,4,5-Tetrachloro-2,4-cyclopent	2400	J			18.56	ug/Kg
052712-04-6	1,1-Biphenyl, 2,2,3,4,5,5-hexac	5900	J			18.7	ug/Kg
070424-70-3	1,1-Biphenyl, 2,3,4,5,5-Pentach	10200	J			18.76	ug/Kg
052663-72-6	1,1-Biphenyl, 2,3,4,4,5,5-hexa	6000	J			19.02	ug/Kg
038380-07-3	1,1-Biphenyl, 2,2,3,3,4,4-hexa	3700	J			19.06	ug/Kg
052663-61-3	1,1-Biphenyl, 2,2,3,5,5-pentach	3800	J			19.09	ug/Kg
038380-08-4	1,1-Biphenyl, 2,3,3,4,4,5-hexac	1700	J			19.18	ug/Kg
032774-16-6	1,1-Biphenyl, 3,3,4,4,5,5-hexa	10900	J			19.37	ug/Kg
	unknown19.71	2600	J			19.71	ug/Kg
035065-28-2	1,1-Biphenyl, 2,2,3,4,4,5-hexa	1300	J			20	ug/Kg
016840-84-9	10-Nonadecanol	1600	J			24.84	ug/Kg



Analytical Method:

SW8260C

### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12 Project: Canine Kennel Date Received: 11/16/12 SDG No.: Client Sample ID: WC004(B) D4857 Lab Sample ID: SOIL D4857-08 Matrix:

Sample Wt/Vol: 5 Units: g Final Vol: 5000 uL

Soil Aliquot Vol: uL Test: VOC- Chemtech Full

% Moisture:

5

GC Column: RTX-VMS ID: 0.18 Level: LOW

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VF036053.D 1 11/19/12 VF111912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.65	U	0.68	2.65	5.3	ug/Kg
74-87-3	Chloromethane	2.65	U	0.91	2.65	5.3	ug/Kg
75-01-4	Vinyl Chloride	2.65	U	1.3	2.65	5.3	ug/Kg
141-78-6	Ethyl Acetate	2.65	U	0.92	2.65	5.3	ug/Kg
108-21-4	Isopropyl Acetate	2.65	U	1.3	2.65	5.3	ug/Kg
628-63-7	N-amyl acetate	2.65	U	0.99	2.65	5.3	ug/Kg
74-83-9	Bromomethane	2.65	U	2.6	2.65	5.3	ug/Kg
75-00-3	Chloroethane	2.65	U	1.5	2.65	5.3	ug/Kg
75-69-4	Trichlorofluoromethane	2.65	U	1.4	2.65	5.3	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.65	U	1.4	2.65	5.3	ug/Kg
75-65-0	Tert butyl alcohol	13	U	7.8	13	26	ug/Kg
60-29-7	Diethyl Ether	2.65	U	2	2.65	5.3	ug/Kg
75-35-4	1,1-Dichloroethene	2.65	U	1.5	2.65	5.3	ug/Kg
107-02-8	Acrolein	13	U	4.2	13	26	ug/Kg
107-13-1	Acrylonitrile	13	U	5.2	13	26	ug/Kg
67-64-1	Acetone	23	J	3.2	13	26	ug/Kg
75-15-0	Carbon Disulfide	2.65	U	1.1	2.65	5.3	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.65	U	1	2.65	5.3	ug/Kg
79-20-9	Methyl Acetate	2.65	U	1.6	2.65	5.3	ug/Kg
75-09-2	Methylene Chloride	3.4	J	1.5	2.65	5.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.65	U	0.73	2.65	5.3	ug/Kg
108-05-4	Vinyl Acetate	13	U	3.7	13	26	ug/Kg
75-34-3	1,1-Dichloroethane	2.65	U	0.99	2.65	5.3	ug/Kg
110-82-7	Cyclohexane	2.65	U	1.1	2.65	5.3	ug/Kg
78-93-3	2-Butanone	13	U	3.3	13	26	ug/Kg
56-23-5	Carbon Tetrachloride	2.65	U	1	2.65	5.3	ug/Kg
594-20-7	2,2-Dichloropropane	2.65	U	1.1	2.65	5.3	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.65	U	0.94	2.65	5.3	ug/Kg
74-97-5	Bromochloromethane	2.65	U	0.83	2.65	5.3	ug/Kg
67-66-3	Chloroform	2.65	U	0.78	2.65	5.3	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.65	U	0.93	2.65	5.3	ug/Kg



Sample Wt/Vol:

5

Units:

g

### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12 Project: Canine Kennel Date Received: 11/16/12 Client Sample ID: WC004(B) SDG No.: D4857 SOIL Lab Sample ID: D4857-08 Matrix:

Analytical Method: SW8260C % Moisture: 5

Soil Aliquot Vol: uL Test: VOC- Chemtech Full

Final Vol:

5000

uL

GC Column: RTX-VMS ID: 0.18 Level: LOW

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VF036053.D 1 11/19/12 VF111912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
108-87-2	Methylcyclohexane	2.65	U	1.1	2.65	5.3	ug/Kg
563-58-6	1,1-Dichloropropene	2.65	U	0.48	2.65	5.3	ug/Kg
71-43-2	Benzene	2.65	U	0.4	2.65	5.3	ug/Kg
107-06-2	1,2-Dichloroethane	2.65	U	0.67	2.65	5.3	ug/Kg
79-01-6	Trichloroethene	2.65	U	0.91	2.65	5.3	ug/Kg
78-87-5	1,2-Dichloropropane	2.65	U	0.27	2.65	5.3	ug/Kg
74-95-3	Dibromomethane	2.65	U	0.82	2.65	5.3	ug/Kg
75-27-4	Bromodichloromethane	2.65	U	0.65	2.65	5.3	ug/Kg
108-10-1	4-Methyl-2-Pentanone	13	U	3.1	13	26	ug/Kg
108-88-3	Toluene	2.65	U	0.67	2.65	5.3	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.65	U	0.83	2.65	5.3	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.65	U	0.76	2.65	5.3	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.65	U	0.95	2.65	5.3	ug/Kg
142-28-9	1,3-Dichloropropane	2.65	U	0.78	2.65	5.3	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	13	U	12	13	26	ug/Kg
591-78-6	2-Hexanone	13	U	4.1	13	26	ug/Kg
124-48-1	Dibromochloromethane	2.65	U	0.57	2.65	5.3	ug/Kg
106-93-4	1,2-Dibromoethane	2.65	U	0.67	2.65	5.3	ug/Kg
127-18-4	Tetrachloroethene	2.65	U	1.1	2.65	5.3	ug/Kg
108-90-7	Chlorobenzene	2.65	U	0.53	2.65	5.3	ug/Kg
630-20-6	1,1,1,2-Tetrachloroethane	2.65	U	0.45	2.65	5.3	ug/Kg
67-72-1	Hexachloroethane	2.65	U	0.8	2.65	5.3	ug/Kg
100-41-4	Ethyl Benzene	2.65	U	0.65	2.65	5.3	ug/Kg
179601-23-1	m/p-Xylenes	5.5	U	0.76	5.5	11	ug/Kg
95-47-6	o-Xylene	2.65	U	0.72	2.65	5.3	ug/Kg
100-42-5	Styrene	2.65	U	0.47	2.65	5.3	ug/Kg
75-25-2	Bromoform	2.65	U	0.78	2.65	5.3	ug/Kg
98-82-8	Isopropylbenzene	2.65	U	0.51	2.65	5.3	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.65	U	0.48	2.65	5.3	ug/Kg
96-18-4	1,2,3-Trichloropropane	2.65	U	0.52	2.65	5.3	ug/Kg
108-86-1	Bromobenzene	2.65	U	0.55	2.65	5.3	ug/Kg
103-65-1	n-propylbenzene	2.65	U	0.38	2.65	5.3	ug/Kg



Sample Wt/Vol:

5

Units:

g

### **Report of Analysis**

Client: P.W. Grosser Consulting Date Collected: 11/15/12

Project: Canine Kennel Date Received: 11/16/12

 Client Sample ID:
 WC004(B)
 SDG No.:
 D4857

 Lab Sample ID:
 D4857-08
 Matrix:
 SOIL

Analytical Method: SW8260C % Moisture: 5

Soil Aliquot Vol: uL Test: VOC- Chemtech Full

Final Vol:

5000

uL

GC Column: RTX-VMS ID: 0.18 Level: LOW

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID
VF036053.D 1 11/19/12 VF111912

V1 030033.D	•		11/19/			,1111/12	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
95-49-8	2-Chlorotoluene	2.65	U	0.78	2.65	5.3	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.65	U	0.47	2.65	5.3	ug/Kg
106-43-4	4-Chlorotoluene	2.65	U	0.65	2.65	5.3	ug/Kg
98-06-6	tert-Butylbenzene	2.65	U	0.62	2.65	5.3	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.65	U	0.53	2.65	5.3	ug/Kg
135-98-8	sec-Butylbenzene	2.65	U	0.55	2.65	5.3	ug/Kg
99-87-6	p-Isopropyltoluene	2.65	U	0.31	2.65	5.3	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.65	U	0.39	2.65	5.3	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.65	U	0.43	2.65	5.3	ug/Kg
104-51-8	n-Butylbenzene	2.65	U	0.48	2.65	5.3	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.65	U	0.65	2.65	5.3	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.65	U	0.92	2.65	5.3	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.65	U	0.74	2.65	5.3	ug/Kg
87-68-3	Hexachlorobutadiene	2.65	U	0.83	2.65	5.3	ug/Kg
91-20-3	Naphthalene	2.65	U	0.47	2.65	5.3	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.65	U	0.53	2.65	5.3	ug/Kg
74-88-4	Methyl Iodide	5.3	U	5.3	5.3	5.3	ug/Kg
107-05-1	Allyl chloride	5.3	U	5.3	5.3	5.3	ug/Kg
126-98-7	Methacrylonitrile	5.3	U	5.3	5.3	5.3	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	5.3	U	5.3	5.3	5.3	ug/Kg
97-63-2	Ethyl methacrylate	5.3	U	5.3	5.3	5.3	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.6		56 - 120		87%	SPK: 50
1868-53-7	Dibromofluoromethane	44.9		57 - 13:		90%	SPK: 50
2037-26-5	Toluene-d8	43.1		67 - 123		86%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.3		33 - 14	1	83%	SPK: 50
INTERNAL ST.							
363-72-4	Pentafluorobenzene	154185	4.35				
540-36-3	1,4-Difluorobenzene	227048	5.09				
3114-55-4	Chlorobenzene-d5	191783	9.29				
3855-82-1	1,4-Dichlorobenzene-d4	73094	12.22				

Date Collected:

Date Received:

SDG No.:

% Moisture:

Final Vol:

Test:

Level:

Matrix:

11/15/12

11/16/12

D4857

SOIL

5000

LOW

VOC- Chemtech Full

uL

5

#### **Report of Analysis**

Client: P.W. Grosser Consulting

Project: Canine Kennel

Client Sample ID: WC004(B)

Lab Sample ID: D4857-08

Analytical Method: SW8260C

Sample Wt/Vol: 5 Units: g

Soil Aliquot Vol: uL

GC Column: RTX-VMS ID: 0.18

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

VF036053.D 1 11/19/12 VF111912

CAS Number Parameter Conc. Qualifier MDL LOD LOQ / CRQL Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

# APPENDIX G WASTE MANIFESTS

Driver's Community

198436

Cobo Years

Security Quanti tottake: professing recogning Mach Blay pass. If (seconds)

Facept #	107.0 F	Self-Contraction	Plain # and Date	- 21		
Service (fleg )			ed # no Traines Rode ent			51208
Other's Home Checkslod A	3 . 1/	Owner				31/01
	Delle	Three				
Астиціі Актімці	Dwn	Town to	Time O	u .		
Arrives our	ng filleckout?	Y / N Not	Ted 0007 Y	(A)	transfer)	
T Lester	Permit Van	и Па	werten ten 15		acciving:	Colonia
T Other (April	The state of the s	- 1947.C				
Duty to Lee	and the second	eetine 🗀 r	<u> </u>			- twelver
Laboratory	Time III	Thus Out	Interest	Commercia		
tatolization	Since Ht	Ten Od .	Print	Grown Wil	Connects	
Antill	New 20	Smalle	John Co.	Compris		
Other	See to	Plane Out	has	Compte		
Agjapoja Niekmierii	Tens in	Tens Out	Giorna /8	D teaming	Processes	
	MODEL.		(ilignames (f)		Same in	
Facility Pe	raonnel (-	ett John)				
	-	-	ed-armin		sentral tra	e) singliferated
	Polices	-	Healthy program	nd .	Fellowine	hapting commentated things
		- secondale P	Complete Com		2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ryby w distagle
		= MONTHAN				report or the same
		bring president			- 100	
	Dame John	- The second				

UNIFORM HAZANDOOS WINDTY WARREST	HYROOD		E Pape	10000		7000	0.0	O 1 C	154	10	IIV
Street at the public	100	No. of the last of		556-416		Fig.	1.00	310	3134	ill u	JK
	Promise.	Chatine Kernel Sile S. Gallreeld Argon									
	15.4565	mater Brack, MY 1	1078	1							
Named Corpes to	Harretta Thank	242					12.000		1000		
Course   Desiry in		es. esc.	_		_	-	OLUMBIA.		AD1467	14878	-
Chapter fact here.	ar San Address						US FORM	37			
	CWA 1500	Oleman Santos Barrer Road	*LLC				AT CANADA		YDOH063	WINDS	
		CRY, MY 14007							Delin Centre	73-74F.L	
	the belieful from the	open Name (Same States)	04-mc		N Torker	in .	10,000	12 him	1.0		
	Ayelikurtumlari (Sipi)	and the second			er e	Spe	CESTE!	WIAM	-		
0, POS, (80 6904171	OTXPCSe greater	films 600 pani)			01	DY	70.00	×	ROOF		L
200000171					-4						£
									_		L
				_		-					
									-		-
				_	-						H
with the first time of the same		An .			_				77.1	la reco	
95.1)MY304086 SR8608796-1			-52	1	25.5				810		
65.1)MY304086 SR866878G-1	our o	F SERVINE	the state of the s	100 100 100 100 100					26	PO	k
SE TIMPTONOMO STREEMETRO T	DUT 0	F SERVICE	registricity	ti in My est da	-7-				26	90	1
SE TIMPSONOM STANDART SOFTEN MINISTER SOFTEN MINISTER	DUT 0	F SERVICE	mg d by g med according to a the attention (188 App. Lien & large sunsity)		7		i in Dispropri del Color repubblica		26	90	1
SE 1) ANY 304086 SERBERT NO. 1 SERBERT NO. 1 HORSE IN SERBERT FOR THE SERBERT SERBERT NO. 1 1 ANY SER THE MORE TO SERBERT NO. 1	OUT O	F SERVICE	mg d by g med according to a the attention (188 App. Lien & large sunsity)	n in Wy en an	7.	-	to be proper and color regulations received a min-	Eviper P	26	90	K
KRubing a	our o	F SERVICE SCDH'S	mg d by g med according to a the attention (188 App. Lien & large sunsity)	KRA	46	MA	i in Dispropri del Color repubblica	Eviper P	26	90	1
St. 1)AY304086 Street 256-1 Land Author screens retind and intelligen- country for the sends to 1 arthy for the sends to	our o	F SERVICE SCDH'S	mg d by g med according to a the attention (188 App. Lien & large sunsity)	KRA	7.	MA	to be proper and color regulations received a min-	Eviper P	26	90	1
R. 1)APPOLICE CRESSET NO. 1	our o	F SERVICE SCDH'S	many of the same o	KRA	46	MA	to be proper and color regulations received a min-	Eviper P	26	125	T
R. SIMPSONOME CREMINATION OF THE COURSE CONTINUES OF THE CREMINATION OF THE COURSE	our o	F SERVICE SCDH'S	many of the same o	KRA	44	MA	to be proper and color regulations received a min-	Eviper P	26	90	T
Residence 1	our o	F SERVICE SCDH'S	many of the same o	KRA	44	MA	to be proper and color regulations received a min-	Eviper P	26	125	11
Rubing of	our o	F SERVICE SCDH'S	many of the same o	KRA	44	MA	l fec S	Eviper P	2.0	2/25	11
Rubing of	our o	SCOHS	Type	KRA	44	MA	to be proper and color regulations received a min-	Eviper P	2.0	125	1'
Residence 1	our o	SCOHS	many of the same o	KRA	44	MA	l fec S	OH(	2.0	2/25	1'
Rebling a	our o	SCOHS	Type	KRA	44	MA	- for S	OH(	2.0	2/25	1'
Residence of the second of the	our o	SCOHS	Type	KRA	44	MA	- for S	OH(	2.0	2/25	11
Residence of the second of the	our o	SCOH'S	Type	KRA	44	MA	- for S	OH(	2.0	2/25	11
Residence to the second of the	our o	SCOHS	Type	KRA	44	MA	- for S	OH(	2.0	2/25	11
Rubing a	our o	SCOH'S	Topos ha	RRU.	1	Q	- For S	OH(	2.0	2/25	11
Glyest o	our o	SCOH'S	Type	RRU.	4	Q	- For S	OH(	2.0	2/25	11

Differen's Continuents

Name &

Close & Carrey, Name Alex.

198435

Cubin Yorkin

	THEO LABORET	Plate 4 And Steen			
Service Blog # Pools	wid fine	4.0			
Tempoter Hone	Time	or Toronthol-oft A			160
Coloni V. Harris	Ganera				1000
ichedulud Avwaii					70,40
Adjust Armest	Films				4,56
Date College	F	Time Out			
Arrived during Blackout?	TEN No.	Head DECT Y /	4 E	Car Marks	
Time   Person		entire ver Lit I		licelving	Commercia
Section 1	177.00	Carried San 1 to 1			
Differe (squeetly					
] best [] :	model III h	inin II su	- D	Service Til Sanda	- Transmiss
ationstory					
Tion III	Tree Cut	Miles	-Streets		
Reptilization					
Three are	t=ox.	britan	Ottori PE.	Community	
C Yorkell					
	Free Call	100	Carrier		
Tires so					
Tires as					
Tires at	best Out	John C	_		
Direction of the street		nia;	-		
Ditter Time III Aqueous Treatment	t-or	-	-		
Direction III		James Styredown (SS)		Commencia	
Time III  Ditter  Time III  Acquious  Froatmont  Time III	t-or				
Doner Time III Aqueous Treatment	See Out				
Ditter Time III Acqueous Freatment Time III	tenor				
Diver time in Aqueous freatment (-	See Out				neck spragmentaled
Ditter  Tomas  Aqueous  Freatment  Terms  Demaking	tenor			1,000	nek singmonted display converges log
Time is  Aqueous freatment Facility Personnel (=	See Out  Free Ou			Lambag N Pattern Na	nch transmised display community fing
Direction of Comment C				Jaming II Pallara III	nek singmonised display exemply the terping or interpe
Ditter 10  Aqueous Francis Grantmort  Facility Personnel Grantmore Service Ser	See Out  Free Ou			Jaming II Pallara III	nick timetennised display commenced line tempory or historysis

Colleged Street

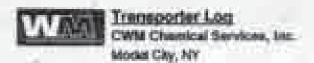
	IN HUZAMOORE		O'Arres			The state of		-	m Mark	A. Majorito	Course of		4000	
	TE MANYEST		**************************************	10				10-4700			918	315	41	JJI
	CI Porcedata Assa		France Curb France S. Go Wedfrangler	demand Alego	cod .		trans.	rs Silo Astro	ii f Aleen					
			om Diese in							95 DAX		NOT HET	Capter	
	arer I Cooper Name									05 09.6		1,785		
=	716-206-2		CNMA Che 1500 Bak	None Road y, NY 1410						06 09-8		Y00468	x0079	
. 1	B. U.S. SENT Demograph and Problems (Comp. Com.	n Section	to Proof Storing	hate himself	Sect O (Artis			# (Dec		11, 1944	02-Unit		9 10	
	UND432, Poly							01	DT	100.00	K	5007		T
	B, POR, (BOOT EPIGNITTI	Juncia	e grantes fant	500 jam)						21,00				1
											T			Ī
+				-							1			1
1														+
F					_		-1							+
Н									10.0		4		_	- 1
18	ONYSCHOOL ONYSCHOOL ONESTROS	1 (10)	0010	£ 54)	CONTRACTOR OF SA	III TOTAL PORTAGE	Charles Services	Comments of			ecd			
B 10 10 10 10 10 10 10 10 10 10 10 10 10	ONYDGADES NOSTROD CONTRODUCTION OF THE PARTY OF THE	of COST	oct o	Common Nutral Private to the land and private to the	e conduction of the fra manageral on rain of the colors beloff I are only	TOTAL SECTION	Care Salprum Hospita Irrem	Comments  (Comments  (	-	t fa thi proper to to the hope described	Person a	, mid-my cla spectral and	arolini, po antino in	in age
B 10 10 10 10 10 10 10 10 10 10 10 10 10	ONYSCHOOL NOOTROS	any.	n) For	Common Nutral Private to the land and private to the	e conduction of the fra manageral on rain of the colors beloff I are only	TOTAL SECTION	(R	Comments  (Comments  (	0,1	o the first propert to souther the publishmen	Person a	, mid-my cla spectral and	arolini, po antino in	inage many
B 10 10 10 10 10 10 10 10 10 10 10 10 10	ONYSOLDER COSTROS	acy.	n) For	Comment to the land	e conduction of the fra manageral on rain of the colors beloff I are only	and the same	(R	an	0,1	t fa thi proper to to the hope described	Person a	, mid-my cla spectral and	arolini, po antino in	Augus minty
B 10 10 10 10 10 10 10 10 10 10 10 10 10	ONYSCHOOL NOOTROS	acy.	n) For	Comment to the land	e conduction of the fra manageral on rain of the colors beloff I are only	and the same	(R	an	0,1	t fa thi proper to to the hope described	Person a	, mid-my cla spectral and	arolini, po antino in	inage many
- N	ONYSOLDER COSTROS	Acc.	N For	Comment to the land	t contacts of the first recognision and in the collection of the c	and the same	(R	an	0,1	unt G	Person a	, mid-my cla spectral and	212	Augus minty
- N	CONTOCOME	Acc.	n) For	Comment to the land	e conduction of the fra manageral on rain of the colors beloff I are only	and the same	rR	Tomas State of the Control of the Co	0 N	t fa thi proper to to the hope described	Person a	, mid-my cla spectral and	arolini, po antino in	Augus minty
TA THE PARTY OF TH	CONTOCOME	ACC.	N For	Comment to the land	t contacts of the first recognision and in the collection of the c	and the same	rR	an	0 N	unt G	VSC	, mid-my cla spectral and	212	Augus minty
TO THE STATE OF THE PARTY OF TH	CONTO	A.V.	N For	Comment to the land	t contacts of to the stranged in the off the obtact the fill and the	and the same	rR	Tomas State of the Control of the Co	0 N	Aunt (S	VSC	, mid-my cla spectral and	212	nage nady
THE ROLL ST	CONVOCATION AND AND AND AND AND AND AND AND AND AN	Z.	N For	SCD+	Diese	T.	R	The state of the s	0 N	Aunt (S	VSC	Da-16	212	nage nady
TO THE STATE OF TH	CONTOCOME CONTOC	Z.	N For	SCD+	Diese	T.	R	The state of the s	0 N	Aunt (S	VSC	, mid-my cla spectral and	212	napt naty
The state of the s	CONVOCATION AND AND AND AND AND AND AND AND AND AN		N For	SCD+	Diese	T.	R	The state of the s		The same	VSC	Da-16	212	napt naty

198430

Coast Tever

Recognition		S in S	Plant of and State	¥.		MITA COLOR
Orban's Maria	111/1/73		AL AL	Mr. Atmos	1	11/12
checkling A	- Denier	Title				and market
State Arrivo	Deta	Dies in	Time Or	,		
round com	ng Blackouff	T / N Not	thed OCCT Y	N I	2001,800	
Leuber	[] Person		- August 18		gnivios	Comments
Other Cop		1000				
Banto	in The	transfer [] r		TIA	- Citate	[] feetower
восивну	Thing all	Time Dut	40000	Comme		The state of the s
sbikeation	Time is	Time Out	fritate	lines W	Comme	
ndi	New Ar.	Time Chair	-	Commen		
bw:						
Strut	Flores St.	fee De	-	0-		
queque ediment						
	Three Air	Yes Day	From C	Promote .	S	
ncility Pr	resonnes to	name inplier)				
		er kalling to gradual			Seering	and productions
	Politory In	-	diam'r	4		display committee tog
	Feller is	www.mpureprints.2	75		hyrani	terplog or shakepin
	Charles of	roong practition			Downson	Pt. special artifold

print or Spec (Formula) MAP DEM HAZASSOON	1 Domes IP Bires	\$ 0.750 TWO	J. Kerryshy Number		The state of the last	STATE OF THE PARTY OF	A STATE OF		100
WASTE MANUFEST	Mythogon Nathania	14	516-910-4700		1:00	918	154	2 1	JK
30.00	Former Cardina Kernell Financia E. Gadresell Ale Westframpton Search, N	Site	Cheputy's Ste Nathro	d efficient	11 10 10				
Sumports 1 Children Lan	The state of the second				14		E114E71	1400	
	Hoods Tude, Inc.				UN THORS			-	
Supple Sales Sales	The state of the s				1			_	
200 Pers 216-200	CMM Chemical Ser 1950 Seiner Road March City, NY 145				4		(D04880	etra	
	pton Sericates Proper Streeting Home (Hamilton)	Class E-threets	H Core	T Sec	2.340	10.54	19	Marie Sa	
X U6402.Po	dystricetradiant Mathematic, Schol OTYPC the greater than 600 parts		01	OT	21,000	ĸ	8007		I
ERGATT									
									ļ
98.1)M7304088 S78666730-3	- Cou	+ oF Sen	vice 11	1	3- 19		8/0	000	2
Ma. 1) MY204088 SPURGETRO-3 SINUATIVE DOTTI MINE SETTEMBRISH Floring Land State	rapided, and put it of the country in graphs records to promote of the comagnitude of contrary to the the transport of the comagnitude of the contrary of the text	to to sympos annually is built towned the adjusted CPA statum They of him a large county you	magners or Commit			tepite	depole and	uni de fo	HAPPY .
K Rig	no Mantforse	kar hit dipunjum annuality in besti terras di tra adias had CMI dalami Tilliya di Namia denge asabity yan	KR			tepite	depole and	uni de fo	HAMP!
K Rig	no Mantforse	DHS I learner	KR	ونو	S. Myon)	tepite	depole and	uni de fo	HAPPY.
K Rub	no Mantforse	DHS I learner	KR.	wi.	S. Myon)	Sen S	depole and	uni de fo	51
K Rub	no Marsh	DHS I learner	KR	wi.	5 mm	Sen S	depole and	212	51
K'Rub	no Marsh	DHS I	KR.	wi.	S MAN	Sen S	depole and	212	51
K Run	Marsh	DHYS   I soot ton to	KR.		S MAN	Sen S	depole and	212	51



Driven's Community

198431

Codes North

producing resign of Book Gay pane if resembly?

	0.00	XAT	Pron.	Re.
Stanoge Mag &  Stanoge Mag &  Transporter Mar  Ortone y Harma	Profile	Your Kind	Tree Had off	
Schockard Ar	rivat.			W 750
Actual Armyse	4.049	Thee		
	Per	-	Time Out	F
Arrived during	g Blackout? \	FEN HOS	Hed DECT Y /	N StaceWing:
Louis		- II-	renting Yes, LO.	Andrean Simol Commands
Color Japan	N			
E manue	- 0-	method   P		attanta   trust   tame   tentume
Laboratory	Don it	lless Out	hess	
Stabilization	Tree as	time our	inter	Street Mt. Commandy
Levitti				
	Nomal.	Il-m Out	-	
Other				
-	Notice Str.	fem Gar	Athen	Demands
Aqueous Treatment				
	There is	il— Our	Figrunier (80)	Comments
Facility Po	recone) (	one (relial)		
	-	-	ed trans	handing treet southwested
	Pather to 1	-	Charles pressure	E Fallers to disalog exemunghi dug
	- Pallers H	-	78	Improper Supply or Adaptiv
	Sheets 65	enellment pro-		Overselland speed earliest
	Officer (spe			

WASTE MANGEST	1 Seems C Auto	100	of Dissert	ii. Plant	0.0	0.17	154	2	
Carment Section Self-			518-816-4768	-	100	316	1154	3 4	J
20140	Former Castine Kennel Si Prenois S. Catineel Airpo Westhampton Beach, NY 4-5063	Market St. C.	1						
Demont Corps to	Horseth Trucks, Iron				DEBAR		Jan Tilan	517.27	-
Financia I Colore Ser					DE SALE		AD14871	4678	_
Demonstrate from the					100				
	CMM Chaminal Servic 1550 Balmer Road Model City, NY 14103				83.3990		Y004863	eers	
in the Contract of the Contrac	on Destrolling Propert Tripperse States, Income Trip	n Cilone	W Con		I is took	(0.0m)			
	rollerheind Blahanyle, Solid		- 10	Yes	Basely	95/06	10000	0.00	7
0, PGIL (800 EROMY71	TXPCBe gravier time (000 ppm)		:01	DT	11000	×	9007		L
83(08171)					W.				L
									Е
0									ľ
Secretary States of	and the second second								L
SE4000780-4	out o	F Service	c - 11-1	med.	ne	res	1551	460 310	Ti.
STANDATED-A MANAGEMENT SCHOOL TOOK I SATS FOR THE LONG THE SE WAS NOT	A DESTRUCTION I SHOULD SEE THE TOTAL THE TAIL AND T	of the student (The Age of the student (The Age of the student (The Age	C C	219	THE PERSON NAMED IN		121	310	k
STANDATED-A MANAGEMENT SCHOOL TOOK I SATS FOR THE LONG THE SE WAS NOT	PATRICIANON I MANUEL SERVICE ON THE PARTY OF	of the student (The Age of the student (The Age of the student (The Age	C to the second of	219		gang vana Fargori di	121	310	k
Ridana	agent for scott	of the student (The Age of the student (The Age of the student (The Age	K Kuli		THE PERSON NAMED IN	gang vana Fargori di	121	310	k
Ridano	agent for scott	S I	K Kuli			gang vana Fargori di	121	310	k
Ridano	agent for scott	S I	K Rul	~(0)	god Es	gang vana Fargori di	121	310	k = 51
Kulano	agnt for scott	S I	K Kuli	~(0)	god Es	gang vana Fargori di	121	310	k = 51
Richael	agent for scott	S I	K Rul	~(0)	god Es	gang vana Fargori di	121	310	k si
Richael	Sherer	S Literature	KRW	~(0)	apol 8s	region	121	120	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Richael	Sherer	S I	K Rul	~(0)	god Es	region	121	310	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Richael	Sherer	S Literature	K Kuli	~(0)	apol 8s	SCA 14	121	120	k = 11
Richael	Sherer	S Literature	K Kuli	1	yml 8s	SCA 14	121	120	k zi
Richael  Michael  Michael	Sherer	S Literature	K Kuli	1	yml 8s	SCA 14	121	120	\$1 51
Branch Carlo for Con-	Sherer	S   I   I   I   I   I   I   I   I   I	KRul	1	yml 8s	SCA 14	121	12/	ik side
STATEMENT STATEMENT OF THE PARTY OF THE PART	Sherer	S   I   I   I   I   I   I   I   I   I	KRul	1	yml 8s	SCA 14	121	12/	ik side
Michael Management of the State	Shere	S   I   I   I   I   I   I   I   I   I	KRul	1	yml 8s	SCA 14	121	12/	SI-
SHARMATON DOST TOPS  SHARMATON	Shere	S Topo I to a series of the se	Kkul		yml 8s	SCA 14	121	12/	ik i

198433

Cook Year

Accept #	10.77	Haller & Common Placks & and Silv		
Minn.	F			
Service Reg. #				
Distribusion No.		Frantisc Yvaries (Not)		
DOM'S Name		Springer	Santa Co.	A CONTRACTOR OF THE PERSON OF
chedulog A	mwac :			The state of the s
	Date	Dre.		
Actual Arrival	- Date	Don in Dear	OM .	
horsed duce	og Blackour? Y	the second second second		
			Heck	iwng:
318167	Frank Visio	- Distriction	II. Vellettee	Policy Contract
Other Diges	ely			
T Butt to Lan		maker [7] distant [7]	testimen [7] men	Dieter Disselven
7.77	447	CO DOS M		
aboneory				
	Divis ill:	Dee Out states	Comments	
Stabilization				
	Time in .	Time Out 100000	Gover Mr.	Comerio
	_			
andid	attenda a			
	Strep in	Stree Cut. Sensor	-	
Deben i				
Other		72-22-22-22		
	Them It	Time Out - Solve		
Aqueque				
healment	Time in	Through Signmen	(NA) manuaria	
	1004.00	limited (Section)	@mm	
Facility Pa	reconnel (	A September 2		
Eacility Pe	reonnel (	meme)		
Facility Pe				Carried Ward Street, and
Facility Pe		earting to provide head works		Sawring truck engineered
Eacility.Pe				Fallers to chartey reserve of the
Facility Pe	fullen til	r eating its provided at white they their publics of facility person		Fallers to display concerns to be incorporated by incorporate beginning or delegate.
Eacility.Pe	fallen tre	r eating its provided all which they trade actions of the Sty person and appropriate PPS		Falled to the transmissed from the property of the property or delegate.
Facility Pe	fullers to a	r eating its provided at white they their publics of facility person		Fallers to display concerns to be incorporated by incorporate beginning or delegate.

LIMPTON HAZARDOUS	nel fur use or eith (12 etc2) by	(Miles	13.7901	OTTO COL		TOMOR	For	August .	CAND IN 19	eo.g
WARTE MANEEST	NYR000187908		10.	010-010-4700		0.0	918	154	4 JJ	K
is literatory time applica-	Former Cardina Ke Francis S. Gabresi Wentherpton Son (041)	d-Allenort			all Phon	tion Auto, 2000			1110-015	9-0-
4 Torogram I Torogram Store	Howellh Truste, Iron					TIK SWIS		C1146714	274	
Chrome Deurs has		_			-	UR SHAD		20140711		_
Chamber Facts Sales and	NA AMERICA									
Parties Press. 710:256-0	CWM Chemical 1500 Belmer Av Model City, NY	OMA .				NATION OF		TOHIBM	676	
de Mr. U.S. DOT Devente	Sections Printed Biographics I	SINCOM CRAM	4.5	15 049	-	Femilia	10.04	GE.	100	=
A T. UNDARD Print	on Ottovirusiani Biotherophy, Scot			- Si	Topi Off	Grants	60.000	1007		
8, POR, (8007 5RO4171	(PCSs greater from 500)	ami)		7.0	10000	22,000				
Surrey Li						and over				
8 6										
					1		1 - 1			
16 Special Speciality Columbia							11 11			
TL SOCIATION OF THE PLANT OF TH	Experie date	Fortune of the spine		Marin Standard of Column		Personal Street	oping have directed the	mand and the	e des imposes	The
177000	o went	r 200			Lie	y liapent	01.50	5   218	127	13
Designate regulate the tapers	100		Theorem	dS Petro						
17 Terrente Americanistra	Promi o'Transa.	_	7.6	-	-			-	1961	
THERET PAGE	CHOCK.			2/1		7		142		13
				gride pri				-	-	Ŧ
R Switterry										_
the Property Principle Space	C) Gardy	E tank		Total		Libraria	-	- 1	heten	
				Trans.						
Mr. Aleman Partly of Garage	9					0.0000				
Federa Nove.						140				
the Species of Journal Princip								78	75	7
16 Paperous From Period San	growth (Martin) Codes (Lat., States )								1 1	
	-		T			116				
+132										
			-							
M. Interest Califolium of	to the contract of the contrac		and the late of	62	ille.			1904		
	de Partin	sk.	T I	and D	20.10	not.		27	eXh)	3

Briver's Common

Green & Councy, Autor Box.

With Bernell

198437

Copy fame.

Receiving:
Receiving:
Dome   Treeter   Treetamen
Dome   Tester   Translations
Dom:     Nester     Nestermen
Drome   Tenter   Transformers
Comments
Comments
=11500500=2000
Learning track areamounted
Fallies to Charley everyonists had
publishes pythod as impelian.
Commenced reprint period
TO SOUTH PARTY BANKS
Brounly Guard Immer.

Day Samuela

Gellowel, Press

WASTERNA	NAMES OF THE PARTY	Marine-	00107000		4	111	200		0.0	017	3154	E	
I Greenta's to		China .			114	810-016		Tables.	UU	310	3134	10.6	JK
lament Par	-361-586-4	Privite Vited	ner Carriero Ko ole S. Guillena Françaison Des	del Airport	18								
E. Navasoler (1)	STREET, SHOW	S	nete les			-			DEDAR		423077	2000	
PERMIT		PROPERTY II	ruenn, em.		_		-		1000	100	AD1467	4878	
	718-286-04	0 11	Will Chambon 900 Balton P balls City, My	load	re				an area		Y00488	esterno.	
to MCVS.0	001 Semigrae og Song Steel	No. of the	Managhan,	Time Co	terrel I		W Green		H/ma	10.004	- 0.	-	
M LAW	H3Z, Pulyul	derformed (	Dipiniumyles, Sico	44		_	01	011	ed	- K	8007		T
9.P	ONE, (BOOTY) ONE 71	(PCHe pres	mer than 500						31,000				1
enc	ELASTIC STATE					_	-	-	1,000	-		_	F
											-		-
								-		-			+
													4
										-			1
autimos shaces	180-0 F SCVIII	es da	he 11/2	3/12_	2100				Cent	4 16	316	8k	
OLI † O	1804 f sevu	es des	ON Therma state example it proper represent contact	as had his corner conflict to have to be seens of the D. Mill Chief of Law	of the company of the	August Saprodis Special of Co Special of Sp 10	ration of regal		ray he proper a record hap belon.	d promoter	146	8k	ispel My
OUT o	SO4 F SEVA	es da	ant for	as had his corner conflict to have to be seens of the D. Mill Chief of Law	S	ለኤ	line	age	ray he proper a record hap belon.	d promoter	146	8k	inger!
Out o	soe f sevu	no as	ant for	as had his corner conflict to have to be seens of the D. Mill Chief of Law	ations (P. Name	ለኤ	ration of regal	490	troty for groups of resident trapspatchs.	d promoter	146	8k	ispel My
Out o	Soe f sou	ro a	an) for	as had his corner conflict to have to be seens of the D. Mill Chief of Law	S	ሽ®	ene media	age	ray he proper a record hap belon.	d promoter	146	212	S
GLE,	SOLOUS F SOUN SOLUS SOLU	ro a	an) for	as had his corner conflict to have to be seens of the Control of the	S	ሽ®	ene media	age	ray he proper a record hap belon.	d promoter	HSL.	212	5
GLE,	soe f seve	co da	an) for	as had his corner conflict to have to be seens of the Control of the	S	ለኤ	ene media	age	ray he proper a record hap belon.	d promoter	HSL.	212	5
GLE,	SOLOUS F SOUN SOLUS SOLU	co da	an) for	as had his corner conflict to have to be seens of the Control of the	S	ሽ®	ene media	age	ray he proper a record hap belon.	d promoter	HSL.	212	5
GLE,	SOLOUS F SCYN STALLY	co da	en) for	as had his corner conflict to have to be seens of the Control of the	S I	ሽ <b>የ</b>	ene media	age	H For	SC)	HSL.	212	5
GLE,	SOLOUS F SCYLL SCHOOL STANDS	TO M	en) for	SCD-Y	S I	73v	A.	A91	ray he proper a record hap belon.	SC)	HSL.	212	51
SA TIMOS SA	SOLOUS F SCYLL SCHOOL STANDS	TO M	en) for	SCD-Y	S I	73v	1	A91	H For	SC)	HSL.	212	51
GLe.	SOO	TO BY	en) for	SCD-Y	S I	73v	1	A91	A For	SC)	HSL.	2 2	5
GLe.	SOLOUS F SCYLL SCHOOL STANDS	TO BY	en) for	SCD-Y	S I	73v	1	A91	A For	SC)	HSL.	212	51
GLe.	SOO	AWY	en) for	SCO-Y	S I	7 B	14	A91	A For	SC)	HSL.	212	5
SALTIMOTE STATES OF THE PARTY O	SOCOS F SCYN PROPERTY ANY )	AWY	en) for	SCO-Y	S I	7 B	14	A91	A For	SC)	HSL.	212	5
GLe.	F SCYLLO	TWX	AN FOR	SCO-Y	S I	7 B	4	A91	Floor	SC)	HSL.	212	51
SALTIMOTE STATES OF THE PARTY O	F SCYLLON	TO M	AN FOR	SCO-Y	S I	7 B	1	A 9 (1)	Floor	SC)	HSL.	2 2 2	51

Geller's Comme

. Smorth Cowy Assertes

Fair, Environment

**Сороший** (жин

198452

Carter terms

	17.7	A. Friend	Stewart Silver			1
Faceget #	1012	Putter Licenses	Plate # and Store			
Sarvego Hag	Positi	Par				1
Transported No.	2	Frank	of telephone Tub of		- 1	41/1/1
Detum & Harris		Garage				14.7
cheduled A	vriva:					20.52
	Dam	Time				
Actual Arriva	Date	Time is	Time On			
Artived duri	ng Biackout			ria Tu	1000000	
There	T Person We		enting Veh. (II)		pheliding:	Acres 1
	100000000	39477				
- course blow			TT 19521		10072	Val
Bull to Lo		te with the	mar 🔲 a	<u> </u>	tem Deller	Transilienses
Vyotenode						
	: New #0	film Our	billion	06-110		
Sustrikantieri		111		-23/1/16/2		
	Time to	Times Chall	-	Distant Mil	Committee	
motio.						
	Time In	.tmcor	The latest	Compres		
Object	1.1.					
Other						
	Stone by	7-04		Ç		
Aqueous						
lination if	Their	This Old :	Signature (M	O Avenues I	Community	
			10000000			
2000						
Ensility Pr	ecescone) i=	into intal)				
	- 110				Laiving the	1-1-12
		or entirely by branching	V-2			
	Pellore	sales parameters of	Charles present		Pattern to the	spirit memorial title
			7		3000	phogos designing
	Short A	rhing province			Charmings	ann artist
	Citize (b)	metty)				
				Si	soo'ky Owe's Mines	
				1.00	dicarrage Manager of West	Assessed Committee

	Control of the Charge Address		2.7hga (		* Table		100	O d o	100	0104	
WASTE MANFEST	HYROGO187508		1	619-919-	(Ten	-	100	918	154	6.	IJĸ
	Former Cardine Ka Franchi S. Galzani WestFamphon San 0005	al Airport		1			VIC DICE				
	Heath Trace ha						1		ADMAST	4579	
Charming Scorms have					T	_	THE SHARE	-			
Competitions, See an	Balling	V2.1817-17-17-17-1			-		11.000			-	-
716-286-0	CMAI Chambra 1660 Stainer A Model City, NY	cond.					4	M	YDOHOLO	10070	
Bu B. U.S. DOF December and and Thicking Drace (Far	Substitute Prints Prints	Total Charles El Harr	-		of Contra	Ton.	-11 has	15.646 90.546	- in	Marie Co.	ter.
X UNO432, Poly	distributed Sprenger, So	84			01	DT		ж	8007		T
ERO#171	(PCSe greater then 500	pam)					2000				L
											r
											Ħ
											۳
											T
*											П
				-17							T
		23/12						re	slele cd :	02°	17
OUT of S	miredde 11	e facility appropria	Annual States	April 1	end year	mar pro-		frants			
OUT of S	rvice de 11	to the state of th	Annual States	April 1	end year	mar pro-		frants	And are the	andrei sur andrei Par	Lypni hery
Ruby, Ay	arvice date 11	to the state of th	Annual States	KRAL	G	egon-l	with systems.	frants	And are the	edial, per archedica	Lypni hery
Rubin Ay	arvice date 11	to the state of th	Section 1 to 1	KRAL	0	egon-l		frants	And are the	andrei sur andrei Par	Lypni hery
Ruby Ay	arvice dule 11	to the state of th	Literan	r Ruse	G	egin i	fer sco	frants	L		al.
Ruby Ay	arvice date 11	to the state of th	Literan	KRAL	G	egin i	fer sco	frants	L	andrei sur andrei Par	
Rubus Ay	arvice dule 11	to the state of th	Literan	r Ruse	G	egin i	fer sco	frants	L		
Rubus Ay	The SCOHS	to the state of th	Littere tue	r Ruse	6	egin i	fer sco	dS.	L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in L
Rubit Ay	arvice dule 11	to that the continues of continues for the con- tinues of the con-	Littere tue	KRAN Bed	6	egin I	for Sco	dS.	L		el.
Ruby Ay	There's COHS	to that the continues of continues for the con- tinues of the con-	Littere tue	KRU.	6	egin I	for Sco	dS.	L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in L
Ruby Ay	CONTENTS OF THE SCOTT	to that the continues of continues for the con- tinues of the con-	Littere tue	KRAN Bed	6	egin I	for Sco	dS.	L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in L
Ruby Ay	CONTENTS OF THE SCOTT	to that the continues of continues for the con- tinues of the con- tin	Littere tue	KRAN Bed	6	egin I	for Sco	dS.	L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in L
Ruling Ay	CONTENTS OF THE SCOTT	Titles	L. Hanne Ban	Ree	G	egin I	for Sco	dS.	L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C.// Con	Constitute and the second seco	Titles	L. Hanne Ban	Ree	G	egin I	for Sco	dS.	L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
CH Ga	Constitute of the constitute o	to the tax desired and the sale of the sal	Library na	Ree	6	porting (p)	for Sco	dS.	L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C.// Gra	Constitute of the state of the	to the tax desired and the sale of the sal	Library na	Ree	C	t partition of the control of the co	for Sco	dS.	L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Orber's Comme

198464

Gable horse

B True	0237	Nation Comme	NAME OF THE PARTY	OL		
Service fleg, e Temporter fle Dates's Name	Mari		/Trading Rod of			0.10
	rivat.	4				40.
Actival Antival	Down Date	The C	Time Chi			
Arrived dune	ng Brackdur?	T/N Not	The DECT Y	N F	Baconorg.	
Leene	Trems ries	eine [] Pe	erring*ren, s.O.	Polemen	pma.	-
Other lease	offy					
D system		omine Dr			from Terror	Trendrous
Laboratory	Those 60	limbe :	- Andrews	Directo		
Distribution	Time by	Timor	Ima	Disse M	Č	
Layettill	See at	ženov.	Jellan,	200		
Other	See is	Ten De	-	Demok		
Aqueous Thrutosore	The III	Tim Out :	Digrature IV.		Community	
Easitity.Pa	raonnel i-	em 100el ]				
		or warming to promote to	od sever		Landing to	ork anathrophism
	Pelowin	-	facility present	1	Police to a	Depley committee (ing
	Teber to	—e appropriate P	er.		Ingregor I	orphis or processing
		New providence			Dograma	topes print
	Citizes (sale	erffett				ALPHA CARROLL
					and the state of t	
					Secondly Qualify Innies	tell diag paint of tenomorphic

	# HACABOOKS	A STATE OF	es Chate			1790	200000	Mary Paragonia	d Phone	1 8000	0.0.0	A	79	1600
	MANNETT	Annual Control	NYTHOOD 1976	ON .		10		19-6700			918	154	1 .	IJK
	ay term and the		Former Card Francis E. G Westmanph	plannini Airo	60 / W.		))	. 80,45	()CMILIAN	hai indag sem				
P. Sanda	100 (201 AM	Mary Control					+-			OC BASE				
	NT COMMITTEE		with Tracks, it	4						A		M014671	430%	ш
	es a Carriera Ale									1				
Times	all and here o	150	outro	artical Save	and a state of					U11 554 B	Service .	deleter)	The Co	
Target P	716-256	0401	1550 But	tow Road by NY 1410	Control of the Control					Ų.	30	1004865	6679	
	U.S. (10) Decoys Charles Street	in this	ky Propie Sticole	Name , Francis C	Sta, Pillum				T to-	11;56a Ourth	33 tea	- 0	-	-
	(3NO432, Pol)							01	-01	in	K	10007		Т
	9, PSE (900 ERIMP171	rypec	or Assessed and	u 6000 thind						31,000				T
T.										1				H
													-	+
-		_	_				$\rightarrow$		$\vdash$	-	-	_	_	+
110												_	_	4
														Н
100.1	MONOCYMIC	Na aad No	Out of threshold						-			814	40	29
SPA	SAVSGADER GOGTA1-2 TANGE LIGHTER SAT SERVICE FOR THE	000	F Jant. Hearth See dissol	ng denga bari Lingan timilar Lentano ti Ba'ar	Minimals of the American Co.	No randgem soveten is a teal DN-Acc	attention to	Contact		-	(c	814	91	33
584	yerracione contrat-2	000	OF John	ng boom fair) prope booms option to the se or section sail y	Minimals of the American Co.	na, conspired condition in the med (PA, Ado companied);	etistis in one great a postoli ir l Trynoptur	Contact Contact			Y	الحاد	Q1	23
Kab	SAVSGADER GOGTA1-2 TANGE LIGHTER SAT SERVICE FOR THE	000	SCOUS	ng boom fair) prope booms option to the se or section sail y	w military or in the harmonic of the harmonic of the parties of th	militani	Z,	liley	7 19	-	Y	الحاد	OL.	23
KBJ	yerrowen eacross w. and no to characteristic	Je To	OF John	ng boom fair) prope booms option to the se or section sail y	w military or in the harmonic of the harmonic of the parties of th	na, conspired condition in the med (PA, Ado companied);	Z,	Contact Contact	7 19		Y	الحاد	Q1	33
KB.	yersowe codrat-2	ON TO	SCOHS	ng boom fair) prope booms option to the se or section sail y	w military or in the harmonic of the harmonic of the parties of th	militani	Z,	Comme Comme	7 19		Y	الحاد	Q1	33
KB.	yelvaceomi contrates on a contrate on a contrate of a cont	J Fo	SCOHS	ng boom fair) prope booms option to the se or section and p	w military or in the harmonic of the harmonic of the parties of th	militani	Z,	Comme Comme	7 19		Y	الحاد	Q1	23
KBJ	yelvaceomi contrates on a contrate on a contrate of a cont	J Fo	SCOHS	ng boom fair) prope booms option to the se or section and p	w military or in the harmonic of the harmonic of the parties of th	militani	Z,	Comme Comme	7 19		Y	الحاد	Q1	33
(3) 7/	yerrockee control-2	J Fo	SCOHS	ng boom fair) prope booms option to the se or section and p	w military or in the harmonic of the harmonic of the parties of th	militani	Z,	Comme Comme	7 19		Y	الحاد	Q1	33
(3)	yerrockee control-2	o o o	SCOHS	ng boom fair) prope booms option to the se or section and p	of control of the formation of the formation of the section of the sec	militani	Z,	Comme Comme	7 19	ask for s	YSST CONT.	الحاد	2 12	2)
(3)	yerracione contrat-2	o o o	SCOHS	ng boom fair) prope booms option to the se or section and p	w military or in the harmonic of the harmonic of the parties of th	militani	Kr Z		X 19		YSST CONT.	الحاد	Q1	23
17/	yerracione contrat-2	ON ALL	SCOHS	ng boom fair) prope booms option to the se or section and p	of control of the formation of the formation of the section of the sec	militani	Kr Z	7	X 19	ask for s	CONTRACTOR OF THE PARTY OF THE	الحاد	2 12	23
X31	yetropode control 2 manuscription of a self-real to the terminate of the control of the control of the control of the control of the control of the control of the control	ON ALL	SCOHS	ng boom fair) prope booms option to the se or section and p	of control of the formation of the formation of the section of the sec	militani	Kr Z		X 19	of for	CONTRACTOR OF THE PARTY OF THE	الحاد	2 12	53
(B)	yet/36-com coct/36-2  Maria paragraph and another recording of the cocton for any companion for any co	O PO	SCOUS	ng boom fair) prope booms option to the se or section and p	of control of the formation of the formation of the section of the sec	militano	Kr Z		X 19	of for	CONTRACTOR OF THE PARTY OF THE		1 12 12 12 12 12 12 12 12 12 12 12 12 12	53
(B)	yetropoolee contrates cont	O PO	SCOUS	ng boom fair) prope booms option to the se or section and p	of control of the formation of the formation of the section of the sec	militano	Kr Z		X 19	of for	CONTRACTOR OF THE PARTY OF THE		2 12	23
(B)	yet/36-com coct/36-2  Maria paragraph and another recording of the cocton for any companion for any co	O PA	SCOUS	ng dama harif geogra bendhi ngdani ti dayan se na 139 Mai y	Washington of the barrant of the bar	Store to	Z		X 19	of for	CONTRACTOR OF THE PARTY OF THE		1 12 12 12 12 12 12 12 12 12 12 12 12 12	23
X3.6	yetrosone contrata co	J P	SCOHS	ng dama harif geogra bendhi ngdani ti dayan se na 139 Mai y	Washington of the barrant of the bar	Store to	Z		X 19	of for	CONTRACTOR OF THE PARTY OF THE		1 12 12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	
(B)	ystrysouth contract property of the contract p	100 mm	SCOUS	to proper to the service of the serv	Windowski (P) An American (P)	November of the CPA Address of t	K )		X 19	of for	CONTRACTOR OF THE PARTY OF THE		1 12 12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	
7/	The second secon	100 mm	SCOHS	to proper to have been been been been been been been be	Windowski (P) An American (P)	November of the CPA Address of t			X 19	Libraria  VI. 00.0	CONTRACTOR OF THE PARTY OF THE		1 12 12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	2)

Different's Concessions

Since & Coppy, Auto-Pay.

198463

(Cobe) Hardy

Raymon #	777	Mark Line	Total State	_		
Service Play &	7644T	Years	on Transmitted air a			
Cheduled A	West -	-0.				SW.
Actual Armel	Date	3 3				
Marie Marie	Den	Non-ex	Farry Chil			
Armend durin	g Smotderf		nid DEC1 1	**	Receiving:	
] bester	Transmitted	- 0-			-	Comment
Office Days	-				_	
T messie		rimition 🗆 t	- De	1	] []+	der Transferens
ываемогу	New No.	New Out	1000	6		
turbika arinn	Direction .	, Res Cuir	hine	Great M.	Commercia :	
avelli):	See St.	See Cut	-	-		
Diber						
0.5	the in	Period	Jensey.	-		
Aqueous Realment	These etc	Time Out	Sprane (K		Comers	
			_0.00			
Facility Pe	reonnel (-	ner entwi)				
	-	or examing to provide	nd arrest		Link	-
	Caroli		The State of the S	1	1	M. Surjey was and Sec
					io-	and begang to delegate
		Aning providence			Overs	
	11.270	A Karamara				
	- Plant Ser	170				
					Sincurity Quantil fo	striate

Guilliansk Roose

964	NON HAZANDOUR STE MANGEST	1. Names & Barrie HATROCCI & TODO	E Proprie	\$16-819-5785			918	1548	JJK
	m's Phone age - Age	Former Circles Karyel I Pranada E. Galarooki Aby Wandangalon Basada M	Re ori Y 11978	1					
	ander / Samuel Samuel	Heralth Train, Im.			Ξ	UE OVER	Pi	OLETO SE	
		CAMA Chemical Services Service	5550774575			SS BAG		1004983007	
4	the art Dollary Street of the	e-Debute, Press Staying Rane Flauet	Desp. 10 Normal	Till Great	rie The	State Quarter	10.104 90.00		rover.
*	UHD402, Puly 8, POIL (BOOK 8700#171	nddorfreezed Digitarryke, Build 7g/PCBs greater tracs 600 pproj		01	(DII	Eir.	ĸ	8007	ı
									t
# W 0 5 5			1/23/12	an tilly and according in Public Sharpfood and to shappools of Consen	and port	al to be proper to	Mary and		TOL
ń		Agnit For SCD+	S Literatus	R. Rusia	0.09		2001	s 12	261
73	OF BI	STAMETE	i	Tark		te	L	13	21
Thermode 18 Days						0	6.		
e s	ityest o	etal lead 184	Lha Frak	Li Permis Warring Person	e fuiter.	Desirie		(3)	de Agraphic
	Andre Parkly ya thomas t Phone:	E la Canada				UK HOLD		I World	-
NI NA						14			
	H137	D - C 1		out of the second se	3	d I		5.0	16. 1
	100	Ly tal time K:	1	JADLY	100	week	-	1 >	1271/3

Contraction of the

Other's Commons

Times & Councy, Army Bus.

198465

Dates Visite

Allens	JUCI.	ATT Z	(32.E)	PA	
Receipt #	- 14		falls if and State		
Service Reg 4	House		10/124		
Transporter No.	Service Co.		r Treater Stort of a		
Diher a Ferma		Down		/ LC1	
Scheduleo A	Date:	Time			
Actual Asyma		Spine in	Time Chif		
Accessed them	The month of	MI 4 10 11 11 11 11 11 11 11 11 11 11 11 11	Water Street In The		
[7] hame	T Permit Wald		writing from 1.65 fr	Receiving:	
China (Aprel					_
		ens and	er egu		
- mente	FI.	D 4	T.1 pa	Attention     Drawn     Tourstoners	
Laboustary	78/6/19	Time Out			
	Those he	time OV	Artisty	Committee Commit	
Stubitustion					
	Time in	Time Out	arried:	- Cross M: Comments	
Lacotti					-
	Three in	Bande	386	Comments	
dayees					_
Other	Tiere-in	Time that	and an	Comment	
Brussen	STATEM	The season			
Aquoous Treatment					
	Tire b	T—Or	Nome (B)	Salarity Commerce	
Fedility Pe	reonne) (~	Army Britter 3			
	-	ir auting in position	daren.	Livering track angliterated	
				Tidlers to display commont flag	
			111111		
				Printed House, or Advanta	
-		hoog practition.		Overmeltylik open prilatel	
	Officer (rep	-	-		
				Security Guard Initials	

THE CHARLE STREET, STR	1 Grown O Batton	1000	# 3 Shegro Human		0.0	010	154	0.1	110
MASTE MARKENT	NYR000197036	14	515-519-4798		UU	315	1154	3.0	IJř
95	Former Cardine Karriel S Pransile S. Galmonti Alep Weathwegton Beech, 19	of .	I .	e (il pitterage					
Consultation of Consultation of Street					10 1960		£1 (455)	enway	
	Horwith Thums, ive.				The same		AD14671	4678	_
						774			
100 mg 710-280	CWM Chambool Serv \$500 Balmer Road Model City, NY 1410				0.0 m/m		YDOGGE	-OUTP	
CONTRACTOR OF THE PARTY OF THE	M. Broughty Proper Stitute's Stiern, Tricale C	Depth Comments	0.0	inun Titpe	11. Tutal Occupito	01.004 90.00	- 62	-	
X UNIS432, Pue	otherneled Eigheryle, Sold		01	DT	85	X	1007		Т
9, PGR (800 ERG#171	TXPCRs greater than 500 years)				2/000				Ti.
100				1	T. Carrier				۳
							-		t
									+
									-
-				-		-		_	1
									10
							_		
8s.1) NY304088 878666781-4	OUT OF STREET	te former of the binding the	est and NAv and automatic of		desired the broads of	desired trace	814	maked too	SAME
Bo. 1) NYDO4088 EXEMPTED 4	OUT OF SMU	e currens of the designer for the good positing to a me of the absolute 179, Ado Tol. of Lone a train asserting	or an My and accounts a physical committee and in contribution of Committy processed on the Edward		n sy fin proper vi reme hapateiss	S superir de	a sit we do	are the tre	Nape May
S. TIMPOGOES ERROGETST-4	AND FOR SCOT	e currens of the designer for the good positing to a me of the absolute 179, Ado Tol. of Lone a train asserting	K.Ruber	04	ny ny fito propen vi namina kagisabina namina ta ma	S superir de	a sit we do	are the tre	Alapara mary
S. TIMOGOES EROMOTERIA S. Rubino	AND FOR SCD+	S	KRµl~	04	ny ny fito propen vi namina kagisabina namina ta ma	S superir de	a sit we do	are the tre	Napel Into
S. TIMOGOES EROMOTERIA S. Rubino	AND FOR SCD+	S	KRµl~	04	ny ny fito propen vi namina kagisabina namina ta ma	S superir de	a sit we do	are the tre	Napel Into
S. Rubing	AND FOR SCD+	S	KRµl~	04	ny ny fito propen vi namina kagisabina namina ta ma	S superir de	a sit we do	are the tre	Alapara mary
S.Rubing	AND FOR SCD+	S	KRµl~	04	ny ny fito propen vi namina kagisabina namina ta ma	S superir de	a sit we do	are the tre	Alapara mary
K.Rubing	AND FOR SCD+	S Dise	KRµl~	04	ny ny fito propen vi namina kagisabina namina ta ma	700	a sit we do	are the tre	- La
K.Rubing	AND FOR SCD+	S	KRµl~	049	ent for	700	a sit we do	12	1
S. Rubing	AND FOR SCD+	S Dise	KRubu Dem	049	ent finc	700	a sit we do	12	- La
S. Rubino	AND FOR SCOT	S Dise	KRubu Dem	049	ent for	700	a sit we do	12	- CI
S.Rubino GALY	AND FOR SCOT	S Dise	KRubu Dem	049	ent for	700	SIZ	12	- La
S. Rubino	AND FOR SCOT	S Drawn	K.Ruby	0.49	ent for	700	SIZ	12	- CI
S. Rubino	AND FOR SCOT	S Drawn	K.Ruby	0.49	ent for	700	SIZ	12	- CI
S. Ruhano  GALY  H132	AND FOR SCAL	S Drawn	BRULL.	049	ent for	700	SIZ	12	- U
S. Rubino	AND FOR SCAL	S Drawn	BRULL.	049	ent for	700	SIZ	12	101

# APPENDIX H DATA USABILITY SUMMARY REPORT



# DATA USABILITY SUMMARY REPORT (DUSR)

Site Name: Canine Kennel, West Hampton Beach, New York

Performing Laboratory: CHEMTECH, Mountainside, New Jersey

P.W. Grosser Project No. Canine Kennel, November 2012 Sampling

Project Manager Andy Lockwood, Project Manager

Stone Project Number: 082074-F, Phase 1 – Canine Kennel 2012

Analyses/Methods: PCBs by Method 8082A/3510/3541

Data Validation Level 100%, Full

Prepared by: Kim Watson, Stone Environmental, Inc. Completed on: 12/28/2012

Reviewed by: Joanne Perry, Stone Environmental, Inc. SDG No.: D4907

Stone Environmental, Inc. (Stone) has completed a validation and quality assurance (QA) evaluation on the analysis data prepared by CHEMTECH Laboratory in Mountainside, New Jersey for 8 soil samples, and one field blank collected on November 20, 2012 and received at the laboratory on November 21, 2012. The laboratory reported the data under Sample Delivery Group (SDG) No. D4907 received by Stone on December 15, 2012. The sample and laboratory identifiers and the selected analyses as shown on the chain of custody records are provided in Attachment A. Polychlorinated biphenyls (PCBs) as Aroclors analysis was performed according to SW846 Methods 8082A with 3510(water separatory funnel extraction)/3541(automated soxhlet soilextraction) extraction methods. This DUSR is based on reviews of the laboratory SDG case narrative and the full "Tier III" third-party data validation report, which are provided in Attachment B and Attachment C, respectively. Tier III data validation was performed on 100% of the data for PCBS as Aroclors in soil and water samples, in accordance with EPA Region II's HW#45 Standard Operating Procedure (SOP) for validating 8082A PCB analyses and NYSDEC's Technical Guidance for Site Investigation and Remediation (DRAFT DER-10, Nov. 2009) Appendix 2B Guidance for Data Deliverables and Development of Data Usability Summary Reports. Professional judgment was applied as necessary and appropriate.

#### **Summary of Data Usability**

The validation and usability assessments indicate that the data from this sample set are usable as qualified during the validation assessment. The overall quality control data provided in the laboratory report and in the case narrative indicate that the data represents adequate method accuracy and precision with regard to project objectives. The qualifications made to the data set are summarized below and in the validation report.

 Based on the poor reproducibility between the primary and secondary column quantitation, the result for AR1254 in EP019(6-12) was qualified as estimated (J) and the result for AR1254 in EP021(6-12) was qualified as tentatively identified and estimated (JN).

- Results for AR1254 in EP001B(12-18), FieldDup002, and EP020(6-12) were rejected (R) due to detection of these compounds outside the linear range of the instrument. Results for this compound were replaced with the acceptable concentrations from the more diluted analysis of these samples (EP001B(12-18)DL, FieldDup002DL, and EP020(6-12)DL).
- Results for other Aroclor compounds except AR1254 as noted above in the diluted analyses
  of EP001B(12-18)DL, FieldDup002DL, and EP020(6-12)DL were rejected (R) because
  acceptable results for these compounds were taken from the original (less diluted) analysis
  of these samples.
- The low standard concentration for these methods supports the LOQ reported value as recorded on Form I but does not support the laboratories' method detection limit concentration in the analytical sequence. Since the concentration reported with a "U" on all reports is not supported by the concentration of the low standard which provides precision and bias during these analyses for identification and quantitation, results for all non-detects in all samples have been qualified as estimated (UJ). The low standard of the calibration curve performed for these methods supports the LOQ concentration on Form I and not the MDL concentration; therefore, sensitivity at the MDL could not be assessed based on the data package alone.

The completeness level attained for the analysis of the field samples was greater than 95%. For all data, the overall quality of the data was acceptable and all results as qualified are considered usable as noted above.

# **ATTACHMENT A**

CHAIN OF CUSTODY RECORD SDG No. D4907 PCBs in Soil and Water Samples



## 284 Shaffeld Sheet, Mountainsies, RJ 07092 (184) 789-1884 Fax (908) 789-1922

www.chembah.net

STATE OF STA Charles Section 197

S. S. S. S.		and the second of
2		
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second secon	
,	Cariffe dame of the	
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
<u>San Elektrona.</u>		Britis Strains
	Section 19 (2) (2) (2) (3) (4) (4) (4) (4)	States
BRIDGE CHARLES FOR	MALENDARY MARKET STEP THE	
	Stranger of the state of the st	
である。 のでは、これでは、これでは、これでは、 のでは、これでは、これでは、これでは、 のでは、これでは、これでは、これでは、 のでは、これでは、これでは、これでは、 のでは、これでは、これでは、これでは、 のでは、これでは、これでは、これでは、 のでは、これでは、これでは、これでは、 のでは、これでは、これでは、これでは、 のでは、これでは、これでは、これでは、 のでは、これでは、これでは、これでは、 のでは、これでは、これでは、これでは、 のでは、これでは、これでは、 のでは、これでは、これでは、 のでは、これでは、 のでは、これでは、 のでは、これでは、 ので		
CAMP ACTURE	7 3 40-14 54-144 5 1-44-14	the state of the s
CATACA CATACA A 2 CATACA 2 CAT	******     ********	
	l .	45.00
	<u>                                   </u>	
	- 1	
	· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·
 		+ +
THE COURT WHEN THE TAX IS NOT TO A COURT OF THE COURT OF	Section 2017 Secti	PROCEEDING COLOUR BEINGE
1000年代の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の	Continue of bridge property wanted	I
	Megalitectura in production of the state of	A CHANGE BOX CHEROLE
		A CIN Thursten Towns Towns Services
	28 - 103 38 "Jun 13 04 [14] - 15 JOH - CHEMTED - CTET	AUCCOTTOMES ON A

	J
1	Ш
	g
ì	
	S
ı	Ш
	L

	244 Sheffeld Street, Mountainside, NJ 07052	
	144 120 120 120 Fax (200) 150-4502	
CALENCE CALIFOON RELICION	w.thentach.net	
CLEAT AFORMATION	PROJECT INFORMATION	ACTUADOS: SMIT 3
A to the first of the	TRANSPORT DESCRIPTION	7 SH 19 SH
75 de 2000	Manager   Andrew   Andrew	F. F. C.
	Tr. 1 2 4	2 :
がおいる うるとう とものは この	14 1 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Mary 25, 25, 25, 54, W. 181	
. 5 . 6.3		AGUISS
SCIUMEDIN ORDERNALTURE	4STPW4CFF	
	1.71 1.77 1. 1. 2.00 Table 10	
	が、近日、子の東京(Min ) 15 17 17 17 17 17 17 17 17 17 17 17 17 17	
•		0.4/7.0/5.0.0.2/1
e (Company) de la company de	ALC: AND	
		1. The second of
が発行が出行しています。	      -	j
!	24'6, 144	
STATES STORE	1	<u></u>
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
とのは これのかり	7	
<u> </u>		
'		1 1
	-	

.a. .a. .a.

ij, SLEANE CLISTODY HUST BE DOCUMENTED SELOW ELCH TIME SELECTED AND ESSENCE OF WOLDOWS COLFERENCE NEED ; | | 7 | 1 į ļ., -

-000 to 1000 to 1000 PATER TO MICE STREET CARCO SECTION OF A CONTRACT OF

٦,

Ţ

### **ATTACHMENT B**

CASE NARRATIVE SDG No. D4907 PCBs in Soil and Water Samples



### **CASE NARRATIVE**

P.W. Grosser Consulting Project Name: Canine Kennel

Project # N/A

**Chemtech Project # D4907** 

**Test Name: PCB** 

### A. Number of Samples and Date of Receipt:

7 Solid samples were received on 11/21/2012.

3 Solid samples were received on 11/21/2012.

1 Water sample was received on 11/21/2012.

### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: PCB. This data package contains results for PCB.

11

16

### C. Analytical Techniques:

The analyses were performed on instrument GCECD\_C. The front column is RTX-CLPest which is 30 meters, 0.32 mm ID, 0.5 um df, Catalog # 11139. The rear column is RTX-CLPestII which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog # 11324. The analysis of PCBs was based on method 8082A and extraction was done based on method 3510.

### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for FIELDDUP002DL [Decachlorobiphenyl(1) - 128%].

The Retention Times were acceptable for all samples.

The MS {D4907-04MS} with File ID: PC011417.D recoveries met the requirements for all compounds except for AR1016[150%], AR1260[342%].

The MSD {D4907-05MSD} with File ID: PC011416.D recoveries met the acceptable requirements except for AR1260[301%].

The RPD recoveries met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements except for the following:

CCAL01 (Data File PC011400.D, Peak AR1260 (2) Column2), Column1 met the requirement.

CCAL02 (Data File PC011420.D, Peak AR1260 (2) Column2), Column1 met the requirement.



Samples EP001B(12-18), FIELDDUP002 and EP020(6-12) were diluted due to high concentrations.

### **E. Additional Comments:**

### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

11

~•		
Signature		
Jignature		

### **ATTACHMENT C**

DATA VALIDATION REPORT SDG No. D4907 PCBs in Soil and Water Samples

### **DATA VALIDATION**

### **FOR**

### CANINE KENNEL WEST HAMPTON, NEW YORK November 2012 Sampling Round

ANALYSIS DATA
Polychlorinated biphenyls (PCBs) as Aroclors

Sample Delivery Group (SDG) No. D4907

**Chemical Analyses Performed By:** 

CHEMTECH Laboratory 284 Sheffield Street Mountainside, NJ 07092

For:

Andy Lockwood P.W. Grosser Consulting 630 Johnson Avenue, Suite 7 Bohemia, NY 11716

**Data Validation Report By:** 

Kim B. Watson Stone Environmental, Inc. 535 Stone Cutters Way Montpelier, VT 05602

**December 28, 2012** 

Reference #082074-F2012 PCB Validation Report\_D4907/kbw

### **EXECUTIVE SUMMARY**

Stone Environmental, Inc. (Stone) has completed the validation of the polychlorinated biphenyls (PCBs) as Aroclors analysis data prepared by CHEMTECH Laboratory, Mountainside, NJ, for 8 soil samples, and 1 field blank (FB) from the Canine Kennel site in West Hampton, New York. The laboratory reported the data under Sample Delivery Group (SDG) No. D4907 that was submitted as a single data package received by Stone (electronically) on December 15, 2012. D4907 includes the following samples:

Sample ID	Laboratory ID
EP001B(12-18)	D4907-01
EP018B(12-18)	D4907-02
EP007B(12-18)	D4907-03
EP008B(12-18)	D4907-06
FIELDDUP002	D4907-07
FIELDBLANK003	D4907-08
EP019(6-12)	D4907-09
EP020(6-12)	D4907-10
EP021(6-12)	D4907-11

The samples in this data set represent the sample collections from November 20, 2012 from the Canine Kennel Site in West Hampton, New York. A cross-reference of sample IDs was provided in the data package. The inches symbol was dropped from the sample identifications by the laboratory.

Findings of the validation effort resulted in the following qualifications of sample results:

- The result for AR1254 in EP019(6-12) was qualified as estimated (J) and the result for AR1254 in EP021(6-12) was qualified as tentatively identified and estimated (JN).
- Results for AR1254 in EP001B(12-18), FieldDup002, and EP020(6-12) were rejected
  (R) due to detection of these compounds outside the linear range of the instrument.
  Results for this compound were replaced with the acceptable concentrations from the
  more diluted analysis of these samples (EP001B(12-18)DL, FieldDup002DL, and
  EP020(6-12)DL).
- Results for other Aroclor compounds except for AR1254 in the diluted analyses of EP001B(12-18)DL, FieldDup002DL, and EP020(6-12)DL were rejected (R) because acceptable results for these compounds were taken from the original (less diluted) analysis of these samples.

• The low standard concentration for these methods supports the LOQ reported value as recorded on Form I but does not support the laboratories' method detection limit concentration in the analytical sequence. Since the concentration reported with a "U" on all reports is not supported by the concentration of the low standard which provides precision and bias during these analyses for identification and quantitation, results for all non-detects in all samples have been qualified as estimated (UJ). The low standard of the calibration curve performed for these methods supports the limit of quantitation (LOQ) concentration on Form I and not the MDL concentration; therefore, sensitivity at the MDL could not be assessed based on the data package alone.

"E" qualifiers were appropriately applied by the laboratory to sample Form I results when concentrations of target analytes were greater than the instrument calibration range. "D" qualifiers were appropriately applied by the laboratory to positive results from diluted sample analyses. The validator removed all laboratory-applied "E" and "D" qualifiers.

Documentation problems observed in the data package and on the chain of custody records are described in Section XIII.

The Overall Evaluation of Data (Section XII) presents the rationale for the decisions that have been implemented and are summarized above. The validation findings and conclusions for each analytical parameter are detailed in the remaining sections of this report and are based on the following information.

QC Criteria	Were acceptance criteria met for Contaminants of Concern?					
	Yes	No	NA			
Chain of custody (COC)/sample integrity/holding times	√					
Data completeness and Deliverables	√					
Holding times and sample preservation	√					
Calibrations	V					
Surrogate recoveries	V					
Laboratory control samples and reference materials	V					
Matrix spike/matrix spike duplicate (MS/MSD) results	√					
Laboratory method blanks/equipment blanks	V					
Field duplicate results	V					
Compound identification	V					
Sample results	√*	*				
2 <sup>nd</sup> Column Confirmation Positive Sample Result %D		V				
Calculations/transcriptions	V					

NA - Not applicable; indicates that either the QC is not applicable to this data set or is not required by the method.

Note: \*Samples EP001B(12-18), EP020(6-12), and Fielddup002 required a subsequent dilution for analysis. In this instance (e.g., a dilution) a result may be indicated as "rejected" to avoid confusion when a more quantitatively accurate result is available.

This validation report shall be considered <u>part of the data package</u> for all future distributions of the PCB analysis data.

### INTRODUCTION

Analyses of water and soil samples were performed according to US EPA SW846 Methodologies: 3510(water separatory funnel extraction)/3541(automated soxhlet soil-extraction) 8082A for the PCB as Aroclors analysis. The target compound lists included all standard target analytes for this method (Aroclor- AR1016, AR1221, AR1232, AR1242, AR1248, AR1254, and AR1260).

To the extent possible, Stone's validation was performed in conformance with Tier III guidelines as defined by EPA Region I, "Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses", March 1996. The data were evaluated in accordance with EPA Region II's Standard Operating Procedure (SOP) from the EPA Hazardous Waste Support Branch: SOP#HW-45 "Validating PCB Compounds PCBs By Gas Chromatography SW-846 8082A". "EPA's National Functional Guidelines for Organic Data Review" (EPA 540/R-99/008, 10/99) was also considered during the evaluation, and professional judgment was applied as necessary and appropriate.

The data validation process evaluates data on a technical basis for chemical analyses conducted under the contract laboratory program (CLP) or other well-defined methods. Contract compliance is evaluated only in specific situations. Issues pertaining to contractual compliance are noted where applicable. It is assumed that the data package is presented in accordance with the CLP requirements. It is also assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate and sufficient quality review prior to submission for validation.

Results of sample analyses are reported by the laboratory as either qualified or unqualified; various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. During the validation process, laboratory data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data validator as necessary and appropriate. Raw data is examined in detail to check calculations, compound identification, and/or transcription errors. Validated results are either qualified or unqualified; if results are unqualified, this means that the reported values may be used without reservation. Final validated results are annotated with the following codes, as defined in EPA Region II Standard Operating Procedures:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated numerical value is the sample quantitation limit. The sample quantitation limit accounts for sample specific dilution factors and percent solids corrections or sample sizes that deviate from those required by the method.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified. The R replaces the numerical value or sample quantitation limit. In some instances (e.g., a dilution) a result may be indicated as "rejected" to avoid confusion when a more quantitatively accurate result is available.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- JN The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

These codes indicate qualifications placed on the data as a result of the validation effort. They are recorded on the Organic Analysis Data Sheets (Form I) in Attachment A of this validation report and in the Validation EDD (*D4907 Excel\_withDataValidationCodes.xls*) submitted electronically as Attachment B.

All data users should note two facts. First, the "R" qualifier means that the laboratory-reported value is completely unusable. The analysis is invalid due to significant quality control problems and provides <u>no</u> information as to whether the compound is present or not. Rejected values should not appear on data tables because they have no useful purpose under any circumstances. Second, no analyte concentration is guaranteed to be accurate even if all associated quality control is acceptable. While strict quality control conformance provides well-defined confidence in the reported results, any analytical result will always contain some uncertainty as demonstrated in the laboratory-derived control limits.

The user is also cautioned that the validation effort is based on the materials provided by the laboratory. Software manipulation, resulting in misleading raw data printouts, cannot be routinely detected during validation; unless otherwise stated in the report, these kinds of issues are outside the scope of this review.

### **Detailed Findings of Measurement Error Associated with the Analytical Analysis**

### I. Preservation and Technical Holding Times (Sample Integrity)

The samples for PCB analysis were collected on November 20, 2012. The samples were received at the laboratory on November 21, 2012. All extractions were performed within the acceptable holding times for water and soil samples (7 and 14 days, respectively, from collection). The sample extracts were also analyzed within 40 days of extraction.

The temperature of the sample cooler on receipt at the laboratory, as recorded on the individual COC record was 5°C which was within the acceptable range of <10°C.

### II. Calibration and Instrument Performance

The samples were analyzed on a single GC/ECD system identified as GCECD\_C. The instrument was equipped with dual electron capture detectors (ECD). Data from both columns were presented in the data packages; the columns were as follows:

GCECD\_C: 1. RTX-CLPest I, 30m, 0.32mm ID, 0.5um df. 2. RTX-CLPest II, 30m, 0.32mm ID, 0.25um df

A. GC Column Resolution, Endrin, and DDT Breakdown

A GC Column Resolution check is not required nor was it performed for this methodology.

B. Initial Calibration (IC)

Two initial calibrations (10/23/12 and 11/23/12) were performed in support of the PCB analyses. The IC consists of five concentration levels (50-1000 ppb) of 1016 and the 1260 standard (AR1660), and a single mid-point calibration for the other Aroclors (1221, 1232, 1242, 1248 and 1254) for the PCB analyses.

Documentation of all individual IC standards was present in the data package. Initial calibration curves were <20%RSD.

### C. Analytical Sequence

The correct analytical sequence was followed in the analytical series for all standards and samples in this data set.

### D. Continuing Calibration Verification

Continuing calibration (CC) verifications were performed at the appropriate frequency and were acceptable with the following exceptions:

The mid-point concentration of the AR1660 standard constitutes the continuing calibration. Documentation of all CC analyses was present and complete in the data package. Continuing calibration verifications were performed for the PCB analyses at the appropriate frequency and were acceptable with the following exceptions (>15%):

Analysis Date	Analysis Time	Compound	% D Column 1	% D Column 2	Action
11/23/12 CCAL01	1050	AR1260 (2)	0.0	23.6	NAC
11/23/12 CCAL02	1621	AR1260 (2)	14.0	41.6	NAC

Since AR1260 exhibited elevated %D values and the %D values on the first column were acceptable, no data was qualified on this basis.

Documentation of independent calibration verification (ICV) standards were present in the data packages and presented in the raw data only and appeared acceptable.

Target analytes in the reported CCV standards were within the RT windows established during the IC.

### III. Blanks

Results for one water matrix and one soil matrix MB were reported with each extraction batch in association with the samples in this data set. No target compounds were reported any of the MBs.

A field blank (Fieldblank003) was submitted with the samples in this data set. No target analytes were detected in the field blank.

### IV. Surrogate Spike Compound Recovery

Percent recoveries (%R) of the two surrogates (tetrachloro-m-xylene [TMX] and decachlorobiphenyl [DCB]) in the PCB analysis were correctly reported on the Form II-like summaries, and were within acceptance limits for the samples in these data sets, with the following exception: the recovery of DCB in Fielddup002DL (128%). Since recovery of the other surrogate TMX was acceptable, this surrogate was acceptable in the undiluted analysis, the %recovery was just marginally above the laboratory limit of 125% and well within the validation limit of 150%, no data was qualified on this basis.

### V. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample EP007B(12-18) was used for the MS/MSD analyses The spiking solution contained AR1016 and AR1260 in the PCB analysis. Percent recoveries and relative percent differences (%RPD) between paired recoveries were reported on the Form III summaries within the data packages. %R and RPD results were correctly calculated, accurately reported, and acceptable with the following exceptions:

Sample ID	Compound	MS%R	MSD%R	Dup or MS/MSD % RPD	QC Limits	Action
EP007B(12-18)	Aroclor 1016	150	137	0	40-140/20	NAC
EP007B(12-18)	Aroclor 1260	342	301	13	60-130/20	NAC

NA=Not Applicable, NAC=No Action Est. = Estimate (J, UJ) associated sample

Since the recoveries of the AR1016 and 1260 in the MS/MSD analyses were above the limits and these Aroclors were not reported in this sample; no data was qualified based on the high recoveries.

### VI. Field Duplicate Precision

Sample Fielddup002 was identified as a field duplicate of EP001B(12-18). Paired results were acceptable for the AR1254 results on both columns at less than 16%D (<50%RPD for soils, Region I guidelines).

### VII. Performance Evaluation Samples (PES)/Accuracy Check

Zero blank PE samples, commonly known as laboratory control samples or blank spikes (BS), were performed at the required frequency and results were provided on Form III-like summaries. Recoveries were within the laboratory-derived acceptance limits for all the blank spike analyses.

### VIII. Extract Cleanup

According to the extraction bench sheets, sulfuric acid cleanup procedures were performed for soil and water samples. All samples and blank spikes were cleaned according to the methodology and the surrogate compound recoveries were acceptable to reflect the cleanup efficiencies.

### IX. Target Compound Identification

Reported target compounds were correctly identified based on the best fit to the Aroclor pattern in the standards with supporting chromatograms present for all field samples in this data set.

The second column quantitation was in agreement with the first column in all samples (<25%) for the PCB concentration in all samples with the exceptions of EP019(6-12) at 45.5%D and EP021(6-12) at 72.7%D. Based on the poor reproducibility between the primary and secondary column quantitation, the result for AR1254 in EP019(6-12) was qualified as estimated (J) and the result for AR1254 in EP021(6-12) was qualified as tentatively identified and estimated (JN).

### X. Compound Quantitation and Reported Quantitation Limits

Target compound concentrations and quantitation limits were correctly calculated and accurately reported including adjustments for dilutions and percent solids. All samples were reported on a dry weight basis. All samples were reported correctly and the higher of the two values as reported on the Form X was reported on Form I. It should be noted that on the qualifier page the P value indicates that the lower of the two values is reported. This was not the case and the higher value was reported in all instances.

The laboratory reported all non-detect concentrations to the method detection limit (MDL) as recorded on Form I along with the laboratory limit of quantitation (LOQ) and contract required quantitation limit (CRQL). An MDL is the minimum concentration of a substance that can be detected with 99% confidence that the analyte concentration is greater than zero. The low standard concentration for these methods supports the LOQ reported value as recorded on Form I but does not support the laboratories' method detection limit concentration in the analytical sequence. Since the concentration reported with a "U" on all reports is not supported by the concentration of the low standard which provides precision and bias during these analyses for identification and quantitation, results for all non-detects in all samples have been qualified as estimated (UJ). The low standard of the calibration curve performed for these methods supports the LOQ concentration on Form I and not the MDL concentration; therefore, sensitivity at the MDL could not be assessed based on the data package alone.

Results for AR1254 in the original analysis of EP001B(12-18), FieldDup002, and EP020(6-12) were detected outside the linear range of the instrument. These samples were appropriately reanalyzed at subsequent dilutions. Results for AR1254 EP001B(12-18), FieldDup002, and EP020(6-12) were rejected (R) due to detection of these compounds outside the linear range of the instrument. Results for this compound were replaced with the acceptable concentrations from the more diluted analysis of these samples (EP001B(12-18)DL, FieldDup002DL, and EP020(6-12)DL).

Results for other Aroclor compounds except AR1254 as noted above in the diluted analyses of EP001B(12-18)DL, FieldDup002DL, and EP020(6-12)DL were rejected (R) because acceptable results for these compounds were taken from the original (less diluted) analysis of these samples.

"E" qualifiers were appropriately applied by the laboratory to sample Form I results when concentrations of target analytes were greater than the instrument calibration range. "D" qualifiers were appropriately applied by the laboratory to positive results from diluted sample analyses. The validator removed all laboratory-applied "E" and "D" qualifiers.

Sample-specific results for all analytes may be found on the laboratory-generated Form Is for each sample. The laboratory generated Form Is have been annotated with the data validation qualifiers as defined in this report and provided in Attachment A and electronically in Attachment B.

### XI. System Performance

As evidenced by opening and closing calibration analyses, surrogate recoveries, and blank analyses, the GC/ECD system used for these sample analyses was within control during the sequence of analyses for this sample group.

### XII. Overall Evaluation of Data

Findings of the validation effort resulted in the following qualifications of sample results:

- Based on the poor reproducibility between the primary and secondary column quantitation, the result for AR1254 in EP019(6-12) was qualified as estimated (J) and the result for AR1254 in EP021(6-12) was qualified as tentatively identified and estimated (JN).
- Results for AR1254 in EP001B(12-18), FieldDup002, and EP020(6-12) were rejected
  (R) due to detection of these compounds outside the linear range of the instrument.
  Results for this compound were replaced with the acceptable concentrations from the
  more diluted analysis of these samples (EP001B(12-18)DL, FieldDup002DL, and
  EP020(6-12)DL).
- Results for other Aroclor compounds except AR1254 as noted above in the diluted analyses of EP001B(12-18)DL, FieldDup002DL, and EP020(6-12)DL were rejected (R) because acceptable results for these compounds were taken from the original (less diluted) analysis of these samples.

• The low standard concentration for these methods supports the LOQ reported value as recorded on Form I but does not support the laboratories' method detection limit concentration in the analytical sequence. Since the concentration reported with a "U" on all reports is not supported by the concentration of the low standard which provides precision and bias during these analyses for identification and quantitation, results for all non-detects in all samples have been qualified as estimated (UJ). The low standard of the calibration curve performed for these methods supports the LOQ concentration on Form I and not the MDL concentration; therefore, sensitivity at the MDL could not be assessed based on the data package alone.

The checklist found in the Executive summary outlines EPA Region II's HW#45 SOP requirements.

### XIII. Documentation

The COC records were present and accurately completed for all reported samples in this data set and the data package was complete with the following exception:

- Corrections to the COC indicated Improper edits were made on the COC records: any
  change in an entry should be made so as not to obscure the original entry, by the
  person making the change striking a single line through the entry and dating and
  initialing (signing) the change.
- Data in these packages were reported to the MDL rather than the LOQ as listed on the Form I summary. These methods require that the laboratory support the reporting of data to the low standard of the calibration curve. Therefore, for future sampling rounds the laboratory must report all data to the low standard of the curve or the LOQ rather than the MDL. Data that is reported to the MDL should be qualified as estimated (J) since the MDL is the concentration for detection not confidence in quantitation. If the laboratory chooses to report to the MDL than a blank spike at the MDL concentration must be performed with the other blank spike to determine sensitivity and accuracy at the MDL on a routine basis.

These issues do not directly affect the validity of the analytical data but could be problematic if the results were to be used in a litigation situation.

This validation report shall be considered <u>part of the data package</u> for all future distributions of the PCB analysis data.

### **ATTACHMENT A**

ANALYSIS DATA SUMMARY SHEETS (Form I)
SDG No. D4907
PCBs in Water and Soil Samples

### Report of Auglysts.

1 0	1.9 Children C	6 t - 4 t	(Marchine)	1. 51%
Psyck.	to the second same (		Links Mooney 1	1. 20-12
County Supple CO	11008124		5.X X·	Seeds.
1.6 m. 54.8%	(0) (149)		Mem	<b>∨0</b> (),
Maryania Digitari	54(4)03.5		1,44,54,5	Here is a second
April 4 W. Ch	JAN19 1	4· ;	1 mH 5 m	0.00
$w_{i,j}(A_{i,j}, \ldots, a_{i,j}), \ldots$		<u>:</u> '	lez	PC ≺
Lorente Opa			legisles: Vitalis	ı
em, Lack	. 4	pro ses		
La Grande	:. *	7rq Hei	leer Allingard	1 et Barrio
10.5 80.05	I	0.774-12	10.73%2	<b>981</b> (11)

r Jin N., pilya	lur-tsu)	Leny.	Он-Метг	<b>4</b> (4).	[ []]	ртуцик, ро	UL IIIa
(April 5							
20.56 (0.3)	Spa, 2 (100Å)	<b>*</b> •	1:	5.6	τι	.7	40,000
24-76-7	anor is 4177;	τ. ~	.l ,	5.5	T.	.*	Called
- 1. 11 N	Anic 14 (717)	д V		<i>: :</i>	× (		Calk 2
Salve S. III	Application 2004	χV			8.0		عظاعا
17.75.24	m-1, 5/1248	5.5		6.8	* 5	.7	an Ne
$(v)^n$ , $(v)$	9000 - 22 Mg - 32 Mg	2150		1:	* >	.7	-A35-2
64. 32 N	Aroc or 1,040	z ·	.1	0.2	# 5	-	-876.8
ST NUMBER OF ST							
#17 1. x	teta Alfred trivyleris	77.7		1a - 124	•		38k 37
H40, 24 C	(Sec. Add 1 - + Adding of	7  #		144 - 171	7	, IP4 *	2,976 - 20

 $S_{\rm c}$  , which we describe the constant of the expression of the expression  $S_{\rm c}$ ring on the of the agent were forced in give all the Control of the filt.



Unit Terrol Page (sec.)

 $<sup>\</sup>Phi(1+k) = \{1, \dots, 1/\kappa\}$ 

Str. - Mared Research Ent.

 $<sup>[\</sup>underline{\mathcal{M}}^{(n)}] = \{[p] \mid x \in \{[P]_{\overline{\mathcal{M}}} : x \in q\}\}.$ 

L=0 ; by Lieban 2) and details  $\kappa$  is expect

article in programme to the control of the con-

 $Q = A^{\prime} \partial Z + A^{\prime} \partial Z +$ 

gl = 레.) V. .ㅜ

 $H = \mathcal{H}_{\mathrm{ext}} I_{\mathrm{total}} = I_{\mathrm{total}} I_{\mathrm{total}} + \mathcal{H}_{\mathrm{ext}} + \mathcal{H}_{\mathrm{ext}} = V_{\mathrm{ext}} I_{\mathrm{total}} + \mathcal{H}_{\mathrm{ext}} + \mathcal{H}_{\mathrm{ext}}$ 

<sup>.</sup> The same is the first two sets of a fitting  $\rho_{\rm eff}$ 

Name in cooler of Q<sup>2</sup> for all a

4.4	PW Conservation	ı.	resert been	
Entropy :	Consult masel		trock Markers and	Dec
Commission to Ob	1345 (19.1) 17.20		Subject to the subject of	0.00
(although the first	Topic 7 (0.04		Alamos	5000
the production of	NW-0-814		n. Mexical	i Domer
$(x_0) + w(W, Y_0)$	je m i test je		Cast Mid-	1000, 20
See August Ma	1		164	It I
Congrigor Type			en i chicaloren	
C.1 Feron	1.9	11.A		
Long Callege	De et on	hap to se	at en end'y ton	ng bada 105
100,049 [	::	0121-12	11/21/15	propp

t plan is madiga	Para-etri	1 444	Qualitar	1114	Latto	100% #	μ1. (-μ. <u></u>
F4.R+.d.35							
7677 1. 2	$\Delta m_{\rm S} \approx 10^{13}$	<b>75</b>	.17: •	ir.	I.	i=:	-1 % e
101 4 25 2	April 197	8.9	1:	ļ,	P.		A 67
mana , ja }	April 1262	z;	í; >	17	41	.73	A. A.A
8 - 2 + 4 - 2 + 3 + 4	$A_{11} = 12.47$	x;	140	14		17	. Y.z .
100 13 (MA)	Appl 54, 12 to	μs	1.23	: ::	<b>þ</b> –	1772	ALK C
manifer to the	A66 90 (1251)	2550	10	14	h.	173	LE KE
BB 79-27-5	Anne 6 de 1744)	¥5	176.1	i.,	47	12.	a, Ke
MinBriels (Frs							
1 <del>1 1</del> 4, 5 + 1	$(and a \log a + a \log a)$	[8,4]		100 - 100	۸	$\Delta_{2}^{*}(t)$	878. W
77.5 (7)	Design 14 and activities	24.5		923 - 12	4	1:::-	578.120



No para Normania

<sup>#70</sup> in the state of  $N_{ij}^{\rm soft}(A) \sim N_{ij}(A) \approx (2\pi N_{ij} + 1) + 1 + 2 + 1$ 

<sup>(</sup>Altertania) Bosconi المراجعة فالمحارث فالموسخ ويزارك

 $x = (-1) \log \log x^{-1} \frac{1}{2} \ln x^{-1} \log \log x^{-1} \log x^{-1} \ln x^{-1}$ , which are the proposed of the second of the second  $\mathcal{O}^{\mathcal{O}}$ 

Despaired U.S. growing in the extremely a forest

<sup>.</sup> There of Make

<sup>(</sup>In the System of Control of Mark 11) and

Note that appropriate and second with the second of

No serve of the PATE for

D 34 166

Advance or removed with the more of the behavior of the property.

 $<sup>(\</sup>Delta x_i)$  for the simple of  $y_i$  and  $(\Delta x_i)$  which do not set (-1) and (-1)

### Region Los Amadesis

, # a · ·	Marchania Com	:rg	family / with	1020.00		
Program	t – spika od		No. Parameter	11.71.42		
Construction No. Co.	414.00g (2419)		Mission	0.6900		
Cer Narrani P	(9.624)		Males	A* 3		
Monthly Market	9W+-824		Approximation	D.	New Lond 2	
No transfer to the	in Au	4	-4 6-0	lococ	•	
Sc 1014, 64 %, 1		4	l r	POH.		
Conservation 8			Page 19 to the second	•		
rate (Sec.)	: 0	II NO				
- 710 sqc 2004	[*e	Filip Curk	[the Amarya C	, 1	ер Бексий	•
BC DOG	1	192917	1.27.7	1.	144.67	

1.45 34-161	7eaw	( 901	(postale)	MIIL	1150	The Property Miles	l -in
# 4996.7TN							
[257e) 7	April 19 516	9.4	11	1.8	45	19	-, X7
010 W 24 2	$\delta(s_N) = \mathbb{C}[0]$	4.4		5.5	25.00	.¥	Le No
100 (100 %)	Mod of 1392	1.3		5 :	<b>4</b> !	.9	84 5.5
segre of e	V10430 1247	1.3	Ē	18	9.5		LA NE
(25.12.24 <b>6</b>	eng Sak 1746	g n	•	<b>7</b> ·	9.5	.9	An Thin
00023-06-1	Anadoral, St	A+		1.7	5.5	.^	
100 (0.5)	Assess tos	4.5	1 1	1.6	* 5	lų.	1. 64°
STRUCKATES							
657 W S	Concerning an expension of the	77-1		55	P.	1351 -	80 A 17
\$15 (54))	(1982-64 refer <del>énce</del> d	• •		10 - 2	<b>,</b>	75%	80.4 (0)



 $\xi_{i} = \{ 1, \dots, \frac{n}{2} + \dots + \frac{n}{2} \}$ 

 $j_{1}(\mathcal{K}) \leftarrow \{-1, -3, \ldots, 2\}$ 

suppose procedure for

 $\|g(f)\|_{L^{\infty}} = \| - \| \operatorname{ad} g(f) \|_{L^{\infty}(\Omega)} d \operatorname{ad} g.$ 

 $\rho = W_{0} \log \frac{\pi}{2} g_{0} \log 2\pi G_{0}$  , where G kings

 $p_{i}=\log (2a_{i})$  , and  $2p_{i}$  matrix for the local of the distribution of

, propose a constraint of  $\Delta = 0.0111 \pm 0.04811$  .

 $t_0 = \log (a_0) \log a \approx 0$  , where  $a_0 \approx \frac{a_0 a_0}{a_0} \approx 0$  . Where the  $a_0$ 

- I fat marka ± i
- h = max(left) and  $\pi (\text{New constitutions}) (\text{New constitution})$
- $S = S \times \mathbb{Z}_{\geq 0}$  , while the School of the expected
- $\sigma = 0$  , and one will also also  $Q^{1/2}(\theta) = 0$  .
- 25 Jan 21 W.
- $x_{ij}$  . Because  $x_{ij}$  , such that when the  $x_{ij} \in \mathbb{R}^{n}$  in the  $(1+x_{ij})^{n+1}$  is a  $\alpha$  at the gradient of practical order to decrease an expense



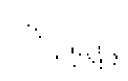


, then the term of the term  $X_{\rm M}$  and the term  $X_{\rm M}$ 

### Report of Analysis

r'. <del>, .</del> :	z Wishes (Co	er v Nord	from the langet	$T \in \mathcal{T}$
'irr.'	Carlow Newson		found to a next	1.27.3
Carl Sample 1	Hoffeld (#	ı	s: € i Na	(Mary 1
er Sanch 15	(1.00 To 1.0		ML	500
ماه فلاستان الد	59 W 17 Y		Published Ser	Mark (Casaline)
Service Market	19.08		994 N7	5000 km
A. Physick		ı'	IV:	·. I!
Date of the second			Symmetric services	:
Shift beauti	1.3	pr: Ma		
eg #715 teatrs	P., 64	Paperton	Fire systems	= <sub>0,0</sub> · , <sub>(40,0</sub> · · · )
etholystice		(1971-12	1 (35/12)	Supplied PA

1.155	Сепишент	ļ w	15.176	чы	ROD	tosp.casp	: - <sub>'</sub> n
- TaRua'da							
26.14 11.2	Arris, or 100a	n a	•	ነ 4	4.5	,	⊾; K∀
1 + 4 .74.2	A480 X 41771	Y 7	ı	. 7	. ,	.0	L. K.:
4, 57	A.A 247	0.4	i	e J	W 5	.\	Car No.
93167251 A	Aug. 1282	6.4	. :	17	¥ 1	.\	-477
2070 DW-4	Acres 1 244	m 5	: 7	7.2	r ·	.9	ΔÄτ
g (frejistre)	Section 204	141		1:	63	10	_6 %.
State at a	No. 54 1267	u t	· [	2 5	93	iu	42.5
OF BOOK STATES							
177 On 1	The section of the first	7.		I' i-	•	1.7.5	× 61 50
2 su 2= 1	$\{b_{i,k,j},c_i\}_{i\in I}$ which $c_i$	12.5		_ (, : . : <u>.</u>	4	QV'1	- x7% - 54





1000 menter judimente Momente describitorio 1000 menteralisatione

Fig. 1. Confidence of the second of the secon

ignitional weather the factor and his ending increases.

- in No aschistic
- and standard by the Association 486 Not Blanch
- survivation and the foreign of a first period.
- State Commence of the sec-
- III III read
- If we can also as a fine subsequence of for groups of final contents of experiments.

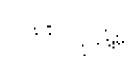


(200 kg) gapan sa kalandar kalandar 1900 Maria Parigramon Pilin Control de California (1902)

### Report of Analysis

1.6	,18 (919) N	<b>₩</b> ?	New York Control	9900
Time (w.	Carrie Berkel		law Bermet	1147-115
Completely in the	$\{j_1, (\mathbf{x}_{\mathcal{F}})_{i,j}^* : \mathbf{x}_{i}$		~X15.	0H 700
Citis insulice	or with po-		Utilia	Note
Staty on Walking	$\mathcal{O}(\mathcal{M}(\mathcal{A}), T_{\mathcal{A}}^{-1}(\mathcal{A}))$		4. V artis	7 .xxx in .
ag i kaj Wij Ya	olof Lar	F	I -d will	3000 .B
$a_{n}=A_{n+1}\otimes a_{n}$		₹.	l a	aral
1 каж во дре			leptonia vakan	I
Colf Land	7.2	al way		
till ingebuie	G. G.	Page Birk	Long Personal	Front Tier
(70,040,0	•	(130.12	10,00	1006.76

C.A.s Namba	[VIII POPE	l <b>—</b>	Q-odfor	51.70	Ric	Trey hours	5 de (4
1380-425							
12474 (	and the spain	:	i	1.	•	: <b>4</b>	<u></u>
a - 4 - 75-7	X 32 177	•	:. :	1 -		:4	na Ka
1.141 4.3	AUG 1242		10.5	>		15	2 60
9123 Q (21 Q	A 1561 11 ( 24)	÷.		<i>:</i> •		:4	$(2.3000 \pm 0.000)$
#26.27.26.45	5 C + (24)	•1	1. :	٦.		;T	rug Ka
##\$\$\$\\	5 (254)	-1		1 -		;*	φX:
#250 A2 5	$A = Q^{*} = Q^{*} Q^{*}$	i	i: :	4.4	•	: 4	sa Os
да инсицация							
A COMP	generally an electrical	22.4		Ju Jr-		::::"-	MW 00
25.5 Per 3	Owneybia - Nephro y C			1.3	<b>.</b>	NUM-	N(m) 20



<sup>- 7-</sup>p 45/2 . . . . .

 $<sup>(\</sup>mathbf{D}^{\mathbf{G}}_{\mathbf{G}} + \underline{\mathbf{G}}_{\mathbf{G}})^{\top} (\mathbf{G}^{\mathbf{G}}_{\mathbf{G}}) + (\mathbf{G}^{\mathbf{G}}_{\mathbf{G}})^{\top} (\mathbf{G}^{\mathbf{G}}_{\mathbf{G}}) + (\mathbf{G}^{\mathbf{G}$ 

MD. - Mt. A.C. Asset A. Co. J.

With the Historia

und the section of the first five section for the section of the s

The first of the first of the about di-

<sup>,</sup> a result ( ) is a figure of the proof of the  $\hat{\theta}_{ij}$  . The second state of the  $\hat{\theta}_{ij}$ 

the industrial CONSTRUCTION (1997) A the treeting in result.

To Francisco (Miller)

The Associational Processes of Wide Parks

An index most hippowerders are all

Salas and College Action

te sales e

in a factor of constant the section of a set of product the  $\alpha$  , which is problem to produce the set of the section of  $\alpha$ 

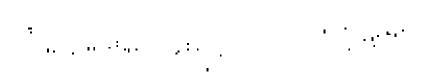


and the graphical straight of the second control of the second con

### Rapport of Apply six

. rul	ew er en	م ≅. صا	Land Owkers !	1 8713	
E · · · · · · ·	lo a Kales	•	Date of Land	1.70.13	
ata e ca por 18	(11.0100036)	e;	STACKA	Live 4.7	
CAN Sample 1	(01x +1.51)		late and the	÷.:.!	
Anastage Mallina	VW #0474		Supplement.	, '	DUME: F
Sample Service	5-15 1	10 m	that No.	1.227	-:-
San Aligary No.		()	.1 %	80	
Lance was been			Lymbox Mills	:	
ation beauti	ני	$p_i(t) = \sigma_i(A)$			
Lights California	el ann	Pag-Priz	lag en la r	ake ba	. III
1500 at #4500		9170 (2	$\mu \nu \nu$	y(1-0-v)	1

Carl Name -	Person :		l 🕶 r	tjunistini.	Stort	1 190	10978 808	i'-k-
Talled 1s								
12774 . 2	Accepted 1990		•		1.5		K	R.g
BB (4.74.)	M N 771		•	•	7.5	*	18	er Ky
8884   25 N	Mr. 1. 15 (2.37)		ú		1 •		:x	ي الاي
Altertian i	Ane747		Q	•	J >		:x	L. K.
12672-2004	April 11045		u	•		4	:.4	.γ k t
Ball 1977 (Charles	April 10 (25)	1 !		P .	. •	ь	•.я	1 = FT
100% PD 5	A 14/3 4 (20)		-1	I	4 1	•1	:3	1633
s//BDONEAT//S								
UCC 06 in	renealth contrigues		717		10 18-	-	::	9 <b>49</b> 0 (2)
2001/24/0	(Astro-Norve (Sector)		1.3		177 12	<b>)</b>	(pr)	569, 27



. A BOX SIZE

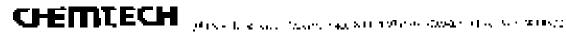
Orling Transport (Figure 1922) And The Committee Committ

L. A Mac Landon College of Mercel Mercel

15 Company of Season reported to the construction of the construction of the construction of the construction of the construction.

Compared to the second of a second property with

- L. Foresac (Make)
- Linearization of Accessed Method Miles
- n manus yang terdak kecamban yang be
- Marchael with mile
- 1 1.2.40
- If a constant as a substitution of the grant of leaves.
   A constant of the substitution of the substitution of the substitution.



3221 ( 3.91 ) 1 3.10

### Report of Asiabilities

. · <b>.</b> .	grading a gradient and the	2		.1271 . 3.	w I	j. 5. 10			
ču et.	ur y Sew			dec Ross	k J	91.01.02			
Comercial of the	$(p_{1})^{-1}\theta_{1}(20000)$			No. (No.)		HI#1"			
Non-rettle	may-11,670M			Hone		<b>~: -∤.</b>			
a alice. Nextice	aw CJANA			16.59 F 1		_	Teach etc.		
Serve Warf	P (, ) : +4 1			eet V/.		!	L:		
N. A. QUARTE		I		129		i7.15			
Birth CoM. 41,4				Papacities N		ı			
360	1.9	<b>M4</b>							
ho 1931 is.	1 . Nat	Beptus.		Divasión algun	, <b>-</b> *	٠.	oracide (II.		
Michigan Co.	Ð	1.771.7		107597		71	8001		
. 15 Nevan	Pagaradés			tyselfler_	भज	l sil i	Didyal and	i ege e	_
LANGETS									
126/3/1167	GALL & L. IN		21	j:i/	Je	ja v	195	- E N.	
1111112 (8.2)	Anador-0723		Ai	Ġ)	1 %	Ye I	: 5	12 % ,	
1004 1005	Analysi (212		3.3	1 1	Ţ	٧.	• 5.	44, k./	
A Barrior Zaniin	$\lambda_{\rm BNN} \approx 1342$		5.5	- S	•	04)	-	GE 1. 2	I.
, 1 x 77 x 354 x y	Aug Ar 744		VI.	. 15 :		117	14.	Car No.	
					_				



100

· pr

1112-

. 57 1

Le Re

480

574 7

N442 - 31

111974 - 1

110564-3015

 $\P \cap \mathbb{P} : \mathcal{S} \times \mathcal{S}^{-1}$ 

(9.001, 12.0)

MIRRIMINATE.

 $\rho_{\rm Apper}(k) + 17.54$ 

Appeals a 12 or 1

Control Merchanism Asset

Occupios Silendali.

- $p = A_{\rm BH} \log p_{\rm e}$  and  $p \approx p_{\rm e} \log p_{\rm e}$  denoted in the Hermitian
- No Property of the Good Commence
- Mickey and of Quantity

4:-

الله المالية

; 5

E = 1.4 +

7:3

26.6

-51

- 1 D. s.e.
- The Lagrangian regular lags where to Matrix processed by the and any particular deposits on determinant of the fact, in

<sup>\*</sup> York Service

emploitement (exchange)

NOS CONTRACTOR AND A SE

sidificial conditions are a

and the waterson but the end from the

 <sup>(</sup>i) Section 1991 to the results of the first

properties and the warmers of the extension

المنافعة الإنسانية والمنافعة أن يراوي من منافعة الرياض إلى والمنافعة المنافعة المنا

 $J = \{(n, 1) \in \mathcal{F}(M), k \in \mathcal{F}(M) \}$ 

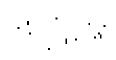


Carrier Co. 2 Suggest St. 1994 and Scientific process in the control of the Course W.

### Regard of Attack 28

1. pt	Lw (Long)	Single-	to a managed	1.25 (2)
de rep	The de Arrest		Los Tracas	27.7
Specificance (C.)	(11.115) , 454	k 1.3	SIX(N)	(3-19)*
ا المارية بالمارية المارية الم	:04 PT 15		War i	WA:10
A Late Li Malko	N 19/52 N		North Car	100 Onzemb
والكافية الطويدية	494 9	in the	Per Art	TSSE J.
\$415 (0.00)		.1		Py II
Samuel Tage			Liverson Soharik	:
26,570	10	ar 5		
Figure Science	On a w	Fep 144	Dec Associated	Peop (Second))
(Combine	:	11.71.12	(1-2) (1	210.28
Samuel Tepe (2), Special Figure Schools	Out of the	ता 5 क्षिक्रीस	l se sentidad d l se, ascreso	: Pop (Snort))

U 97 Nya-14-	Content	la z	- ju ile≅es	sioi	RHE	100377.85	)l. Leo
Logical dis			_=				
15.37.00	$A_1 \omega_1 \cdot \omega_2 = \omega_1^2 A_1$	v 24			<b>?••</b>	Obj	et la
III × 25 C	$Ans_{i}(\chi_{i}, [5.2])$	0 <u>J</u> a	•	7,05	5.26	0.57	. ا م
ma na plaga ji	Ann April 257	at 🏋	: :	1.55	. 26	. •:	<b>-r.</b> ∴
4 (gap (1) 2) (1)	A 15 A 14 1062	41,74	1 .	797	2.26	. •:	<b>-</b> 7.
Call St =	A 5 x 4 x 1240	< 25	1 1	0.74	0.76		. <del>.</del> .
and the	Angle 1204	-, <u>1</u> -	1	0.00%	0.26	3.77	. <del>-</del>
1100-0-505-5	$(0, 1, 2) \approx (2/2)^{n}$	4.5	:- =	0.094	0.75		<b>L</b> .
NI.85 50 x10 ×							
Not the second	Schedelen – Frankris	75 1		10-10	1	.21	S. 20 30
3950 24 T	Oxide children	150		41 101	î .	941	Si C (5)



<sup>1</sup> New Tage (New Y

fally in Hall typical ter-

Wild Marks Notice Lead

A 10 Control Organic

 $<sup>\</sup>sim 400 {\rm geV}$  and  $90 {\rm kmpc}$ 

 $t \in \{t, t_{\theta_0}, t_{\theta_0}\} \setminus \{0, 0\}$  , the formula for a fixed 2

 $<sup>\</sup>chi_{\rm c}$  , and the constant  $\chi_{\rm c}^{\rm t}$  ,  $\Delta_{\rm c} = 20$  , while 20 , and 20

 $<sup>(</sup>y + i\omega)_{x \in \mathbb{R}^n}$  in the control x and x . We first x therefore x

California Vision

distributed area of the Artist State Michael State

Similar popular become the bank.

r=0 ) in a contradict of Q(r) , where

<sup>9 .64.8</sup> 

If describe the experience of a few points of a few points of a few points.

2.5	filler (yet right) was	· *	Double Misson	11761.		
педы:	Funda Mores.		Die Rokinst	*** ***		
theorem, < 30	110 (900-02)		NOC NA	102011		
Line Surveyor 10	IAM (Q).		Maa	NHU		
no new Web 16	sweet, a		7.7% of 26	•	Course?	
North Arthri	52.06 Linear	c	1 <b>4.</b> 1 56	1.66,7,	.5	
No. of China 87		.al	tre	100		
Fred Studen Style			a y aren to tello	•		
CACCLASA	3.0	(4) 6-4				
A. Hoga Osen	19.1 A.A	(magalant)	1000 YEAR ALIA	ī	$_{i,j}(Q):=\{0\}$	
e(w), w(w)	i	0200	99.55 14	ī	(lighter)	

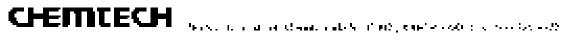
at un Nobel Esta	Perende	Coar.	Quita <b>ller</b>	Mill	Figh	CHIQ17 KOL	1 = ::
F19001.15							
.::-2:::.1	A100 1 1906	•		3.7	•1	. 4	up Cu
.1.64 % 2	Asset 5 x 2.00	5		4.0	v	14	. E R
Hawkings	$A(t) = 1.2 \times 2.2 \times 2$	9	•		· •	15	
programa (Comme	$A_{2}(-1) \approx 12 - 2$	٧	1 .	37.	<i>;</i>	14	10 No.
12:10:25%	Apr., 10.   \$4.0	ı.	1 !	1:	4	14	. E
110-25-65	Ann. 50: 1254	1:		11	4	14	et, 4.7
11,541,9275	No. 30 (2)	11	1 4	4.4	4	1 •	- X,
of addition to							
\$11.000	Table (Magneton) West	<i>51 3</i>			Ų.	i vita	87A 79
2201-24-5	(Not also ordered or p)	19.6		53. 2	•		87X 20



- э New Диния и
- $((x,y_{i_1})^{-1})^{\frac{1}{2}} = (x_i,y_{i_1},y_{i_2},y_{i_3},y_{i_4},y_{i_4})$
- $S(G) = M_{G}(\log G) \log G + 1 \leq \frac{1}{2} \frac{1}{2}$
- of Marian Carriers
- No. 2 Tracker Unificient Pages
- B. Hawasi. 1946 On forth file (ca.):
- LI CONSTRUCTOR STATE OF THE CONSTRUCTOR
- age to a large CC sign by the ecological by a reach table to the tells.

- J. Harman Market
- $P = \Delta_{BA} \operatorname{sym} (E_{A}) \otimes_{B} \operatorname{sym} (A_{A} \otimes_{B} A_{A}) \otimes_{B} \operatorname{d} A_{A} \otimes_{B} \otimes_{B} \operatorname{d} A_{A} \otimes_{B} \operatorname{d} A_{A} \otimes_{B} \operatorname{d} A_{A} \otimes_{B} \otimes_{B} \otimes_{B} \operatorname{d} A_{A} \otimes_{B} \otimes$
- Note that the provide substitute of a function of  $\boldsymbol{\theta}$

- is the area of the disable that and for process for a activity of thems a service to the solve a unit of the .



t ex	i e Causal	uma 1 gy	Desire Laws	11.8915
Project	0.000	:	Dize Kriz and	107-15
$t \mapsto n \cdot \operatorname{Ne}_{\mathcal{C}}(h)(D)$	$1386 \times 12$		Silber See	Sec. 1
Later ep., 1	(H a 7 06		etan u	971
Annay Name	5/48/4, (		falks car.	year.d
Service William	Ø 21 - 124	t j	<b>=</b> 1944	16400 :
(a. ) Magny and		.!	:•	ard.
Companyor (spe			endel er <sup>a d</sup> ere <b>mit</b> te	:
1.20 February	• •	Pri NA		
$\delta(p) \approx \exp(p) \; \; .$	3000	Fighter	Charles all contr	The Albert of
William Ju	I	:17 :2	1979 18	Likanis

4 44 Se- 141	Papamelin	rX <b>e</b> r.	دا خطيًا	ЧЛ	14 -	TON/11 dept	Lega.
TORGLES							
10.30	Aneder 1800	•1	1.5	7.5		<u> </u>	Par No.
HH = 25-2	$A_{i}^{-1} = \{A_{i}^{-1}, A_{i}^{-1}, A_$	4	l :	; 7	•	{A.	<b>4.</b> (.
88 12 ji. 2 ji. 4	Arra, Sur 1037	•1	ι:	•	4	:x	wij Alif
Karana Separa	Another 1247	•1	ι.Ξ	J 7		:u	$\omega_0(X_0)$
·5, 11, 51 /	esa Ag. (Des	w	ι.:	7.7	7	:5	<b>_</b> C.
■ 71 <sup>3</sup> 1 × <sup>3</sup>	new John 17 yılı yılı yılı yılı yılı yılı	, ASIA	11 7.		7	::	e C.
	A mobile (Dec.	u u	1	14	•	1.5	$\mathbf{g}_{\mathbf{q}} \wedge \mathbf{g}_{\mathbf{q}}$
stinning fra							
277466-4	hatactic or no en une	:				:1115	575 F
22 V 74 V	Double serietmo.	1 -		15. 3	t.	95 N	S-PH - 20

the contract of the

. . . .

Section where.

, i.e.,  $\{a_i\}_{i=1}^n$  and  $\{a_i\}_{i=1}^n$  . Let

 $W_{i}(Q_{i}) = \operatorname{Con}(G_{i},Q_{i},Q_{i}) + \operatorname{Con}(G_{i},Q_$ 

Big is the introduction.

the stage tage in full water Regard

 $\omega = -\frac{1}{2} \log \log (1/2^{\log n})$  . From the length 0/2

, as any a company of earliest Community

 $\hat{g} = m^2 g_{\mu\nu} + 2425 \text{ position}$  and where  $\hat{f} = 0.25 \text{ meV}$  ,  $\hat{g} = 0.24$ 

- . 1 .a -2.190a.
- $\{(i,j,k),(i,k)\}_{k=0}^{n}, \forall i,j \in \{(i,j,k), (i,k)\}_{k=0}^{n}, \forall k \in \{(i,j,k), (i,k), (i,k), (i,k)\}_{k=0}^{n}, \forall k \in \{(i,j,k), (i,k), (i,k), (i,k)\}_{k=0}^{n}, \forall k \in \{(i,j,k$
- So they graded address of a course of
- Workshop on QC (new)
- 12 1 3.55

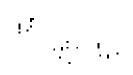
dispressive of the substitute of the primary the transfer of the principle of the problem of the  $\alpha$ 





.t e.	, no Community	arath <u>a</u>	Date Constant I	11.500
<b>.</b>	Can in News		Date Head of	0.27.72
Continues la 100	Three with #		500-55	0.001
falls speak	9050141900		Hams	50/1
an işti a Biştevi	NACASA		Stake a limit	s Seption
$x_1 \dots x_k W_{k} W$	Control N		Last William	we .
Section 1.1. As			lest	(4.0
Francisco, spe			Tegarier Witten	
25 Lane	1.6	TT NEX		
The Block Plan	Lune	51.4052	Luse Analyses	101 101 to 100
572.00(1)	;c	11.2 *11	1120 - 7	() person

Can Names	Paremyter	1546	Qualifer	<b>4114.</b>	1.111.1	128) 11391	644 <u>-</u>
Logica (Logica)							
. 571 11 2	Arricky (2005)	-F.	و داري	lτ	<b>~</b> 0	153	ver Nill
54 762	$M_{1}(x,y,\log x) \in \mathbb{N}^{n}$	<b>ሳ</b> :	ŧ n	3.7	A1	14°	18.50
4. *;.*	医乳头虫虫 经销售	•••	ų.	٦.:	701	la.	1256
5725003300	Arcolonic (2.10	47	1.]+	1.7	701	La C	run kan
#20.20 (b) b	Apr 20 apr. 27 (b)	1=1	10.0	72	All.	IN.	san da
:: = - 1 - 4 - 1 - 1	A-1 < 371 ( 758	1-7-1	; I	14	All		교 및 .
80794 a5-4	April 24 (17) 0	<b></b>	Letter (C)	<b>;</b> }	w)	IN'	· ± % .
STRRINGS ITS							
# 77 °54 ±	Turksyllia kirja kirja ki	5.1		16 - P-		[64],	$S[\pi] = \{0\}$
2.80.184	Decade (Fisher)	J.		- CA - 121	5	1.414	$S(\mathbf{n}) = 0$





On the integration.

STN - Mallacide (Line State

 $\mathrm{L}^{2}_{\mathrm{c}}(0, A) \to \mathrm{L}^{2}(\lambda_{\mathrm{c}}(A), A)$ 

Option Extragillation and an Energy

 $\mathcal{L} = \{ \{ \{ \{ \{ \} \} \mid \{ \{ \} \} \} : \{ \{ \{ \} \} \} \} \in \mathcal{L} \mid \{ \{ \} \} \} \} \} \}$ 

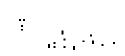
, gainst the law map are given by the  $\alpha (10\%)$  . The  $\alpha$ 

 $Q = \{ e_i \}_{i=1}^n e_i \in \mathbb{R}^n \setminus \{ e_i \}_i = 0 \}$  with the set of a set of each of Eq. (

- Lorenza Chilliani
- distributed was induced by Mercel March
- $N = \{ \{ x_i, x_i \in \{x_i, x_i\} \mid x_i \in \{x_i, x_i\} \mid x_i \in \{x_i\} \} \}$
- Note that the property of the pro
- r=1 dispersion amount of the model of the contract of the contract of the contract of the property of the contract of the  $\frac{1}{2}$

tue .	LA terrigo	and the mag	Compared to the	11.002
The grade	. es Aee		Developen 3	11.111
nuel or unertific	(701963)		:140 (e.e.	1:1:4
1.11 Saraj e Oz	5576775		Mario	50
was an explication as	1267 PA		2-75-47 Mr	N 1000 92
Section Address	$\omega_{12} = \omega_{2}$	e ta li jiji	1,501 - 4	100-1 g
ter visit team from		.1	: 4	: 4.0
Limson Eq.			kerana same	ı
< 571 www.	• 6	Ph. KA		
Later of Gradual	': <del></del>	$\mathrm{Pigp} \in \mathfrak{s}_{k}$	Recognitional	factos in
11#4 )	I	09002	0.7 %	F1946 = 5

L 157 JEH?	fore en-	L.w.	Омент	2000	ISID	100) 11 800.	l'e r
LUK) I S							
(2)200.00.2	Artes of 100a	<b>5</b>	ıi	. (	•,		n ka
r (r 5	Anel MOSS	•	1.		•:	.1	-, K>
Contact to \$4	$\Delta (\infty) \sim 3.22$	I	.1 .	¥:	• ‡		., Kg
59637.9	Association 24.9	9			• •	•	. : <b>h</b> ,;
CW62766	Area of 1748	v	r. ;	* <u>*</u>	•		62
11167 (A.,	$\mathcal{N}_{\mathcal{F}}(x_{0},x_{0}+1,x_{0})$	:10	/ ra	: n	••		ur Wie
() 196 A2 A	Secretary Sec	•1		: 1	r,	ŀ	or Apr
An well-through							
Resulting.	or words a management	21.5		101 × 164		• • • • •	$ \psi(t)  = 1$
125, 24, 5	Reduced Society (London	15.5		A 1 - 1 11	L	-L	4.70



sa the distance

 $0.25 k_{\rm p} = 2.8 \times 10^{10} {\rm kpc} \cdot 10^{-10} {\rm kpc}$ 

COLO MONOCOSA, con el colo

 $\mathbf{u}(\mathcal{H}_{\mathcal{A}}) = (1+\epsilon)^{-1} \mathcal{H}(\mathcal{H}_{\mathcal{A}}, \mathcal{H}_{\mathcal{A}}) = 0$ 

B. Mari Pergy/Chapman - Kangel

the first course of Standards are a few Sections.

Control of the control of the second

 $\hat{\mathcal{G}} = \min\{ a_{n+1} \in \mathcal{G}(x) \mid (1/2) \leq a_{n+1} \leq a_{$ 

 $_{\rm p}=1$  , and  $_{\rm p}$  and  $_{\rm p}$  along

 $H \to \operatorname{dec}_{\mathcal{A}}(\mu, \mu, \overline{\mu}, \mu, \mu, \overline{\mu}) \to \operatorname{dec}_{\mathcal{A}}(\mu, \mu, \overline{\mu}) \to \operatorname{dec}_{\mathcal{A}}(\mu, \overline{\mu}, \overline{\mu},$ 

 $M = \{ v_i = v_i, v_i \in v_i \mid v_i \in v_i, v_i \in v_i \}$  . The sum of  $v_i \in V_i$  was a small i

Note that seeming a first training

Or North

Note that the property of the

### **ATTACHMENT B**

Electronic Data Deliverables (EDD) with Validation Codes SDG No. D4907 PCBs in Water and Soil Samples

CHEMTECH 284 Shedfield Street, Mountainstie, NJ 07092 (908) 789-8900 Fax: (908) 789-8922 www.chemtech.net
The comparison of the regulatory limits in tis report reflect the current Chemiech Consulting Group Inc. knowledge of the standards and are thierded as general culture of the user. Priese consult appropriate regulations and cleanup standards for your specific application.

	guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.	up standards for your specific a	plication.										
		DVQ		DVQ	DVQ	DVQ	DVQ DVQ		DVQ DVQ	DVQ		DVQ DVQ	
Sample ID		EP001B(12-18)	EP001B(12-18)DL	EP018B(12-18)	EP007B(12-18)	EP008B(12-18)	FIELDDUP002	FIEL DDUP002DL	EP019(6-12)	EP020(6-12)	EP020(6-12)DL	EP021(6-12)	
Lab Sample Number		D4907-01	D4907-01DL	D4907-02	D4907-03	D4907-06	D4907-07	D4907-07DL	D4907-09	D4907-10	D4907-10DL	D4907-11	
Sampling Date		11/20/2012	11/20/2012	11/20/2012	11/20/2012	11/20/2012	11/20/2012	11/20/2012	11/20/2012	11/20/2012	11/20/2012	11/20/2012	
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Dilution Factor		-	10	-	-	-	-	10	-	-	10	-	
Units		ng/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
COMPOUND	CAS #												
Aroclor-1016	12674-11-2	8.5 UJ		R 9.5 UJ	W 9:6 M	M 6 M	M 6 N	α <u>.</u>	M 6	LU e	~	m 6	
Aroclor-1221	11104-28-2	8.5 UJ	_	R 9.5 UJ	9.5 UU	m 6 m	m 6 m		8 m	LU 6	~	M 6	
Aroclor-1232	11141-16-5	8.5 UJ		R 9.5 UJ	M 9'6 M	M 6 M	M 6 N		M 6	LU e	2	m 6	
Aroclor-1242	53469-21-9	8.5 UJ		R 9.5 UJ	U 9:6 U	M 6 M	M 6 π		9 W	LU e	œ	M 6	
Aroclor-1248	12672-29-6	8.5 UJ		R 9.5 UJ	M 9'6 M	M 6 M	M 6 N	α <u>.</u>	M 6	LU e	~	m 6	
Aroclor-1254	11097-69-1	œ	2900	190	140	M 6	N.	2700	160 J	<u>«</u>	1000	NL 061	
Aroclor-1260	11096-82-5	8.5 UJ	ш.	R 9.5 UJ	9.5 UI	m 6 п	m 6 π	~	M 6	UU 6	2	M 6	
Total Concentration.			2900	190	140	0		2700	160		1000	190	
Lab Qualifiers				Data Validation Qualifiers (DVQ)	Qualifiers (DVQ)								
U - The compound was	<ul> <li>The compound was not detected at the indicated concentration.</li> </ul>		,	U- The analyte was analyze	d for, but was not detected abo	ve the reported sample quantita	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated numerical value is the sample quantitation limit.	cal value is the sample quantita	ion limit.				
N (Organics) - Presump.	N (Organics) - Presumptive Evidence of a Compound			The sample quantitation	limit accounts for sample speci	ific dilution factors and percent s	The sample quantitation limit accounts for sample specific dilution factors and percent solids corrections or sample sizes that deviate from those required by the method.	that deviate from those require	by the method.				
N (Inorganics) - The ma.	N (Inorganics) - The matrix spike recovery was outside control limits			<ul> <li>The analyte was positive</li> </ul>	ly identified; the associated nu	merical value is the approximate	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	he sample.					
J - Data indicates the pr	Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.	han the quantitation limit but gr		UJ- The analyte was not det	acted above the reported samp	le quantitation limit. However, tl	The analyte was not elected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	ipproximate and may or may no	t represent the actual limit of	f quantitation necessary to	accurately and precisely n	easure the analyte in the sample	
The concentration giv	The concentration given is an approximate value.		<u>a.</u>	R- The sample results are n	ejected due to serious deficienc	ies in the ability to analyze the s	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.	riteria. The presence or absence	of the analyte cannot be veri	fied.			
B - The analyte was four	The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmen	tory contamination of the envir	nmental sample.	The R replaces the nume	rical value or sample quantitat	ion limit. In some instances (e.g.,	The R replaces the numerical value or sample quantitation limit, is some instances (e.g., a distrion) a result may be indicated as "rejected" to avoid confusion when a more quantitatively accurate result is available.	ted as "rejected" to avoid confi	sion when a more quantitativ	ely accurate result is avails	able.		

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

(Organics) - For dual column analysis, the lowest continuation concentration is being reported due to cookuting interference.

(Inorganics) - This sempleducipation system was above the control time.

E (Organics) - Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Organics) - Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of the freence.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

NR - Not analyzed.

IN (N) The analysis indicates the presence of an analyte that has been "tentarively identified" and the associated numerical value represents its approximate concentration.

N. The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentarive identification."

### CHEMTECH

# 284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 789-8922 www.chemtech.net

The comparison of the regulatory limits in this report reflect the current Chemtech Consulting Group Inc. knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

מאס

Sample ID		FIEL DBLANK 003
Lab Sample Number		D4907-08
Sampling Date		11/20/2012
Matrix		WATER
Dilution Factor		-
Units		ng/L
COMPOUND	CAS#	
Aroclor-1016	12674-11-2	0.26 UJ
Aroclor-1221	11104-28-2	0.26 UJ
Aroclor-1232	11141-16-5	0.26 UJ
Aroclor-1242	53469-21-9	0.26 UJ
Aroclor-1248	12672-29-6	0.26 UJ
Aroclor-1254	11097-69-1	0.26 UJ
Aroclor-1260	11096-82-5	0.26 UJ

Total Concentration.

0

### Qualifiers

U - The compound was not detected at the indicated concentration.

N (Organics) - Presumptive Evidence of a Compound

N (Inorganics) - The matrix spike recovery was outside control limits

- J Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.
- The concentration given is an approximate value.
- B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
  - \* (Organics) For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- \* (Inorganics) The sample/duplicate %RPD was above the control limit.
- E (Organics) Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
- E (Inorganics) The reported value is estimated because of the presence of interference.
- D The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
  - NR Not analyzed

## Data Validation Qualifiers (DVQ)

- The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated numerical value is the sample quantitation limit.
- The sample quantitation limit accounts for sample specific dilution factors and percent solids corrections or sample sizes that deviate from those required by the method
- The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- The R replaces the numerical value or sample quantitation limit. In some instances (e.g., a dilution) a result may be indicated as "rejected" to avoid confusion when a more quantitatively accurate result is available.
- The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

(N) Nr -N

그 그 숲

