

AR226-3922

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[ ]: TRANSFORMATION POTENTIAL  
IN AEROBIC AND ANAEROBIC SOILS

WILDLIFE INTERNATIONAL, LTD. PROJECT NO.: 112E-108

Organisation for Economic Cooperation and Development  
OECD Guideline 307

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STUDY INITIATION DATE: March 10, 2005

STUDY COMPLETION DATE: March 17, 2008

Submitted to:

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Project No.: 112E-108

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**GOOD LABORATORY PRACTICE COMPLIANCE STATEMENT**

SPONSOR: E.I. du Pont de Nemours and Company

TITLE: [ ] Transformation Potential in Aerobic and Anaerobic Soils

WILDLIFE INTERNATIONAL, LTD. PROJECT NO.: 112E-108

STUDY COMPLETION DATE: March 17, 2008

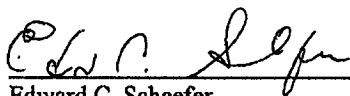
This study was conducted in compliance with Good Laboratory Practice Standards as published by the U.S. Environmental Protection Agency in 40 CFR Part 792 and OECD Principles of Good Laboratory Practice (ENV/MC/CHEM (98) 17), with the following exceptions:

Periodic analyses of well water for potential contaminants were performed using a certified laboratory and standard U.S. Environmental Protection Agency analytical methods.

The characterization of the test substance, and the stability of the test substance under the conditions of storage at the test site, were not determined in accordance with Good Laboratory Practice Standards.

Original documentation for the preparation of two combined stocks were not maintained. Documentation of the stocks preparation was re-created from the information on the stock label.

STUDY DIRECTOR:



Edward C. Schaefer  
Director of Biodegradation

17 MARCH 2008  
DATE

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**QUALITY ASSURANCE STATEMENT**

This study was examined for compliance with Good Laboratory Practice Standards as published by the U.S. Environmental Protection Agency in 40 CFR Part 792 and OECD Principles of Good Laboratory Practice (ENV/MC/CHEM (98) 17). The dates of all inspections and audits and the dates that any findings were reported to the Study Director and Laboratory Management were as follows:

| ACTIVITY:                                      | DATE CONDUCTED:                 | DATE REPORTED TO: |                    |
|------------------------------------------------|---------------------------------|-------------------|--------------------|
|                                                |                                 | STUDY DIRECTOR:   | MANAGEMENT:        |
| Protocol                                       | March 1, 2005                   | March 1, 2005     | March 11, 2005     |
| Stock Solution Preparation                     | March 15, 2005                  | March 15, 2005    | March 16, 2005     |
| Headspace Sampling                             | March 24, 2005                  | March 24, 2005    | April 13, 2005     |
| Stock Solution Preparation                     | April 19, 2005                  | April 19, 2005    | April 22, 2005     |
| Analytical Data -- Day 0<br>Analyses           | October 10-26, 2005             | October 26, 2005  | November 8, 2005   |
| Analytical Data -- Week 1<br>Analyses          | October 10-28, 2005             | October 28, 2005  | November 21, 2005  |
| Analytical Data -- Week 2<br>Analyses          | October 10-<br>November 1, 2005 | November 1, 2005  | November 21, 2005  |
| Analytical Data -- Month 1<br>Analyses         | October 10-<br>November 1, 2005 | November 1, 2005  | November 21, 2005  |
| Analytical Data -- Month 2<br>Analyses         | October 10-<br>November 1, 2005 | November 1, 2005  | November 21, 2005  |
| Analytical Data -- Month 4<br>Analyses         | October 10-<br>November 2, 2005 | November 2, 2005  | December 1, 2005   |
| Soil Moisture Determination<br>and Dosing Data | October 10-<br>December 2, 2005 | December 2, 2005  | August 30, 2006    |
| Oxygen Measurement                             | October 17, 2005                | October 17, 2005  | October 19, 2005   |
| Dosing Viability Controls                      | October 17, 2005                | October 17, 2005  | September 26, 2006 |
| Microbial Biomass Sample<br>Processing         | October 18, 2005                | October 18, 2005  | November 3, 2006   |

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**QUALITY ASSURANCE STATEMENT**  
(continued)

| ACTIVITY:                                                             | DATE CONDUCTED:               | STUDY DIRECTOR:   | DATE REPORTED TO:<br>MANAGEMENT: |
|-----------------------------------------------------------------------|-------------------------------|-------------------|----------------------------------|
| Analytical Sample Processing (6-month)                                | October 20, 2005              | October 20, 2005  | October 24, 2005                 |
| Month 6 Analytical Data                                               | November 14-17, 2005          | November 17, 2005 | November 28, 2005                |
| Analytical Draft Report                                               | November 17-22, 2005          | November 22, 2005 | December 1, 2005                 |
| 9 and 12 Month Analytical Data and Tables                             | August 21-25 and 28, 2006     | August 29, 2006   | October 3, 2006                  |
| Biological Data and Draft Report                                      | October 23 – November 9, 2006 | November 9, 2006  | December 18, 2006                |
| Data and Draft Report (including 15, 18 and 24 month analytical data) | October 24 – November 2, 2007 | November 2, 2007  | November 20, 2007                |
| Final Report                                                          | March 17, 2008                | March 17, 2008    | March 17, 2008                   |

All inspections were study-based unless otherwise noted.

*Linda R. Mitchell*  
 Linda R. Mitchell  
 Director of Regulatory and Ecotox Operations

17 March 2008  
 DATE

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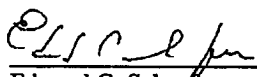
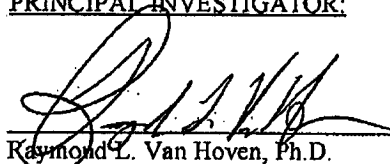
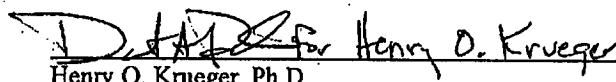
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**REPORT APPROVAL**

SPONSOR: E.I. du Pont de Nemours and Company

TITLE: [ ] Transformation Potential in Aerobic and Anaerobic Soils

WILDLIFE INTERNATIONAL, LTD. PROJECT NO.: 112E-108

STUDY DIRECTOR:  
Edward C. Schaefer  
Director of Biodegradation17 March 2008  
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Director of Aquatic Toxicology/Terrestrial Plants and Insects3/17/08  
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Director of Chemistry3/17/08  
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**STUDY INFORMATION**

Study Initiation Date: 10 March 2005  
Experimental Start Date: 11 March 2005  
Experimental Termination Date: 07 September 2007  
Study Completion Date: 17 March 2008

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Sponsor: E.I. du Pont de Nemours and Company

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Toxicology/Terrestrial Plants and Insects  
Molly E. Matthews, Biologist, Biodegradation  
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**INTRODUCTION**

This report describes a laboratory research study conducted to assess aerobic and anaerobic transformation of ( ) in soil systems. This study was conducted by Wildlife International, Ltd. for E.I. du Pont de Nemours and Company at the Wildlife International, Ltd. research facility in Easton, Maryland. The raw data generated by Wildlife International, Ltd. and the original final report final report will be archived by the study sponsor. A certified copy will be retained under Project Number 112E-108 in the archives located at on the Wildlife International, Ltd. site.

**OBJECTIVE**

The objective of the research study was to assess the potential for transformation of the test substance in aerobic and anaerobic soils.

**EXPERIMENTAL DESIGN**

The test was conducted with four test soils under aerobic conditions. The study was initially designed to set-up to also include four soils under anaerobic conditions, however a check of the system indicated that the test chamber closures did not exclude air. The systems initially started under anaerobic conditions up to and including month 6 are included in this report because they were extracted and analyzed as planned.

Four groups were established for each soil type and condition (aerobic or anaerobic): (1) untreated (control) live soil; (2) 200 mg test substance/kg dw treated live soil; (3) 200 mg test substance/kg dw treated sterile soil; (4) 250 µg 8-2 telomer B alcohol/kg dw treated sterile soil; 10 µg 8-2 telomer B acid /kg dw; 10 µg 8-2 unsaturated telomer B acid/kg dw; and 10 µg perfluorooctanoic acid/kg dw, heptadecafluorononanoic acid, nonadecafluorodecanoic acid, and perfluoroundecanoic acid at 10 µg/kg dw all added to sterile soil. The test systems reported here were incubated in sealed containers at approximately 20°C for at approximately 24 months. Two incubation chambers from each of the groups were removed at appropriate time intervals and the soil samples were extracted and analyzed for potential metabolites. In addition to the day zero samples, eight samplings were performed with all of the groups. Three additional sampling intervals were performed with only the untreated control (1) and 200 mg test substance/kg dw treated live soil (2) groups.

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Additional untreated and test substance treated soil chambers were prepared for use as matrix fortification samples, biomass determinations, viability controls and to monitor aerobic conditions as necessary.

The test groups were prepared using 25 grams (dry weight equivalent) of soil. While this amount of soil is less than the 50 to 200 grams specified in the OECD 307 guideline, it was chosen to allow for 1) the extraction of the entire test chamber contents and internal surfaces; 2) sufficient headspace to minimize the need for active aeration which could result in a loss of potential transformation products.

**METHODS AND MATERIALS**

The test system and study conditions are based on the OECD Guideline for Testing of Chemicals, Guideline 307, *Aerobic and Anaerobic Transformation in Soil* (1). As this guideline is designed for low molecular weight substances, but not for polymers, adaptations of the method may be necessary for feasibility reasons. Nevertheless, the study was carried out in such a way that the recommendations given in the guideline were followed as closely as possible.

**Test Substance**

The following substance was used in this study:

ID: { }

Date received: 2 November 2004

{ }  
Wildlife International Ltd. ID: 6918**Measured Analytes**

Name: 8-2 Telomer B Acid, 8-2 Fluorotelomer Acid

Synonym used in Report: 8-2 FTA

CAS Name: Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-(8Cl,9Cl)

CAS Number: 27854-31-5

Molecular Weight: 478.1 g/mole

ID: H-26210

Date received: 1 September 2004

Expiration/reanalysis date: 12 October 2007

Purity: 97%; 3% 2H-Hexadecafluoro-2-Decanoic Acid

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Description: Solid  
Wildlife International Ltd. ID: 6826

Name: 8-2 Telomer B Alcohol, 8-2 Fluorotelomer Alcohol  
Synonym used in Report: 8-2 FTOH  
CAS Name: 1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- (7CI, 8CI, 9CI)  
CAS Number: 678-39-7  
Molecular Weight: 464.11 g/mole  
ID: H-24691  
Date received: 1 September 2004  
Expiration/reanalysis date: 12 October 2007  
Purity: 99.2%  
Description: Solid  
Wildlife International Ltd. ID: 6828

Name: 8-2 Unsaturated Telomer B Acid, 8-2 Fluorotelomer Unsaturated Acid  
Synonym used in Report: 8-2 FTUA  
CAS Name: 2-Decenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hexadecafluoro- (9CI)  
CAS Number: 70887-84-2  
Molecular Weight: 458.1 g/mole  
ID: H-26211  
Date received: 1 September 2004  
Expiration/reanalysis date: 12 October 2007  
Purity: 98%; 0.5% 8-2 FTOH; 1.5% unknown  
Description: Solid  
Wildlife International Ltd. ID: 6829

Name: N-Perfluorooctanoic Acid  
Synonym used in Report: PFOA  
CAS Name: Octanoic acid, pentadecafluoro- (8CI, 9CI)  
CAS Number: 335-67-1  
Molecular Weight: 414.07 g/mole  
ID: H-24749  
Date received: 10 September 2004  
Expiration/reanalysis date: 12 October 2007  
Purity: 99.2%  
Description: Solid  
Wildlife International Ltd. ID: 6849

Name: Heptadecafluorononanoic Acid, Perfluorononanoic Acid  
Synonym used in Report: PFNA  
CAS Name: Nonanoic acid, heptadecafluoro- (8CI, 9CI)  
CAS Number: 375-95-1  
Molecular Weight: 464.08 g/mole  
ID: H7568  
Date received: 30 November 2004  
Expiration/reanalysis date: 12 October 2007

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Purity: 99+%  
Description: Solid  
Wildlife International Ltd. ID: 6944

Name: Nonadecafluorodecanoic Acid, Perfluorodecanoic Acid  
Synonym used in Report: PFDA  
CAS Name: Decanoic acid, nonadecafluoro (6CI, 7CI, 8CI, 9CI)  
CAS Number: 335-76-2  
Molecular Weight: 514.08 g/mole  
ID: R11K  
Date received: 30 November 2004  
Expiration/reanalysis date: 12 October 2007  
Purity: 99+%  
Description: Solid  
Wildlife International Ltd. ID: 6943

Name: Perfluoroundecanoic Acid, Perfluoroundecanoic Acid  
Synonym used in Report: PFUA  
CAS Name: Undecanoic acid, heneicosafluoro-, ammonium salt (9CI)  
CAS Number: 4234-23-5  
Molecular Weight: 564.09 g/mole  
ID: Q30G  
Date received: 30 November 2004  
Expiration/reanalysis date: 12 October 2007  
Purity: 99+%  
Description: Solid  
Wildlife International Ltd. ID: 6945

Name: 2H, 2H, 3H, 3H Pentadecafluoro-Decanoic acid  
Synonym used in Report: 7-3 Acid  
CAS Name: Decanoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-pentadecafluoro-  
CAS Number: 812-70-4  
Molecular Weight: 442.12 g/mole  
ID: 26833  
Date received: 20 April 2006  
Expiration/reanalysis date: Not provided  
Purity: Not provided  
Description: Solid  
Wildlife International Ltd. ID: 7592

Name: 1-Perfluoro heptyl ethanol, 7-2 Secondary Fluorotelomer Alcohol  
Synonym used in Report: 7-2 sFTOH  
CAS Name: Not provided  
CAS Number: Not provided  
Molecular Weight: 414.11 g/mole  
ID: 27497  
Lot: 72SFTOHGA05

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Date received: 20 April 2006  
Expiration/reanalysis date: Not provided  
Purity: Not provided  
Description: Liquid  
Wildlife International Ltd. ID: 7593

**Internal Standards**

Name: N-Perfluorooctanoic Acid [1,2-di-<sup>13</sup>C]  
Synonym used in Report: 2-<sup>13</sup>C PFOA  
CAS Name: NA  
CAS Number: NA  
ID: H-25617  
Dates received: 1 September 2004 and 20 April 2006  
Expiration/reanalysis date: 12 October 2007 and 31 January 2007  
Purity: 96.4% (not given for WIL 7591)  
Description: Solid  
Wildlife International Ltd. ID: 6827, 7591  
Standard Reanalysis Date: August 2007  
Purity: Confirmed  
Expiration Date: August 2010

Name: 1D, 1D, 2D, 2D, 3-<sup>13</sup>C-Heptadecafluorodecanol  
Synonym used in Report: HDFD  
CAS Name: NA  
CAS Number: NA  
ID: H-25433  
Dates received: 10 September 2004 and 20 April 2006  
Expiration/reanalysis date: 12 October 2007  
Purity: 100% (not given for WIL 7590)  
Description: Solid  
Wildlife International Ltd. IDs: 6850, 7590

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**Test Soils**

Four freshly collected United States (U.S.) soils were used to evaluate the test substance under aerobic and anaerobic conditions. The soils were collected from each of the following soil orders:

| Soil Order | Percent of US Land* |
|------------|---------------------|
| Alfisol    | 13                  |
| Mollisol   | 25                  |
| Inceptisol | 16                  |
| Ultisol    | 13                  |

\*Percent of total land in the US, from Foth, H.D. 1990. Fundamentals of Soil Science 8 ed. John Wiley & Sons, New York)

The soils were processed between 6 and 22 days after collection. Processing included removing vegetation, larger soil fauna, stones and passing the soil through a 2 mm sieve. The soil used in the sterile groups was sterilized by cobalt irradiation. The soils were stored in the dark at  $4 \pm 2$  °C.

Characterization of the soils was conducted by Agvise Laboratories (Northwood, North Dakota, USA). The following is a list of the minimum physicochemical properties of the soil.

- Texture (i.e., percentage of sand, silt and clay) (NUT.02.06)
- pH (NUT.02.05)
- Organic carbon (NUT.20.20)
- Bulk density (NUT.02.10)
- Field moisture capacity (% moisture at 1/3 bar)
- Cation exchange capacity (NUT.02.03)

The percent moisture and water holding capacity (ISO 14240-2; Annex A) of each of the soil types was determined. In addition, the microbial biomass (ISO 14240-2; fumigation-extraction) of a live sample of each soil type was determined. The soil microbial biomass was determined at the beginning of the test prior to adding the test substance and in test and control soil samples at 4, 6 and 12 months using the fumigation-extraction method.

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### **Test Apparatus and Conditions**

The test chambers were 250 mL glass serum bottles (Wheaton, Milleville NJ). The chambers were sealed with butyl rubber septa (Wheaton, Milleville NJ) that were covered with aluminum foil and aluminum crimp caps (Wheaton, Milleville NJ). The test chambers were identified by project number, test substance ID, test concentration, and unique identifier and incubated statically at approximately  $20 \pm 2^{\circ}\text{C}$ .

### **Soil Pre-Incubation**

The soil moisture of each test soil content was adjusted to 40 to 60% of water holding capacity (which is equivalent to a pF of between 2.0 and 2.5, or from 0.1 to 0.33 bar). The test soil then was allowed to warm to the test temperature for at least 2 days. A pre-incubation period of at least 7 days for the aerobic soils and at least 14 days for the anaerobic soils was performed under the appropriate conditions (i.e. temperature, soil moisture content, aerobic or anaerobic). Approximately 25 grams dry weight equivalent of test soil was added to the test chambers. Sterile soil treatments were dosed at approximately 200 mg/kg (dw) with both chloramphenicol (Aldrich, 98%, CAS 56-75-7) and cycloheximide (Sigma, min. 94%, CAS 66-81-9) to inhibit microbial growth. The chambers to be incubated under aerobic conditions were sealed with aluminum foil-lined septa and incubated. The chambers to be incubated under anaerobic conditions were flushed with anaerobic mixed gas, sealed with aluminum foil-lined septa and incubated. The soil moisture content was maintained in the optimal microbial growth range of 40 to 60% water holding capacity (WHC). The soil moisture content of each chamber was checked and adjusted, if necessary, once during the pre-incubation period by weighing the test vessels. Sterile-filtered demineralized water (degassed sterile-filtered demineralized water for the anaerobic soils) was added as necessary to compensate for water losses.

### **Preparation of the Test Chambers**

The soil moisture content was checked and adjusted, if necessary, prior to the addition of the test substance. Sterile-filtered demineralized water (degassed sterile-filtered demineralized water for the anaerobic soils) was added as necessary to compensate for water. Anaerobic treatments and controls were prepared within an anaerobic environment and stored in a temperature controlled room. The test substance was applied to the soil within the test chambers as described below.

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Background Blank Control: Soils with no test substance added was tested in duplicate to check for background concentrations of analytes (see Sampling and Measurements). The entire bottle was extracted after a sample of the headspace had been taken.

Test Substance: The test substance dosed treatments were prepared by dosing approximately 25 grams (dry weight equivalent) of soil with sufficient test substance to deliver 200 mg/kg dry weight. The test substance was administered by direct weight addition. The test chambers were sealed with septum lined with aluminum foil, mixed and incubated. The entire bottle was extracted after a sample of the headspace had been taken.

Abiotic Controls: The abiotic controls were prepared by dosing approximately 25 grams (dry weight equivalent) of  $^{60}\text{Co}$ -sterilized soil with sufficient test substance to deliver 200 mg/kg dry weight. The test substance was administered by direct weight addition. The entire bottle was extracted after a sample of the headspace had been taken.

Spike Recovery Controls: The spike recovery controls were prepared by dosing approximately 25 grams (dry weight equivalent) of  $^{60}\text{Co}$ -sterilized soil with appropriate volumes of 8-2 FTOH stock (250  $\mu\text{g/mL}$  in ethanol) and fluorinated acid stocks (10  $\mu\text{g/mL}$  in water). The stocks were injected directly into the soil using a glass microsyringe. The test chambers were immediately sealed with septum lined with aluminum foil and the contents of the chambers were mixed. The entire bottle was extracted after a sample of the headspace had been taken.

Viability Controls (untreated): The metabolic activity of untreated test soil was assessed on a monthly basis. Duplicate incubation chambers for each test soil and condition (aerobic and anaerobic) were dosed at approximately 100 mg/kg dw with a combination of radiolabeled and non-labelled glucose. The evolved  $^{14}\text{CO}_2$  (aerobic and anaerobic conditions) and  $^{14}\text{CH}_4$  (anaerobic conditions) was measured and the percent biodegradation calculated.

Aerobic Controls (treated): The aerobic controls were prepared by dosing approximately 25 grams (dry weight equivalent) of soil with sufficient test substance to deliver 200 mg/kg dry weight. The test substance was administered by direct weight addition. The test chambers were sealed with septum lined with aluminum foil, mixed and incubated. The oxygen content of a sacrificial chamber was measured at monthly intervals.

### **Maintenance of Test Chambers**

The soil moisture content was maintained in the optimal microbial growth range of 40 to 60% water holding capacity (WHC; a pF of between 2.0 and 2.5, or from 0.1 to 0.33 bar). The soil moisture content was initially checked and adjusted, if necessary, at 1 to 2 week intervals by weighing the test vessels but was changed to monthly intervals based on the observed weight losses. Adding sterile-filtered demineralized water (degassed sterile-filtered demineralized water for the anaerobic soils) compensated for water losses.

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The oxygen content in the headspace of two aerobic control chambers was assessed on a monthly basis to ensure aerobic conditions. If the mean measured oxygen content within the control chambers was less than 19%, aerobic test chambers was aerated with filter-sterilized, oil-free air.

Test chambers did not have to be opened to add water or for monitoring purposes. Soil moisture content was adjusted by injecting the appropriate amount of sterile water through the septa and onto soil. The headspace oxygen content was measured by inserting the probe of an oxygen analyzer through the septa and into the headspace of the aerobic control chamber.

### **Sampling and Measurements**

Duplicate chambers from each of the control, treated and spike recovery soils were extracted and analyzed. Sampling intervals were at 0, 1 and 2 weeks and 1, 2, 4, 6, 9, 12, 15, 18 and 24 months for aerobic. Potential volatile transformation products in the headspace of the soils chambers were collected using a C18 cartridge. At each sampling time prior to opening the test vessel, the septum was pierced using a needle connected to a C18 cartridge and syringe. A 20-mL volume of headspace gas from within the chamber was pulled through the C18 cartridge using the attached syringe. The C18 was subsequently extracted with ACN and analyzed. Sample extracts were stored at -10°C or lower if analysis is delayed more than 24 hours. Extracts were analyzed for:

1. 8-2 FTOH
2. 8-2 FTA
3. 8-2 FTUA
4. PFOA
5. PFNA
6. PFDA
7. PFUA
8. 7-2 sFTOH
9. 7-3 Acid

### **Quality Criteria**

Recovery for a given sampling time point should range between 70 to 120% for the analysis of the 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFNA, PFDA, PFUA, and PFOA from the spike recovery control samples. These ranges should be interpreted as targets and should not be used as criteria for acceptance of the test.

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**Viability Assessments**

On a monthly basis, duplicate incubation chambers for each test soil and condition were dosed with 1 mL of the stock solution containing both radiolabelled and non-labelled forms of d-glucose which resulted in a concentration of approximately 3000 mg/kg dw. The headspace of each of the aerobic test chambers was continuously purged at an air-flow rate of approximately 1 bubble per second. The air exiting the test chambers was passed through a series of gas washing bottles with at least one containing approximately 100 mL of 1.5 N KOH. The headspace of each of the anaerobic chambers was continuously purged with a flow of nitrogen and passed through a gas collection system consisting of two sets of CO<sub>2</sub> traps and a combustion apparatus. The displaced gases initially passed through one empty bottle followed by two bottles each containing approximately 100 mL of 1.5N KOH (CO<sub>2</sub> trapping solution) followed by another empty bottle. The gas was combined with a flow of oxygen and channeled through a quartz column that was packed with cupric oxide and maintained at approximately 800°C in a tube furnace to combust methane to CO<sub>2</sub>. The gas exiting the combustion column was passed through an empty bottle followed by two additional CO<sub>2</sub> traps. The CO<sub>2</sub> traps connected to the aerobic chambers and the 1<sup>st</sup> CO<sub>2</sub> trap in each set (before and after furnace) of the anaerobic mineralization apparatus were removed for analysis and replaced at least weekly. Three replicate 1 mL aliquots of CO<sub>2</sub> trapping solution were analyzed for radioactivity by liquid scintillation counting (LSC; Packard Tri-Carb Liquid Scintillation Counter). The assessment was terminated when 50% of the initial activity was recovered as mineralization products or after 28 days.

**RESULTS****Test Conditions**

Room temperatures during the acclimation period for all four soils ranged from 18 to 22 °C. Temperatures recorded during the test for all four soils ranged from 17 to 25 °C. Incubation temperatures outside of the range 18 to 22 °C were observed three times over the duration of the study.

The frequency of measurements performed on the test soils is presented in Table 1. The moisture contents of the soils were adjusted as needed based on soil moisture content determinations. Each vessel required water additions at least once during the initial 12-month test period, but no additions were required for shorter incubation times. The maximum amounts of water added to any vessel over 12

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and 24 month periods were 1.2 and 3.9 mL, respectively. The oxygen content in the headspace of the two aerobic control chambers used to assess aerobic conditions is presented in Table 2.

### **Characterization of Soils**

The test soils were characterized before the start of acclimation, and the results are presented in Table 3. The results of the viability assessments are presented in Tables 4-7. The results of microbial biomass determinations performed at the start of the test, during the test, and at the end of the test are presented in Table 8.

### **Sample Processing and Analysis**

Soil chambers were either processed immediately upon receipt or removed from frozen storage and prepared for analysis of the candidate analytes 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA.

### **Headspace Analyses**

Prior to opening the soil chambers, a 20-mL volume of headspace gas was sampled from each chamber for 8-2 FTOH using a gas-tight syringe (Becton Dickinson, 10 mL with Luer-Lok™ tip), hypodermic needle (Becton Dickinson, 18G 1½) and a C<sub>18</sub> cartridge (600 mg, Alltech Maxi-Clean). Each sampled C<sub>18</sub> cartridge was extracted with 10 mL of acetonitrile (Burdick & Jackson, HPLC-Grade, CAS No. 75-05-8). The extracts were fortified with 100 µL of a 0.100 mg HDFD/mL internal standard in acetonitrile to yield an internal standard concentration of 100 ng/mL in each extract. The fortifications were performed using a gas-tight syringe (Hamilton 81000 Series). An aliquot of each sample extract was transferred into a glass autosampler vial, sealed and analyzed for 8-2 FTOH by GC/MS. A method outline and typical instrumental conditions for analysis of 8-2 FTOH in the headspace of the soil chambers are provided in Figure 1 and Table 9, respectively.

### **Soil Analyses**

Following headspace sampling, the crimp seal from each soil chamber was removed and the aluminum foil liner was placed inside the test vessel. A 125-milliliter aliquot of acetonitrile extraction solvent (measured with a graduated cylinder) followed by a 10-milliliter aliquot of 200 mM sodium hydroxide (measured with a serological pipette and prepared with Aldrich, Lot No. 14227TO NaOH or Fisher, Lot No. 926471 and Burdick & Jackson HPLC-Grade reagent water, CAS

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No. 7732-18-5) were added to each test vessel containing the soil sample. The acetonitrile extraction solvent contained 100 ng/mL of HDFD internal standard and was prepared by fortifying four liters of acetonitrile measured with a graduated cylinder with 400  $\mu$ L of a 1.00 mg HDFD/mL primary stock in isopropyl alcohol (Burdick & Jackson, HPLC-Grade, CAS No. 67-63-0) and a gas-tight syringe. The vessels were re-sealed and placed onto a gyratory shaker table (New Brunswick Scientific, Model G10) set for 250 rpm for three hours at room temperature.

The vessels were removed from the gyratory table and allowed to settle for several minutes at ambient temperature. Using a volumetric pipette, a 10-mL aliquot of the extract from each vessel was transferred into a separate polypropylene centrifuge tube (Nalgene, 50-mL polypropylene Oak Ridge type, Catalog No. 3119-0050) containing 25 milligrams of ENVI-Carb (Supelco, 120/400). The test vessel, including the remainder of the extract, was replaced into frozen storage (operating range -10 to -20°C). The extract aliquots were centrifuged (Sorvall RC5BPlus fitted with Sorvall SS-34 rotor) for 10 minutes at 12000 rpm (17000 g) and 20 degrees C.

An aliquot of supernatant was diluted with reagent water containing 1.00 ng/mL of 2-13C PFOA internal standard and in the proportions 1 part extract: 3 parts dilution water and the diluted extract was analyzed for 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by HPLC tandem mass spectrometry (LC/MS/MS). The dilutions were performed directly in HPLC autosampler vials using calibrated micropipettes. The dilution water was freshly prepared by fortifying 100 mL of reagent water with 100  $\mu$ L of a 2-13C PFOA secondary stock in acetonitrile using a borosilicate glass, Class A volumetric flask and either a gas-tight syringe or calibrated micropipettes.

A second aliquot of supernatant was diluted with reagent water containing 1.00 ng/mL of HDFD internal standard and in the proportions 1 part extract: 1 part dilution water and the diluted extract was analyzed for 8-2 FTOH by LC/MS/MS. The dilutions were performed directly in HPLC autosampler vials using calibrated micropipettes. The dilution water was freshly prepared by fortifying 100 mL of reagent water with 100  $\mu$ L of a HDFD secondary stock in acetonitrile using a borosilicate glass, Class A volumetric flask and gas-tight syringe. The remainder of the soil extract supernatant was decanted into glass scintillation vials (Fisher, 20-mL disposable, Catalog No. 03-337-7) and placed in frozen storage.

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At the request of the Sponsor, two additional analytes, 7-2 sFTOH and 7-3 Acid, were screened for in selected stored soil extracts collected prior to the Month 18 sampling interval using LC/MS/MS. The earlier sampling intervals included Day 0 and Months 2, 6, 9, 12 and 15. 7-2 sFTOH and 7-3 Acid were also screened for in soil extracts generated concurrent with the Months 18 and 24 sampling intervals. The soil treatments selected for the screen included one untreated control soil replicate and the live treated soil replicates in each of the four soil types. Three different sample preparation regimes were used. For concurrent analyses of 7-2 sFTOH and 7-3 Acid, an aliquot of soil extract was diluted with reagent water containing 100 ng/mL of HDFD internal standard and 1.00 ng/mL of 2-13C PFOA internal standard in the proportions 1 part extract: 3 parts dilution water. This preparation was used for Month 18 and batch analyses on the earlier sampling intervals, except Day 0. For 7-2 sFTOH analyses only, an aliquot of soil extract was diluted with reagent water containing 1.00 ng/mL of HDFD internal standard and in the proportion of 1 part extract: 3 part dilution water. For 7-3 Acid analyses only, an aliquot of soil extract was diluted with reagent water containing 1.00 ng/mL of 2-13C PFOA internal standard and in the proportions 1 part extract: 3 parts dilution water. The latter two preparations were used for processing Day 0 and Month 24 samples where re-analyses due to instrumental or sample stability issues were required (*e.g.* 7-2 sFTOH stability in the dilutions was suspect). Each of the dilution solvents in reagent water was freshly prepared before use.

A method outline for the analysis 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA in soil extracts by LC/MS/MS is presented in Figure 2. Typical instrumental conditions for LC/MS/MS analysis of 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA are provided in Table 10. Typical instrumental conditions for LC/MS/MS analysis of 8-2 FTOH are provided in Table 11. Typical instrumental conditions for LC/MS/MS analysis of 7-2 sFTOH and 7-3 Acid are provided in Table 12.

**Stock and Calibration Standard Preparation**

Individual component primary stock solutions (1.00 mg/mL) were prepared for each analyte and internal standard from the neat materials using an analytical balance and volumetric glassware. Individual component secondary stock solutions (100, 10.0, 1.00 and 0.100 µg/mL) were also prepared by serial dilution. The 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA, PFUA, 2-13C PFOA and HDFD (for 24 month interval only) primary stock solutions were prepared in acetonitrile.

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The 8-2 FTOH, 7-2 sFTOH and HDFD (except as noted for the 24 month interval) primary stock solutions were prepared in isopropyl alcohol. All secondary stocks were serially diluted with acetonitrile. The 100- $\mu$ g/mL HDFD secondary stock solution was used to fortify the internal standard into soil extraction solvent, calibration standards containing 8-2 FTOH and 7-2 sFTOH and dilution solvents for analyses of soil extracts for these analytes.

For GC/MS analyses of 8-2 FTOH in the headspace gas of soil test chambers, 8-2 FTOH calibration standards in acetonitrile (25.0, 50.0, 100, 250 and 500 ng 8-2 FTOH/mL) and each fortified at 100  $\mu$ g HDFD/mL internal standard, were prepared from the appropriate individual component stocks. Representative ion chromatograms for 8-2 FTOH calibration standards by GC/MS are presented in Figures 3 and 4.

For LC/MS/MS analyses of 8-2 FTOH in soil extracts, 8-2 FTOH calibration standards in 50: 50 (v/v) acetonitrile: reagent water (10.0, 25.0, 50.0, 100, 250 500 and 1000 ng 8-2 FTOH/mL) and each fortified at 100  $\mu$ g HDFD/mL internal standard, were prepared from the appropriate individual component stocks. Representative ion chromatograms for 8-2 FTOH calibration standards by LC/MS/MS are presented in Figures 5 and 6.

For 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA analyses of soil extracts, a 100- $\mu$ g/mL -combined stock of 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA in acetonitrile was prepared from the individual component primary stocks. Secondary combined acid stocks in acetonitrile (10.0, 1.00 and 0.100  $\mu$ g/mL) were prepared by serial dilution from the 100  $\mu$ g/mL combined stock solution. Combined 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA calibration standards in 25: 75 (v/v) acetonitrile: reagent water (0.100, 0.250, 0.500, 0.750 and 1.00 ng/mL) and each fortified with 0.75 ng 2-<sup>13</sup>C PFOA/mL internal standard were prepared from the 0.100- $\mu$ g/mL combined stock. A 5.00 ng/mL combined 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA calibration standard in 25: 75 (v/v) acetonitrile: reagent water was prepared from the 1.00- $\mu$ g/mL combined stock. All stock and calibration standards were stored under refrigerated (-4 degrees C) conditions when not in use.

For 7-3 Acid and 7-2 sFTOH analyses of Months 2, 6, 9, 12, 15, 18 and 24 (7-3 Acid only) soil extracts, two sets of combined stocks were prepared. A 10- $\mu$ g/mL combined stock of 8-2 FTA,

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7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA in acetonitrile was prepared from the individual component primary stocks. Secondary combined stocks in acetonitrile (1.00 and 0.100 µg/mL) were prepared by serial dilution from the 10.0-µg/mL combined stock. A 10.0-µg/mL combined stock of 8-2 FTOH and 7-2 sFTOH in acetonitrile was prepared from the individual component primary stocks. Calibration standards in 25: 75 (v/v) acetonitrile: reagent water containing 0.75 ng 2-<sup>13</sup>C PFOA/mL and 100 ng HDFD/mL internal standards were prepared from the 0.100 and 1.00-µg/mL combined perfluorinated carboxylic acid (PFCA) and 10.0-µg/mL combined telomer alcohol stock solutions, respectively. The nominal concentrations of 7-3 Acid and 7-2 sFTOH in the calibration standard set (7-3 Acid/7-2 sFTOH) were 0.100/5.00, 0.250/10.0, 0.500/25.0, 0.750/35.0, 1.00/50.0 and 5.00/250 ng/mL. Due to stability concerns, fresh preparations of 7-2 sFTOH calibration standards were prepared from the 10.0-µg/mL combined stock of 8-2 FTOH and 7-2 sFTOH in acetonitrile for analyses of 7-2 sFTOH in Month 24 soil extracts. The nominal concentrations of 7-2 sFTOH were as specified above.

For 7-3 Acid analyses of Day 0 soil extracts, a combined calibration standard for set for 7-3 Acid and 7-2 sFTOH only was prepared as described above from individual component 7-3 Acid (0.100 and 1.00-ng/mL) and 7-2 sFTOH (10.0-ng/mL) secondary stock solutions. Only 7-3 Acid results were reported from this standard set due to a delay in instrumental analyses. For 7-2 sFTOH analyses, another set of standards was freshly prepared from the 10.0-µg/mL 7-2 sFTOH secondary stock solution. Representative ion chromatograms for 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA calibration standards by LC/MS/MS are presented in Figures 7-22.

#### **Calibration Curves and Limits of Quantitation**

Calibration standard sets for a given analysis were injected at the beginning and end of each analytical sequence with one calibration standard injected after a maximum of every five study samples. For 8-2 FTOH analyses in the headspace of test vessels by GC/MS, linear regression equations were generated using adjusted peak areas (for the internal standard response ratio) versus the respective concentration of the calibration standards. The concentration of 8-2 FTOH in the sampled headspace of the soil test vessels was determined by substituting the peak area response ratios obtained for the samples into the applicable linear regression equation. The concentrations were converted to a mass basis using the appropriate volumes, weights and unit conversion factors. A representative calibration curve for 8-2 FTOH analyses by GC/MS is presented in Figure 23.

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For soil extract analyses of 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by LC/MS/MS, weighted linear regression equations were generated using peak area response ratios (analyte:internal standard) versus the respective concentration ratios (analyte:internal standard) of the calibration standards. The concentration of each analyte in the samples was determined by substituting the peak area response ratios obtained for the samples into the applicable linear regression equation. Representative calibration curves for 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA analyses by LC/MS/MS are presented in Figures 24-32, respectively.

The limits of quantitation (LOQ) for these analyses were defined on a low-level standard equivalent basis and were calculated for 8-2 FTOH in the sampled headspace and for each analyte in soil as the product of the low-level standard concentration and the dilution factor of the untreated control samples. The LOQ for 8-2 FTOH in a 20 mL headspace gas aliquot was 12.5 ng/mL sampled headspace gas, or 0.250 µg for a 20-mL sample. The LOQ was 2.0 µg/kg for soil analyses of 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA. The LOQs for soil analyses of 8-2 FTOH and 7-2 sFTOH were 100 and 100 µg/kg, respectively. Statistical derivation of the limits of detection (LOD) was completed for all analytes with the exception of 7-3 Acid and 7-2 sFTOH during method verification trials. The calculation for each analyte was based on three times the concentration equivalent of the standard deviation of five replicate analyses of a reagent blank. Method verification trials and derivation of statistical LODs for 7-3 Acid and 7-2 sFTOH was outside the scope of the study.

Measured concentrations of the analytes are presented in mg/kg soil dry weight and µmol/kg soil dry weight in Appendix I and II, respectively. Measured concentrations of 7-2 sFTOH and 7-3 Acid in the untreated soils were less than the LOQ and are not presented. Example calculations are presented in Appendix III. Representative chromatograms are presented for each of the four treatment groups in aerobic alfisol soil. Similar chromatographic characteristics were evident for the aerobic ultisol, mollisol and inceptisol soils.

Representative ion chromatograms for 8-2 FTOH by GC/MS in the sampled headspace of untreated control, fortified control, sterile and live samples treated with [ ] from Day 0 of the test are presented in Figures 33, 53, 69 and 85, respectively. Representative ion chromatograms for

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8-2 FTOH in the sampled headspace of untreated control and live samples treated with [redacted] from Month 24 of the test are presented in Figures 43 and 95, respectively.

Representative ion chromatograms for 8-2 FTOH by GC/MS in the sampled headspace of fortified control and sterile samples treated with [redacted] from Month 12 of the test are presented in Figures 61 and 77, respectively.

Representative ion chromatograms for 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by LC/MS/MS in soil extracts from untreated control samples from Day 0 and Month 24 of the test are presented in Figures 34-42 and 44-52, respectively.

Representative ion chromatograms for 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by LC/MS/MS in soil extracts from fortified control samples from Day 0 and Month 12 of the test are presented in Figures 54-60 and 62-68, respectively.

Representative ion chromatograms for 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by LC/MS/MS in soil extracts from sterile samples treated with [redacted] from Day 0 and Month 12 of the test are presented in Figures 70-76 and 78-84, respectively.

Representative ion chromatograms for 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by LC/MS/MS in soil extracts from live samples treated with [redacted] from Day 0 and Month 24 of the test are presented in Figures 86-94 and 96-104, respectively.

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**REFERENCE**

- 1 **Organisation for Economic Cooperation and Development.** April 2002. *Aerobic and Anaerobic Transformation in Soil.* OECD Guideline 307.

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**Table 1**Frequency of Measurements<sup>1</sup>

| Interval | Activity |               |                          |                         |                     |
|----------|----------|---------------|--------------------------|-------------------------|---------------------|
|          | Biomass  | Soil moisture | Headspace oxygen content | Soil metabolic activity | Analytical interval |
| Day 0    | √        | √             |                          |                         | √                   |
| Week 1   |          |               |                          |                         | √                   |
| Week 2   |          | √             |                          |                         | √                   |
| Week 4   |          | √             | √                        | √                       | √                   |
| Week 6   |          | √             |                          |                         |                     |
| Month 2  |          | √             | √                        | √                       | √                   |
| Month 3  |          | √             | √                        | √                       |                     |
| Month 4  | √        | √             | √                        | √                       | √                   |
| Month 5  |          | √             | √                        | √                       |                     |
| Month 6  | √        | √             | √                        | √                       | √                   |
| Month 7  |          | √             | √                        | √                       |                     |
| Month 8  |          | √             | √                        | √                       |                     |
| Month 9  |          | √             | √                        | √                       | √                   |
| Month 10 |          | √             | √                        | √                       |                     |
| Month 11 |          | √             | √                        | √                       |                     |
| Month 12 | √        | √             | √                        | √                       | √                   |
| Month 15 |          |               |                          | √                       | √                   |
| Month 18 |          | √             |                          | √                       | √                   |
| Month 21 |          | √             |                          |                         |                     |
| Month 23 |          | √             |                          |                         |                     |
| Month 24 |          | √             |                          | √                       | √                   |

<sup>1</sup>Additional chambers for the measurement of biomass and headspace oxygen content beyond the initial 12 month test period were not prepared at the start of the study.

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**Table 2**

Test Chamber Headspace Oxygen Content

| Interval | Average Oxygen Content (%) |            |          |         |
|----------|----------------------------|------------|----------|---------|
|          | Alfisol                    | Inceptisol | Mollisol | Ultisol |
| Month 1  | 20.8                       | 20.8       | 20.7     | 20.8    |
| Month 2  | 21.0                       | 20.9       | 20.7     | 20.7    |
| Month 3  | 20.9                       | 20.9       | 20.6     | 20.6    |
| Month 4  | 20.8                       | 20.8       | 20.8     | 20.8    |
| Month 5  | 20.8                       | 20.7       | 20.7     | 20.8    |
| Month 6  | 20.9                       | 20.9       | 20.7     | 20.8    |
| Month 7  | 20.8                       | 20.7       | 20.8     | 20.7    |
| Month 8  | 20.8                       | 20.8       | 20.9     | 20.8    |
| Month 9  | 20.8                       | 20.8       | 20.8     | 20.8    |
| Month 10 | 20.9                       | 20.9       | 20.8     | 20.9    |
| Month 11 | 20.8                       | 20.8       | 20.8     | 20.8    |
| Month 12 | 20.9                       | 20.9       | 20.8     | 20.8    |

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**Table 3**

### Selected Soil Properties

| Soil label | Texture class   | Organic carbon content % | Sand | Silt | Clay | CEC <sup>1</sup> meq/100 g | pH <sup>2</sup> | Water holding capacity % |
|------------|-----------------|--------------------------|------|------|------|----------------------------|-----------------|--------------------------|
|            |                 |                          | %    |      |      |                            |                 |                          |
| Alfisol    | Sandy loam      | 1.4                      | 65   | 24   | 11   | 7.8                        | 5.8             | 54.5                     |
| Inceptisol | Loam            | 2.0                      | 45   | 32   | 23   | 16.9                       | 6.6             | 43.3                     |
| Ultisol    | Sandy loam      | 2.9                      | 55   | 31   | 14   | 7.9                        | 4.8             | 59.3                     |
| Mollisol   | Sandy clay loam | 2.1                      | 59   | 18   | 23   | 17.7                       | 6.9             | 63.2                     |

1- cation exchange capacity  
2- pH in 1:1 soil water ratio

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**Table 4**

Soil Viability by Glucose Mineralization: Alfisol

| Month | Glucose Mineralization Rate |           |
|-------|-----------------------------|-----------|
|       | Aerobic                     | Anaerobic |
| 1     | 1.83                        | 1.81      |
| 2     | 1.79                        | 2.68      |
| 3     | 2.45                        | 7.34      |
| 4     | 2.73                        | 7.36      |
| 5     | 2.54                        | 4.17      |
| 6     | 2.60                        | 3.00      |
| 7     | 3.99                        | NA        |
| 8     | 3.79                        | NA        |
| 9     | 7.57                        | NA        |
| 10    | 2.64                        | NA        |
| 11    | 2.39                        | NA        |
| 12    | 2.00                        | NA        |
| 15    | 1.64                        | NA        |
| 18    | 1.81                        | NA        |
| 24    | 1.81                        | NA        |

<sup>1</sup> - (percent biodegradation/elapsed time in days) x 100**Table 5**

Soil Viability by Glucose Mineralization: Inceptisol

| Month | Glucose Mineralization Rate <sup>1</sup> |           |
|-------|------------------------------------------|-----------|
|       | Aerobic                                  | Anaerobic |
| 1     | 2.48                                     | 1.95      |
| 2     | 4.15                                     | 3.89      |
| 3     | 8.60                                     | 8.44      |
| 4     | 8.90                                     | 7.76      |
| 5     | 8.29                                     | 3.34      |
| 6     | 8.97                                     | 3.02      |
| 7     | 9.50                                     | NA        |
| 8     | 9.47                                     | NA        |
| 9     | 10.46                                    | NA        |
| 10    | 8.91                                     | NA        |
| 11    | 8.50                                     | NA        |
| 12    | 8.04                                     | NA        |
| 15    | 8.14                                     | NA        |
| 18    | 8.06                                     | NA        |
| 24    | 8.90                                     | NA        |

<sup>1</sup> - (percent biodegradation/elapsed time in days) x 100

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**Table 6**

Soil Viability by Glucose Mineralization: Ultisol

| Month | Glucose Mineralization Rate <sup>1</sup> |           |
|-------|------------------------------------------|-----------|
|       | Aerobic                                  | Anaerobic |
| 1     | 2.23                                     | 2.22      |
| 2     | 2.56                                     | 2.39      |
| 3     | 1.67                                     | 2.86      |
| 4     | 1.95                                     | 4.22      |
| 5     | 4.04                                     | 5.41      |
| 6     | 2.46                                     | 3.80      |
| 7     | 3.79                                     | NA        |
| 8     | 7.33                                     | NA        |
| 9     | 7.37                                     | NA        |
| 10    | 8.83                                     | NA        |
| 11    | 2.99                                     | NA        |
| 12    | 3.61                                     | NA        |
| 15    | 8.19                                     | NA        |
| 18    | 2.37                                     | NA        |
| 24    | 3.65                                     | NA        |

<sup>1</sup> - (percent biodegradation/elapsed time in days) x 100**Table 7**

Soil Viability by Glucose Mineralization: Mollisol

| Month | Glucose Mineralization Rate <sup>1</sup> |           |
|-------|------------------------------------------|-----------|
|       | Aerobic                                  | Anaerobic |
| 1     | 2.36                                     | 1.85      |
| 2     | 2.54                                     | 2.99      |
| 3     | 1.72                                     | 2.57      |
| 4     | 3.63                                     | 3.99      |
| 5     | 4.06                                     | 4.82      |
| 6     | 3.66                                     | 4.16      |
| 7     | 3.74                                     | NA        |
| 8     | 3.95                                     | NA        |
| 9     | 3.60                                     | NA        |
| 10    | 7.51                                     | NA        |
| 11    | 2.73                                     | NA        |
| 12    | 1.78                                     | NA        |
| 15    | 3.59                                     | NA        |
| 18    | 2.11                                     | NA        |
| 24    | 1.81                                     | NA        |

<sup>1</sup> - (percent biodegradation/elapsed time in days) x 100

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### Table 8

Soil Microbial Biomass ( $\mu\text{g/g}$ ) (ISO 14240-2; fumigation-extraction)

|                   | ALFISOL |           |           |           | INCEPTISOL |           |           |           |
|-------------------|---------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
|                   | Aerobic |           | Anaerobic |           | Aerobic    |           | Anaerobic |           |
|                   | Treated | Untreated | Treated   | Untreated | Treated    | Untreated | Treated   | Untreated |
| Post Inc.         | -       | 244       | -         | 128       | -          | 131       | -         | 132       |
| Month 4           | 317     | 323       | 435       | 287       | 138        | 109       | 184       | 106       |
| Month 6           | 680     | 279       | 593       | 645       | 432        | 483       | 423       | 467       |
| Month 12          | 769     | 675       | NA        | NA        | 504        | 564       | NA        | NA        |
| NA – Not analyzed |         |           |           |           |            |           |           |           |

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**Table 8**  
**(continued)**

Soil Microbial Biomass (µg/g) (ISO 14240-2; fumigation-extraction)

|            | MOLLISOL |           |           |           | ULTISOL |           |           |           |
|------------|----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|
|            | Aerobic  |           | Anaerobic |           | Aerobic |           | Anaerobic |           |
|            | Treated  | Untreated | Treated   | Untreated | Treated | Untreated | Treated   | Untreated |
| Post, Inc. | -        | 190       | -         | 53        | -       | 312       | -         | 54        |
| Month 4    | 216      | 218       | 218       | 205       | 36      | 31        | 26        | 34        |
| Month 6    | 243      | 259       | 267       | 270       | 486     | 194       | 500       | 407       |
| Month 12   | 714      | 734       | NA        | NA        | 565     | 570       | NA        | NA        |

NA – Not analyzed

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**Table 9**

Typical GC/MS Operational Parameters for Analysis of 8-2 FTOH in Headspace Gas

|                           |                                                                           |                           |                               |
|---------------------------|---------------------------------------------------------------------------|---------------------------|-------------------------------|
| Instrument:               | Hewlett-Packard Model 5890 Series II<br>Gas Chromatograph (GC)            |                           |                               |
| Detector:                 | Hewlett-Packard Model 5971 Mass Selective Detector                        |                           |                               |
| Analytical Column:        | Phenomenex Zebron ZB-5<br>(30 m x 0.25 mm, 0.25- $\mu$ m film thickness). |                           |                               |
| Injector Temperature:     | 150°C                                                                     |                           |                               |
| Oven Temperature Profile: | Initial temperature: 50°C<br>Initial hold time: 2.00 minute               |                           |                               |
|                           | Ramp:                                                                     | <u>Rate (°C/minute)</u>   | <u>Final Temperature (°C)</u> |
|                           |                                                                           | 20.00                     | 100                           |
|                           |                                                                           | 50.00                     | 300                           |
|                           | Final hold time: 3.00 minute                                              |                           |                               |
| Detector Temperature:     | 280°C                                                                     |                           |                               |
| Carrier Gas:              | Helium, ~1 mL/min; CHP = ~14 psi                                          |                           |                               |
| Septum Purge:             | Helium, ~5 mL/min                                                         |                           |                               |
| Split Vent:               | ~40 mL/min                                                                |                           |                               |
| Injection Volume:         | 2 $\mu$ L (2 stops w/ 10 $\mu$ L syringe), splitless                      |                           |                               |
| Data Acquisition Mode:    | SIM                                                                       |                           |                               |
|                           | Component                                                                 | Quantitation              | Confirmation                  |
| Acquisition Ions:         | 8-2 FTOH                                                                  | 31 m/z                    | 95 m/z                        |
|                           | HDFD                                                                      | 33 m/z                    | 98 m/z                        |
| Peak Retention Times:     |                                                                           |                           |                               |
|                           | 8-2 FTOH:                                                                 | Approximately 5.0 minutes |                               |
|                           | HDFD:                                                                     | Approximately 5.0 minutes |                               |

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**Table 10**

Typical LC/MS/MS Operational Parameters for Analysis of 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA in Soil Extracts

|                               |                                                                                                                                                                                                                                                               |                                          |                   |                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------|-----------------------|
| Instrument:                   | Agilent Technologies 1100 Series High Performance Liquid Chromatograph with an Applied Biosystems/MDS SCIEX API 3000 LC Mass Spectrometer equipped with a Perkin-Elmer Turbo IonSpray source. Operated in the negative ion multiple reaction-monitoring mode. |                                          |                   |                       |
| Analytical Column:            | Zorbax RX-C8 (150 mm x 2.1 mm, 3- $\mu$ m particle size)                                                                                                                                                                                                      |                                          |                   |                       |
| Column Temperature:           | 40°C                                                                                                                                                                                                                                                          |                                          |                   |                       |
| Mobile Phase:                 | A: 0.1% Formic Acid in Reagent Water<br>B: Acetonitrile                                                                                                                                                                                                       |                                          |                   |                       |
| Gradient Elution Profile:     | <u>Time (min)</u>                                                                                                                                                                                                                                             | <u>Flow Rate (<math>\mu</math>L/min)</u> | <u>Percent A</u>  | <u>Percent B</u>      |
|                               | 0.00                                                                                                                                                                                                                                                          | 250                                      | 70.0              | 30.0                  |
|                               | 1.00                                                                                                                                                                                                                                                          | 250                                      | 70.0              | 30.0                  |
|                               | 8.00                                                                                                                                                                                                                                                          | 250                                      | 15.0              | 85.0                  |
|                               | 9.00                                                                                                                                                                                                                                                          | 250                                      | 15.0              | 85.0                  |
|                               | 9.10                                                                                                                                                                                                                                                          | 250                                      | 5.0               | 95.0                  |
|                               | 14.00                                                                                                                                                                                                                                                         | 250                                      | 5.0               | 95.0                  |
|                               | 15.00                                                                                                                                                                                                                                                         | 250                                      | 70.0              | 30.0                  |
|                               | 20.00                                                                                                                                                                                                                                                         | 250                                      | 70.0              | 30.0                  |
| Injection Volume:             | 50.0 $\mu$ L                                                                                                                                                                                                                                                  |                                          |                   |                       |
| Monitored Ion Transitions:    | <u>Q1</u>                                                                                                                                                                                                                                                     | <u>Q3</u>                                | <u>Dwell Time</u> | <u>Retention Time</u> |
| PFOA                          | 413.0 amu                                                                                                                                                                                                                                                     | 369.0 amu                                | 250 msec          | 9.82 min              |
| 2-13 PFOA (internal standard) | 415.0 amu                                                                                                                                                                                                                                                     | 370.0 amu                                | 250 msec          | 9.82 min              |
| 8-2 FTA                       | 477.0 amu                                                                                                                                                                                                                                                     | 393.0 amu                                | 250 msec          | 12.2 min              |
| 8-2 FTUA                      | 457.0 amu                                                                                                                                                                                                                                                     | 393.0 amu                                | 250 msec          | 12.3 min              |
| PFNA                          | 463.0 amu                                                                                                                                                                                                                                                     | 419.0 amu                                | 250 msec          | 10.6 min              |
| PFDA                          | 513.0 amu                                                                                                                                                                                                                                                     | 469.0 amu                                | 250 msec          | 11.2 min              |
| PFUA                          | 563.0 amu                                                                                                                                                                                                                                                     | 519.0 amu                                | 250 msec          | 11.8 min              |
| LC/MS/MS Analog Parameters:   | IS = -4500                      CE = -15<br>TEM = 400                      CXP = -25<br>DP = -10                        CUR = 8<br>FP = -140                       CAD = 4<br>EP = -10                        NEB = 12                                        |                                          |                   |                       |

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**Table 11**

Typical LC/MS/MS Operational Parameters for Analysis of 8-2 FTOH in Soil Extracts

|                             |                                                                                                                                                                                                                                                               |                                          |                   |                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------|-----------------------|
| Instrument:                 | Agilent Technologies 1100 Series High Performance Liquid Chromatograph with an Applied Biosystems/MDS SCIEX API 3000 LC Mass Spectrometer equipped with a Perkin-Elmer Turbo IonSpray source. Operated in the negative ion multiple reaction-monitoring mode. |                                          |                   |                       |
| Analytical Column:          | THERMO EC Betasil C-18 (50 mm x 2.1 mm, 5- $\mu$ m particle size)                                                                                                                                                                                             |                                          |                   |                       |
| Guard Column:               | Javelin Betasil C-18 (20 mm x 2.1 mm)                                                                                                                                                                                                                         |                                          |                   |                       |
| Column Temperature:         | 40°C                                                                                                                                                                                                                                                          |                                          |                   |                       |
| Mobile Phase:               | A: 0.15% Acetic Acid in Reagent Water<br>B: Acetonitrile                                                                                                                                                                                                      |                                          |                   |                       |
| Isocratic Profile:          | <u>Time (min)</u>                                                                                                                                                                                                                                             | <u>Flow Rate (<math>\mu</math>L/min)</u> | <u>Percent A</u>  | <u>Percent B</u>      |
|                             | 0.00                                                                                                                                                                                                                                                          | 250                                      | 30.0              | 70.0                  |
|                             | 6.00                                                                                                                                                                                                                                                          | 250                                      | 30.0              | 70.0                  |
| Injection Volume:           | 25.0 $\mu$ L                                                                                                                                                                                                                                                  |                                          |                   |                       |
| Monitored Ion Transitions:  | <u>Q1</u>                                                                                                                                                                                                                                                     | <u>Q3</u>                                | <u>Dwell Time</u> | <u>Retention Time</u> |
| 8-2 FTOH                    | 523.1 amu                                                                                                                                                                                                                                                     | 58.9 amu                                 | 500 msec          | 4.18 min              |
| HDFD (internal standard)    | 528.1 amu                                                                                                                                                                                                                                                     | 58.9 amu                                 | 500 msec          | 4.15 min              |
| LC/MS/MS Analog Parameters: | IS = -4500<br>TEM = 450<br>DP = -25<br>FP = -250<br>EP = -10<br>CE = -50<br>CXP = -10<br>NEB = 12<br>CUR = 7<br>CAD = 6                                                                                                                                       |                                          |                   |                       |

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**Table 12**

Typical LC/MS/MS Operational Parameters for Analysis of 7-3 Acid and 7-2 sFTOH in Soil Extracts

|                               |                                                                                                                                                                                                                                                               |                                          |                        |                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------|-----------------------|
| Instrument:                   | Agilent Technologies 1100 Series High Performance Liquid Chromatograph with an Applied Biosystems/MDS SCIEX API 3000 LC Mass Spectrometer equipped with a Perkin-Elmer Turbo IonSpray source. Operated in the negative ion multiple reaction-monitoring mode. |                                          |                        |                       |
| Analytical Column:            | Zorbax RX-C8 (150 mm x 2.1 mm, 3- $\mu$ m particle size)                                                                                                                                                                                                      |                                          |                        |                       |
| Column Temperature:           | 40°C                                                                                                                                                                                                                                                          |                                          |                        |                       |
| Mobile Phase:                 | A: 0.15% Acetic Acid in Reagent Water<br>B: Acetonitrile/ 0.15% Acetic Acid                                                                                                                                                                                   |                                          |                        |                       |
| Gradient Elution Profile:     | <u>Time (min)</u>                                                                                                                                                                                                                                             | <u>Flow Rate (<math>\mu</math>L/min)</u> | <u>Percent A</u>       | <u>Percent B</u>      |
|                               | 0.00                                                                                                                                                                                                                                                          | 250                                      | 95.0                   | 5.0                   |
|                               | 1.00                                                                                                                                                                                                                                                          | 250                                      | 95.0                   | 50.0                  |
|                               | 1.01                                                                                                                                                                                                                                                          | 250                                      | 70.0                   | 30.0                  |
|                               | 7.00                                                                                                                                                                                                                                                          | 250                                      | 15.0                   | 85.0                  |
|                               | 12.00                                                                                                                                                                                                                                                         | 250                                      | 15.0                   | 85.0                  |
|                               | 13.00                                                                                                                                                                                                                                                         | 250                                      | 95.0                   | 5.0                   |
|                               | 20.00                                                                                                                                                                                                                                                         | 250                                      | 95.0                   | 5.0                   |
| Injection Volume:             | 50.0 $\mu$ L                                                                                                                                                                                                                                                  |                                          |                        |                       |
| Reported Ion Transitions:     | <u>Q1</u>                                                                                                                                                                                                                                                     | <u>Q3</u>                                | <u>Dwell Time</u>      | <u>Retention Time</u> |
| 7-3 Acid                      | 441.0 amu                                                                                                                                                                                                                                                     | 337.0 amu                                | 50 msec                | 11.6 min              |
| 2-13 PFOA (internal standard) | 415.0 amu                                                                                                                                                                                                                                                     | 370.0 amu                                | 50 msec                | 10.0 min              |
| 7-2 sFTOH                     | 473.0 amu                                                                                                                                                                                                                                                     | 59.0 amu                                 | 50 msec                | 11.9 min              |
| HDFD (internal standard)      | 528.0 amu                                                                                                                                                                                                                                                     | 59.0 amu                                 | 50 msec                | 12.1 min              |
| LC/MS/MS Analog Parameters:   | IS = -4500                                                                                                                                                                                                                                                    |                                          | 7-3 Acid/<br>2-13 PFOA | 7-2 sFTOH/<br>HDFD    |
|                               | TEM = 400                                                                                                                                                                                                                                                     |                                          |                        |                       |
|                               | EP = -10                                                                                                                                                                                                                                                      | DP =                                     | -40                    | -25                   |
|                               | CUR = 7                                                                                                                                                                                                                                                       | FP =                                     | -350                   | -250                  |
|                               | CAD = 6                                                                                                                                                                                                                                                       | CE =                                     | -15                    | -50                   |
|                               | NEB = 132                                                                                                                                                                                                                                                     | CXP =                                    | -11                    | -10                   |

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**Method flowchart for the analysis of 8-2 FTOH in the headspace of soil test chambers**

For each sample, fit a C<sub>18</sub> cartridge between the end of an appropriate volume syringe and a hypodermic needle.



With the plunger fully depressed, insert the needle of the disposable syringe through the septum of the sample and pull a full syringe volume. Remove needle, expel headspace air and repeat.



Detach C<sub>18</sub> cartridge and place in appropriate holder. Attach the barrel of a 10 mL disposable syringe to C<sub>18</sub> cartridge and use a volumetric pipette to transfer acetonitrile extraction solvent into the syringe barrel. Insert the syringe plunger into the barrel and inject the acetonitrile through the C<sub>18</sub> cartridge into a 20-cc glass scintillation vial. Fortify the extract to contain 100 ng/mL 1D, 1D, 2D, 2D, 3-13C Heptadecafluoro Decanol internal standard.



Pipette an aliquot of the extract directly into an autosampler vial. Cap vial and submit for GC/MS analysis of 8-2 FTOH. All sample vials not analyzed immediately are place in refrigerated storage.



Store the remaining trap extract in scintillation vials under frozen conditions.

Figure 1. Method flowchart for the analysis of 8-2 FTOH in the headspace of soil test chambers.

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**Method flowchart for the analysis of 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA in soil extracts**

For each sample vessel, remove crimp seal and place foil liner into the vessel. Using a graduated cylinder, measure and transfer 125 milliliters of extraction solvent into each sample vessel. The extraction solvent consists of 100 ng/mL 1D, 1D, 2D, 2D, 3-13C Heptadecafluoro Decanol internal standard in acetonitrile. Add a 10-mL aliquot of 200 mM NaOH into each sample.

↓

Re-crimp each sample vessel with a new aluminum crimp cap and the original septum. Extract the samples for approximately three hours using a gyratory shaker table set for 250 rpm.

↓

Allow suspended material in extracts to settle. Remove a 10-mL aliquot of the extract using a serological pipette and transfer into a separate 50-mL plastic centrifuge tube preloaded with approximately 25 mg of Envi-Carb™. Centrifuge samples at a setting of 12000 rpm for 10 minutes. Transfer extract supernatant for each sample into a separate labeled scintillation vial.

↓

For 8-2 FTOH analyses, pipette an aliquot of the extract supernatant (or diluted extract, if applicable) with reagent water fortified with 100 ng/mL 1D, 1D, 2D, 2D, 3-13C Heptadecafluoro Decanol (HDFD) internal standard to produce a final solution composition of 1:1 (v/v) extract: water. For 7-2 sFTOH analyses, pipette an aliquot of the extract supernatant (or diluted extract, if applicable) with reagent water fortified with 100 ng/mL HDFD to produce a final solution composition of 1:3 (v/v) extract: water. Perform dilution directly in an autosampler vial, cap and vortex. Submit for HPLC/MS/MS analysis of telomer alcohols. All sample vials not analyzed immediately, place in refrigerated storage.

↓

For PFCA analyses of each sample, dilute an appropriate volume of the extract supernatant (or diluted extract, if applicable) with reagent water fortified with 1.00 ng/mL N-Perfluorooctanoic Acid, [1,2 di-13C] internal standard to produce a final solution composition of 1:3 extract: water. Perform dilution directly in an autosampler vial, cap and vortex. Submit for HPLC/MS/MS analysis of PFCAs. All sample vials not analyzed immediately, place in refrigerated storage.

↓

Re-crimp each sample vessel with a new aluminum crimp cap and the original septum. Store sample vessels and extract scintillation vials under frozen conditions.

Figure 2. Method flowchart for the analysis of 8-2 FTOH, 7-2 sFTOH, 8-2 FTA, 7-3 Acid, 8-2 FTUA, PFOA, PFNA, PFDA and PFUA by LC/MS/MS in soil extracts.

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: T:\DATA\ALFIO25\0101005.D  
Operator: DW  
Date Acquired: 20 Apr 106 5:41 pm  
Instrument: GCMS#1  
Sample Name: TA-30  
Misc Info: 25.0 ug a.i./L  
Vial Number : 1

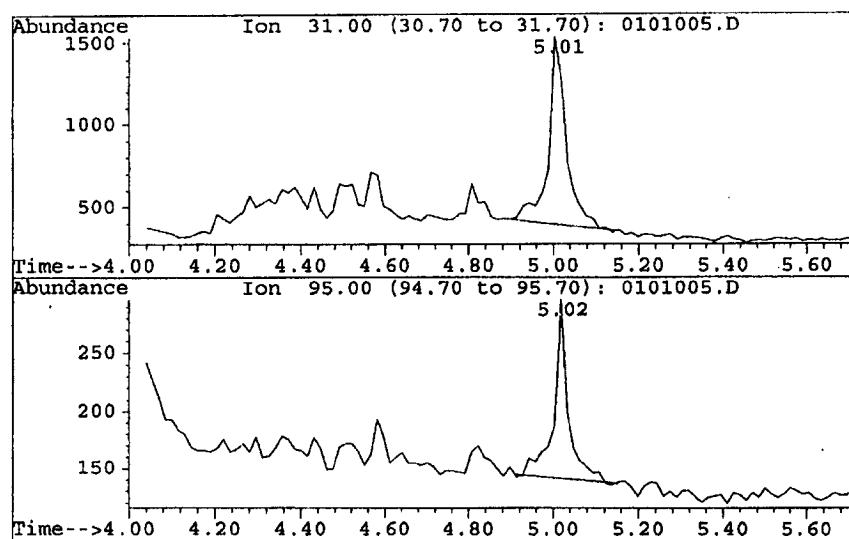


Figure 3. Representative ion chromatograms for 8-2 FTOH in a low-level (25.0 ng a.i./mL) calibration standard by GC/MS.

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: T:\DATA\ALFI025\0501009.D  
Operator: DW  
Date Acquired: 20 Apr 106 7:03 pm  
Instrument: GCMS#1  
Sample Name: TA-34  
Misc Info: 500 ug a.i./L  
Vial Number : 5

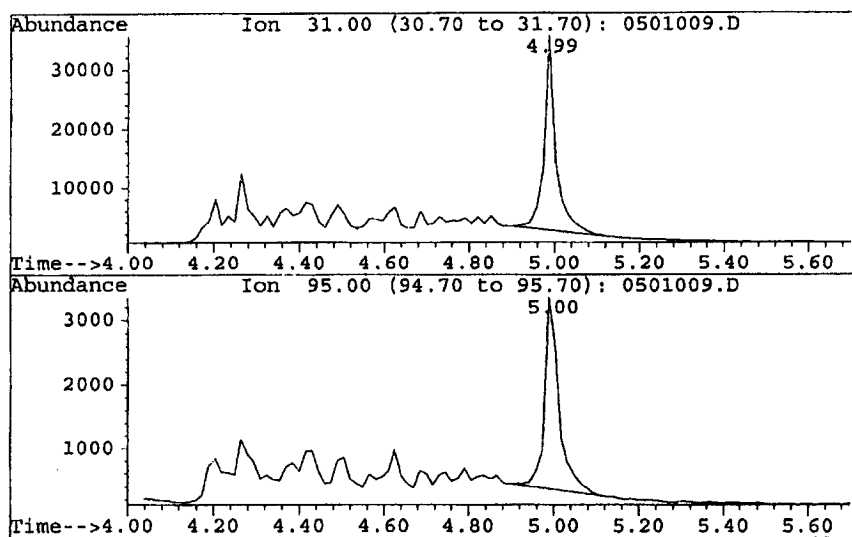


Figure 4. Representative ion chromatograms for 8-2 FTOH in a high-level (500 ng a.i./mL) calibration standard by GC/MS.

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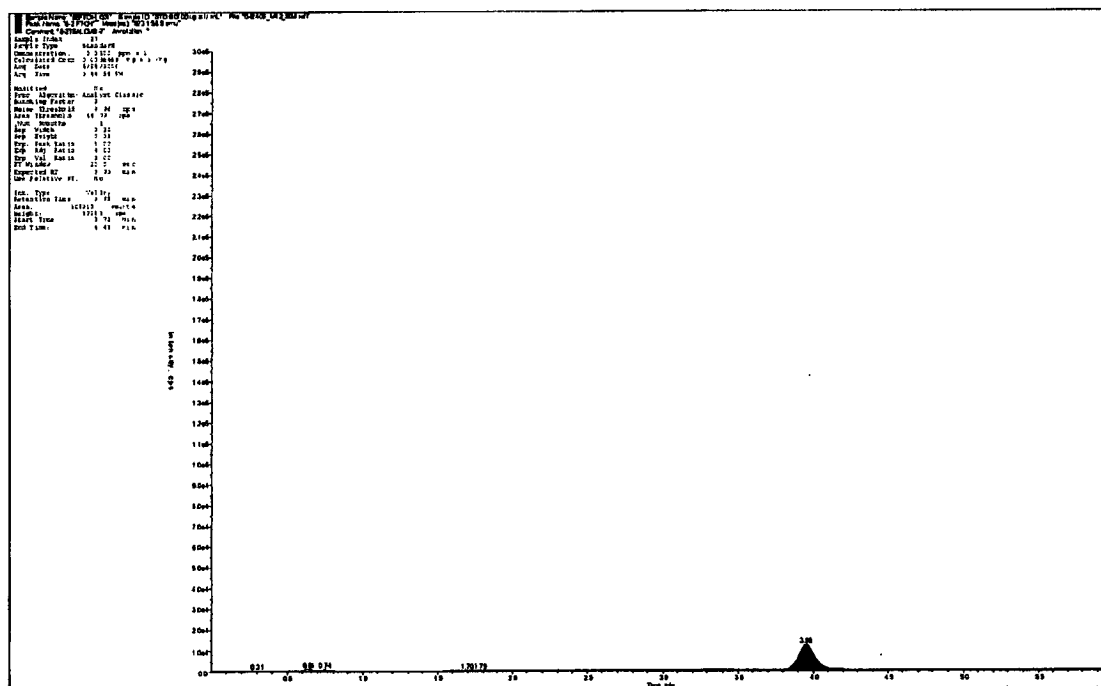


Figure 5. Representative ion chromatogram for 8-2 FTOH in a low-level (10.0 ng a.i./mL) calibration standard by LC/MS/MS.

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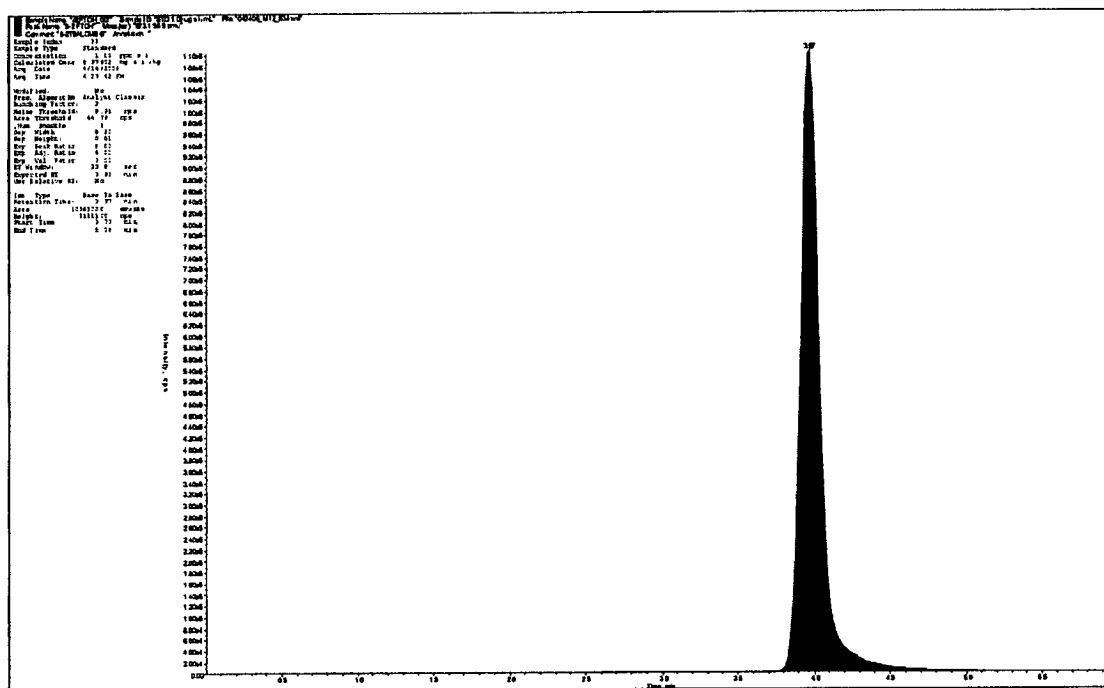


Figure 6. Representative ion chromatogram for 8-2 FTOH in a high-level (1000 ng a.i./mL) calibration standard by LC/MS/MS.

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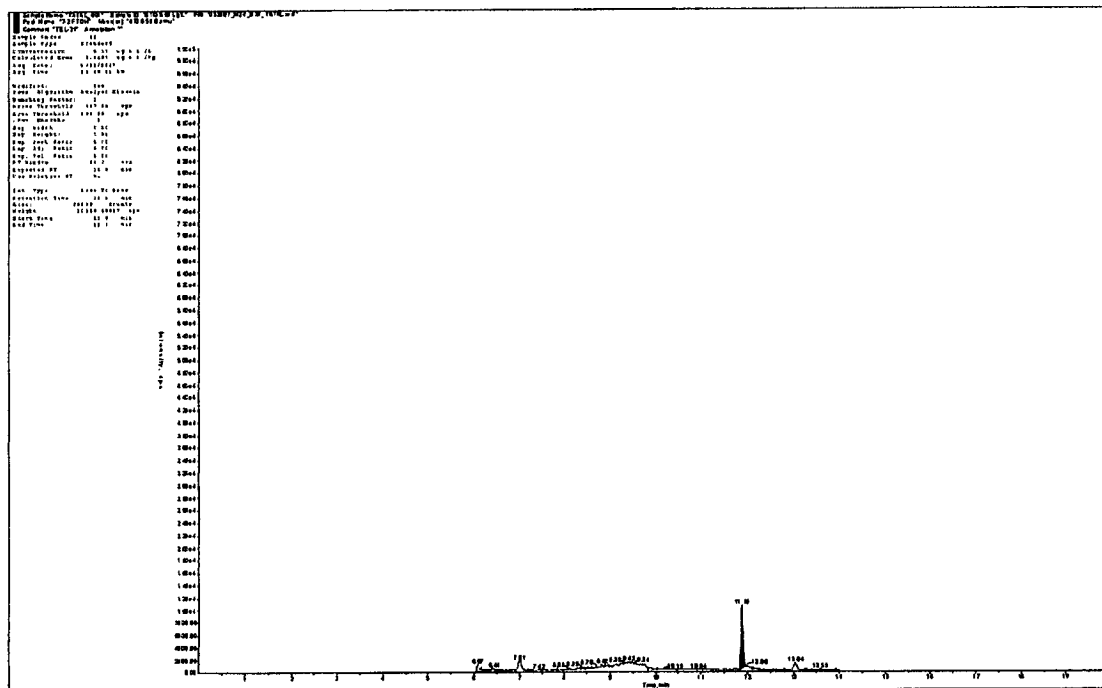


Figure 7. Representative ion chromatograms for 7-2 sFTOH in a low-level (5.00 ng a.i./mL) calibration standard by LC/MS/MS.

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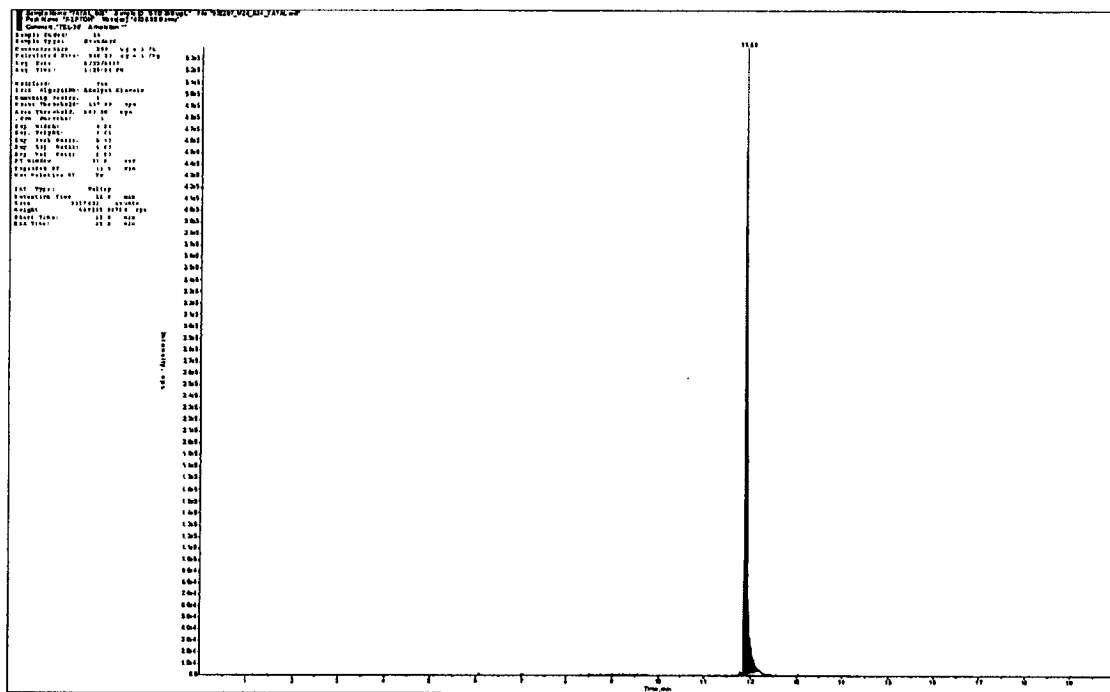


Figure 8. Representative ion chromatograms for 7-2 sFTOH in a high-level (250 ng a.i./mL) calibration standard by LC/MS/MS.

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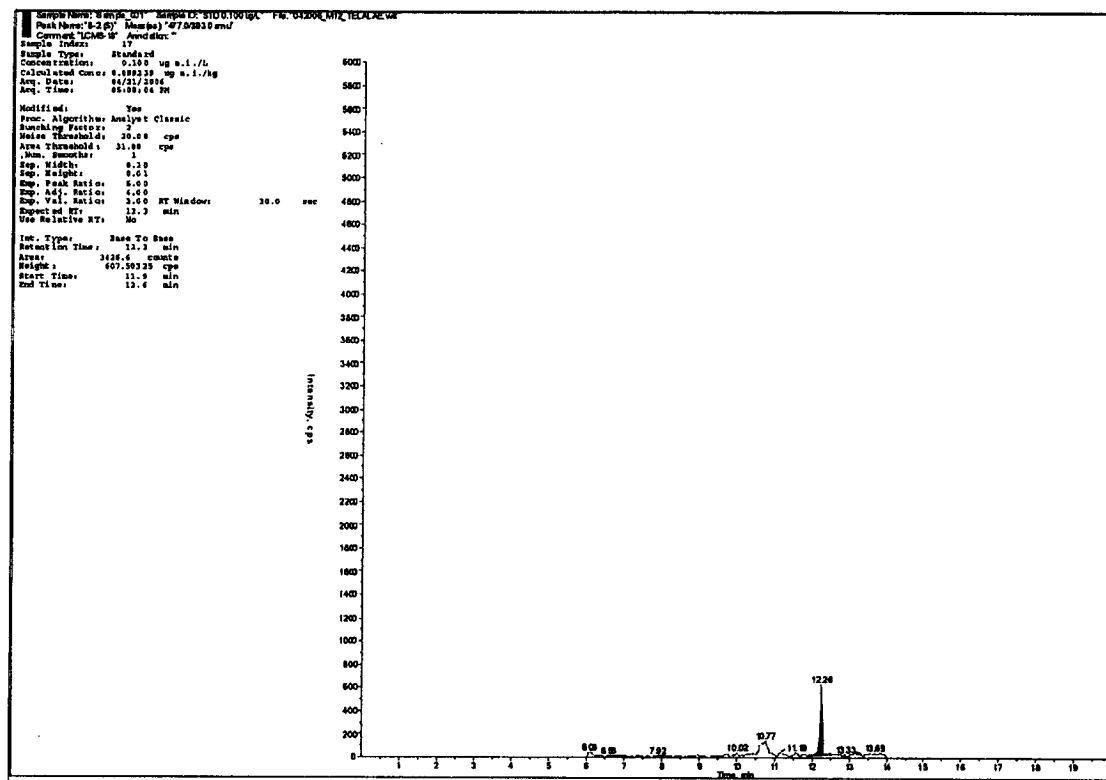


Figure 9. Representative ion chromatogram for 8-2 FTA in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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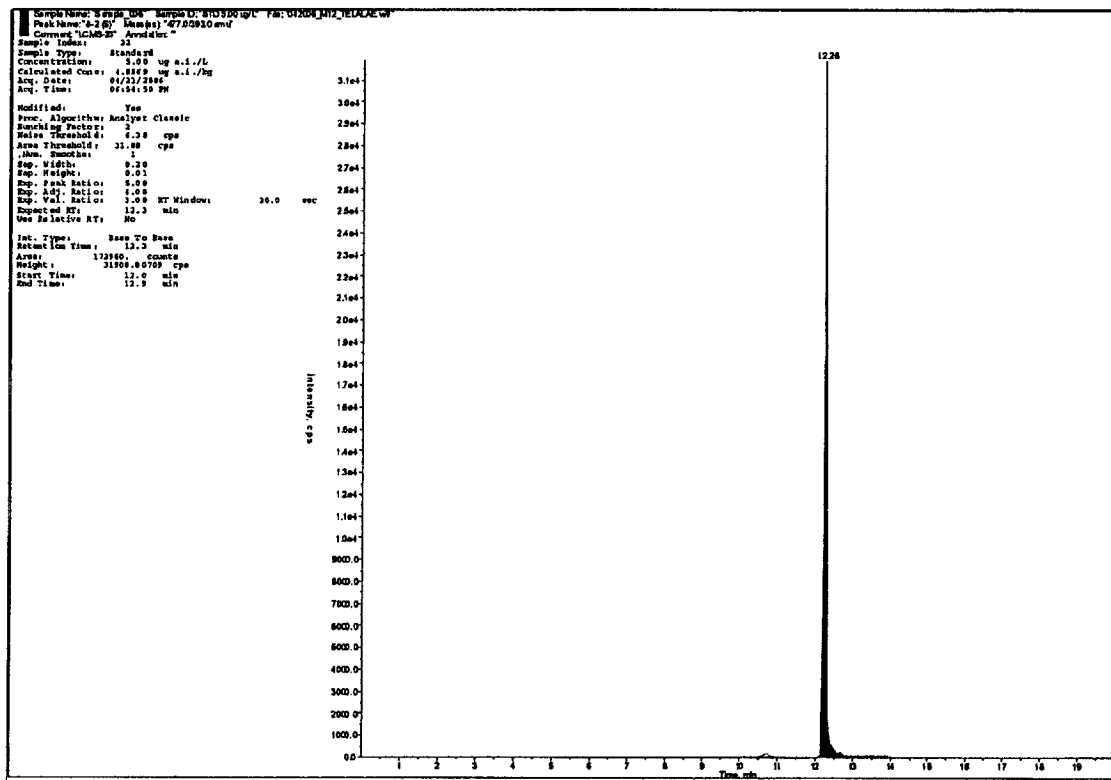


Figure 10. Representative ion chromatogram for 8-2 FTA in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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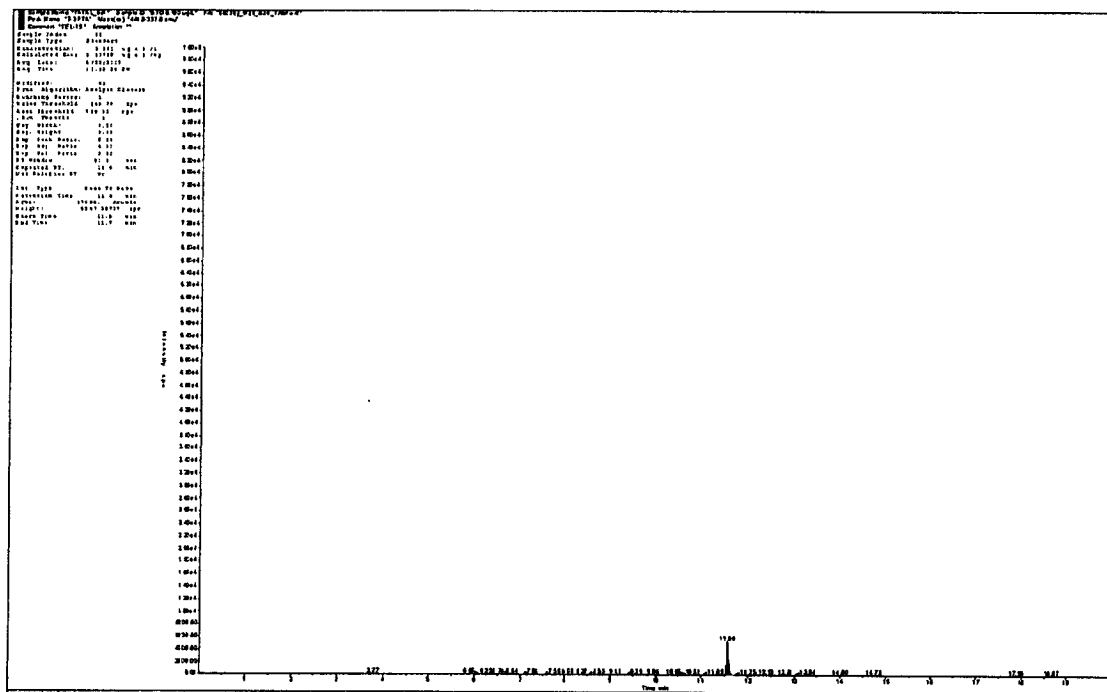


Figure 11. Representative ion chromatogram for 7-3 Acid in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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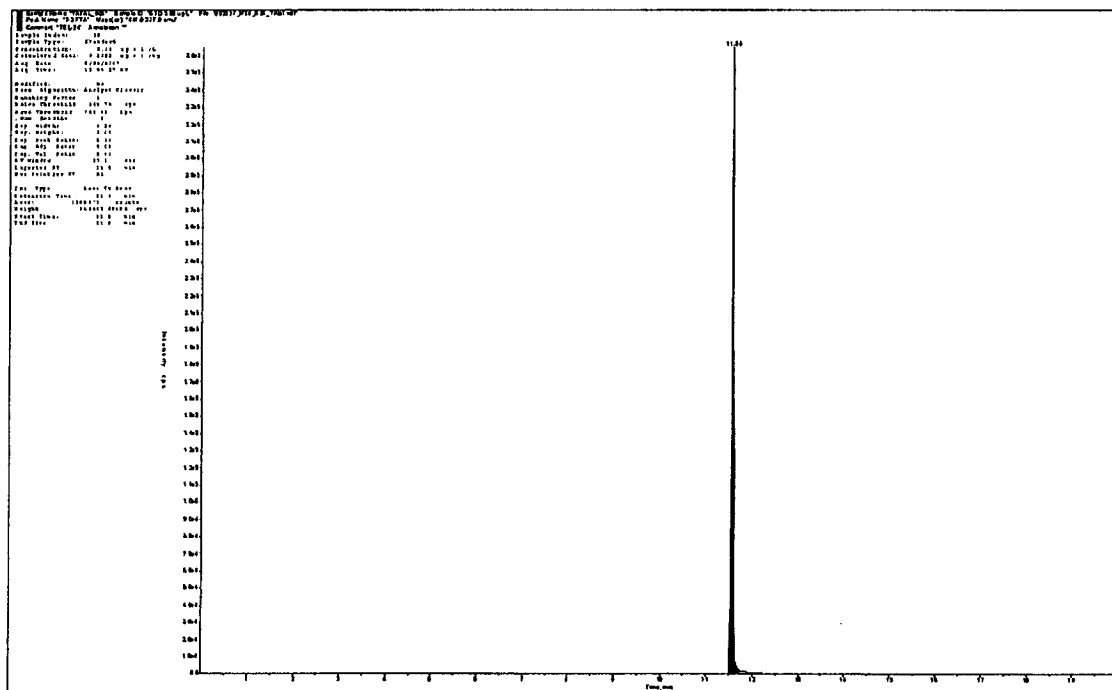


Figure 12. Representative ion chromatogram for 7-3 Acid in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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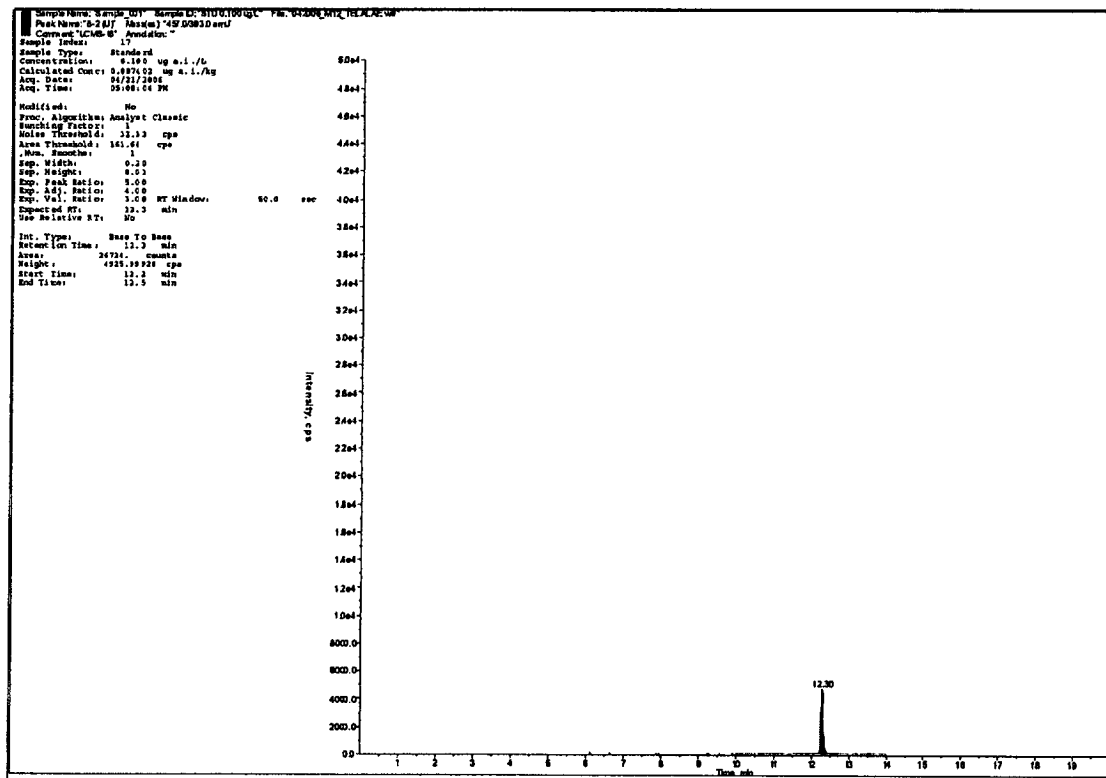


Figure 13. Representative ion chromatogram for 8-2 FTUA in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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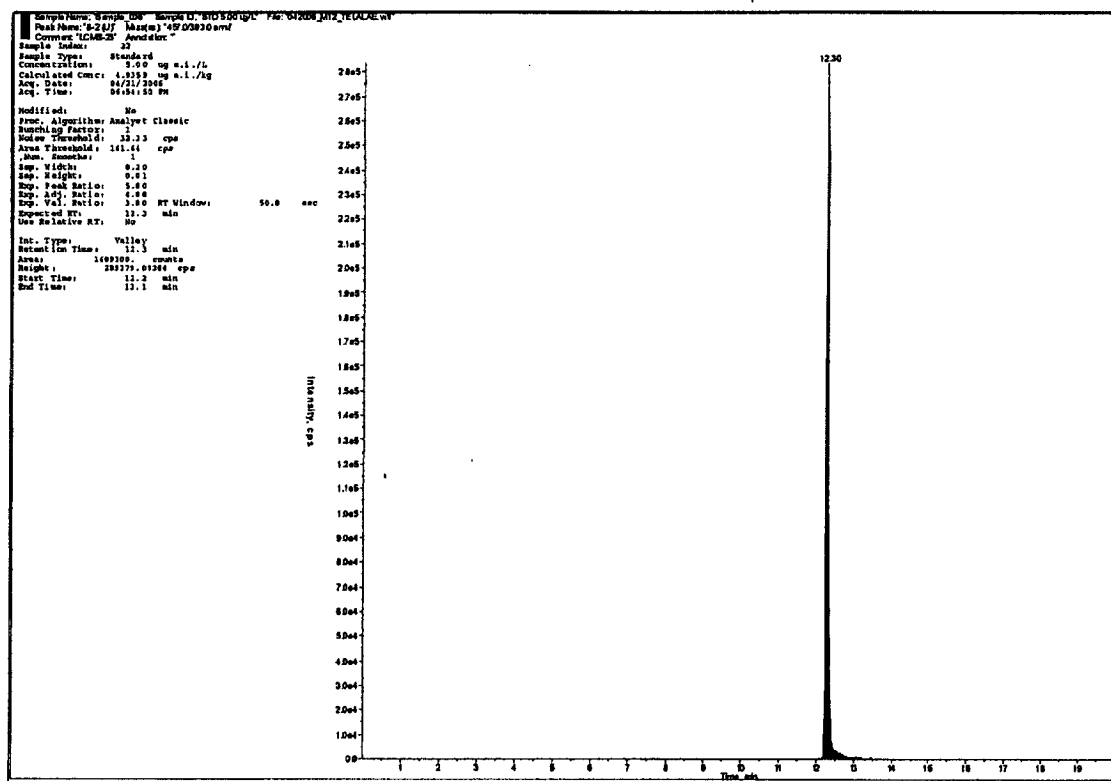


Figure 14. Representative ion chromatogram for 8-2 FTUA in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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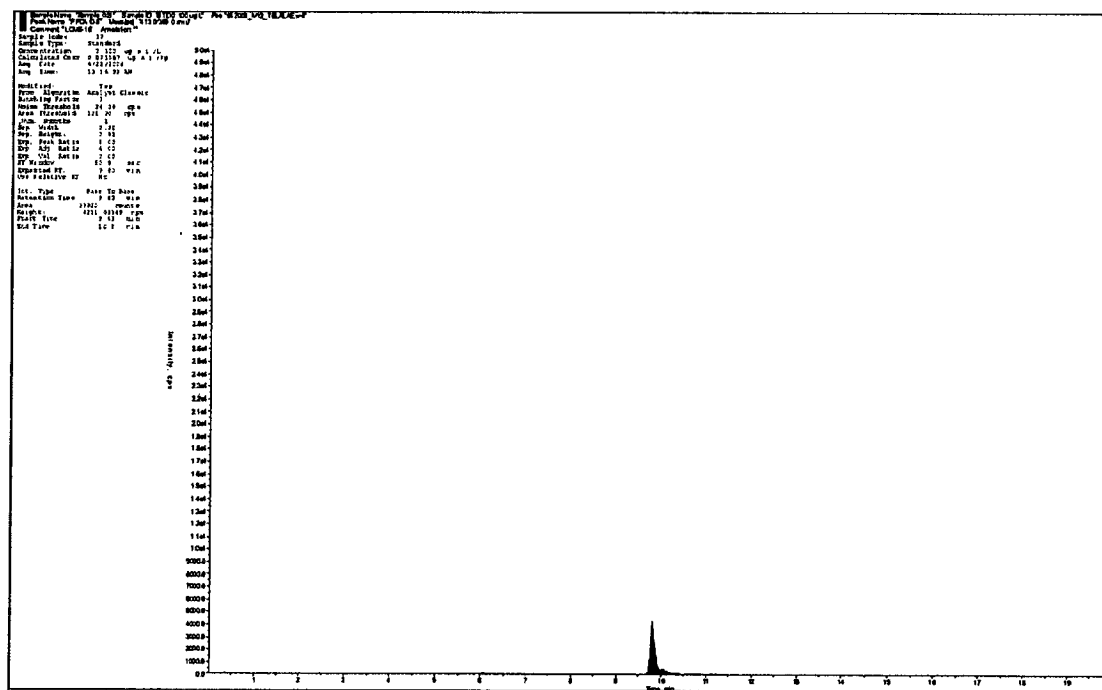


Figure 15. Representative ion chromatogram for PFOA in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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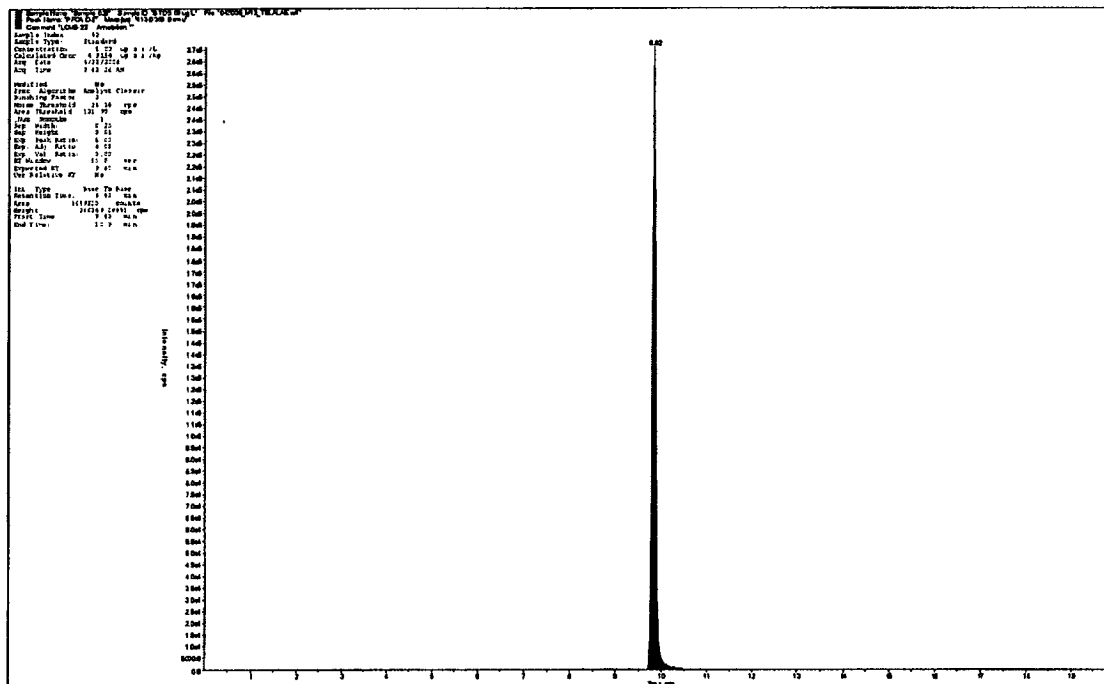


Figure 16. Representative ion chromatogram for PFOA in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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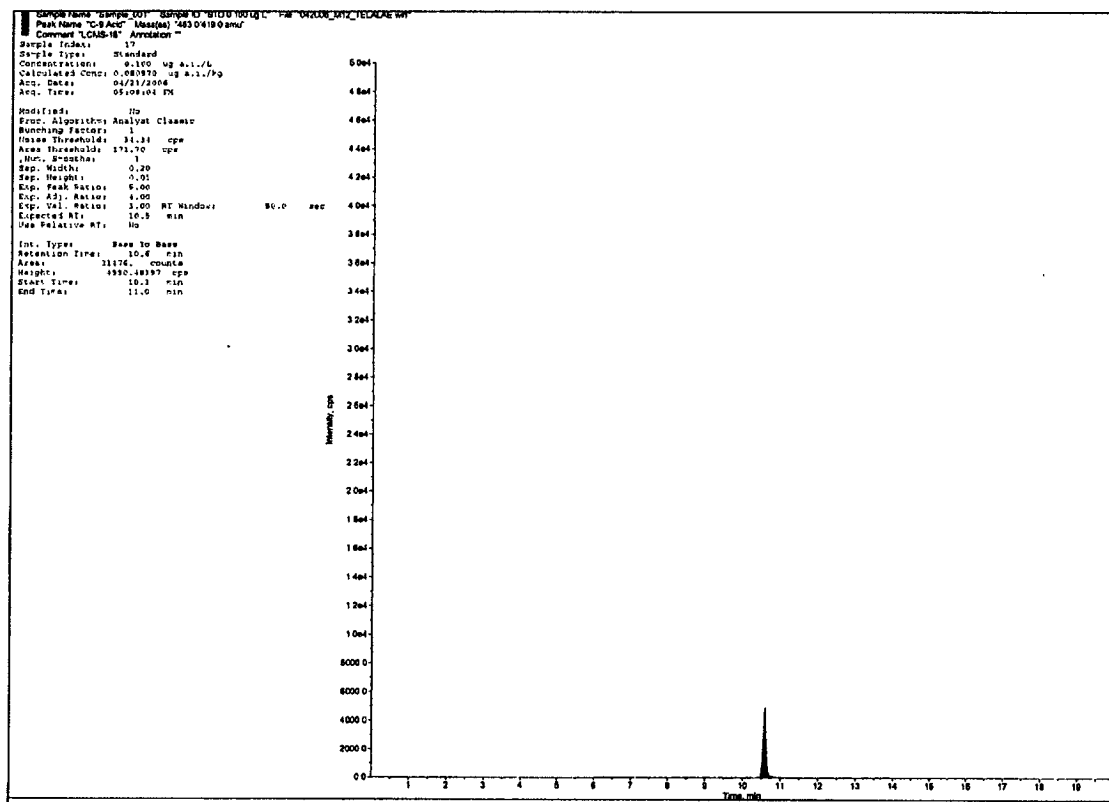


Figure 17. Representative ion chromatogram for PFNA in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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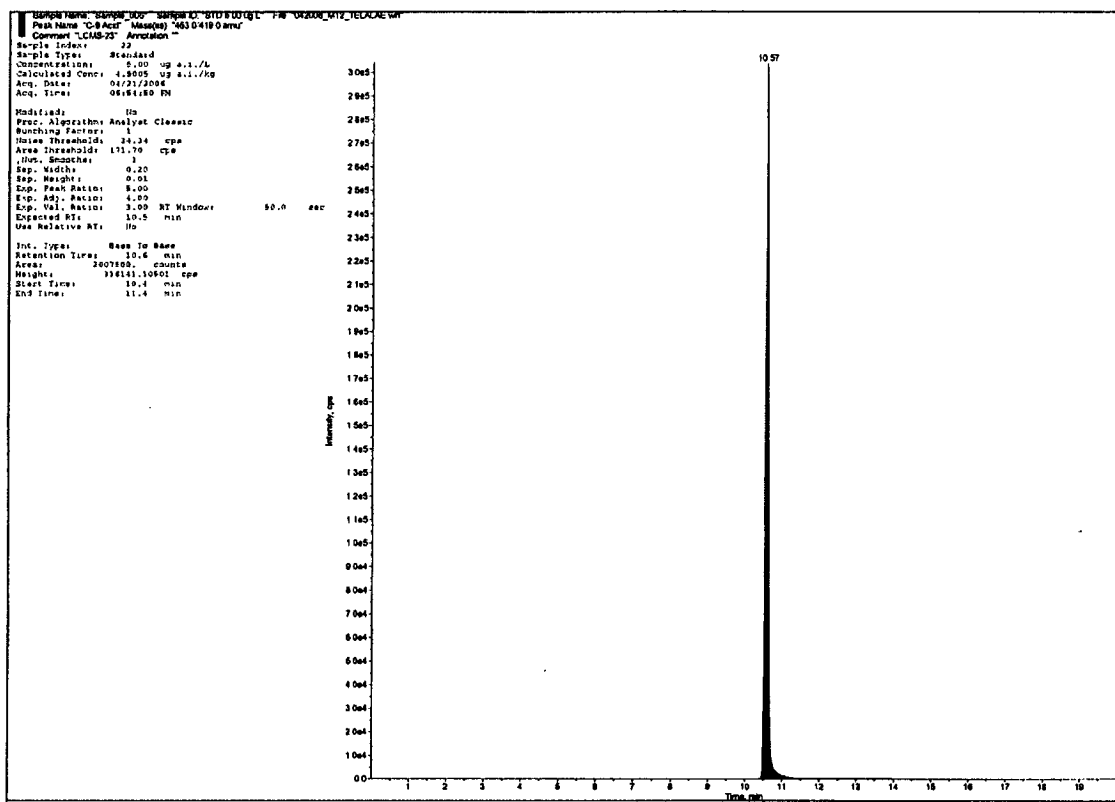


Figure 18. Representative ion chromatogram for PFNA in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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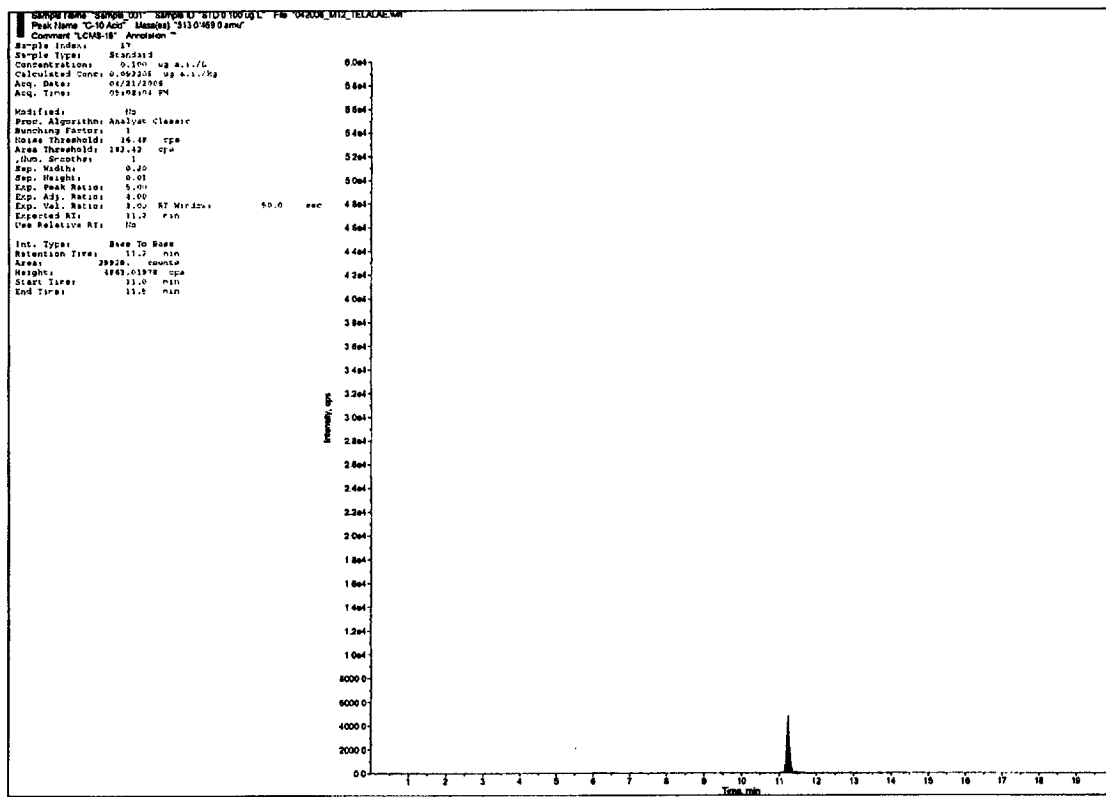


Figure 19. Representative ion chromatogram for PFDA in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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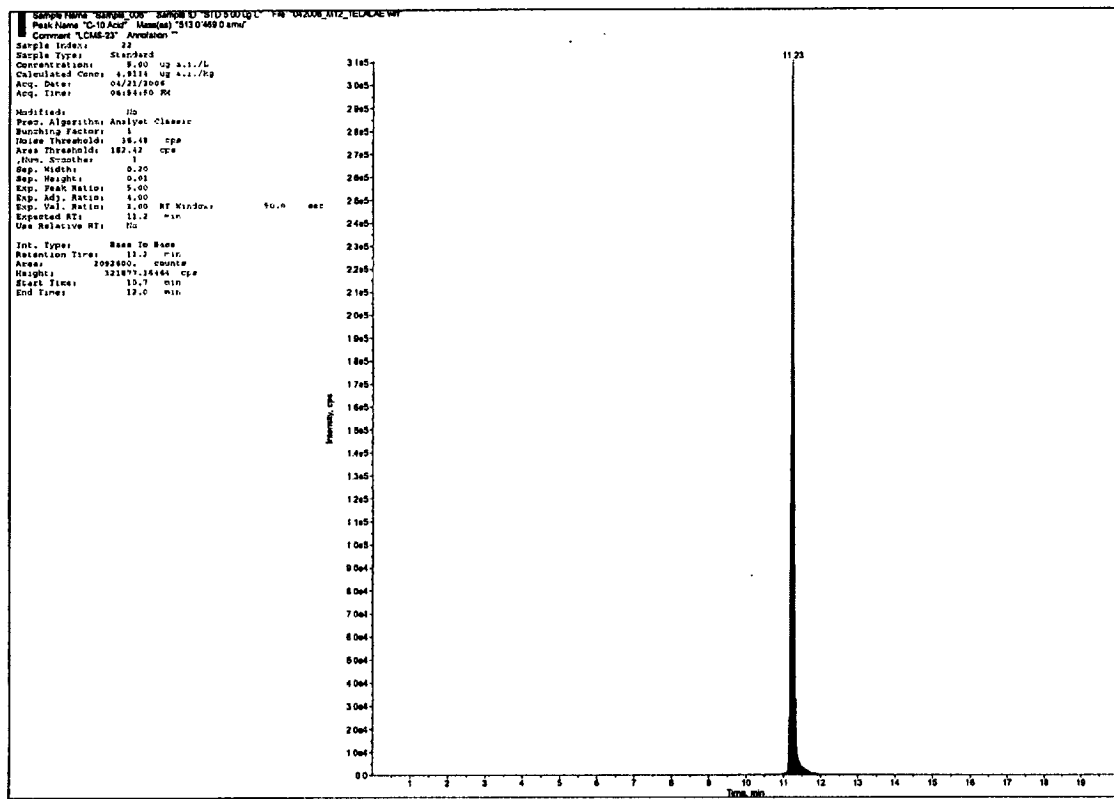


Figure 20. Representative ion chromatogram for PFDA in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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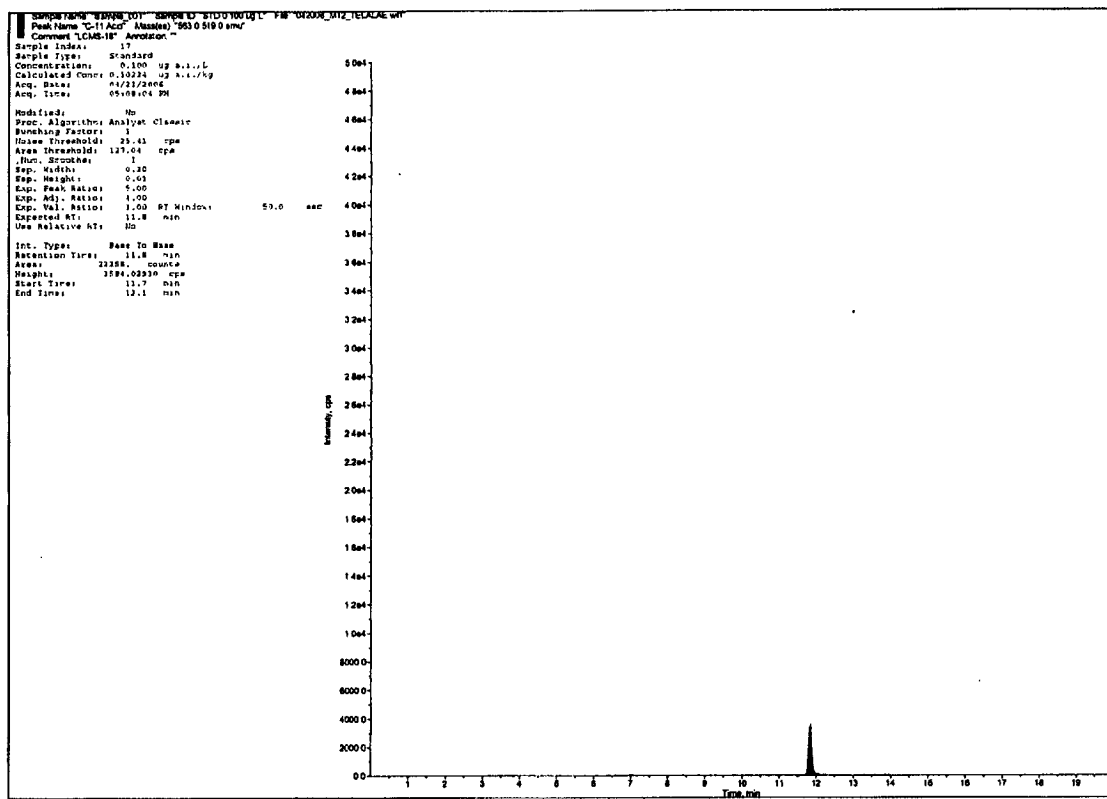


Figure 21. Representative ion chromatogram for PFUA in a low-level (0.100 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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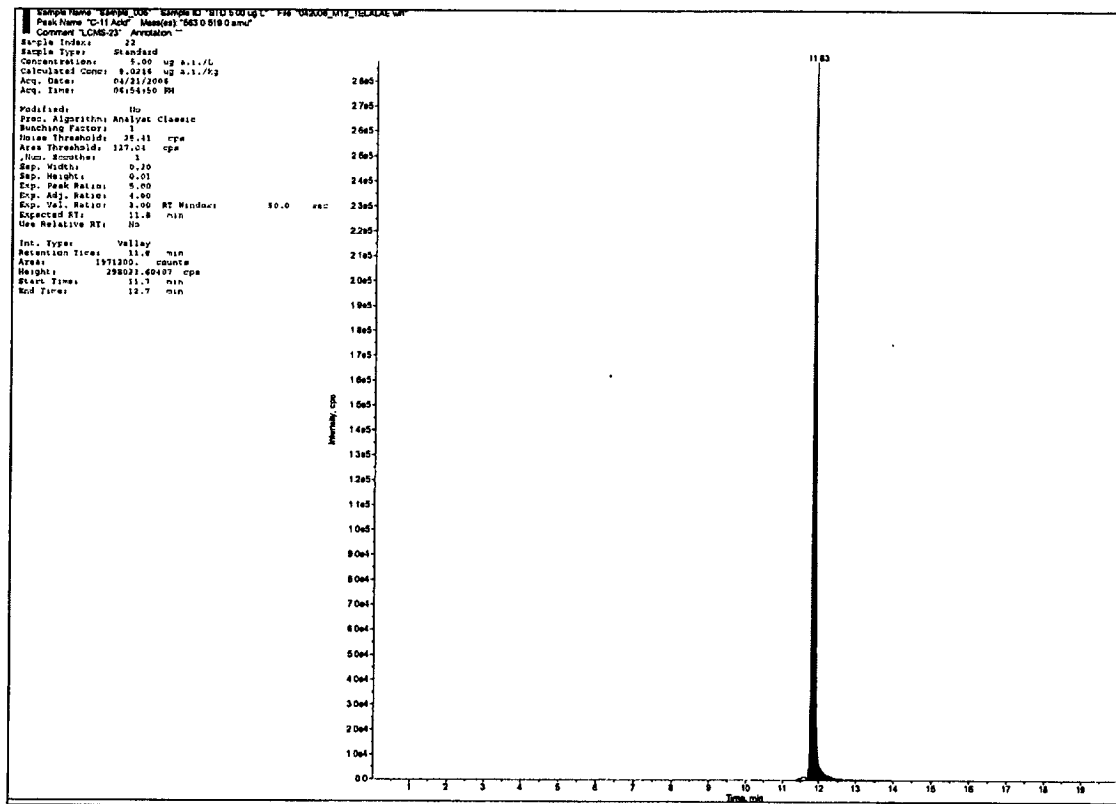


Figure 22. Representative ion chromatogram for PFUA in a high-level (5.00 ng a.i./mL) combined PFCA calibration standard by LC/MS/MS.

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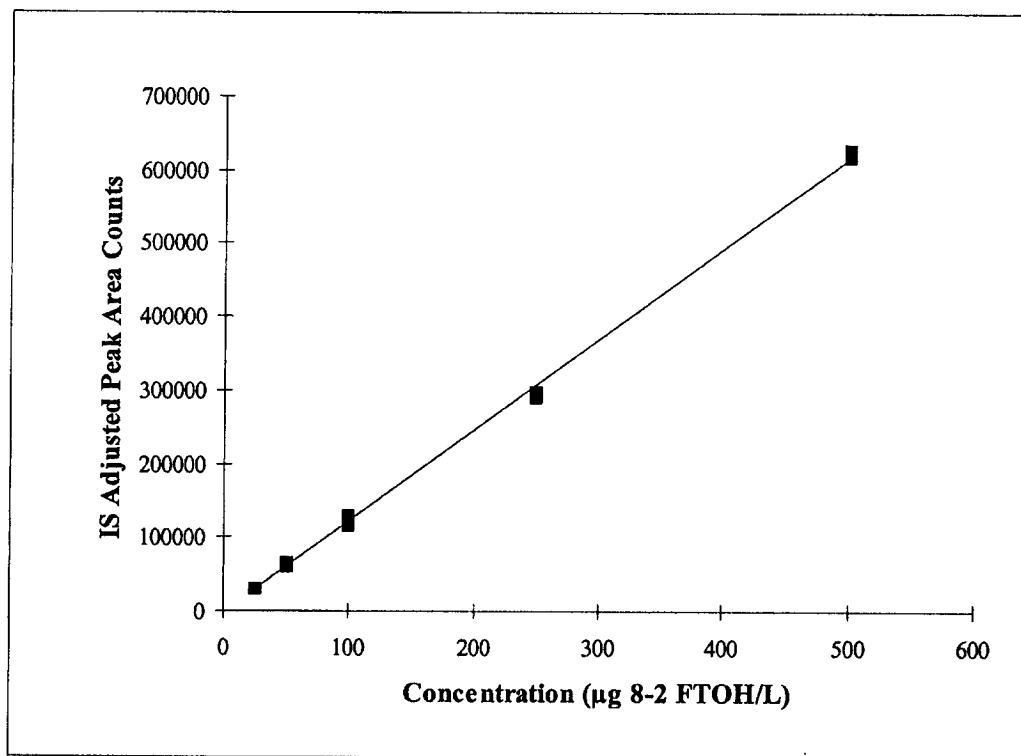


Figure 23. Representative calibration curve for 8-2 FTOH by GC/MS.

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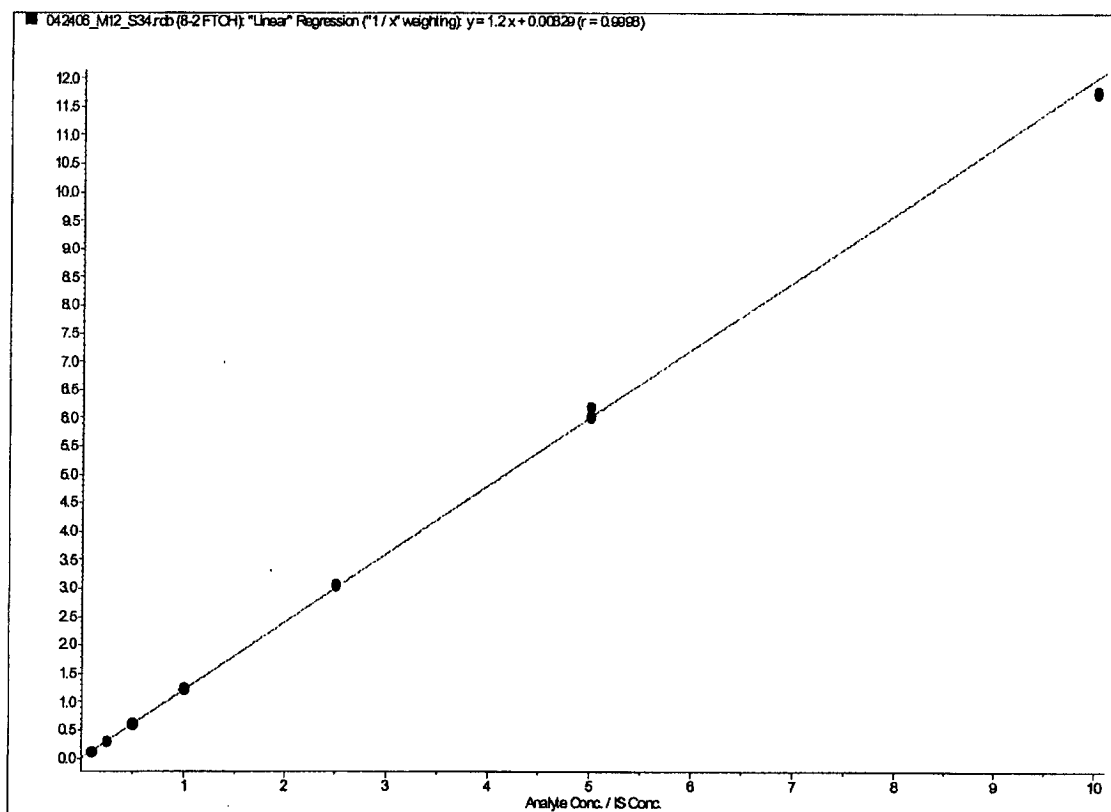


Figure 24. Representative calibration curve for 8-2 FTOH by LC/MS/MS.

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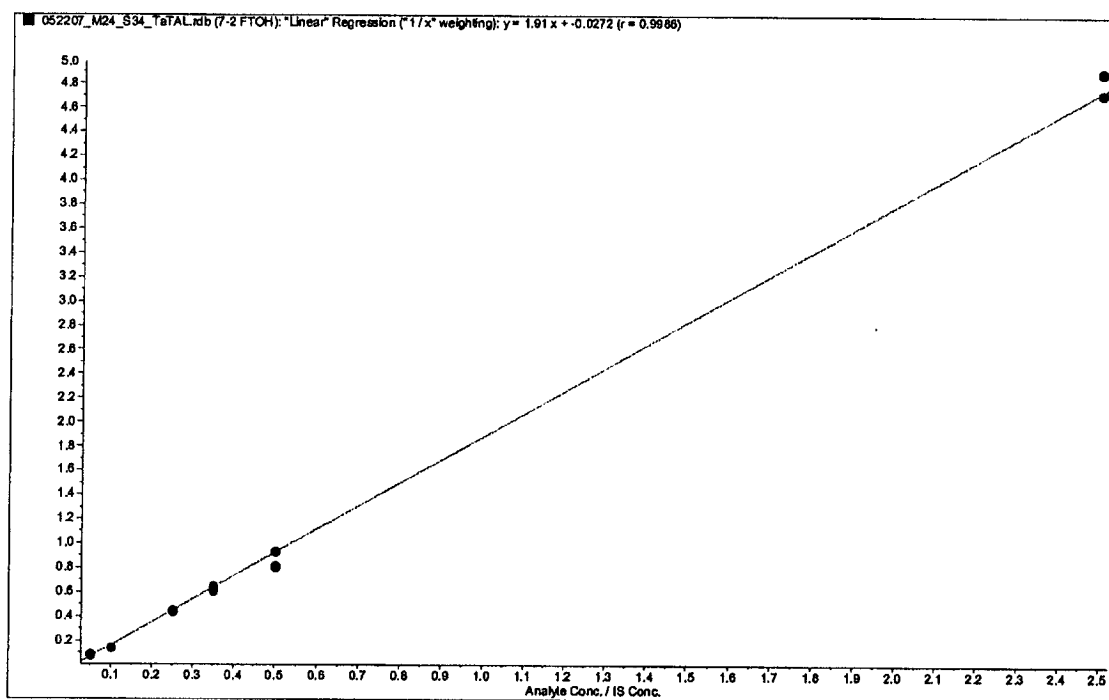


Figure 25. Representative calibration curve for 7-2 sFTOH by LC/MS/MS.

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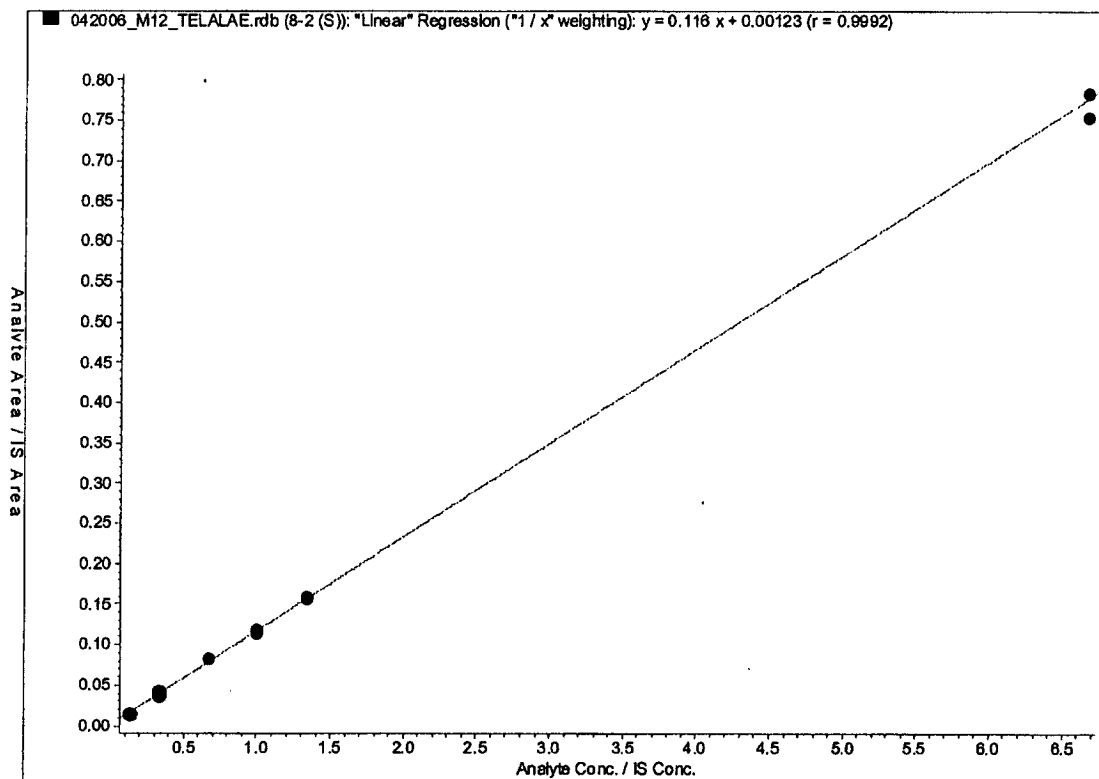


Figure 26. Representative calibration curve for 8-2 FTA by LC/MS/MS.

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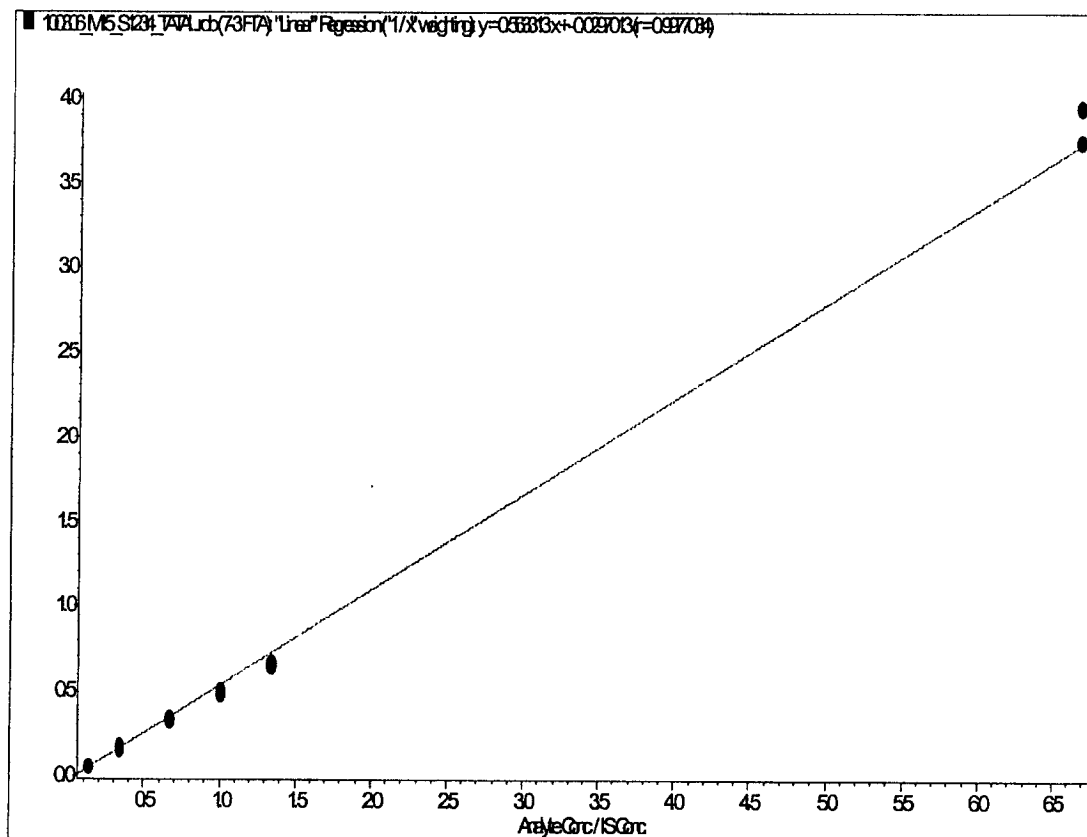


Figure 27. Representative calibration curve for 7-3 Acid by LC/MS/MS.

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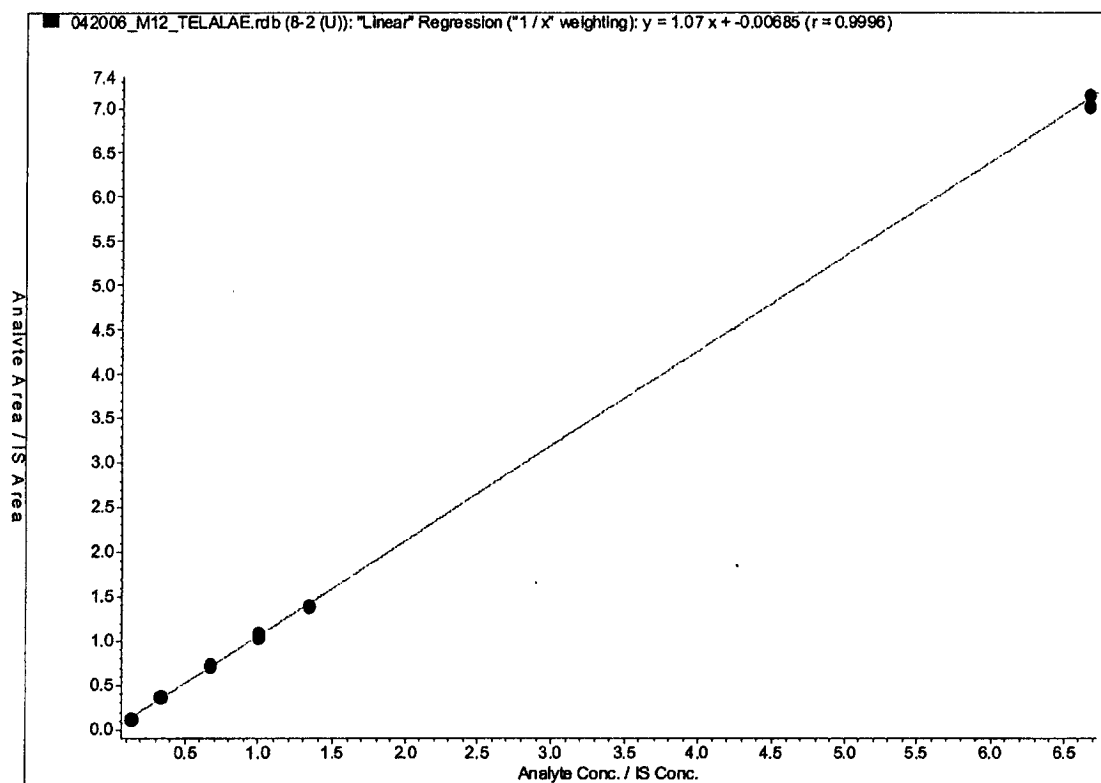


Figure 28. Representative calibration curve for 8-2 FTUA by LC/MS/MS.

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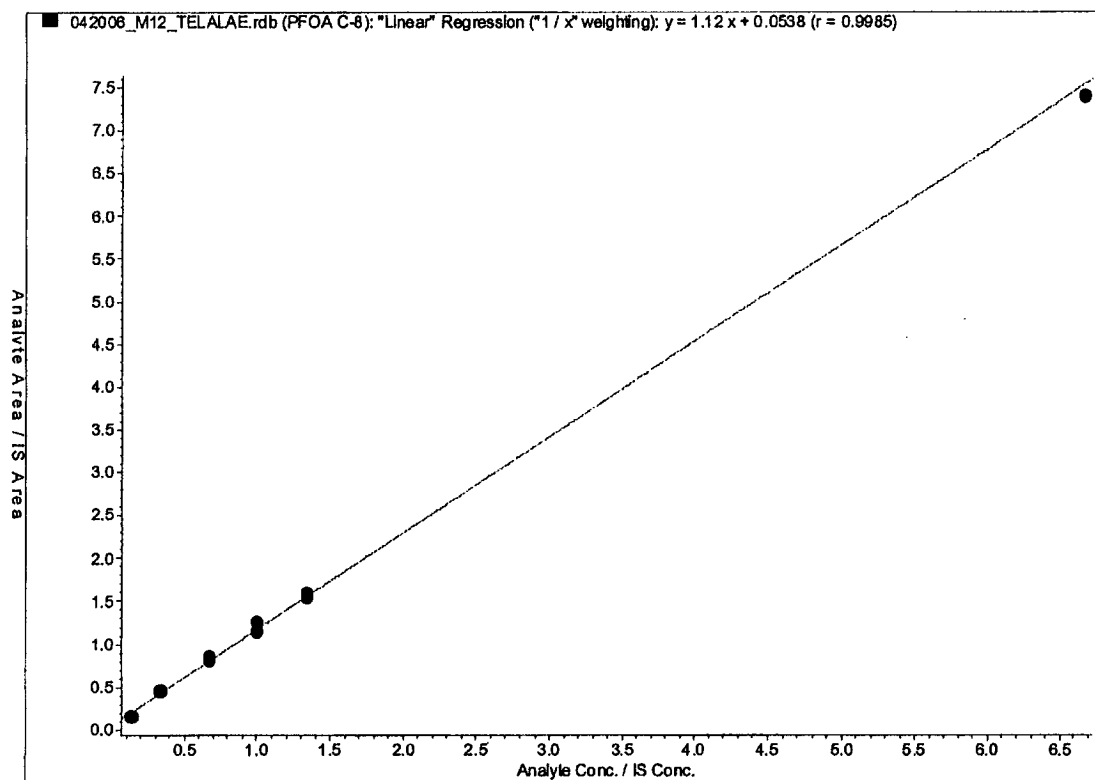


Figure 29. Representative calibration curve for PFOA by LC/MS/MS.

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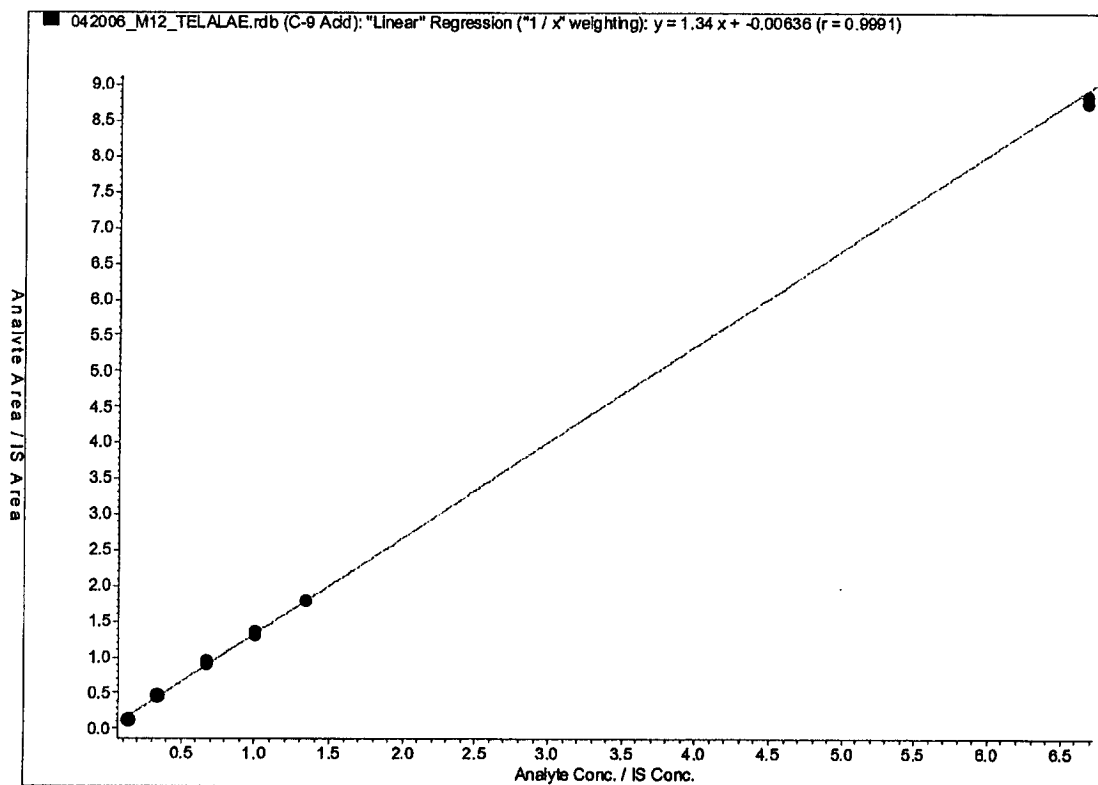


Figure 30. Representative calibration curve for PFNA by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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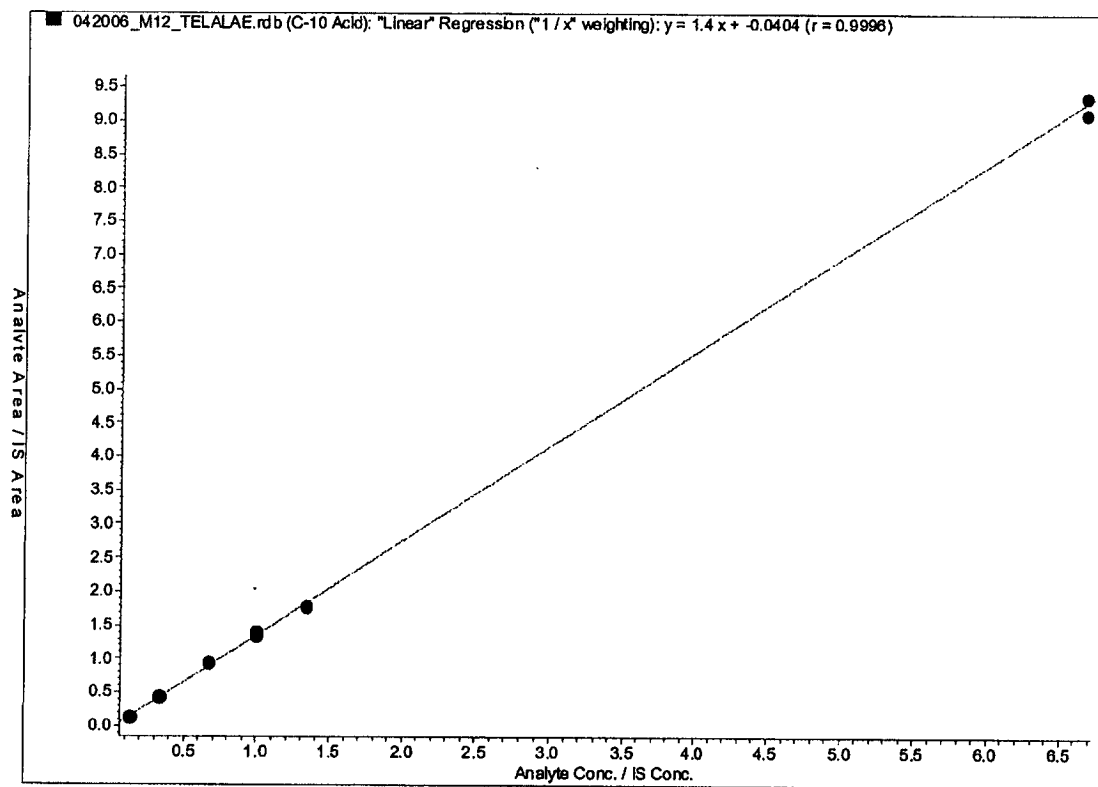


Figure 31. Representative calibration curve for PFDA by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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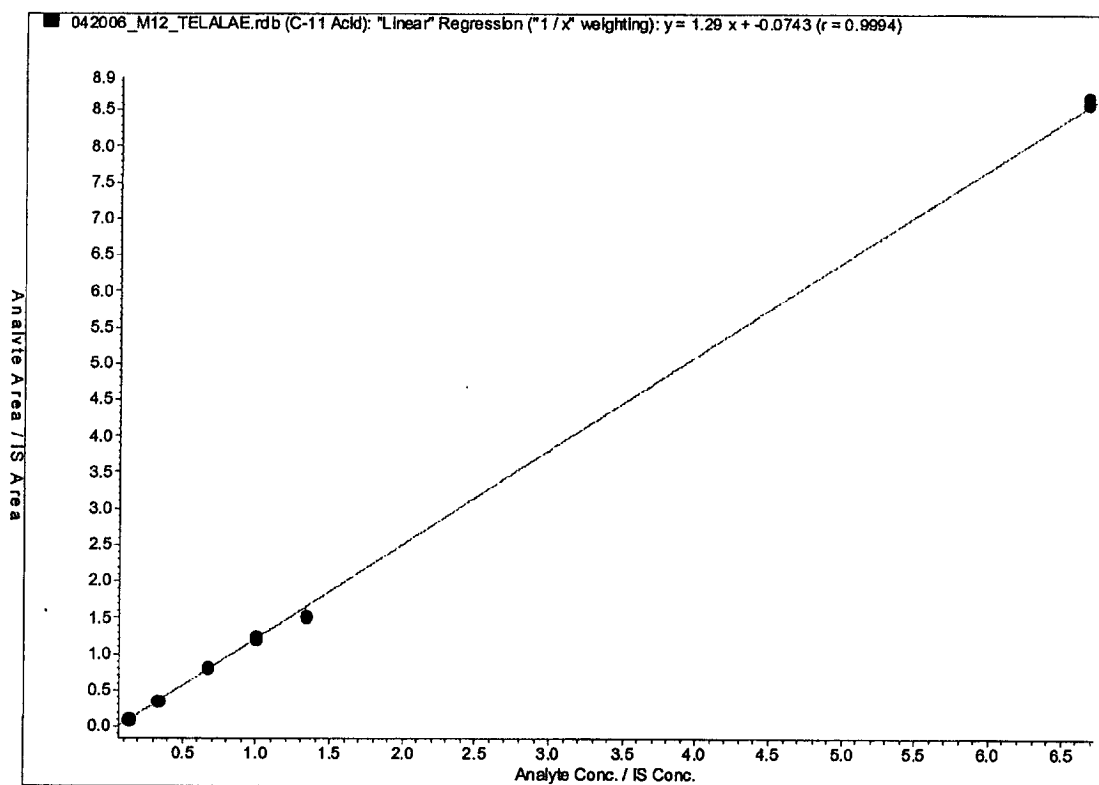


Figure 32. Representative calibration curve for PFUA by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: C:\HPCHEM\1\DATA\ALFI005\0701011.D  
Operator: fjl  
Date Acquired: 30 Apr 105 4:10 pm  
Instrument: GCMS#2  
Sample Name: 1570-TEX  
Misc Info:  
Vial Number : 7

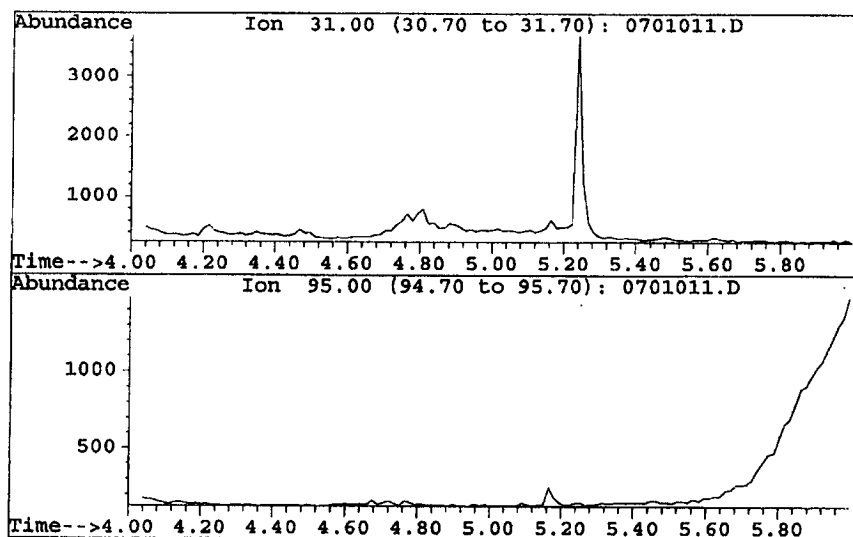


Figure 33. Representative ion chromatograms for 8-2 FTOH in the sampled headspace ( $C_{18}$  cartridge extract) from a Day 0 untreated control soil by GC/MS.

8-2 FTOH was not present (no peak at 5.0 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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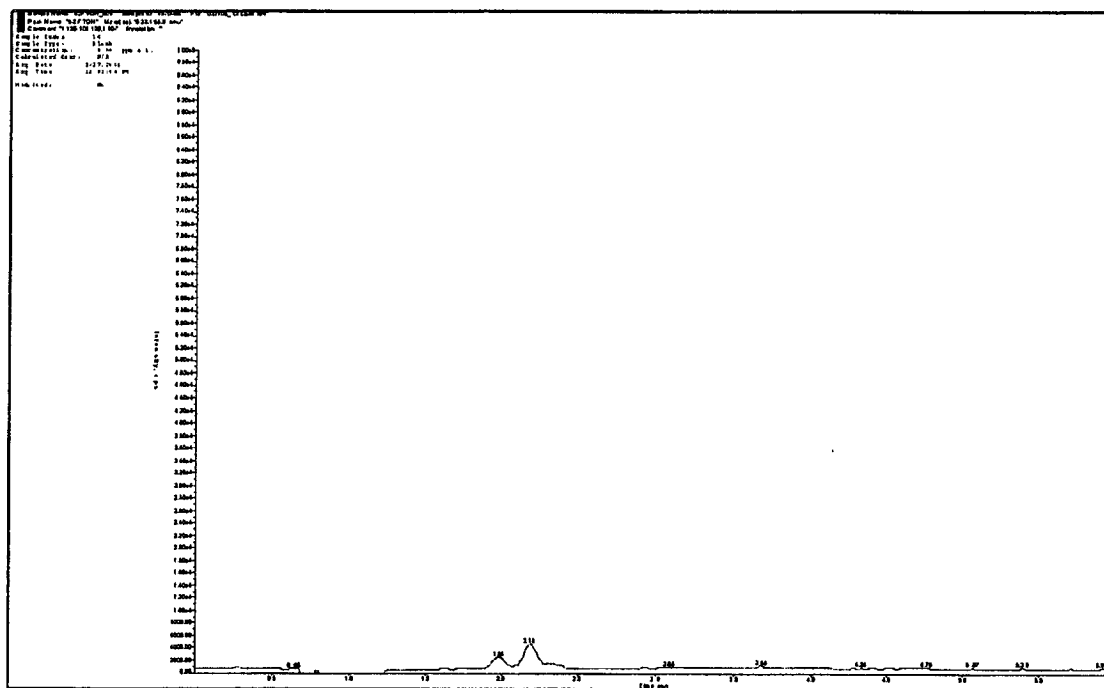


Figure 34. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

8-2 FTOH was not present (no peak at 4.18 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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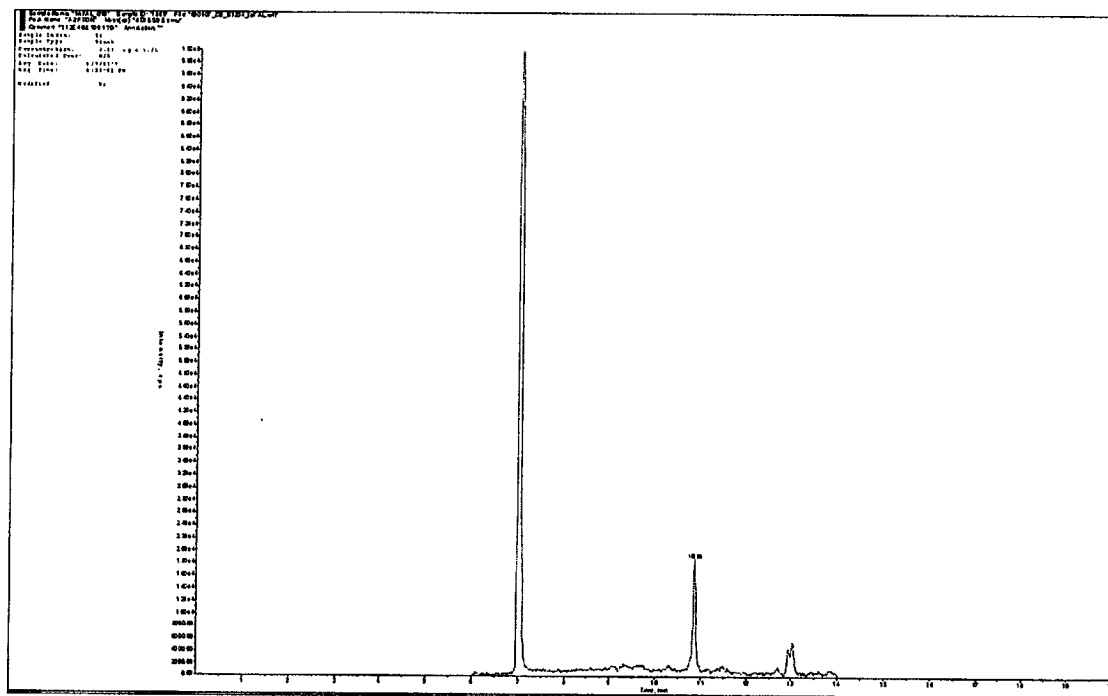


Figure 35. Representative ion chromatogram for 7-2 sFTOH in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

7-2 sFTOH was not present (no peak at 11.9 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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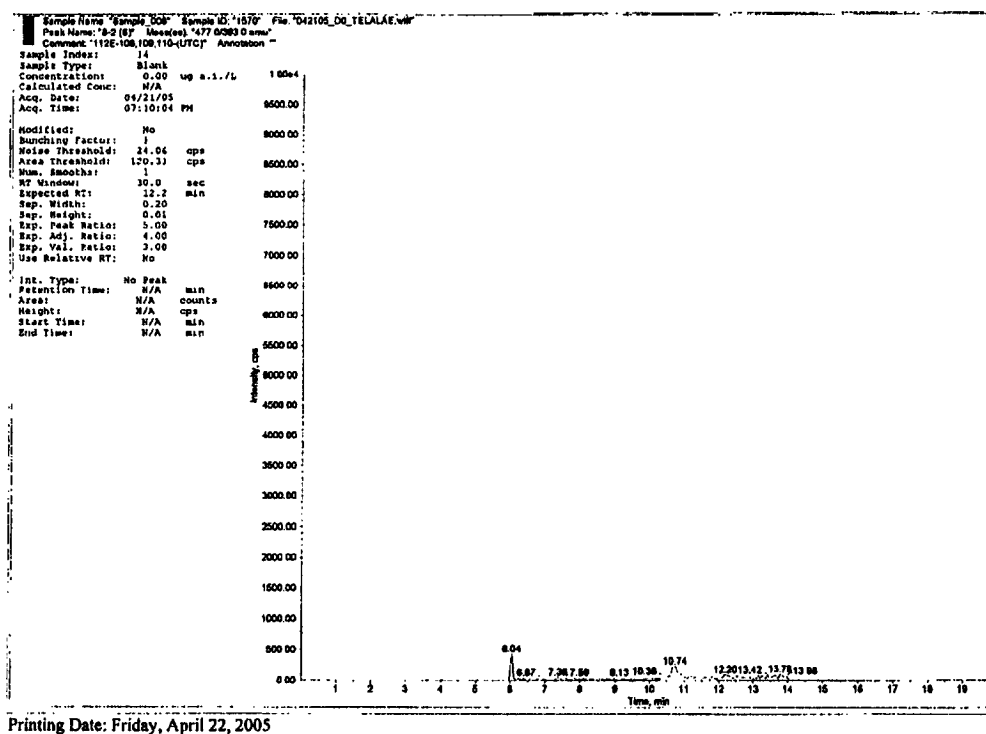


Figure 36. Representative ion chromatogram for 8-2 FTA in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

8-2 FTA was not present (no peak at 12.2 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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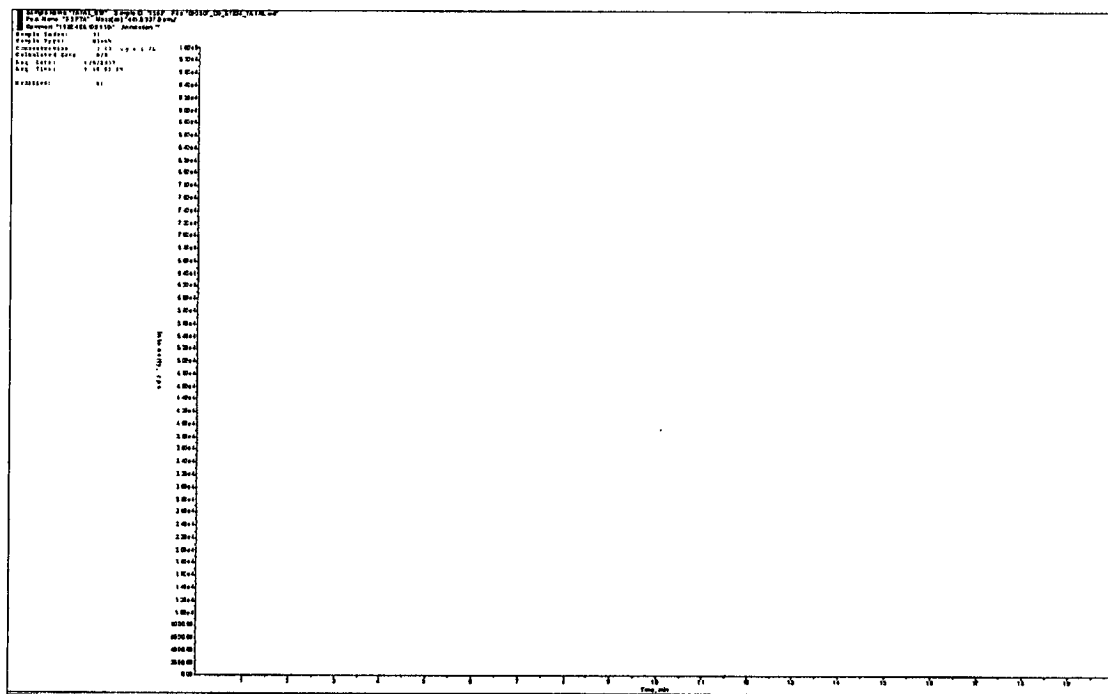


Figure 37. Representative ion chromatogram for 7-3 Acid in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

7-3 Acid was not present (no peak at 11.6 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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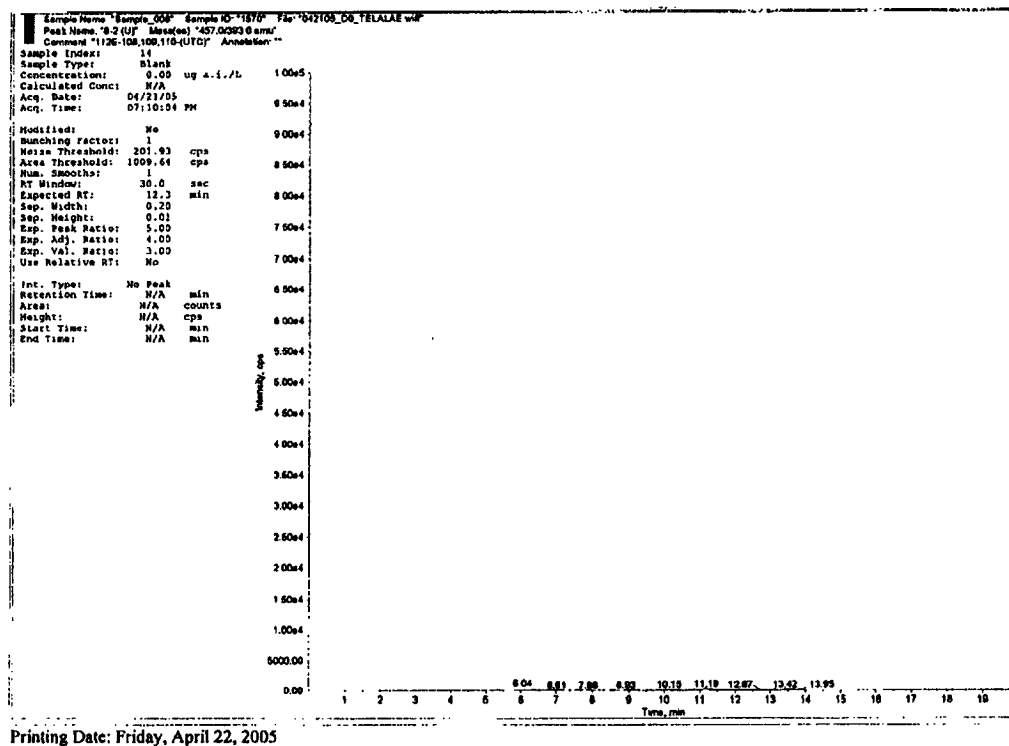


Figure 38. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

8-2 FTUA was not present (no peak at 12.3 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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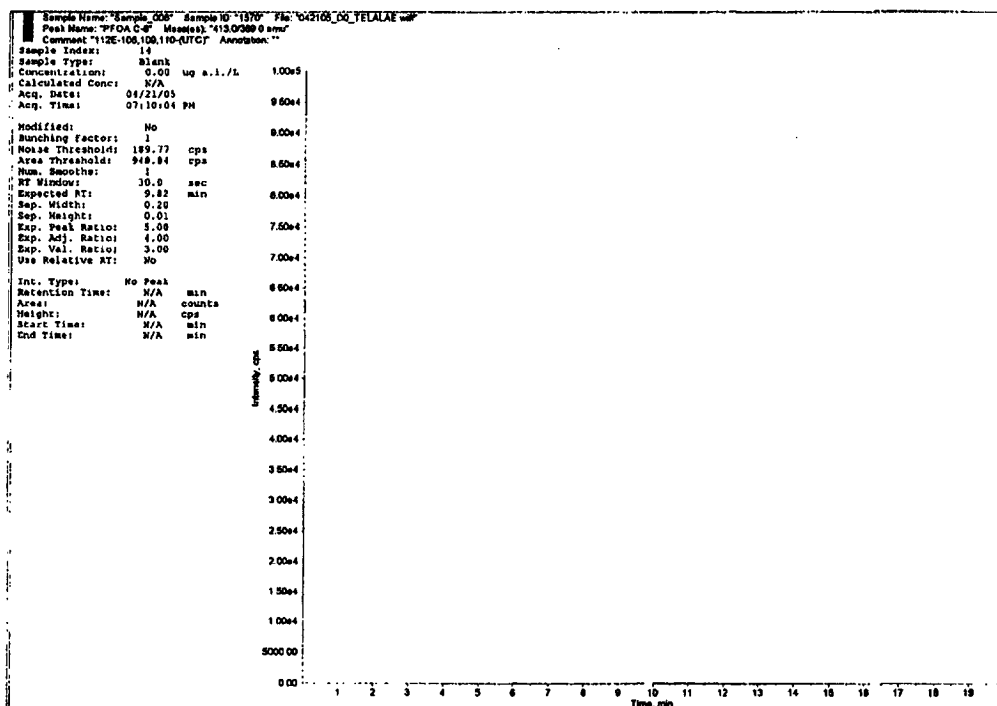


Figure 39. Representative ion chromatogram for PFOA in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

PFOA was not present (no peak at 9.82 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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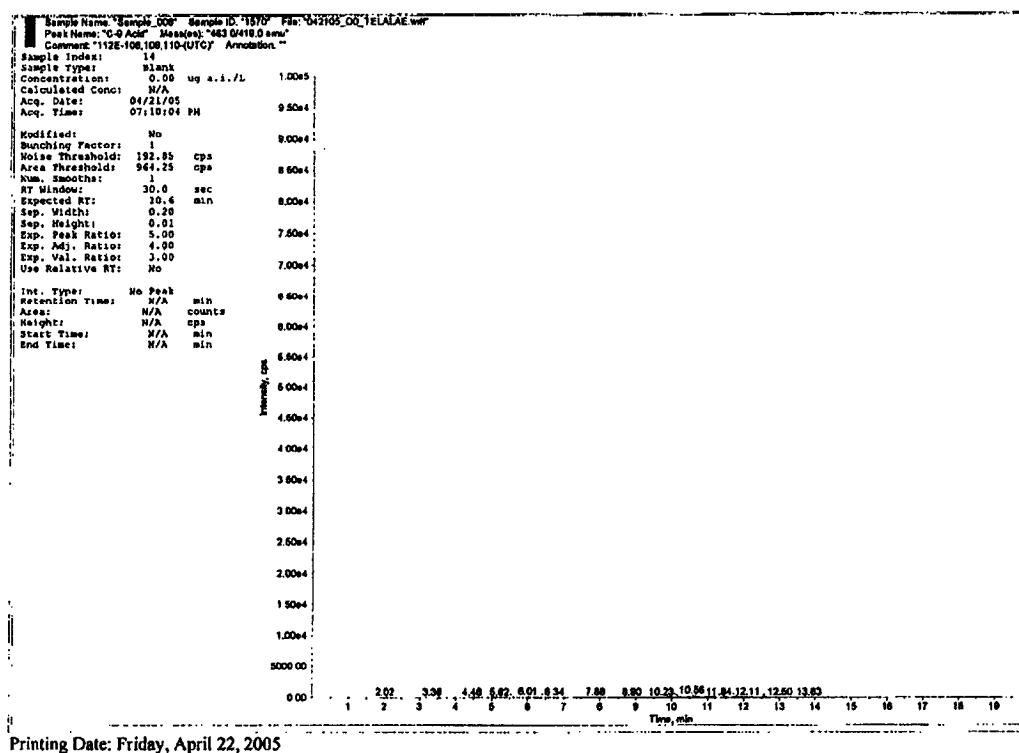


Figure 40. Representative ion chromatogram for PFNA in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

PFNA was not present (no peak at 10.6 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

- 86 -

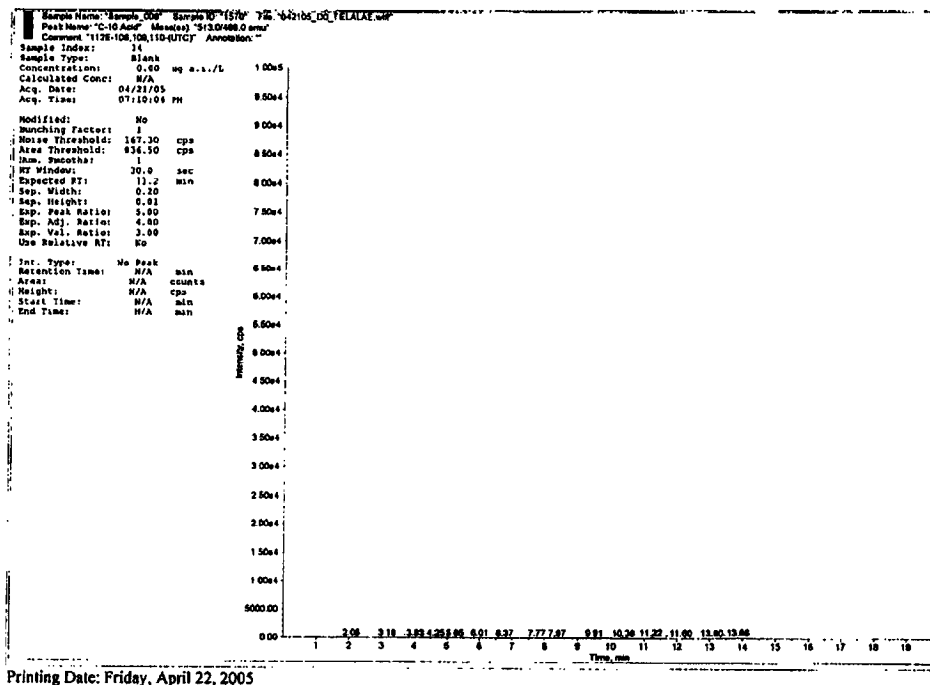


Figure 41. Representative ion chromatogram for PFDA in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

PFDA was not present (no peak at 11.2 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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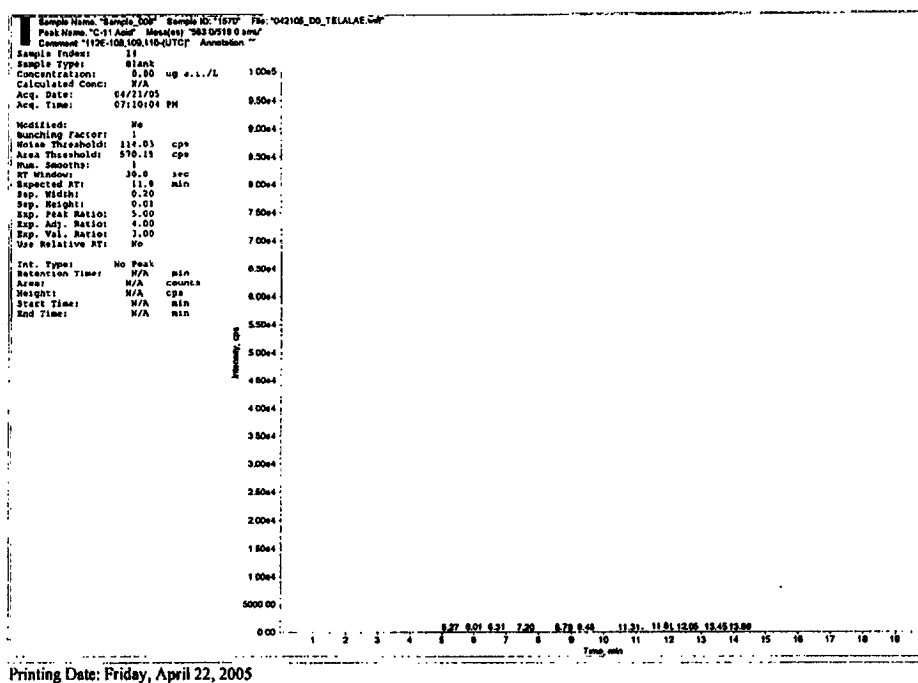


Figure 42. Representative ion chromatogram for PFUA in the soil extract from a Day 0 untreated control soil by LC/MS/MS.

PFUA was not present (no peak at 11.8 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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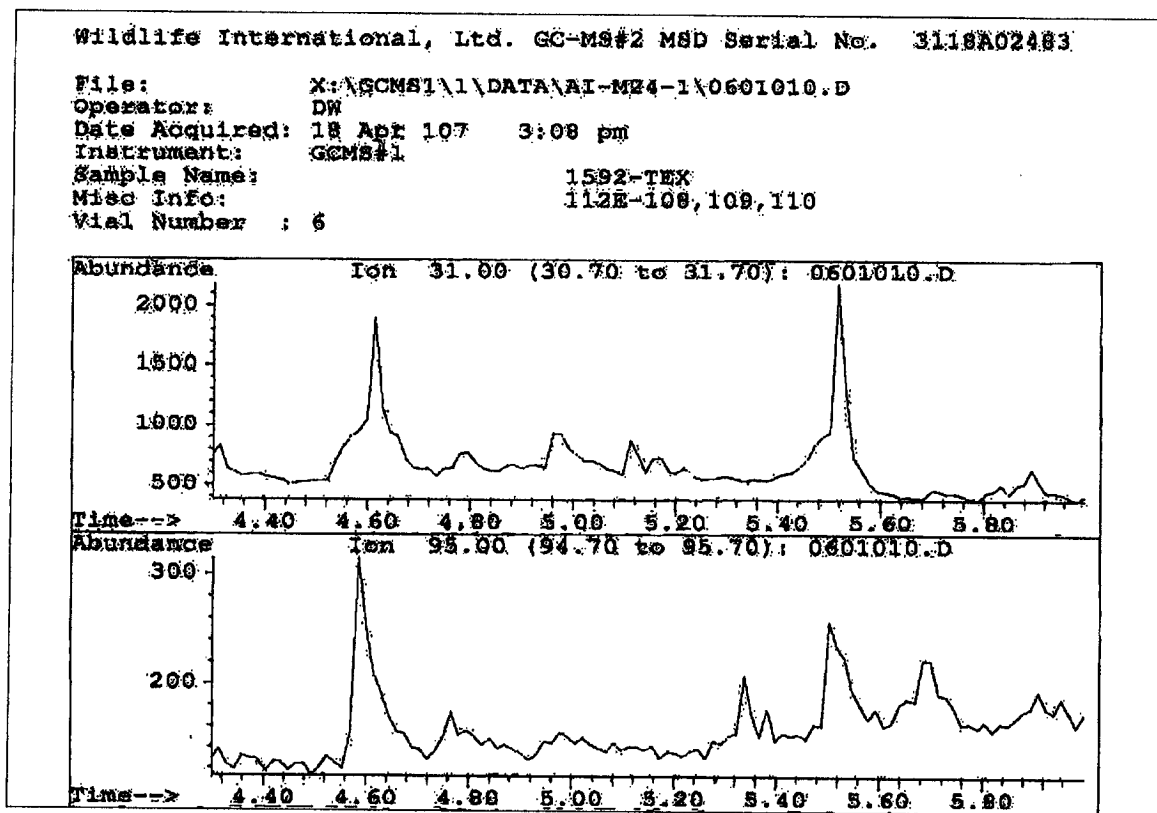


Figure 43. Representative ion chromatograms for 8-2 FTOH in the sampled headspace ( $C_{18}$  cartridge extract) from a Month 24 untreated control soil by GC/MS.

8-2 FTOH was not present (no peak at 5.0 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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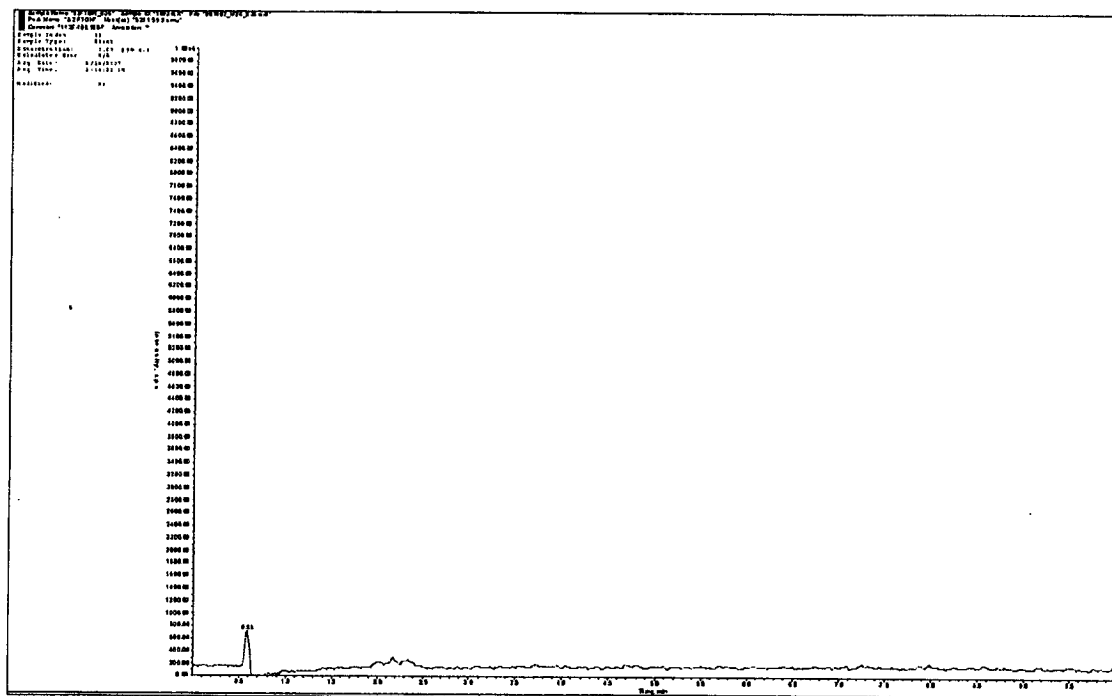


Figure 44. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

8-2 FTOH was not present (no peak at 4.18 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

- 90 -

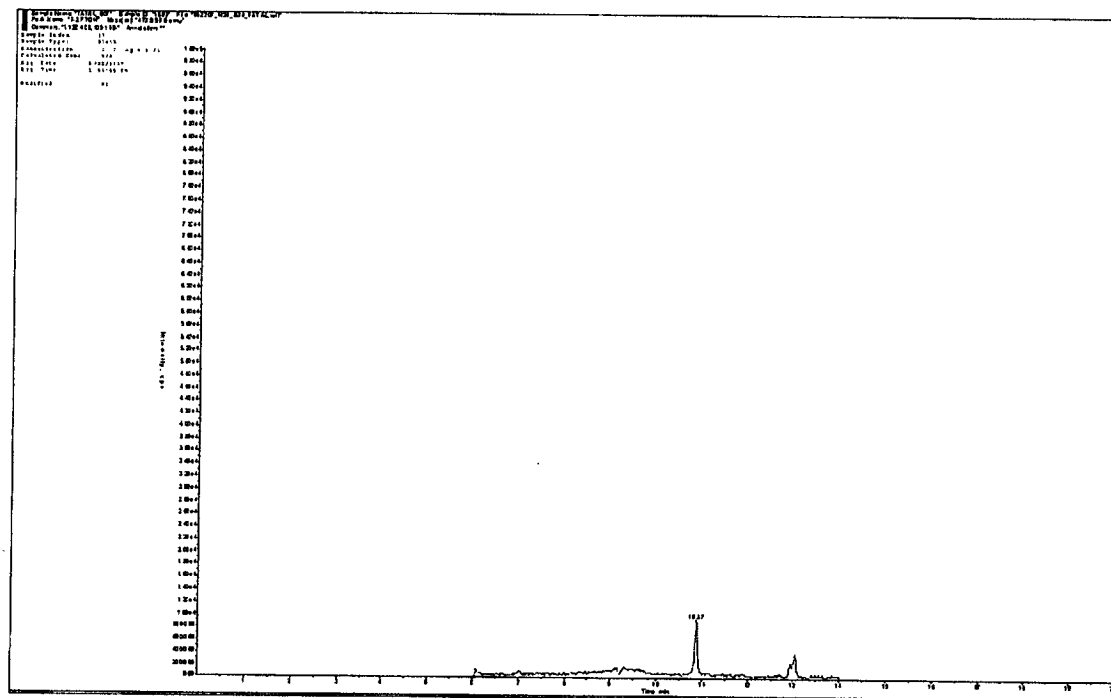


Figure 45. Representative ion chromatogram for 7-2 sFTOH in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

7-2 sFTOH was not present (no peak at 11.9 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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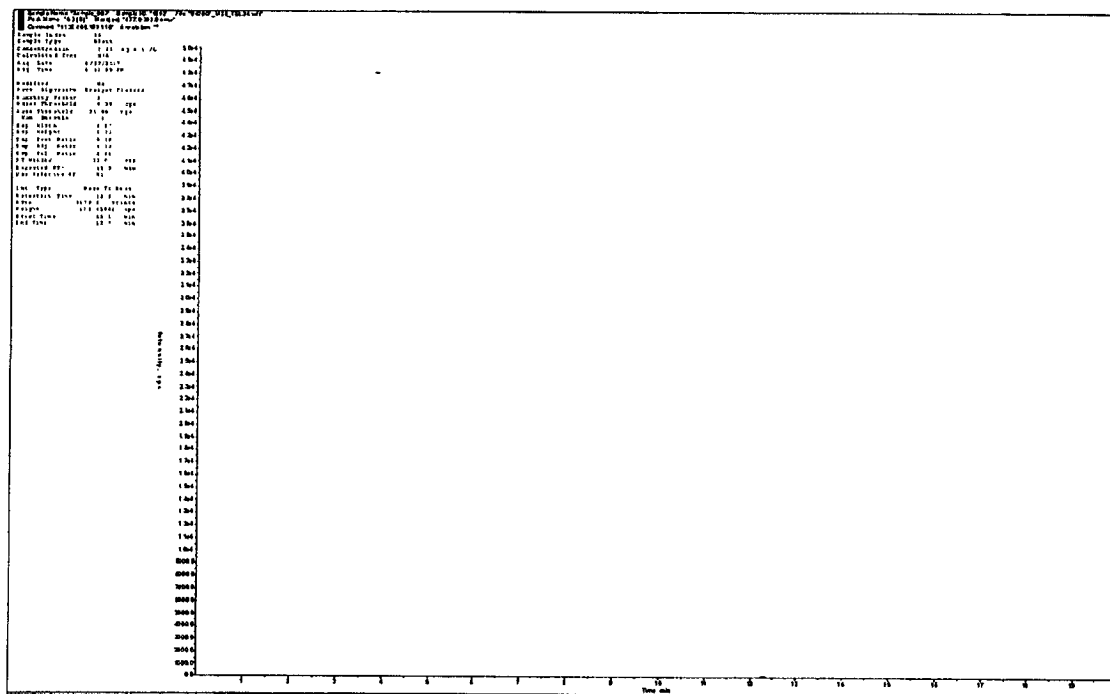


Figure 46. Representative ion chromatogram for 8-2 FTA in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

Trace 8-2 FTA at 12.3 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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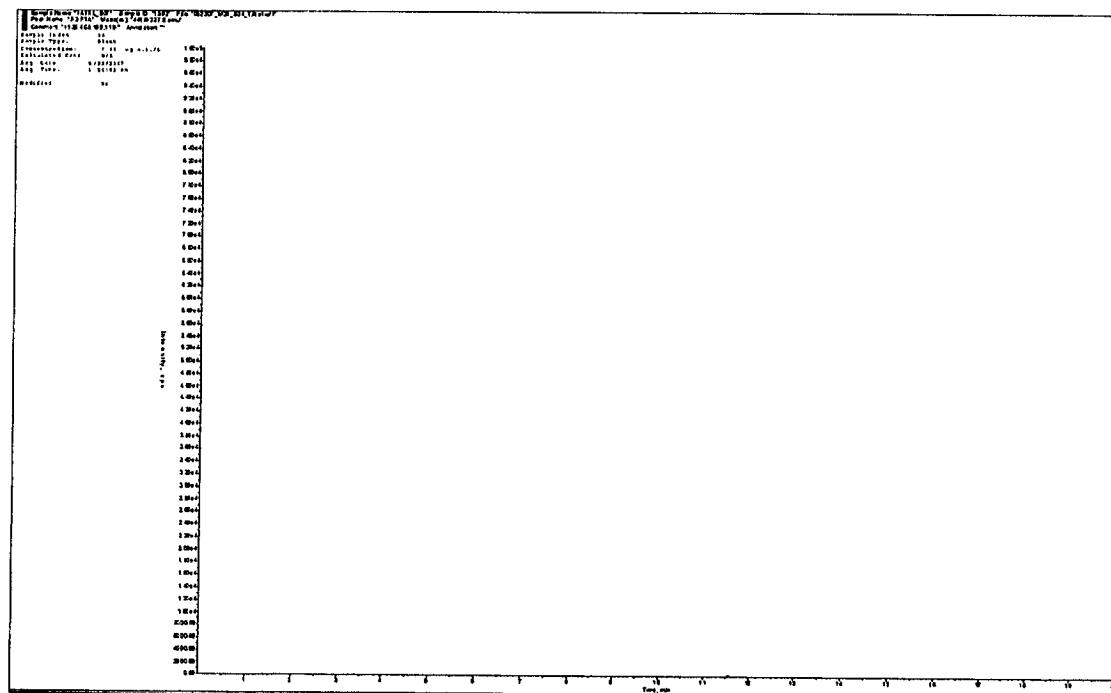


Figure 47. Representative ion chromatogram for 7-3 Acid in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

7-3 Acid was not present (no peak at 11.6 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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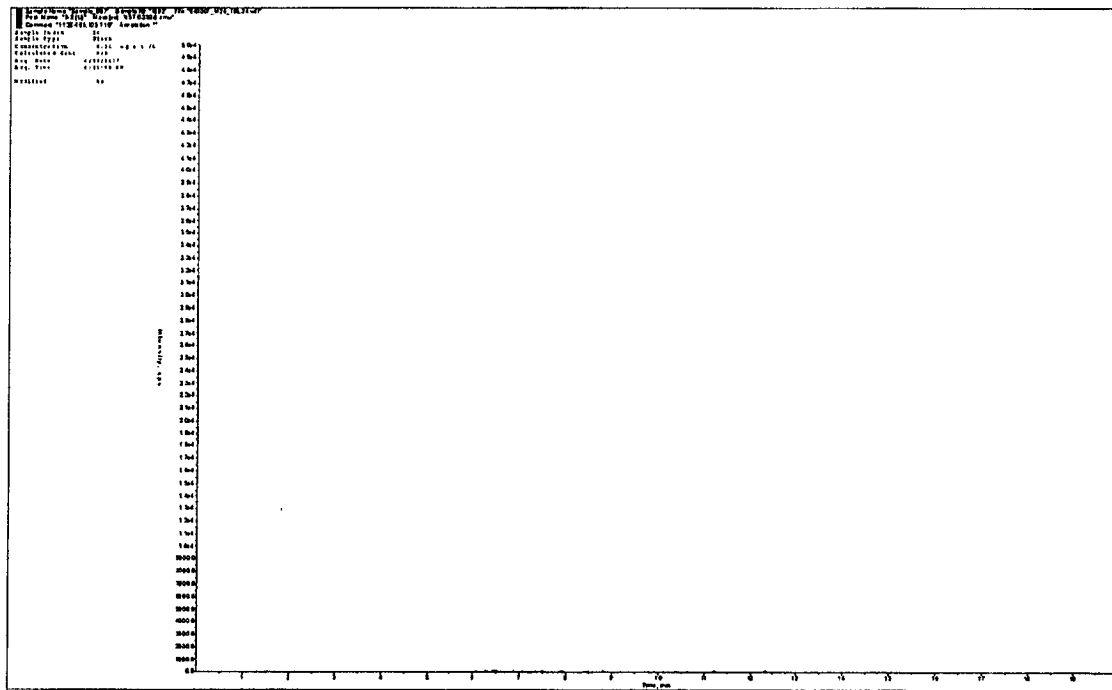


Figure 48. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

8-2 FTUA was not present (no peak at 12.3 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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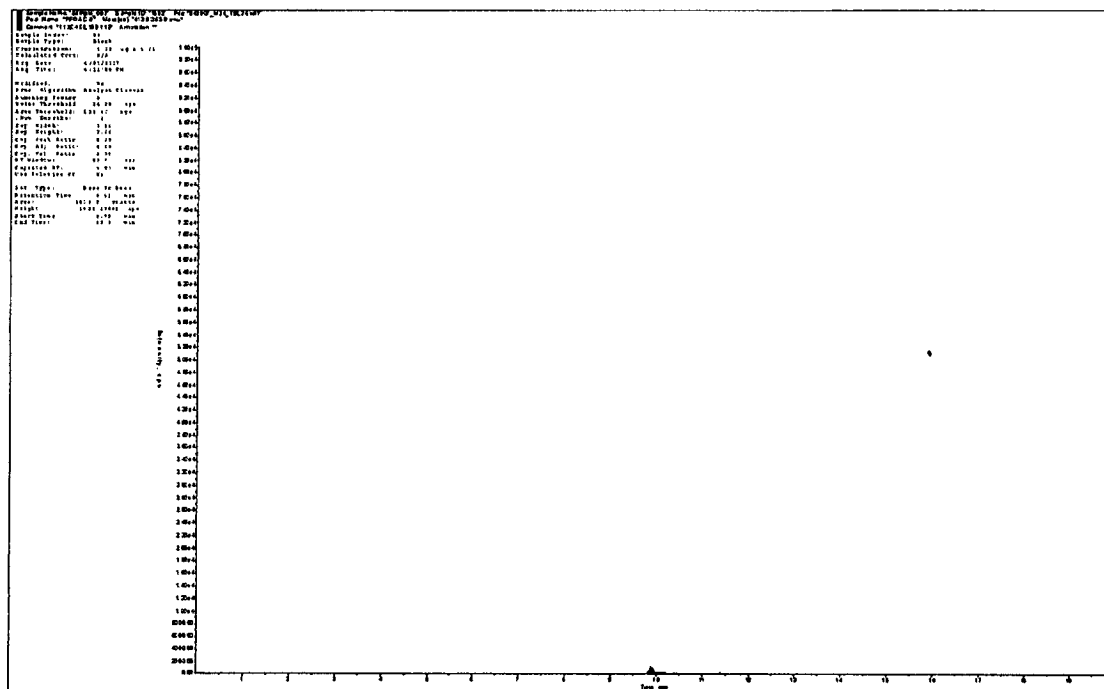


Figure 49. Representative ion chromatogram for PFOA in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

Trace PFOA at 9.91 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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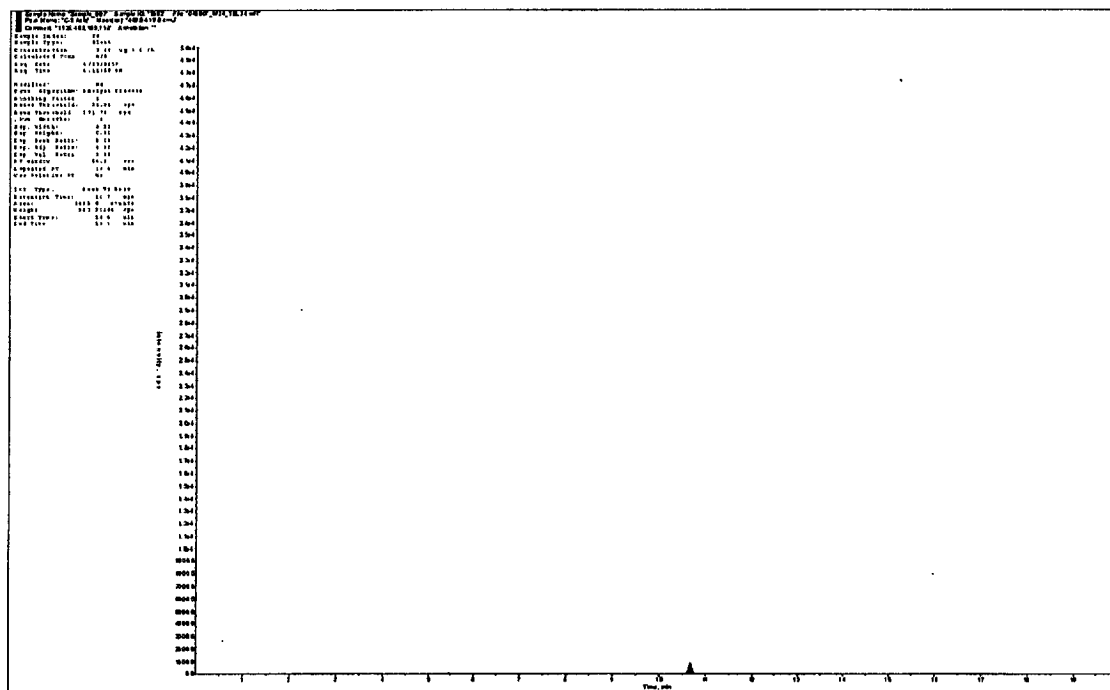


Figure 50. Representative ion chromatogram for PFNA in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

Trace PFNA at 10.7 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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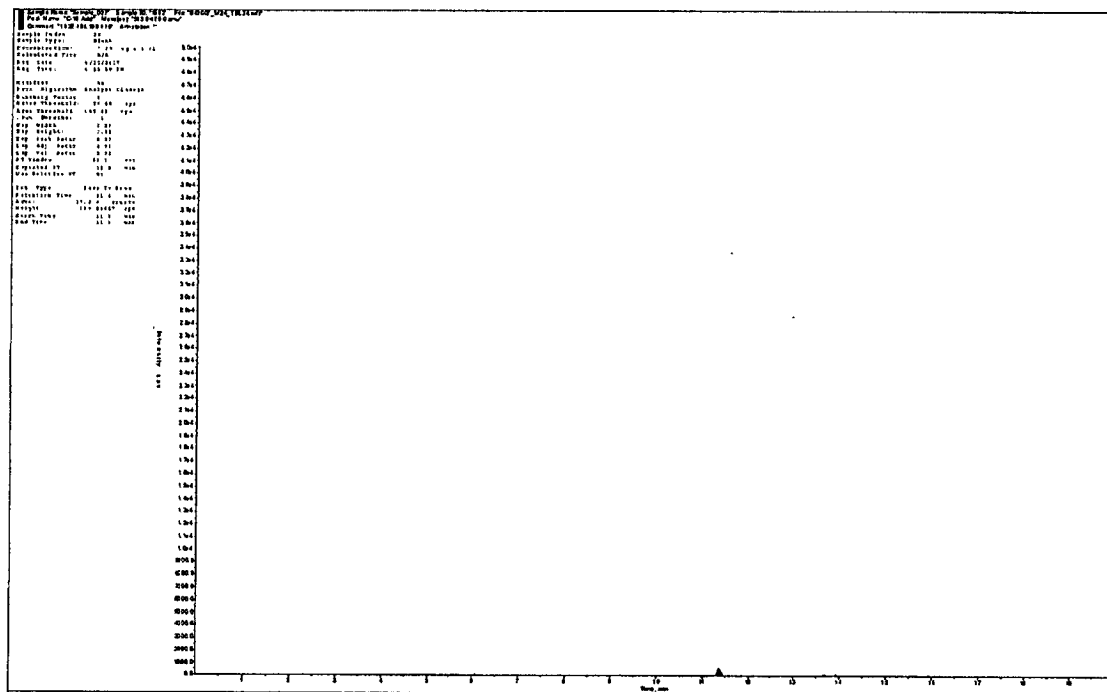


Figure 51. Representative ion chromatogram for PFDA in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

Trace PFDA at 11.4 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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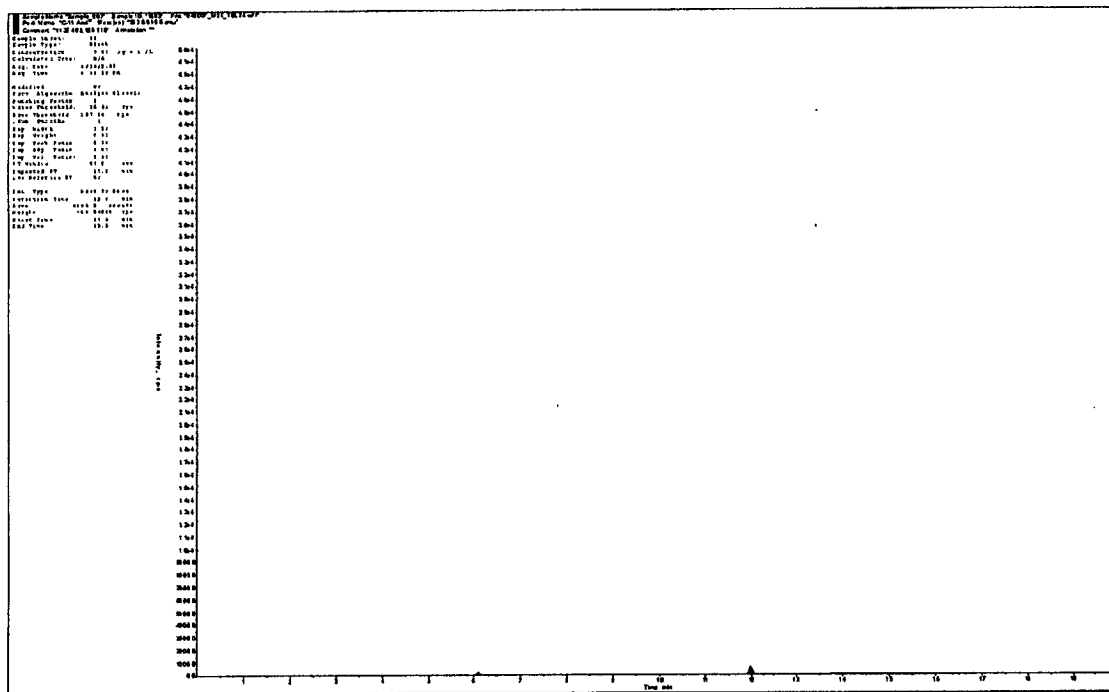


Figure 52. Representative ion chromatogram for PFUA in the soil extract from a Month 24 untreated control soil by LC/MS/MS.

Trace PFUA at 12.0 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: C:\HPCHEM\1\DATA\ALFI005\0801012.D  
Operator: fjl  
Date Acquired: 30 Apr 105 4:29 pm  
Instrument: GCMS#2  
Sample Name: 1719-TEX  
Misc Info:  
Vial Number : 8

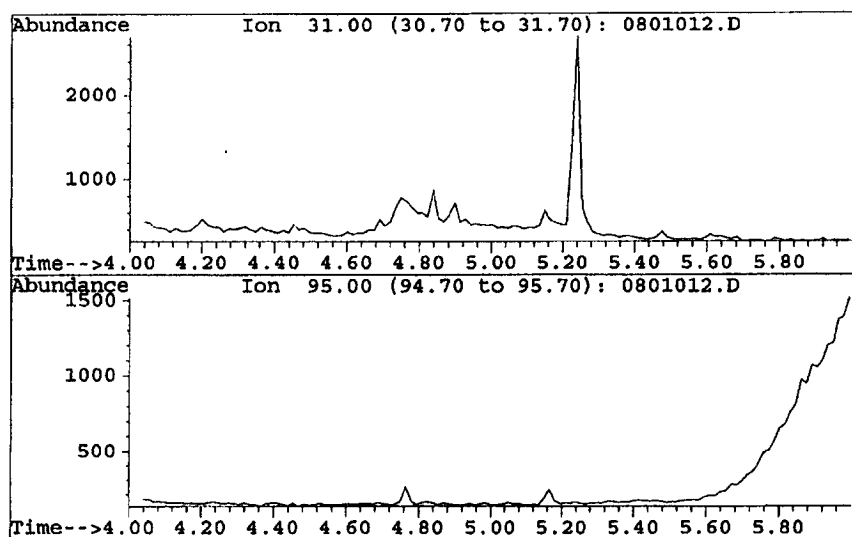


Figure 53. Representative ion chromatograms for 8-2 FTOH in the sampled headspace ( $C_{18}$  cartridge extract) from a Day 0 fortified ( $250 \mu\text{g}$  8-2 FTOH/kg and  $10.0 \mu\text{g}$  PFCAs/kg) control soil by GC/MS.

8-2 FTOH was not present (no peak at 5.0 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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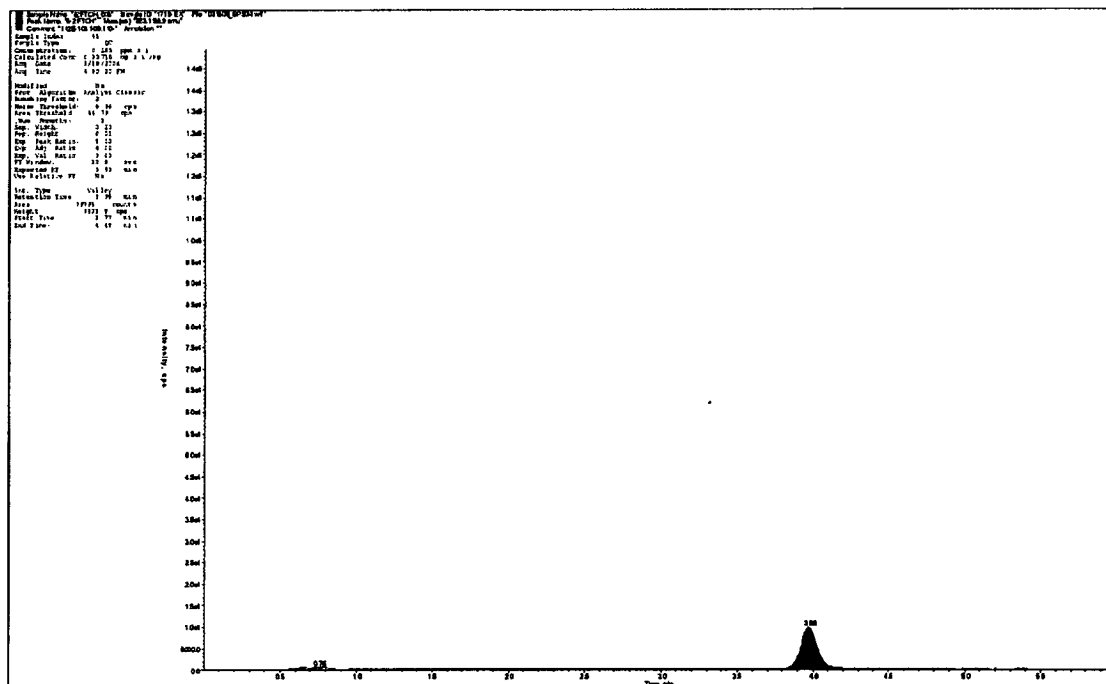


Figure 54. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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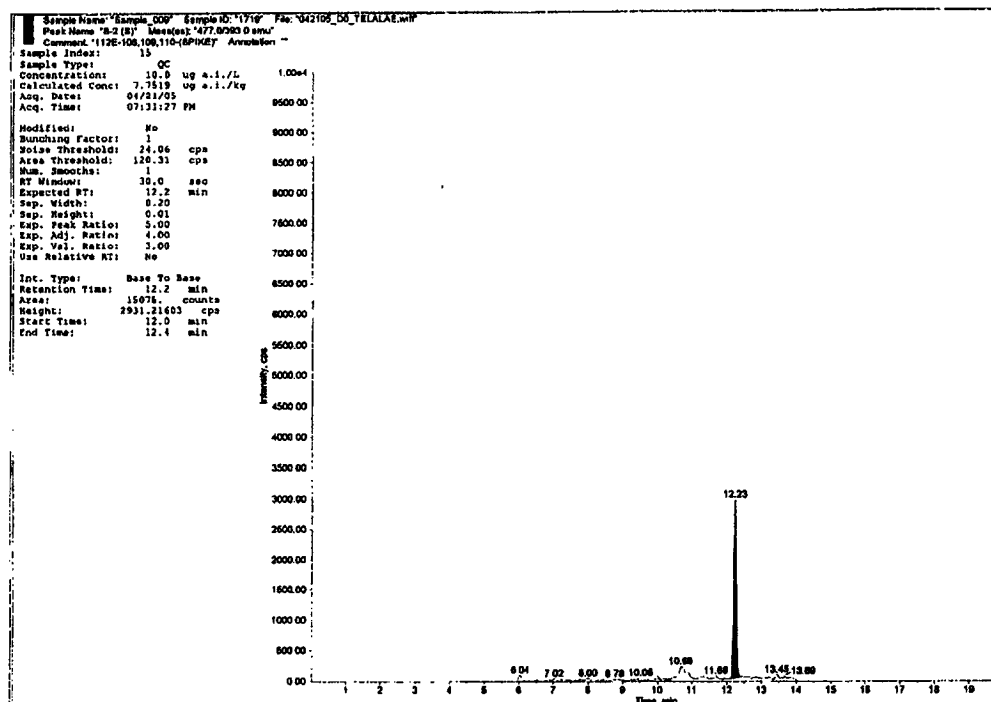


Figure 55. Representative ion chromatogram for 8-2 FTA in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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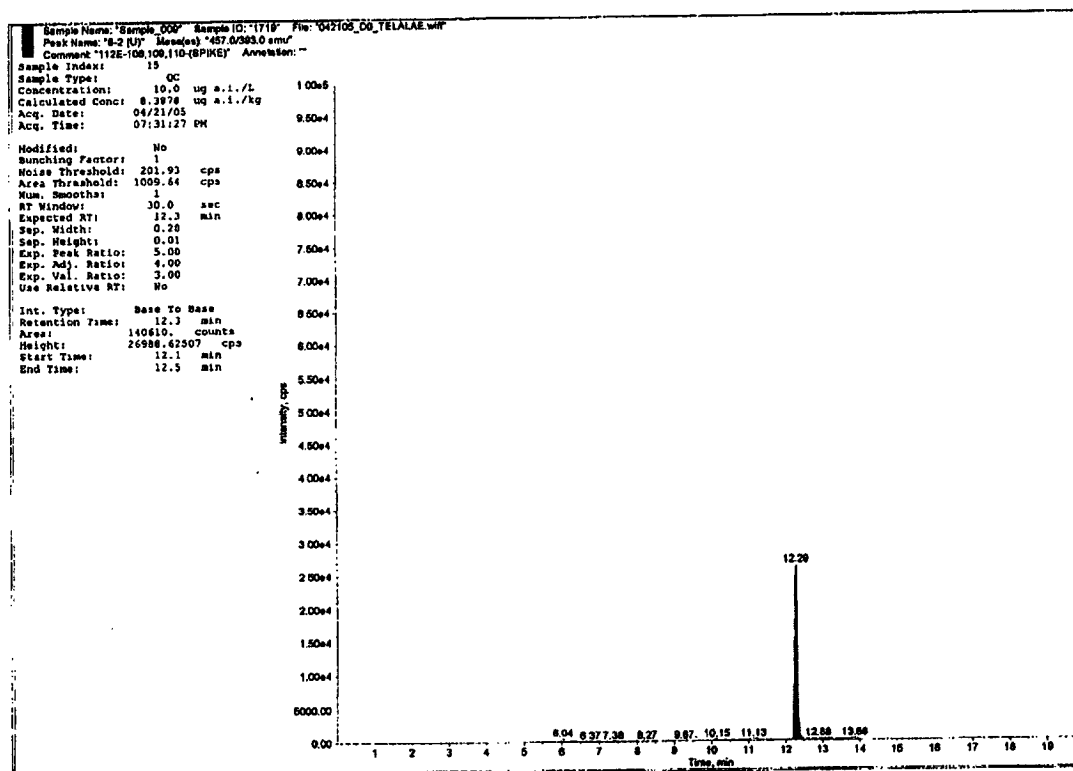


Figure 56. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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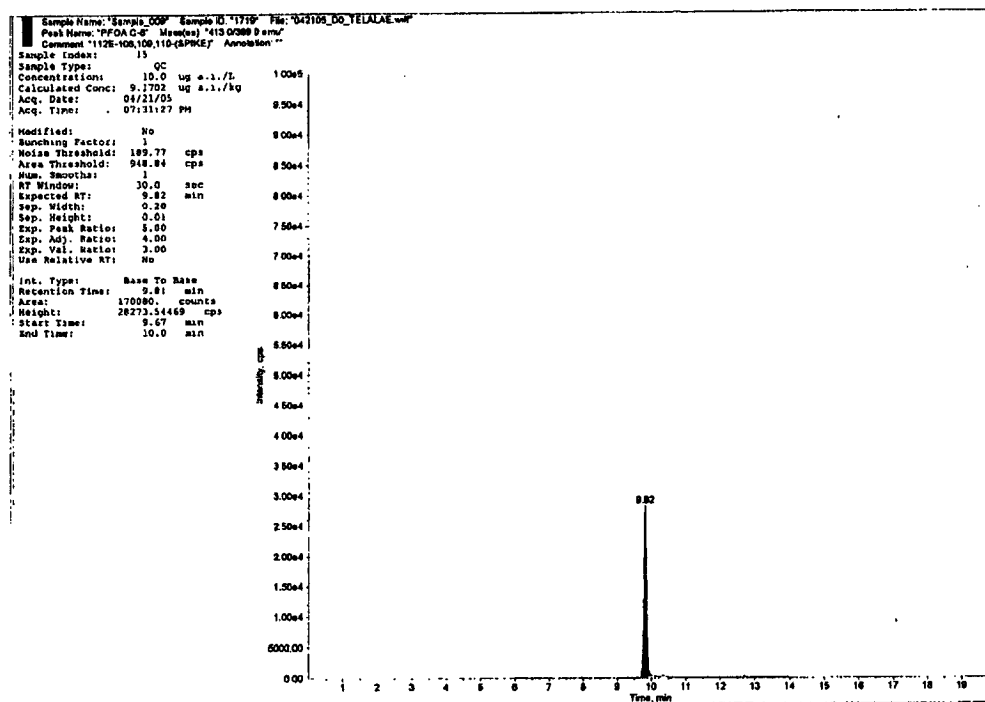


Figure 57. Representative ion chromatogram for PFOA in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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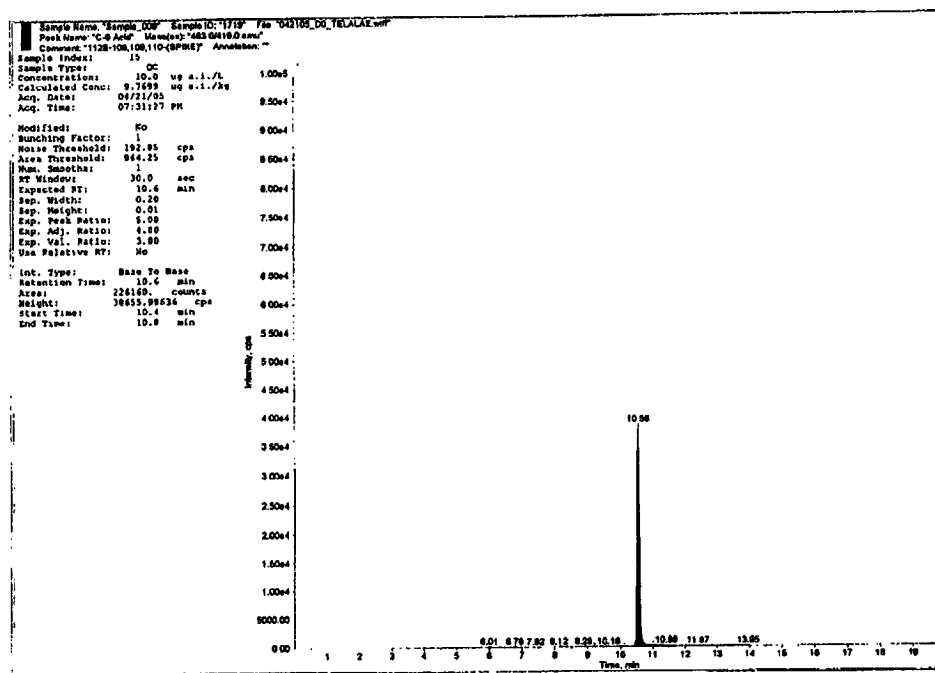


Figure 58. Representative ion chromatogram for PFNA in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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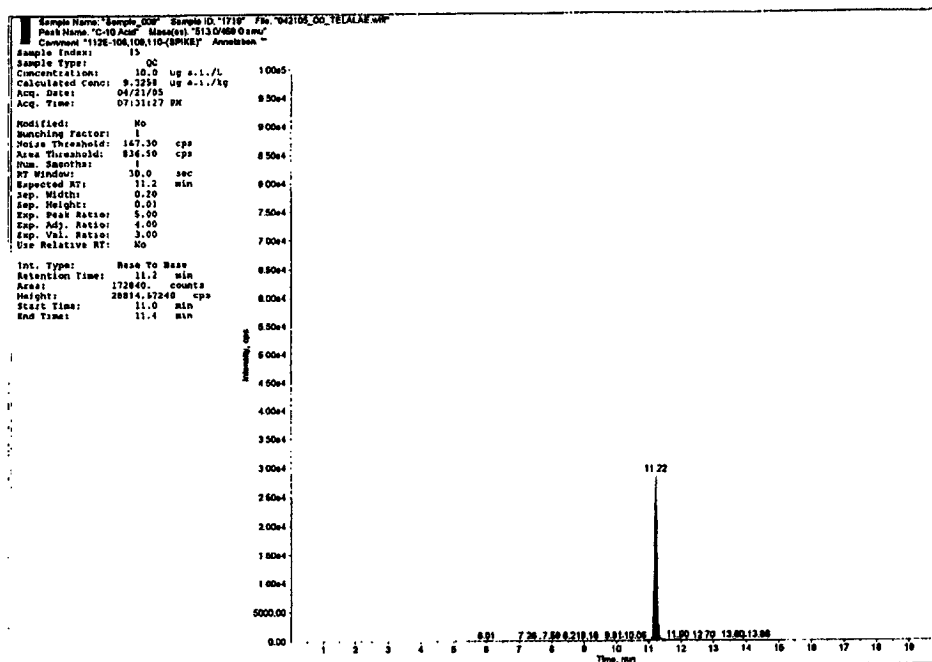


Figure 59. Representative ion chromatogram for PFDA in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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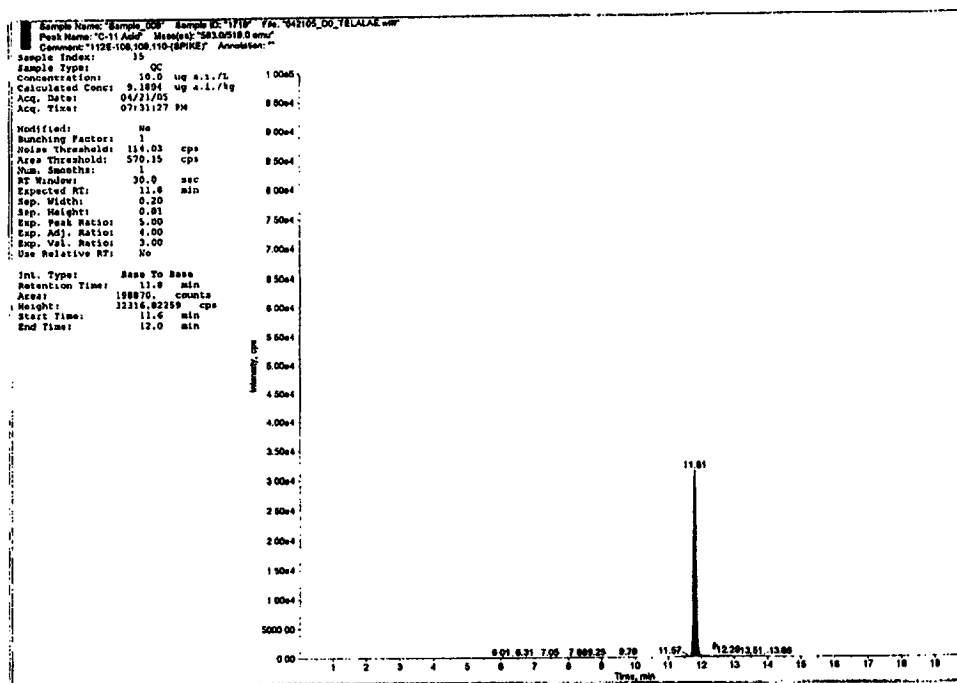


Figure 60. Representative ion chromatogram for PFUA in the soil extract from a Day 0 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: T:\DATA\ALFI025\0801012.D  
Operator: DW  
Date Acquired: 20 Apr 106 8:04 pm  
Instrument: GCMS#1  
Sample Name: 1735-TEX  
Misc Info: 112E-108,109,110  
Vial Number : 8

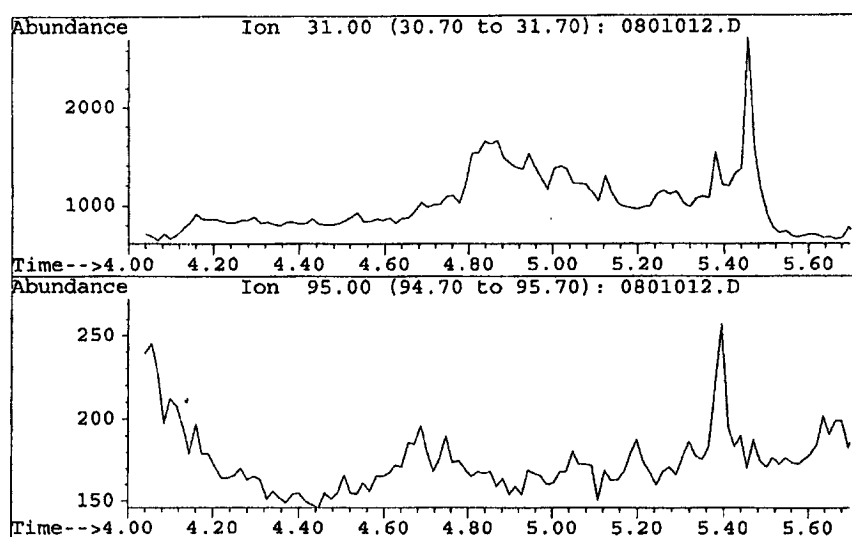


Figure 61. Representative ion chromatograms for 8-2 FTOH in the sampled headspace ( $C_{18}$  cartridge extract) from a Month 12 fortified ( $250 \mu\text{g}$  8-2 FTOH/kg and  $10.0 \mu\text{g}$  PFCAs/kg) control soil by GC/MS.

8-2 FTOH was not present (no peak at 5.0 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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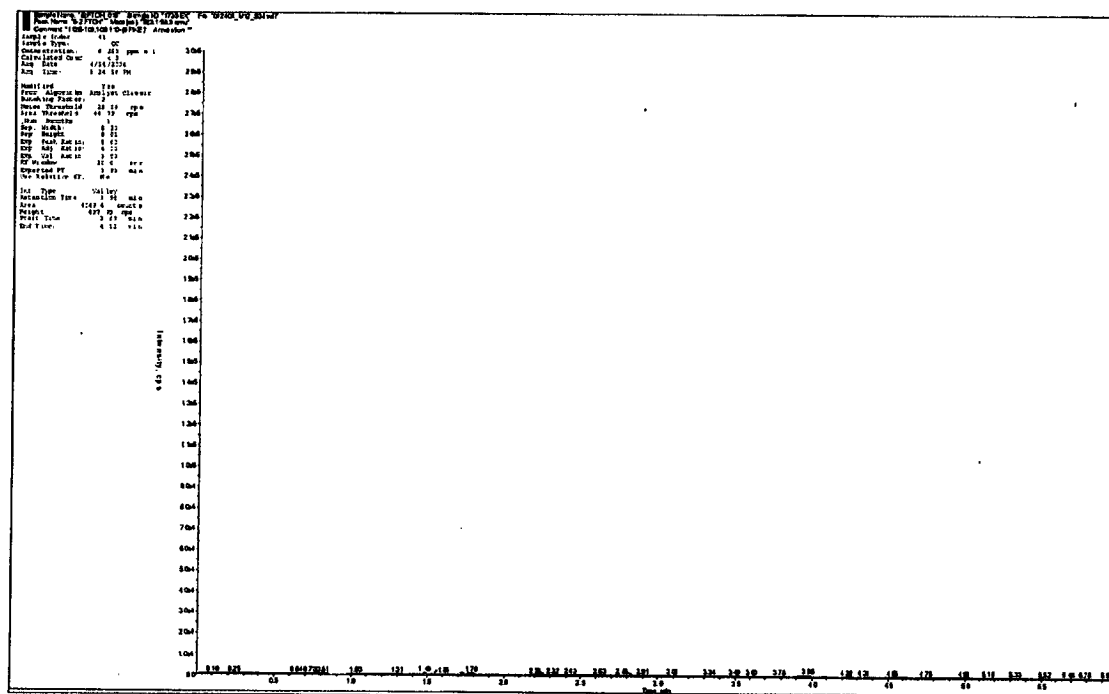


Figure 62. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Trace 8-2 FTOH at 3.98 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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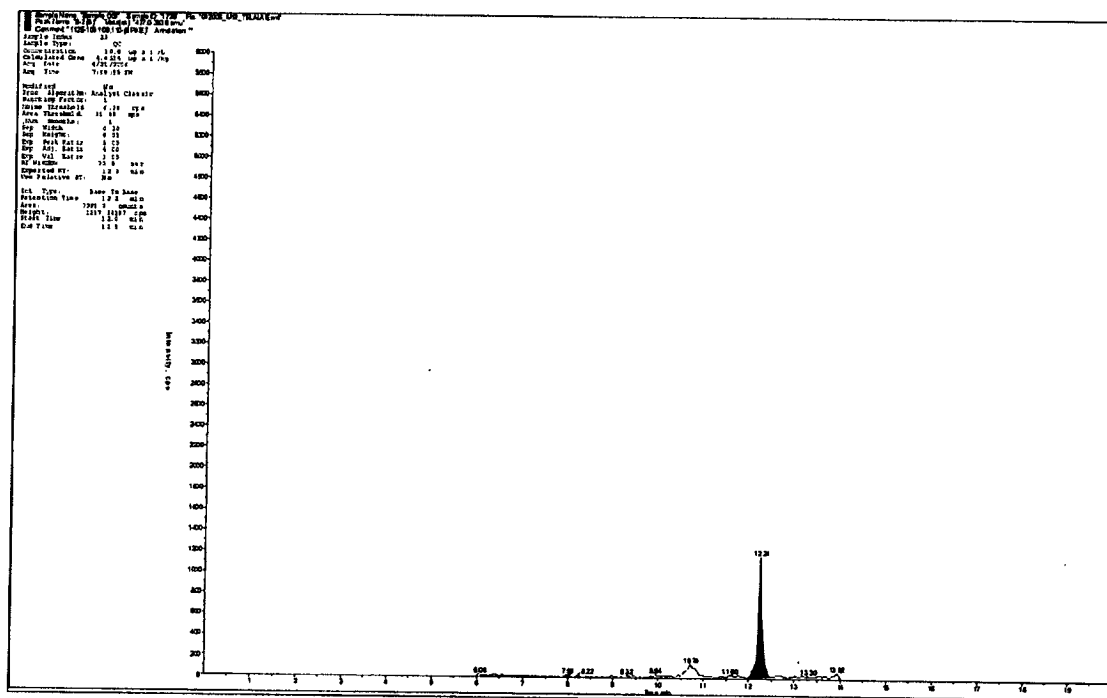


Figure 63. Representative ion chromatogram for 8-2 FTA in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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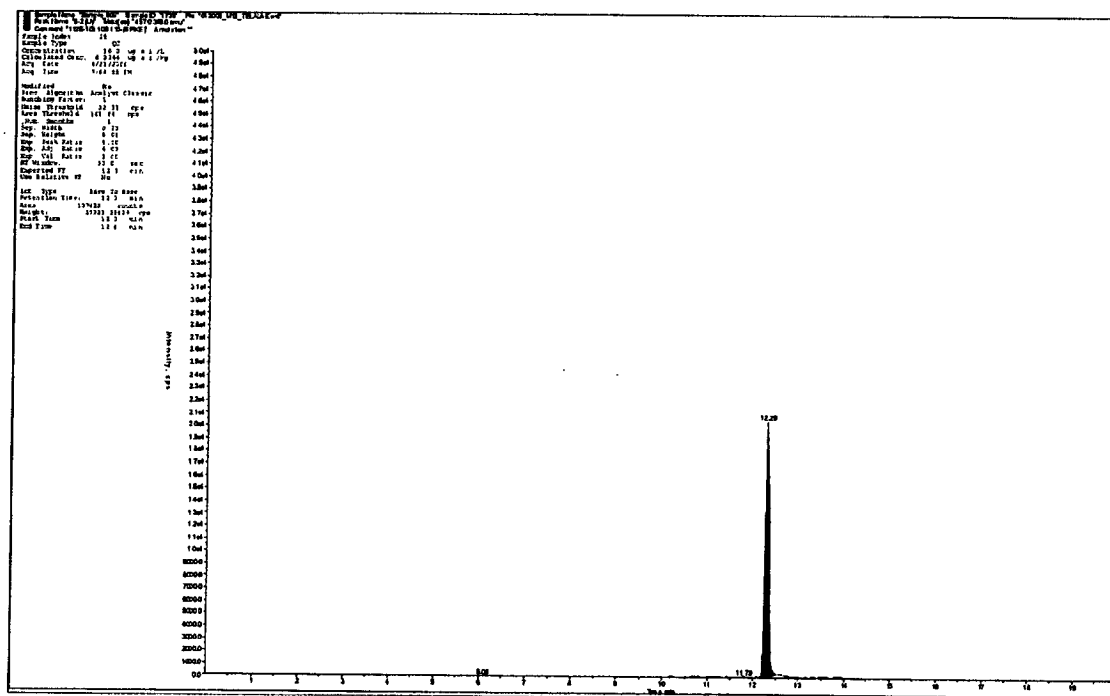


Figure 64. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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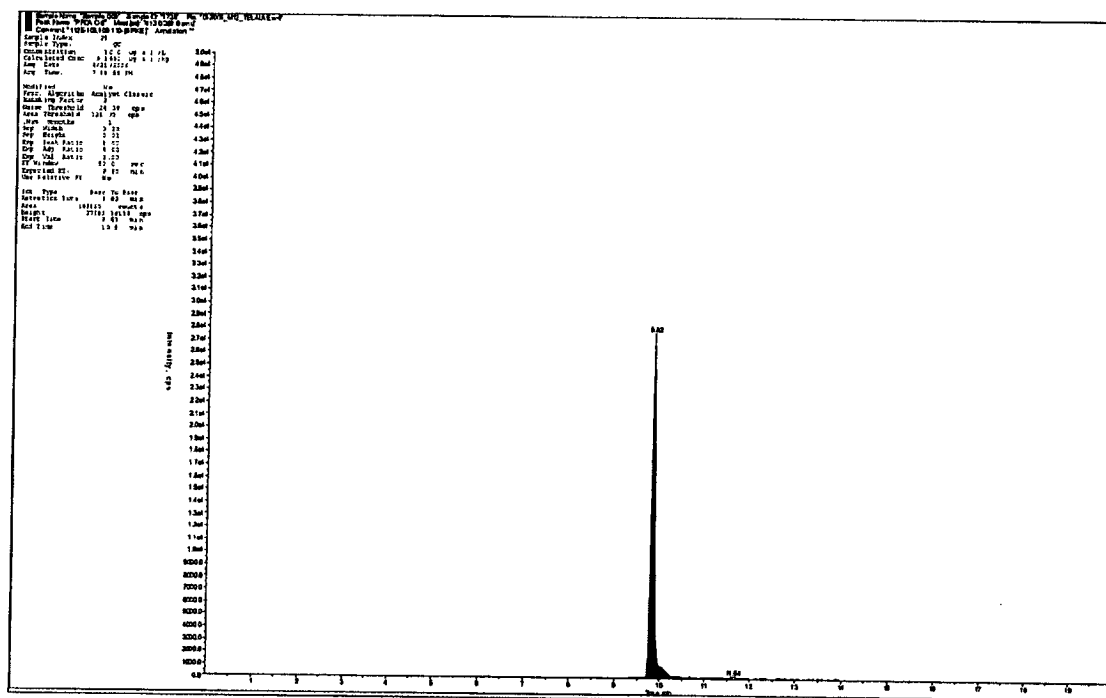


Figure 65. Representative ion chromatogram for PFOA in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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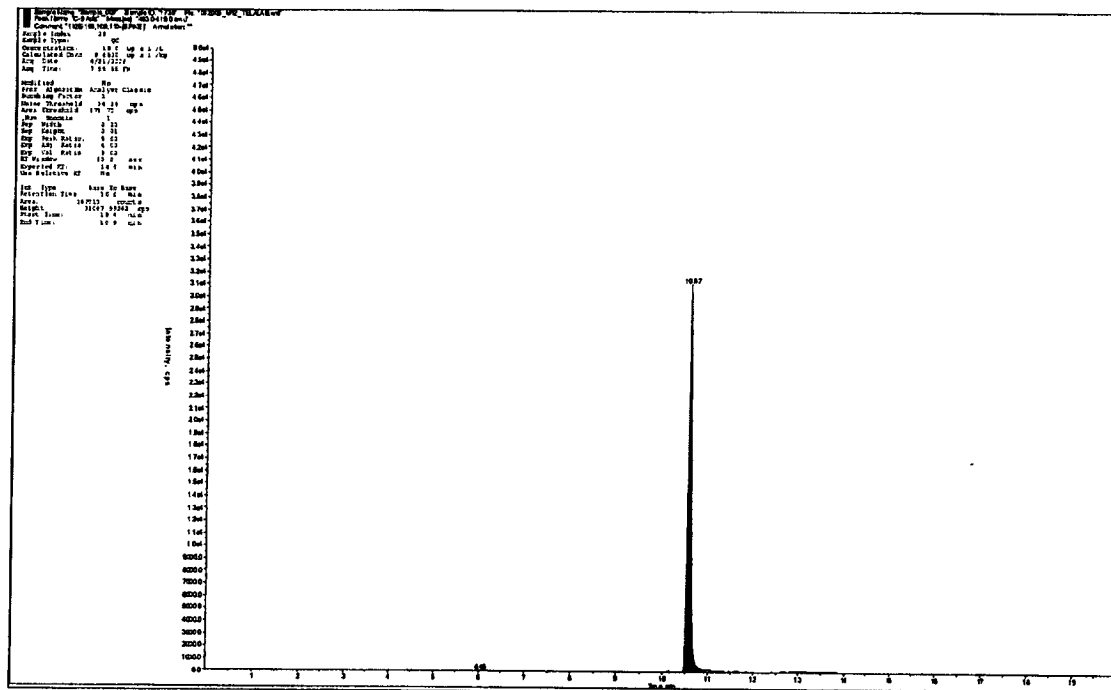


Figure 66. Representative ion chromatogram for PFNA in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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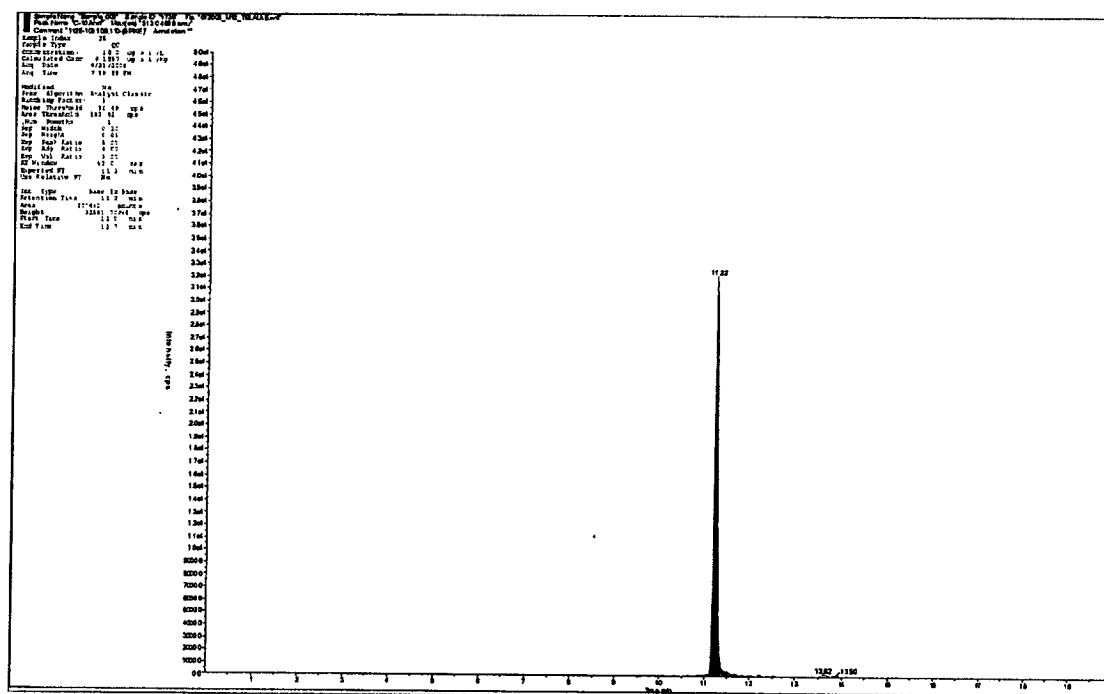


Figure 67. Representative ion chromatogram for PFDA in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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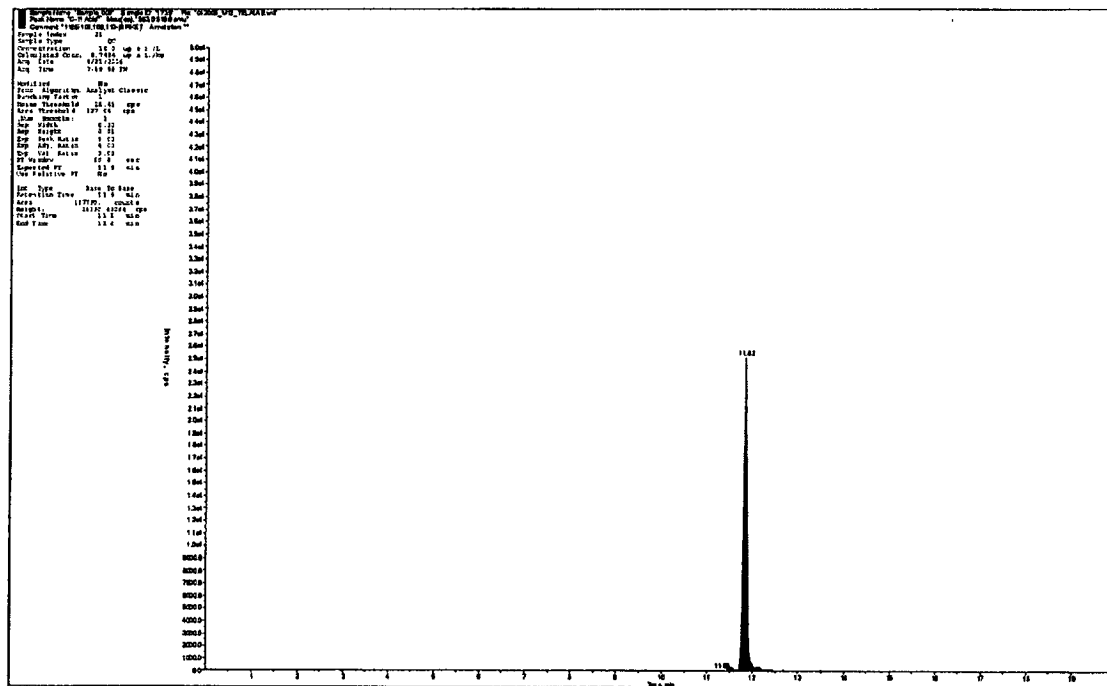


Figure 68. Representative ion chromatogram for PFUA in the soil extract from a Month 12 fortified (250 µg 8-2 FTOH/kg and 10.0 µg PFCAs/kg) control soil by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: C:\HPCHEM\1\DATA\ALFI005\1201020.D  
Operator: fjl  
Date Acquired: 30 Apr 105 7:04 pm  
Instrument: GCMS#2  
Sample Name: 1665-TEX  
Misc Info:  
Vial Number : 12

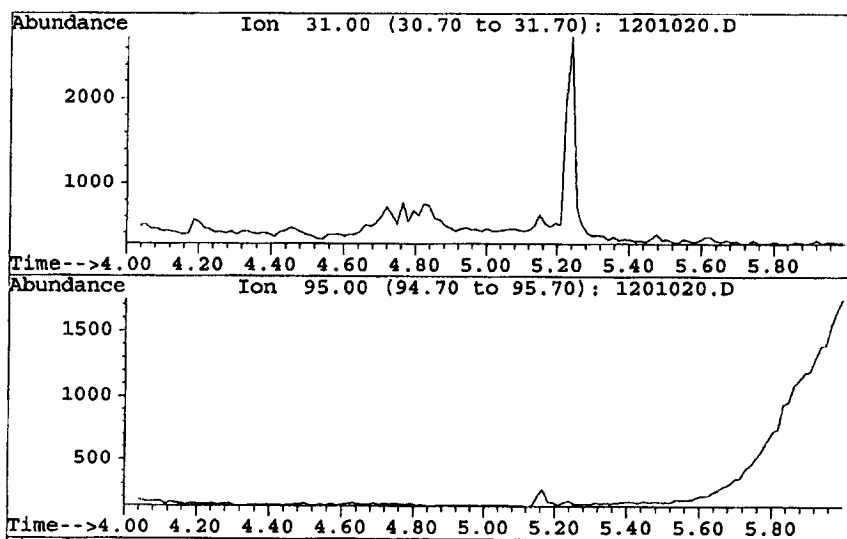


Figure 69. Representative ion chromatograms for 8-2 FTOH in the sampled headspace ( $C_{18}$  cartridge extract) from a Day 0 sterile soil treated with 200 mg/kg [redacted] by GC/MS.

8-2 FTOH was not present (no peak at 5.0 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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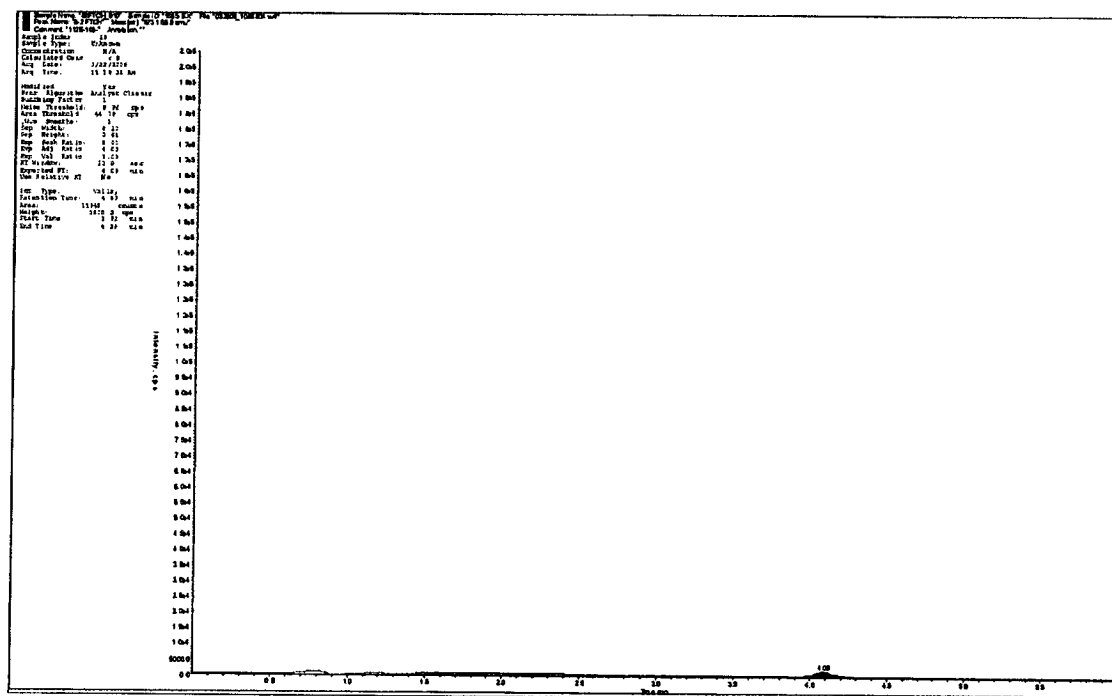


Figure 70. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Day 0 sterile soil treated with 200 mg/kg[ ]by LC/MS/MS.

Trace 8-2 FTOH at 4.09 min was <LOD.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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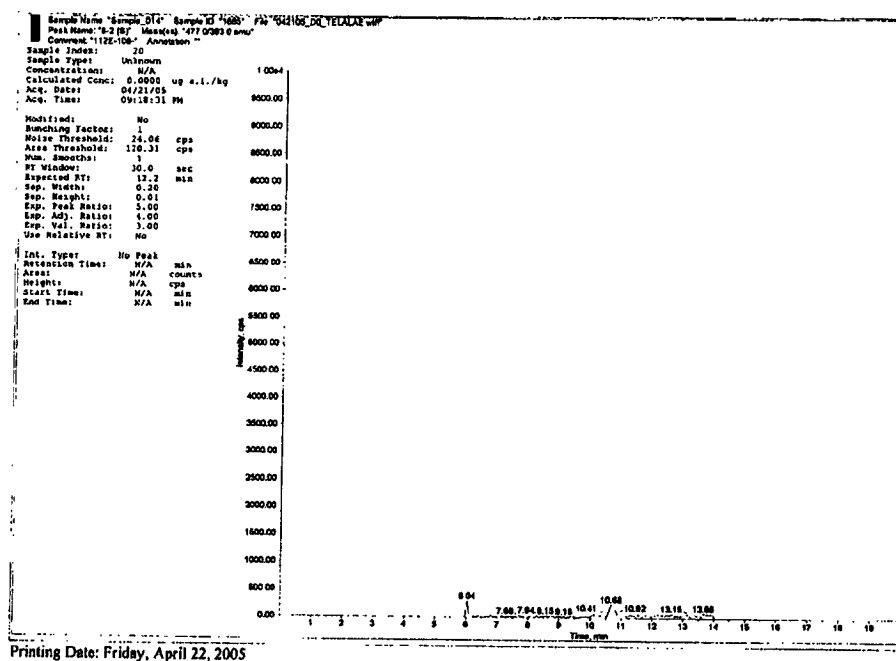


Figure 71. Representative ion chromatogram for 8-2 FTA in the soil extract from a Day 0 sterile soil treated with 200 mg/kg by LC/MS/MS.

8-2 FTA was not present (no peak at 12.2 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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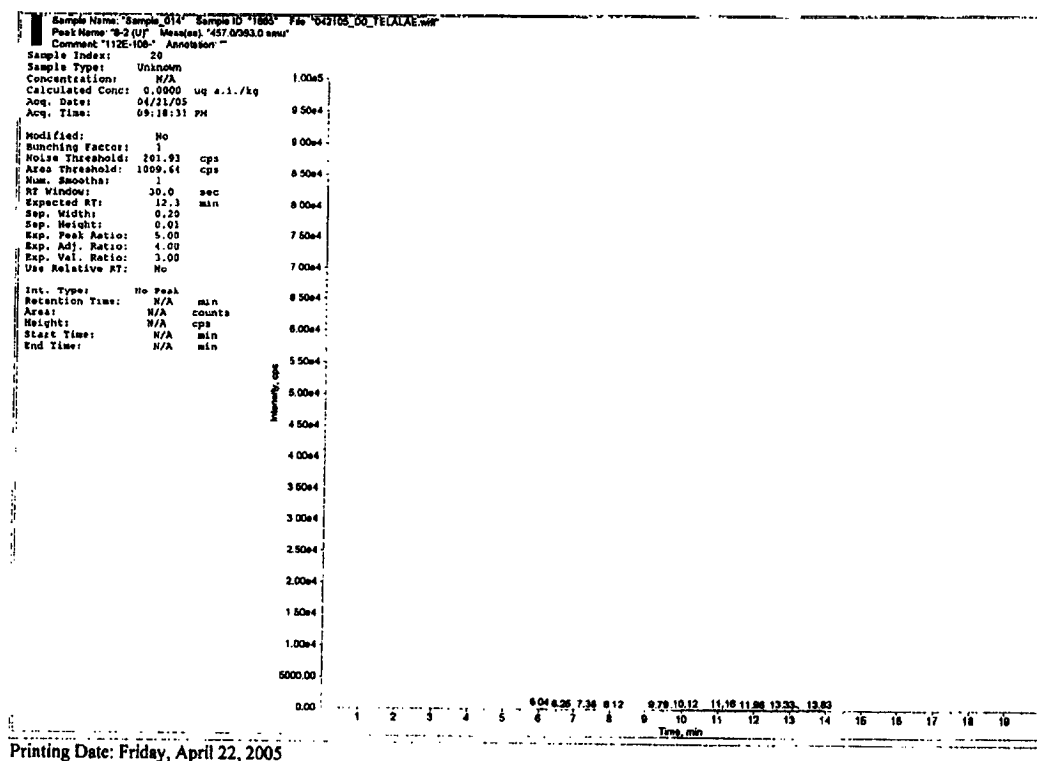


Figure 72. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Day 0 sterile soil treated with 200 mg/kg by LC/MS/MS.

8-2 FTUA was not present (no peak at 12.3 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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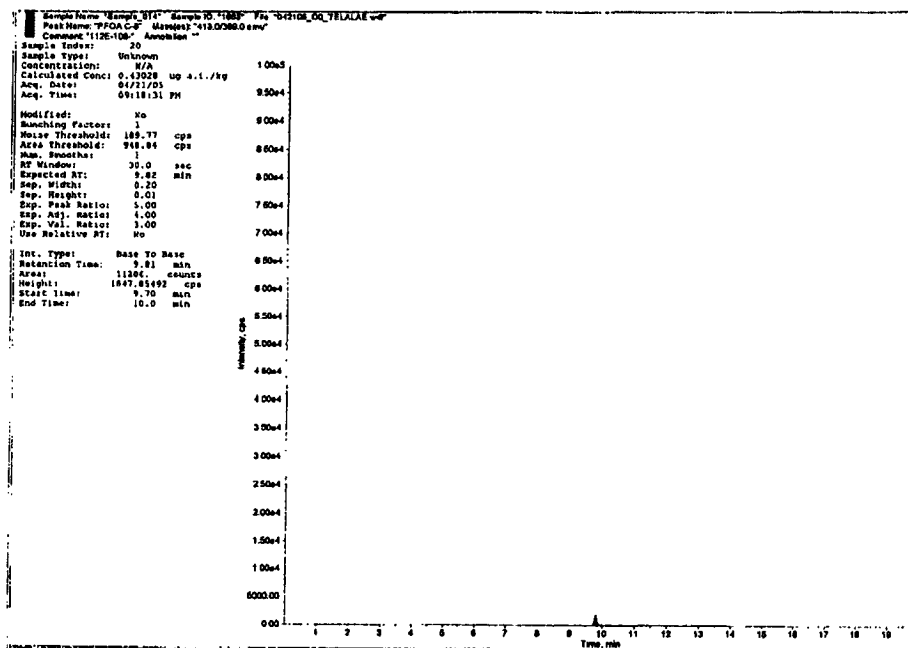


Figure 73. Representative ion chromatogram for PFOA in the soil extract from a Day 0 sterile soil treated with 200 mg/kg [redacted] by LC/MS/MS.

Trace PFOA at 9.81 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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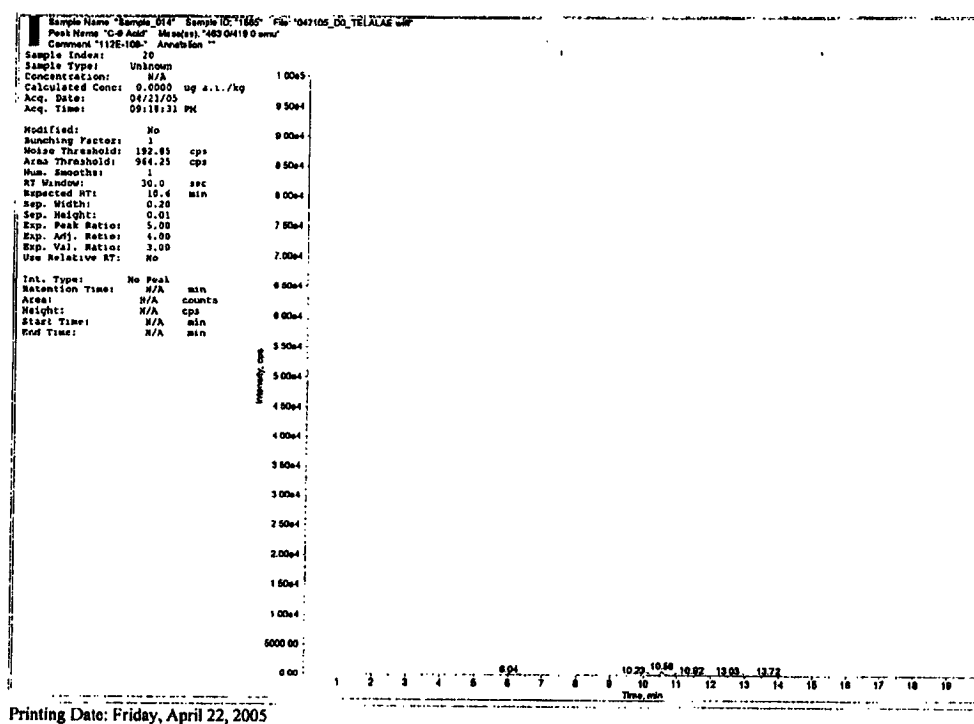


Figure 74. Representative ion chromatogram for PFNA in the soil extract from a Day 0 sterile soil treated with 200 mg/kg( )by LC/MS/MS.

PFNA was not present (no peak at 10.6 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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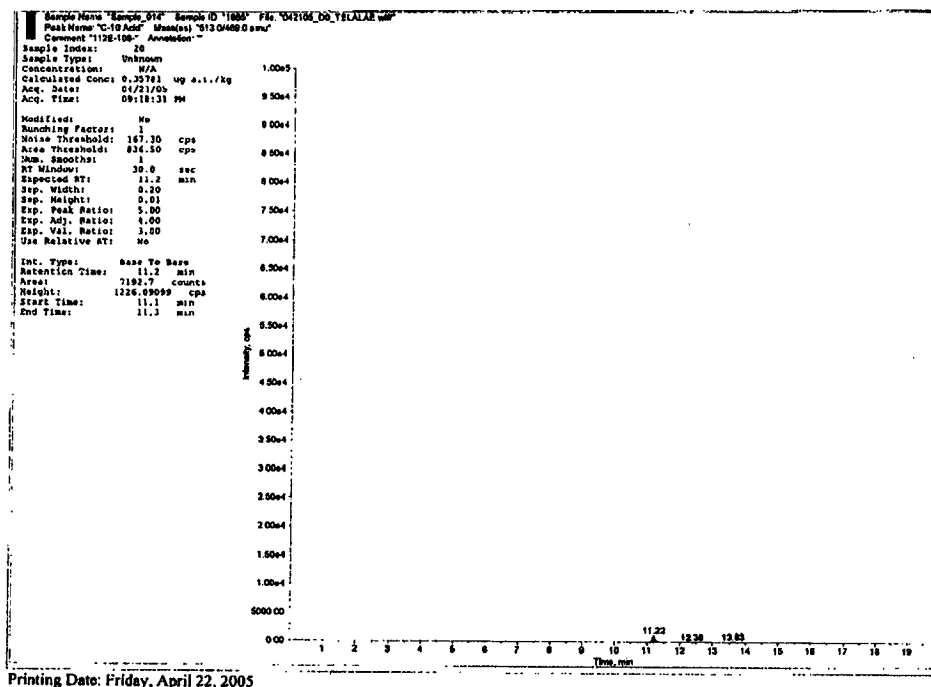


Figure 75. Representative ion chromatogram for PFDA in the soil extract from a Day 0 sterile soil treated with 200 mg/kg by LC/MS/MS.

Trace PFDA at 11.2 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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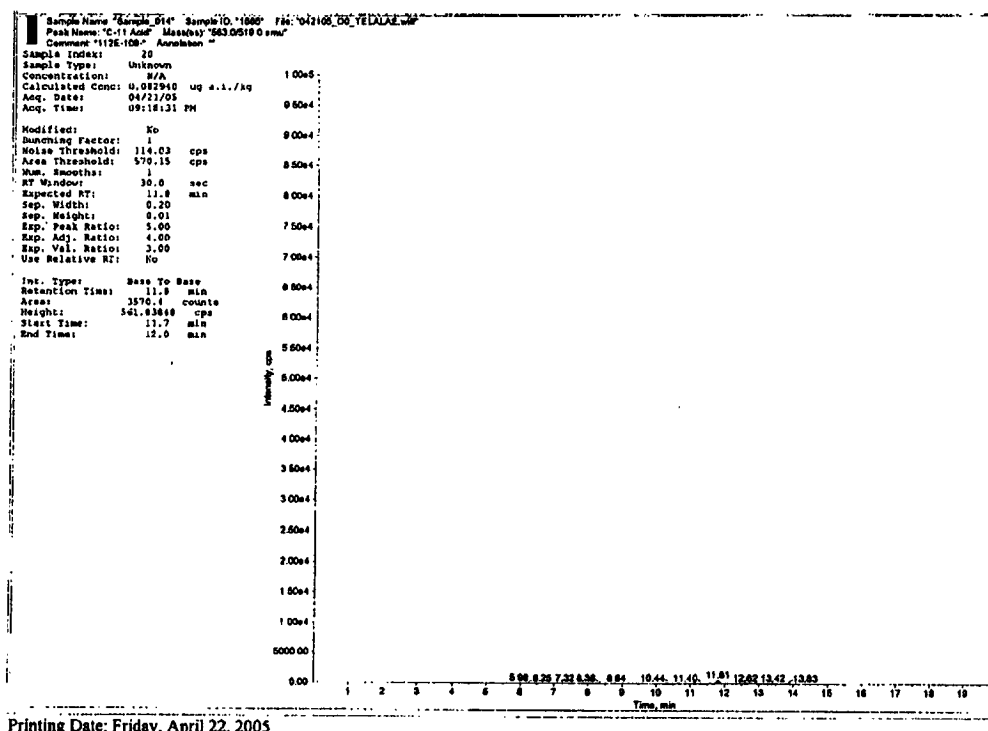


Figure 76. Representative ion chromatogram for PFUA in the soil extract from a Day 0 sterile soil treated with 200 mg/kg by LC/MS/MS.

Trace PFUA at 11.8 min was <LOD.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: T:\DATA\ALFI025\1301021.D  
Operator: DW  
Date Acquired: 20 Apr 106 11:09 pm  
Instrument: GCMS#1  
Sample Name: 1682-TEX  
Misc Info: 112E-108  
Vial Number : 13

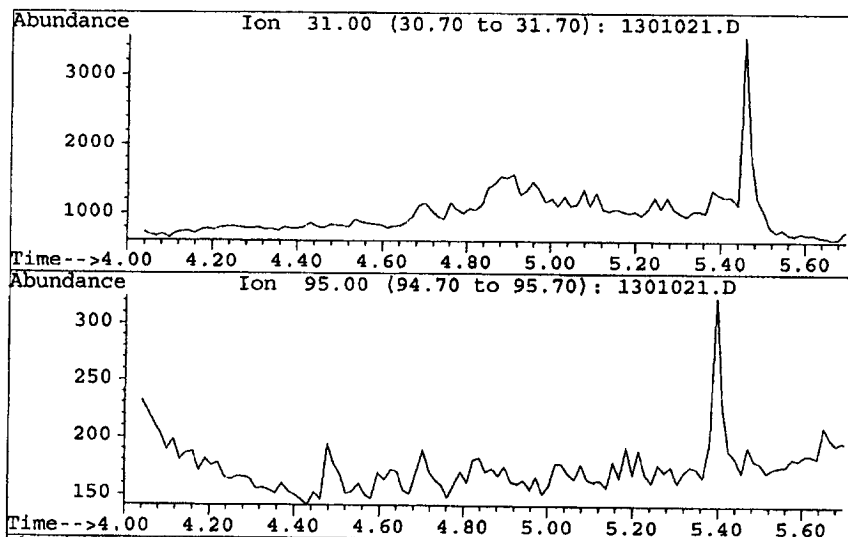


Figure 77. Representative ion chromatograms for 8-2 FTOH in the sampled headspace ( $C_{18}$  cartridge extract) from a Month 12 sterile soil treated with 200 mg/kg  $C_{18}$  by GC/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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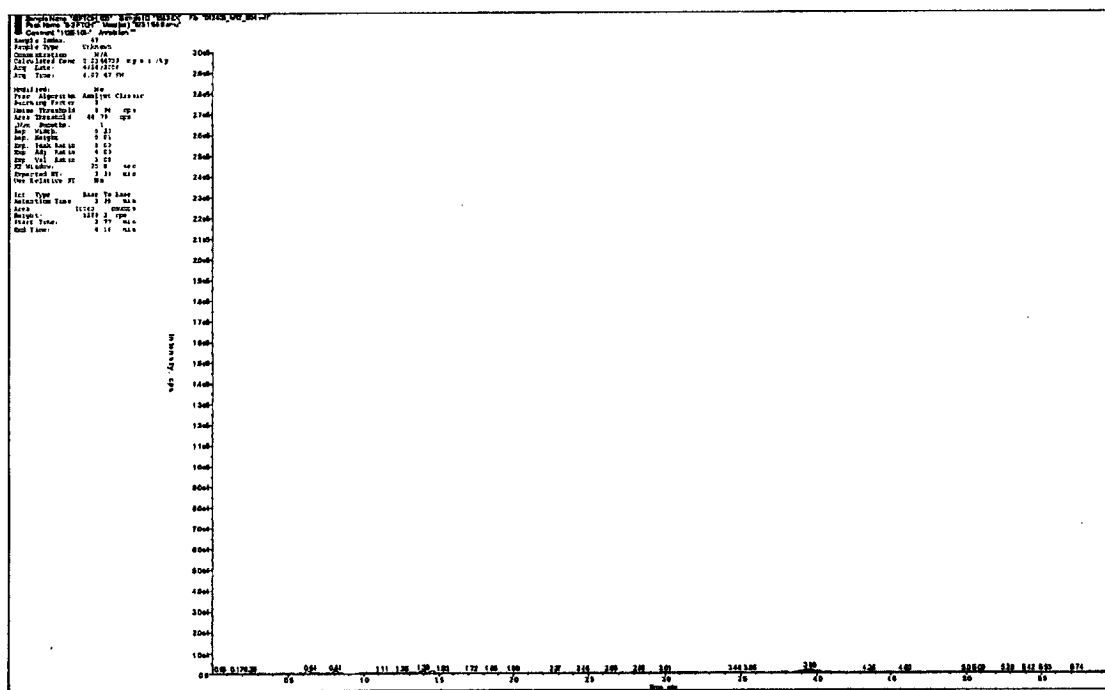


Figure 78. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Month 12 sterile soil treated with 200 mg/kg by LC/MS/MS.

*Wildlife International, Ltd.*

Project No.: 112E-108

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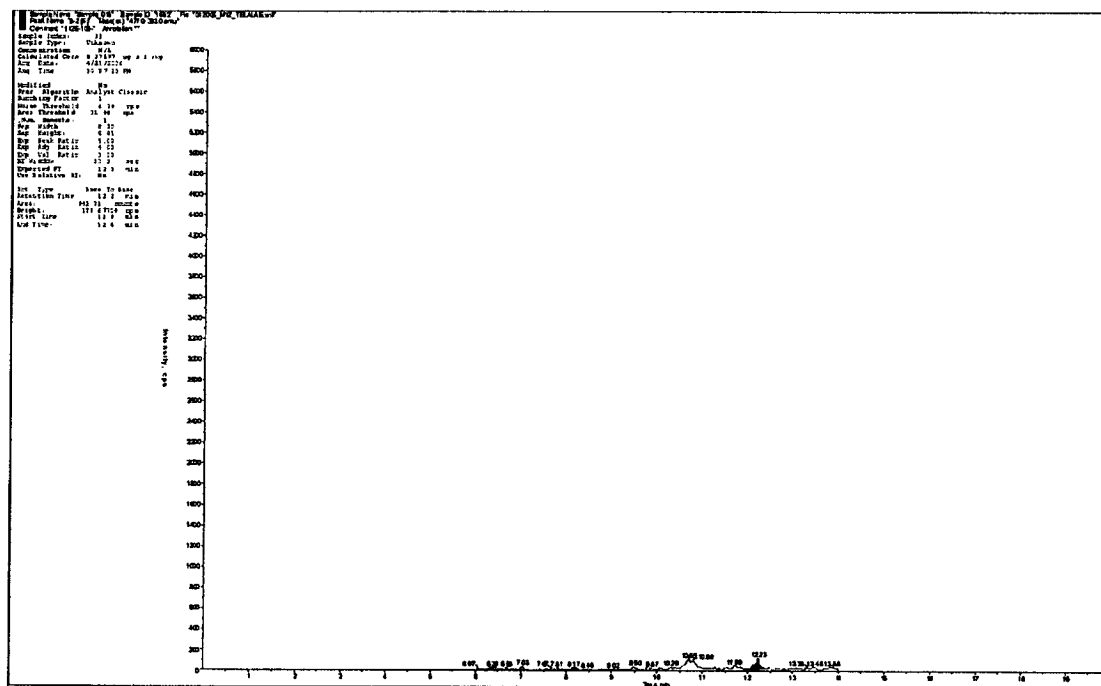


Figure 79. Representative ion chromatogram for 8-2 FTA in the soil extract from a Month 12 sterile soil treated with 200 mg/kg{ } by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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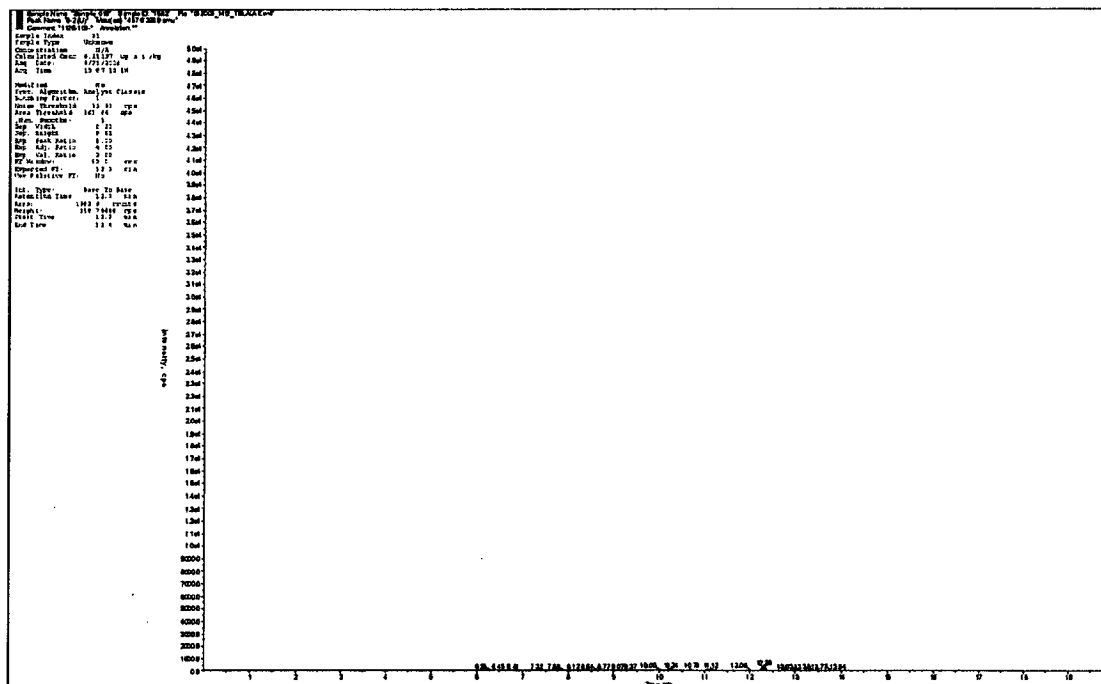


Figure 80. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Month 12 sterile soil treated with 200 mg/kg by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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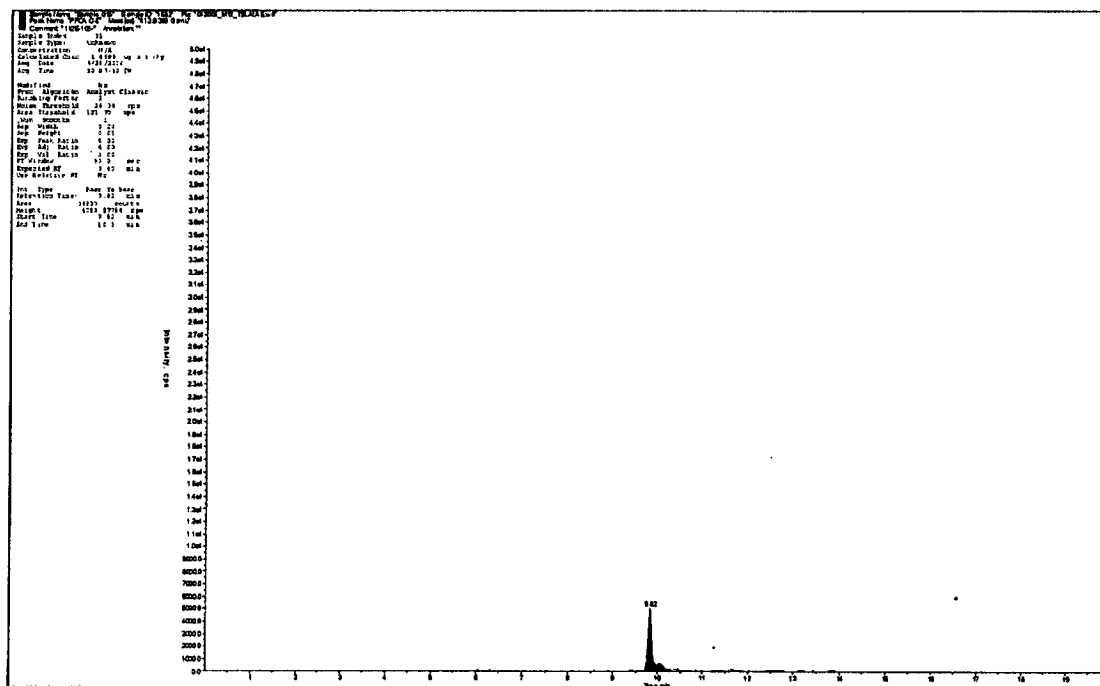


Figure 81. Representative ion chromatogram for PFOA in the soil extract from a Month 12 sterile soil treated with 200 mg/kg  $\text{PFOA}$  by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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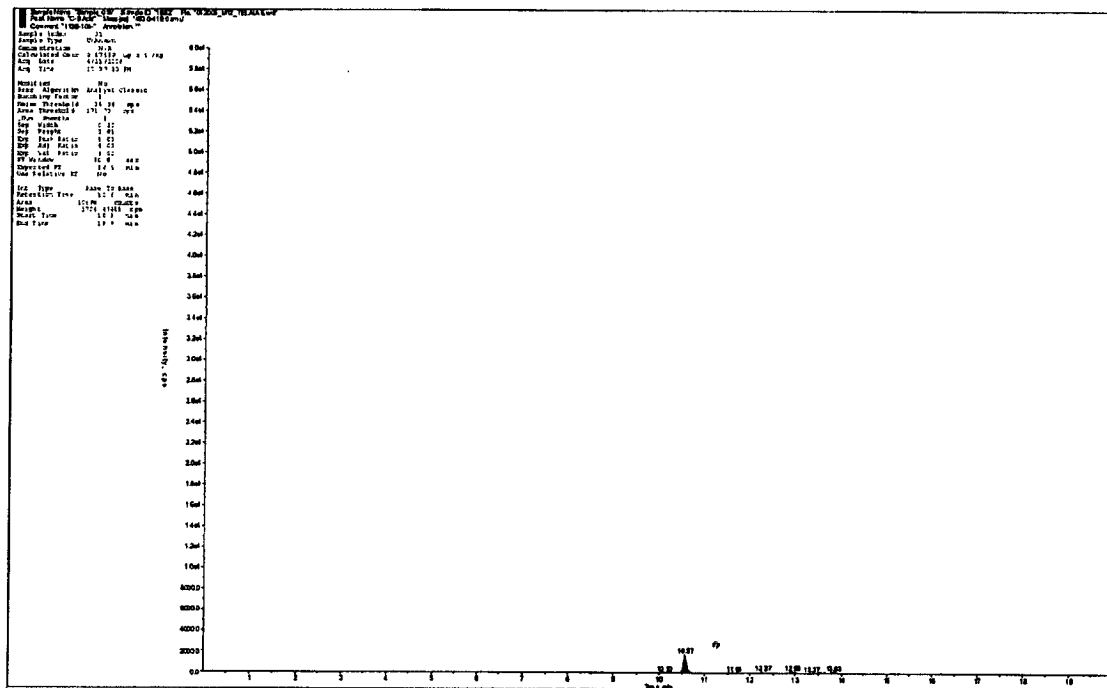


Figure 82. Representative ion chromatogram for PFNA in the soil extract from a Month 12 sterile soil treated with 200 mg/kg PFNA by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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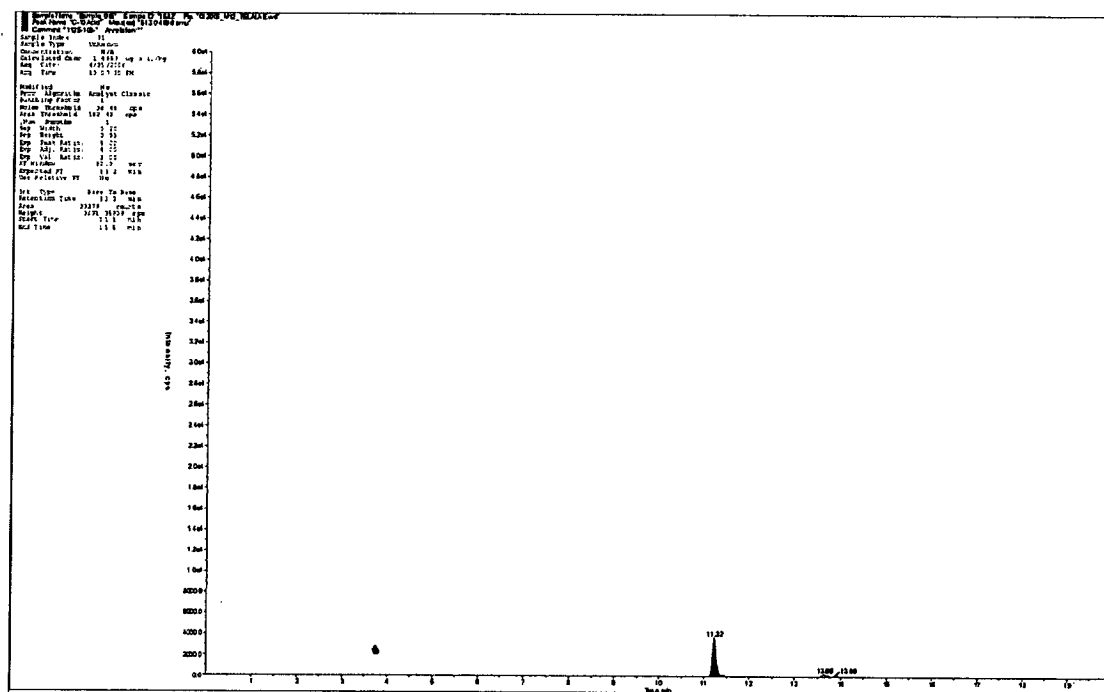


Figure 83. Representative ion chromatogram for PFDA in the soil extract from a Month 12 sterile soil treated with 200 mg/kg (C) by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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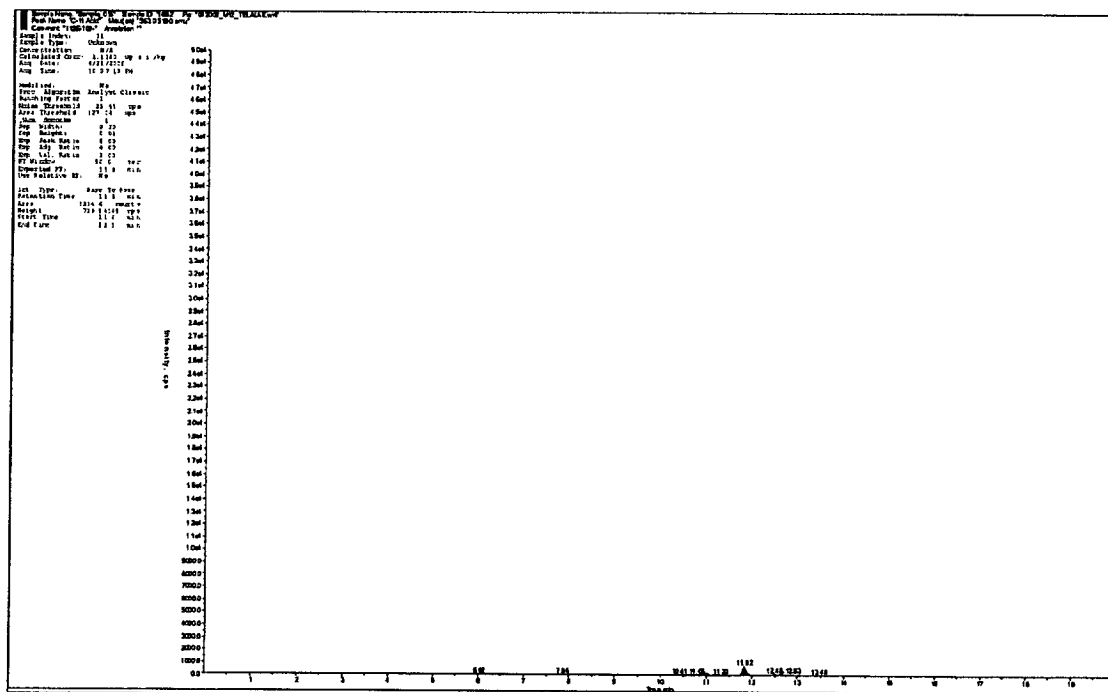


Figure 84. Representative ion chromatogram for PFUA in the soil extract from a Month 12 sterile soil treated with 200 mg/kg [ ] by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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Wildlife International, Ltd. GC-MS#2 MSD Serial No. 3118A02483

File: C:\HPCHEM\1\DATA\ALFI005\1001014.D  
Operator: fjl  
Date Acquired: 30 Apr 105 5:06 pm  
Instrument: GCMS#2  
Sample Name: 1593-TEX  
Misc Info:  
Vial Number : 10

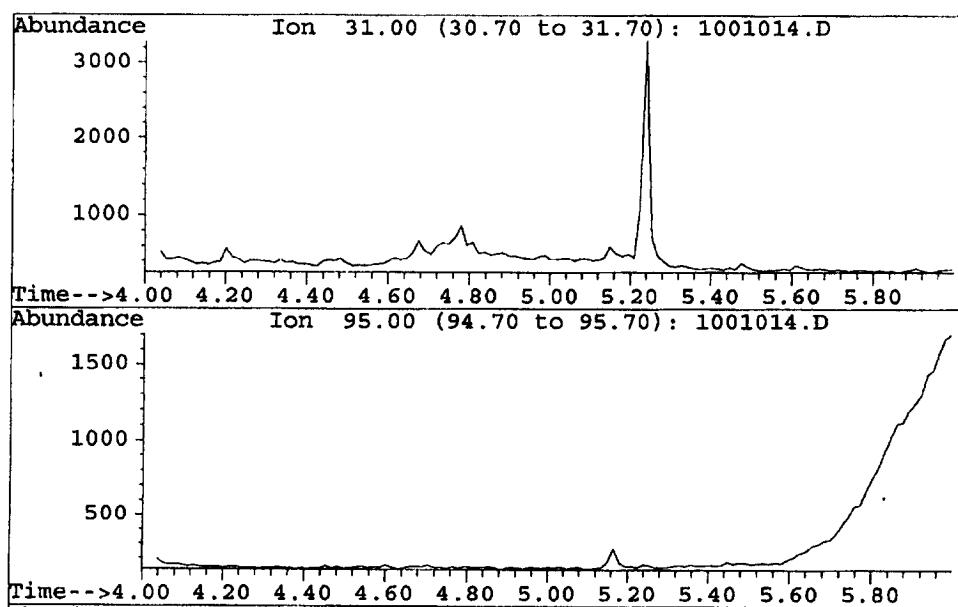


Figure 85. Representative ion chromatograms for 8-2 FTOH in the sampled headspace ( $C_{18}$  cartridge extract) from a Day 0 live soil treated with 200 mg/kg [ ] by GC/MS.

8-2 FTOH is not present (no peak at 5.0 min).

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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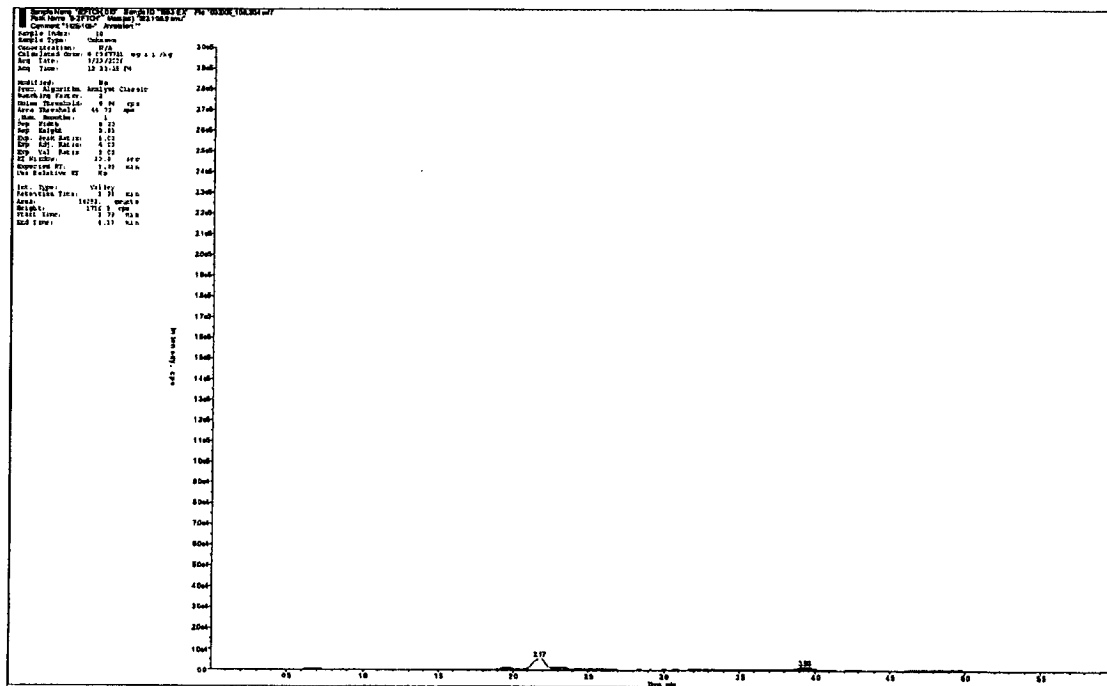


Figure 86. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Day 0 live soil treated with 200 mg/kg [ ] by LC/MS/MS.

Trace 8-2 FTOH at 3.93 min was <LOD.

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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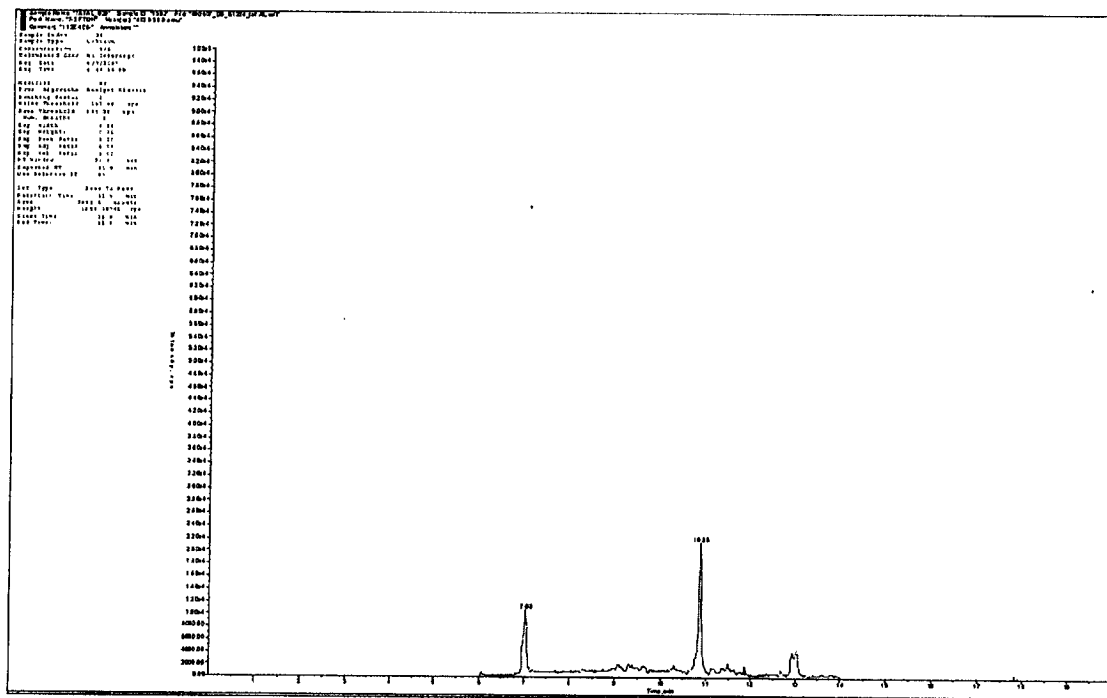


Figure 87. Representative ion chromatogram for 7-2 sFTOH in the soil extract from a Day 0 live soil treated with 200 mg/kg by LC/MS/MS.

Trace 7-2 sFTOH at 11.9 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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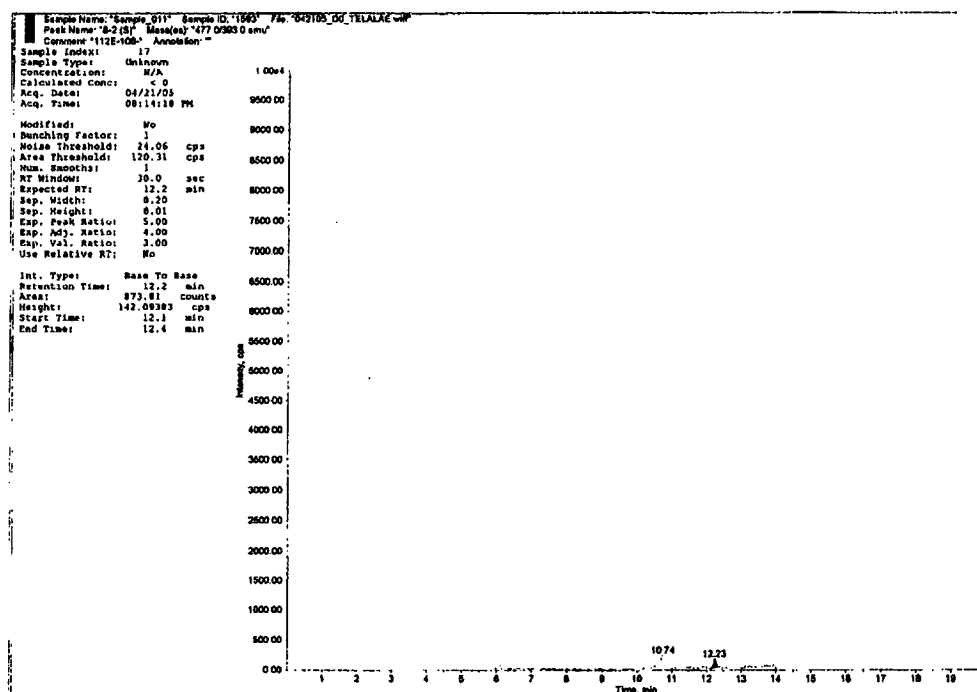


Figure 88. Representative ion chromatogram for 8-2 FTA in the soil extract from a Day 0 live soil treated with 200 mg/kg [ ] by LC/MS/MS.

Trace 8-2 FTA at 12.2 min was <LOD.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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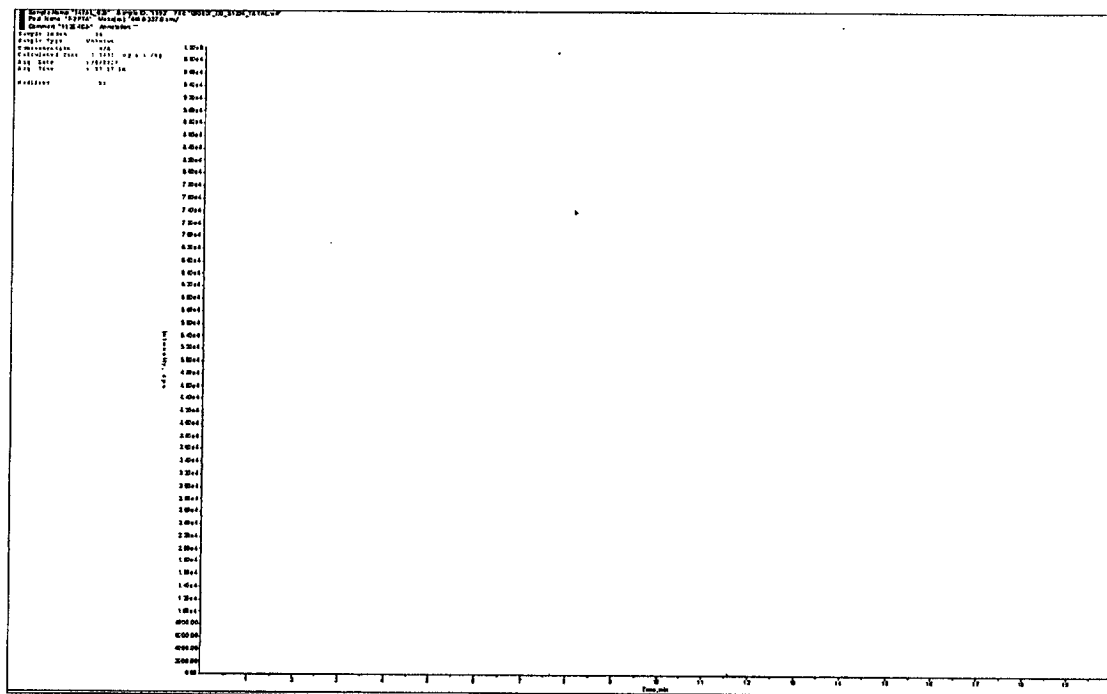


Figure 89. Representative ion chromatogram for 7-3 Acid in the soil extract from a Day 0 live soil treated with 200 mg/kg [ ] by LC/MS/MS.

7-3 Acid is not present (no peak at 11.6 min).

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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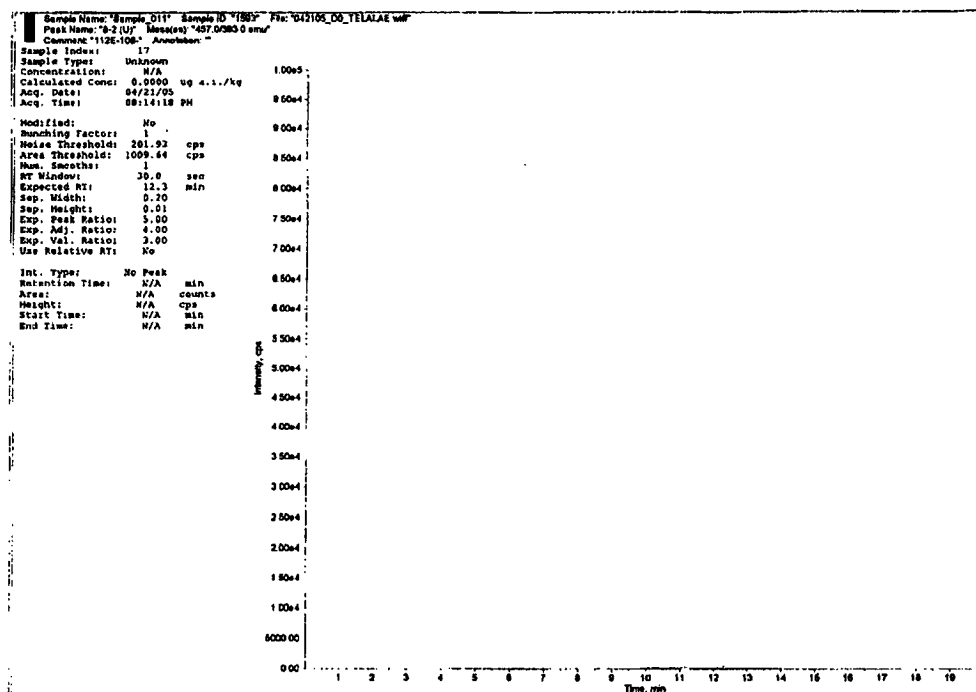


Figure 90. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Day 0 live soil treated with 200 mg/kg by LC/MS/MS.

8-2 FTUA was not present (no peak at 12.3 min).

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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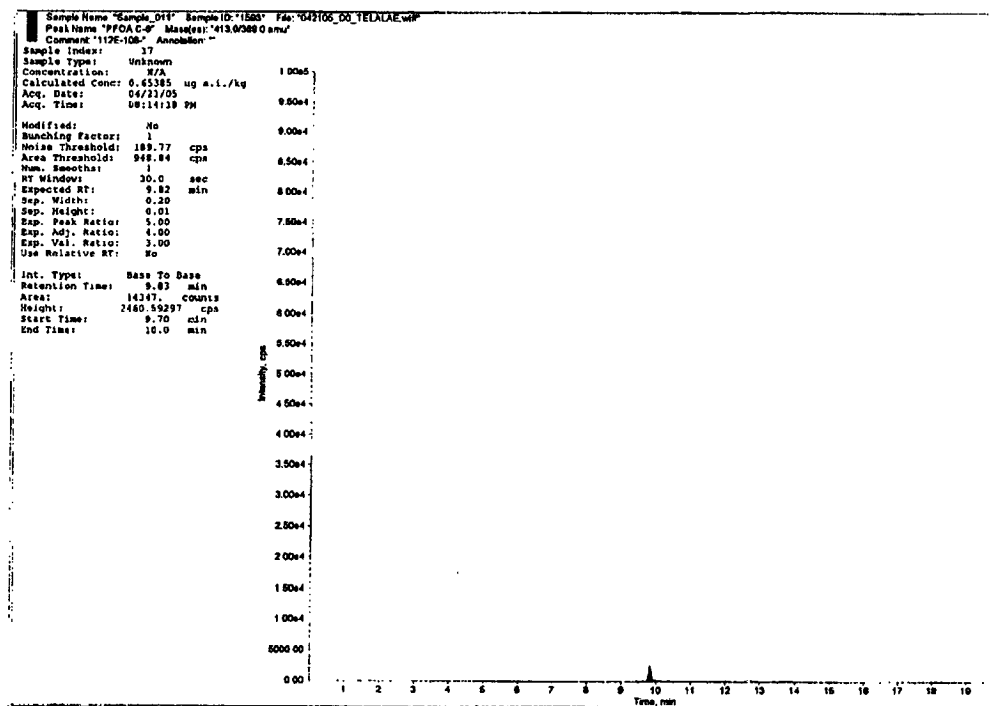


Figure 91. Representative ion chromatogram for PFOA in the soil extract from a Day 0 live soil treated with 200 mg/kg by LC/MS/MS.

Trace PFOA at 9.83 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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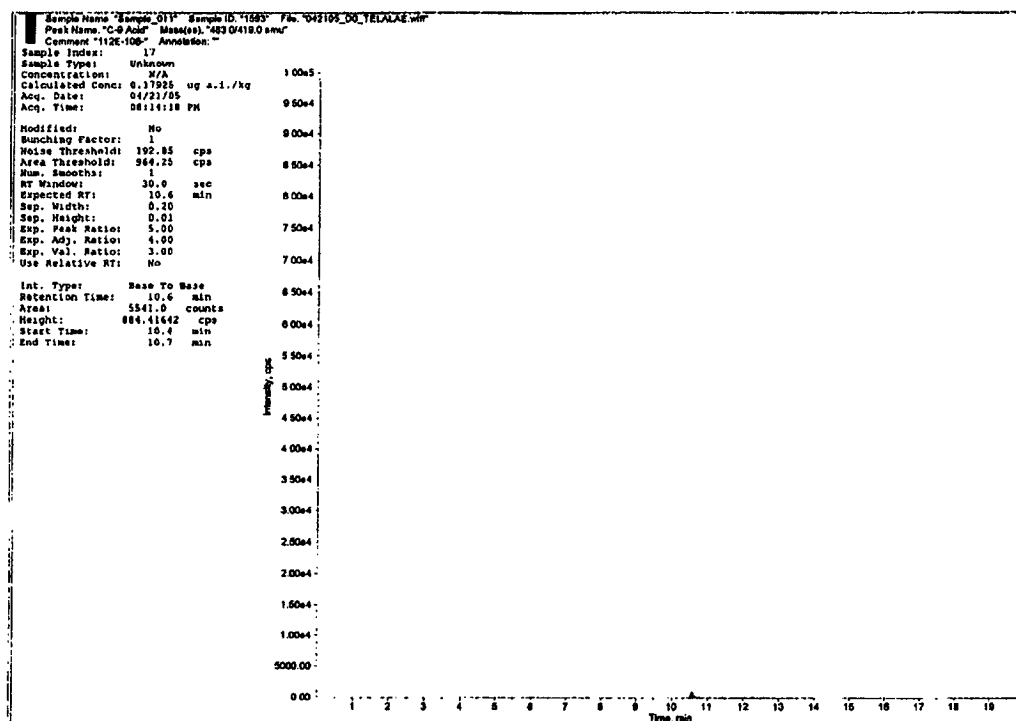


Figure 92. Representative ion chromatogram for PFNA in the soil extract from a Day 0 live soil treated with 200 mg/kg [ ] by LC/MS/MS.

Trace PFNA at 10.6 min was <LOD.

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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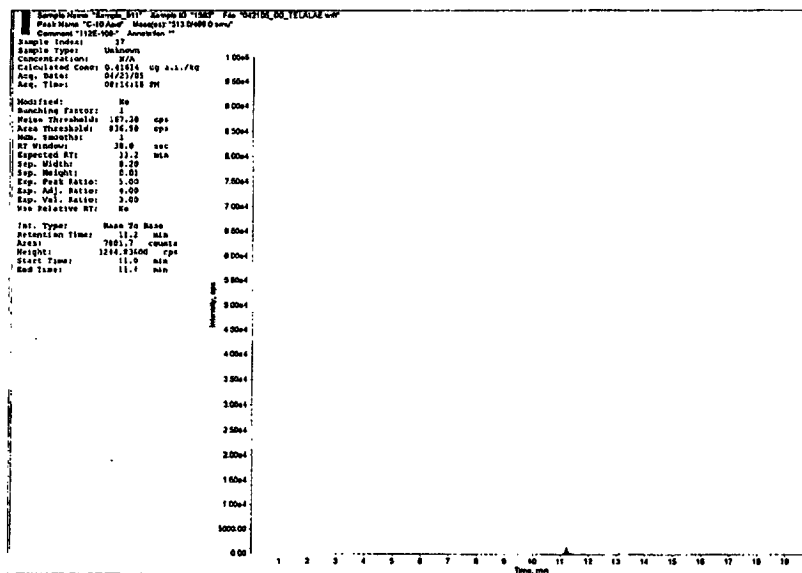


Figure 93. Representative ion chromatogram for PFDA in the soil extract from a Day 0 live soil treated with 200 mg/kg [ ] by LC/MS/MS.

Trace PFDA at 11.2 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

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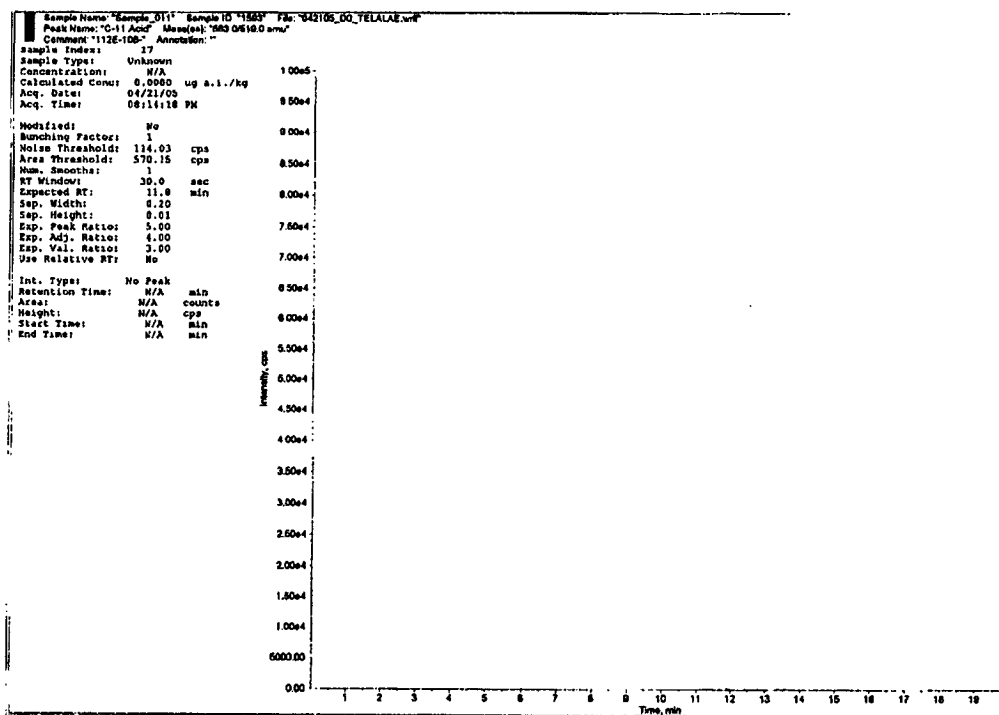


Figure 94. Representative ion chromatogram for PFUA in the soil extract from a Day 0 live soil treated with 200 mg/kg [ ] by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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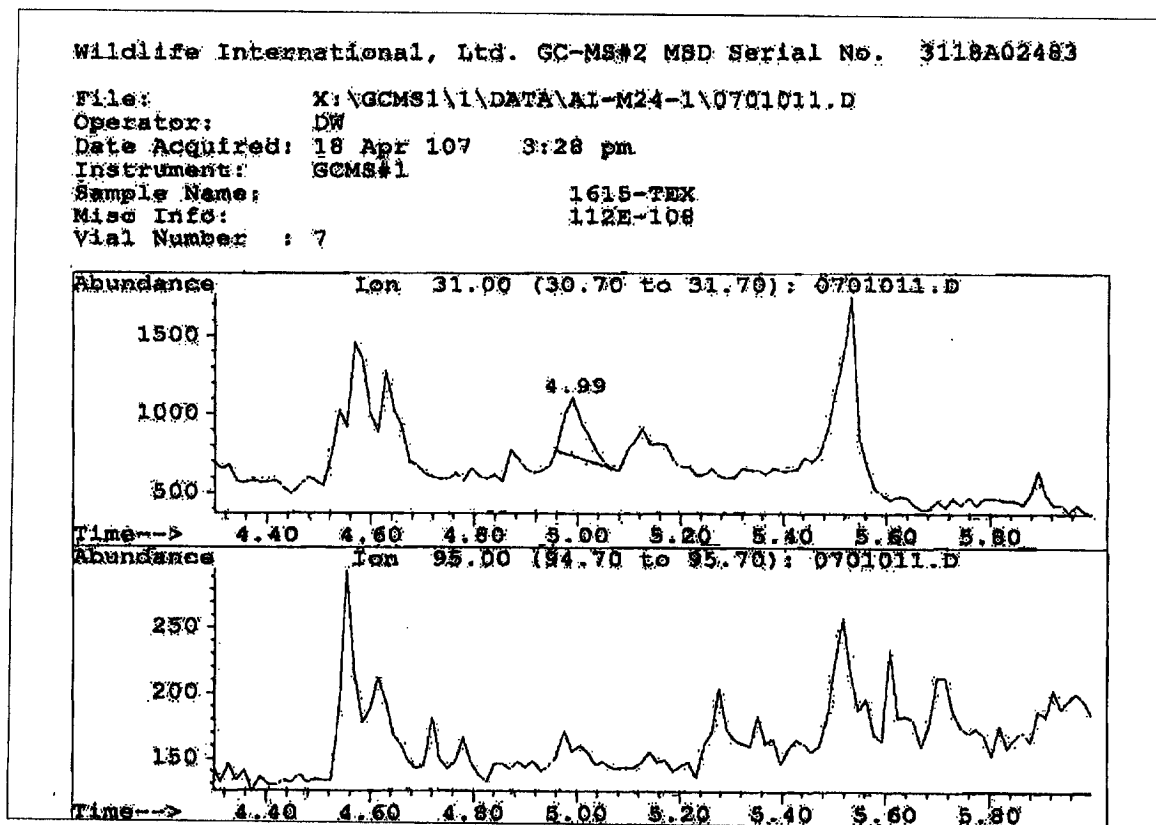


Figure 95. Representative ion chromatograms for 8-2 FTOH in the sampled headspace ( $C_{18}$  cartridge extract) from a Month 24 live soil treated with 200 mg/kg [ ] by GC/MS.

Company Sanitized. Does not contain TSCA CBI.

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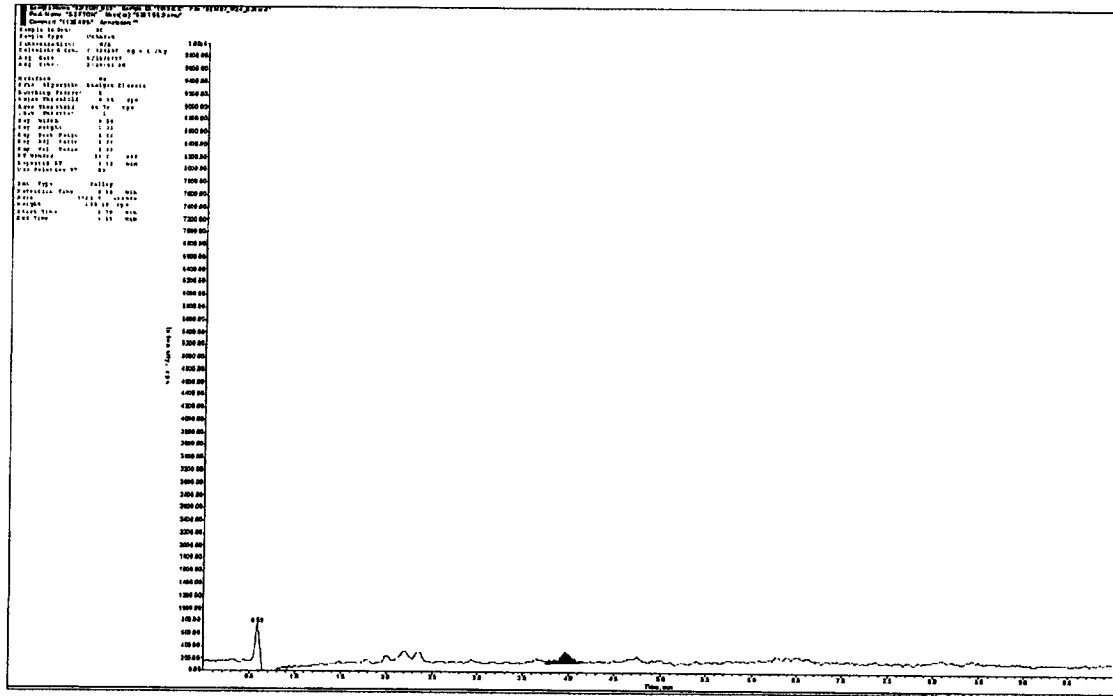


Figure 96. Representative ion chromatogram for 8-2 FTOH in the soil extract from a Month 24 live soil treated with 200 mg/kg [ ] by LC/MS/MS.

Trace 8-2 FTOH at 3.96 min was <LOQ.

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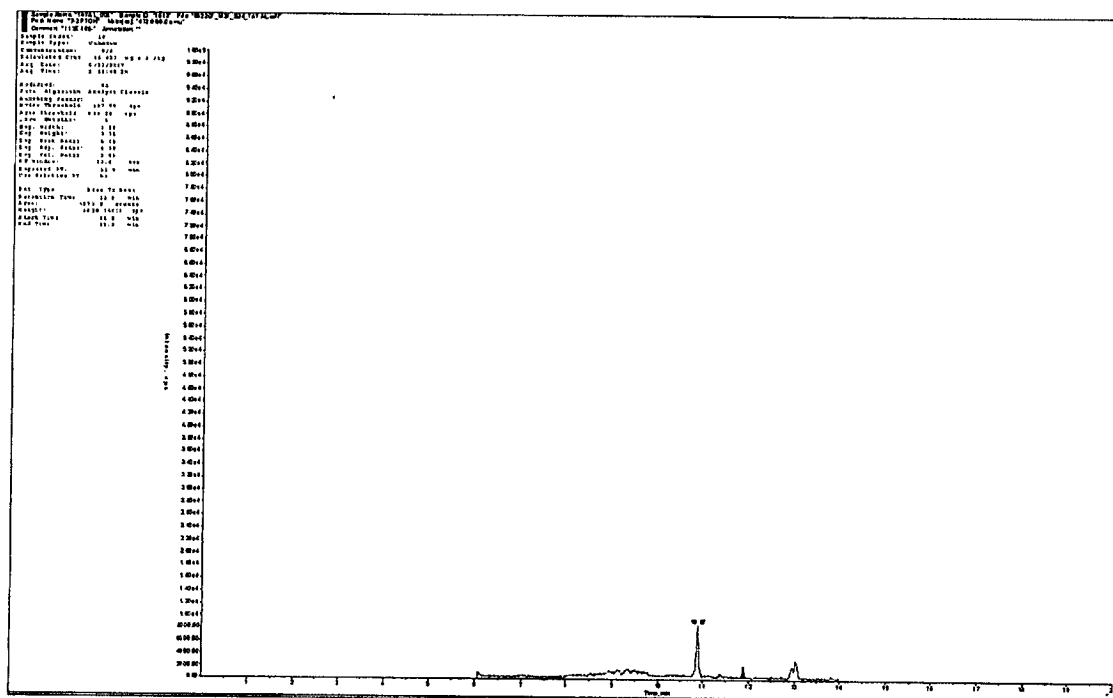


Figure 97. Representative ion chromatogram for 7-2 sFTOH in the soil extract from a Month 24 live soil treated with 200 mg/kg[ ] by LC/MS/MS.

Trace 7-2 sFTOH at 11.9 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

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Project No.: 112E-108

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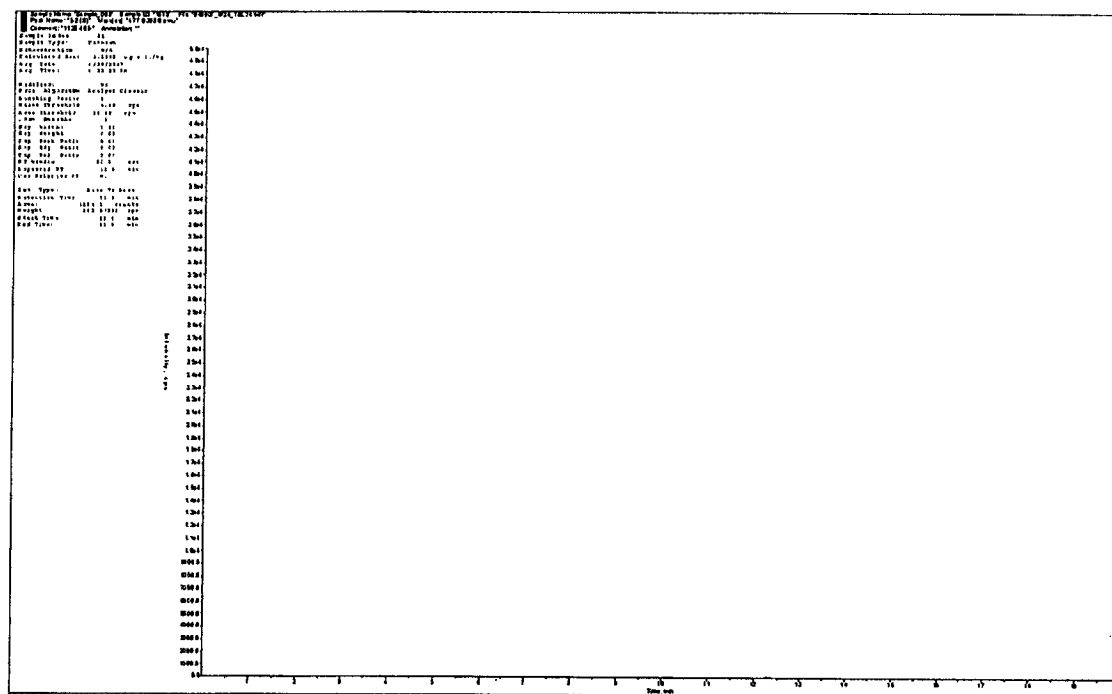


Figure 98. Representative ion chromatogram for 8-2 FTA in the soil extract from a Month 24 live soil treated with 200 mg/kg by LC/MS/MS.

Trace 8-2 FTA at 12.3 min was <LOQ.

*Wildlife International, Ltd.*

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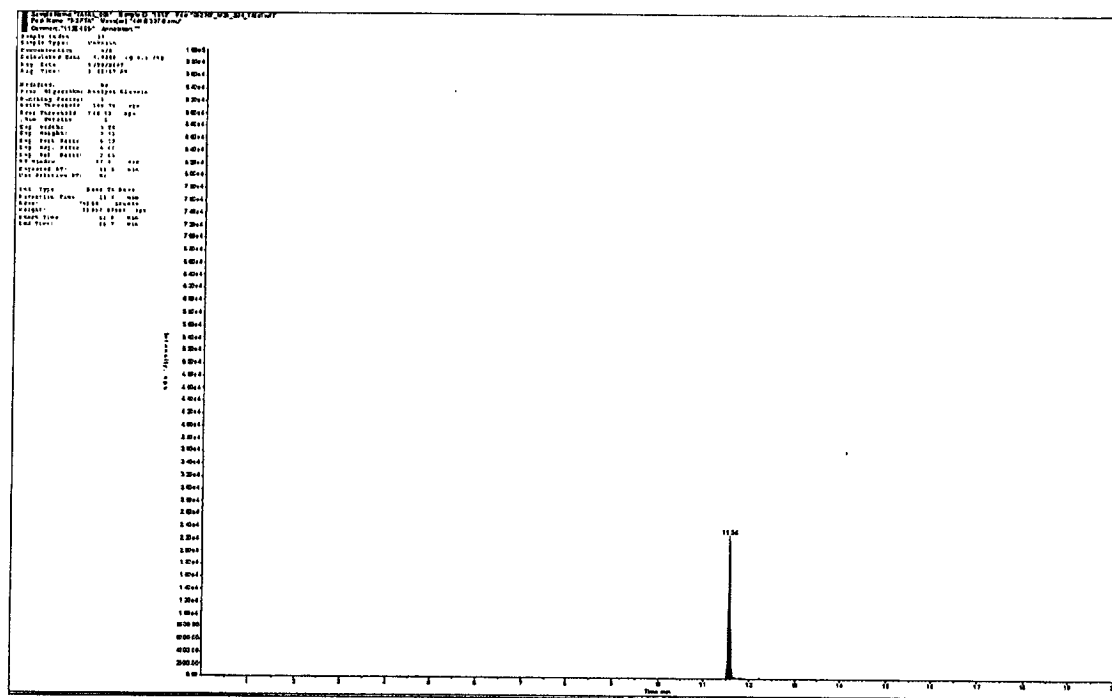


Figure 99. Representative ion chromatogram for 7-3 Acid in the soil extract from a Month 24 live soil treated with 200 mg/kg [ ] by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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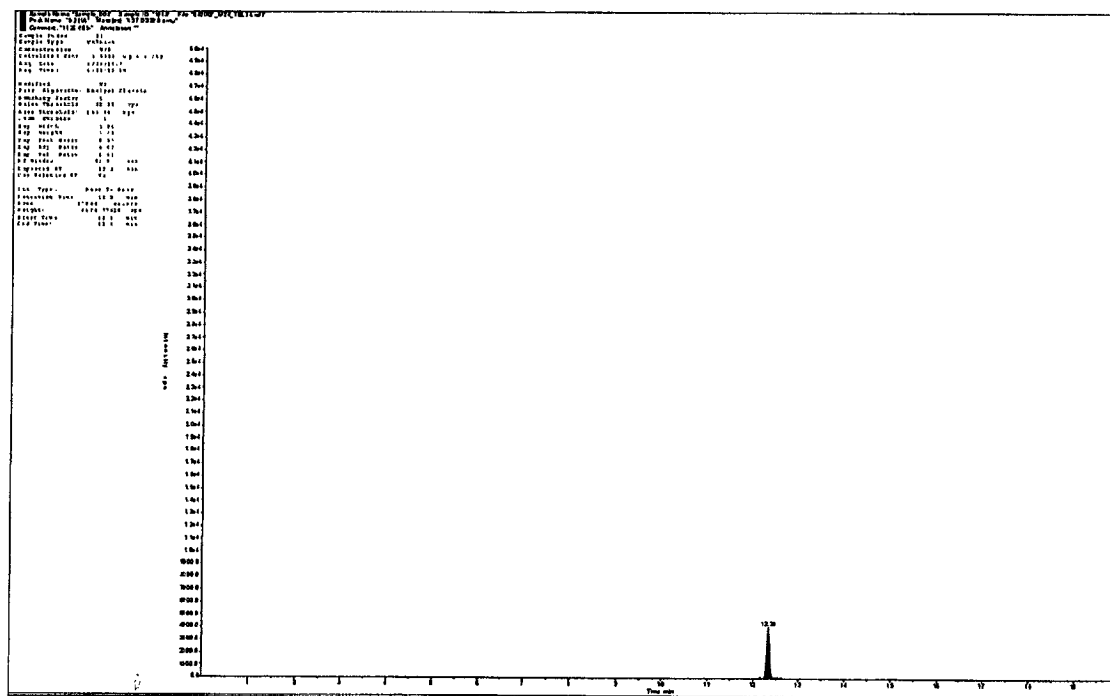


Figure 100. Representative ion chromatogram for 8-2 FTUA in the soil extract from a Month 24 live soil treated with 200 mg/kg [redacted] by LC/MS/MS.

Trace 8-2 FTUA at 12.3 min was <LOQ.

Company Sanitized. Does not contain TSCA CBI.

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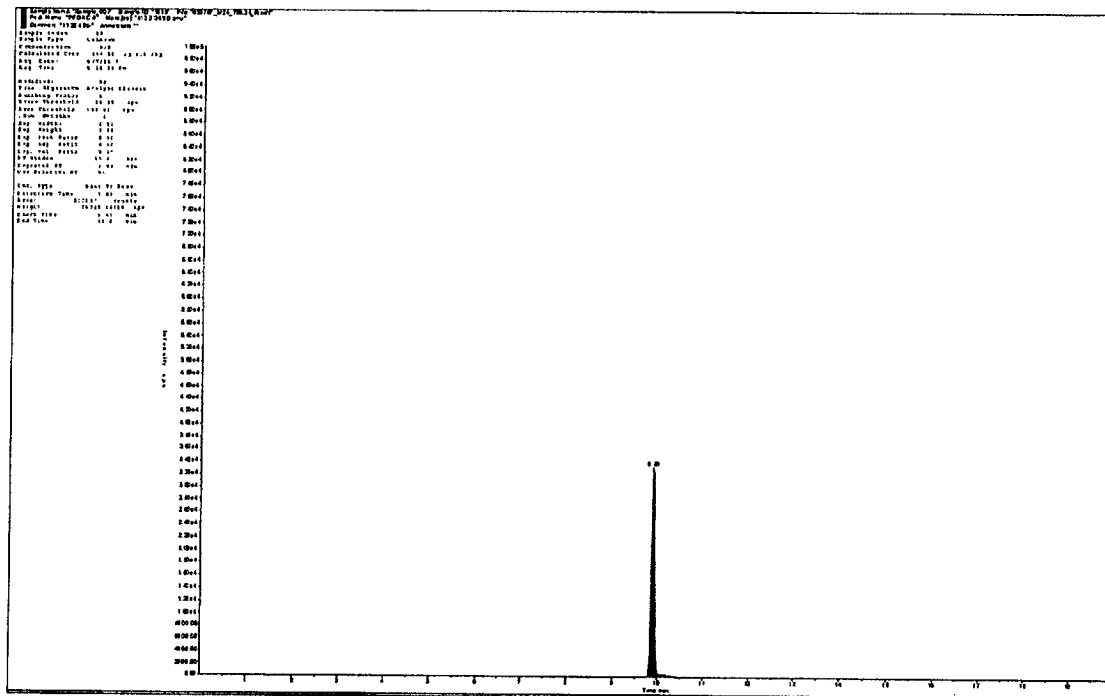


Figure 101. Representative ion chromatogram for PFOA in the soil extract from a Month 24 live soil treated with 200 mg/kg [ ] by LC/MS/MS.

Note: Secondary dilution required and reported for PFOA. Original analysis was over calibration range.

Company Sanitized. Does not contain TSCA CBI.

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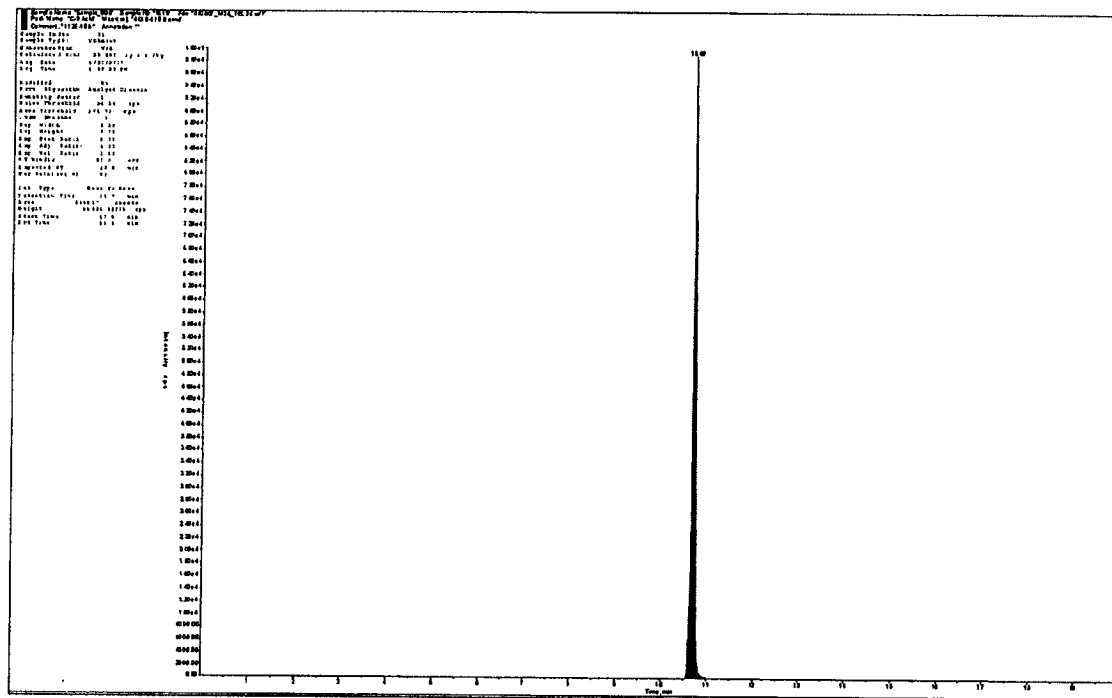


Figure 102. Representative ion chromatogram for PFNA in the soil extract from a Month 24 live soil treated with 200 mg/kg ( ) by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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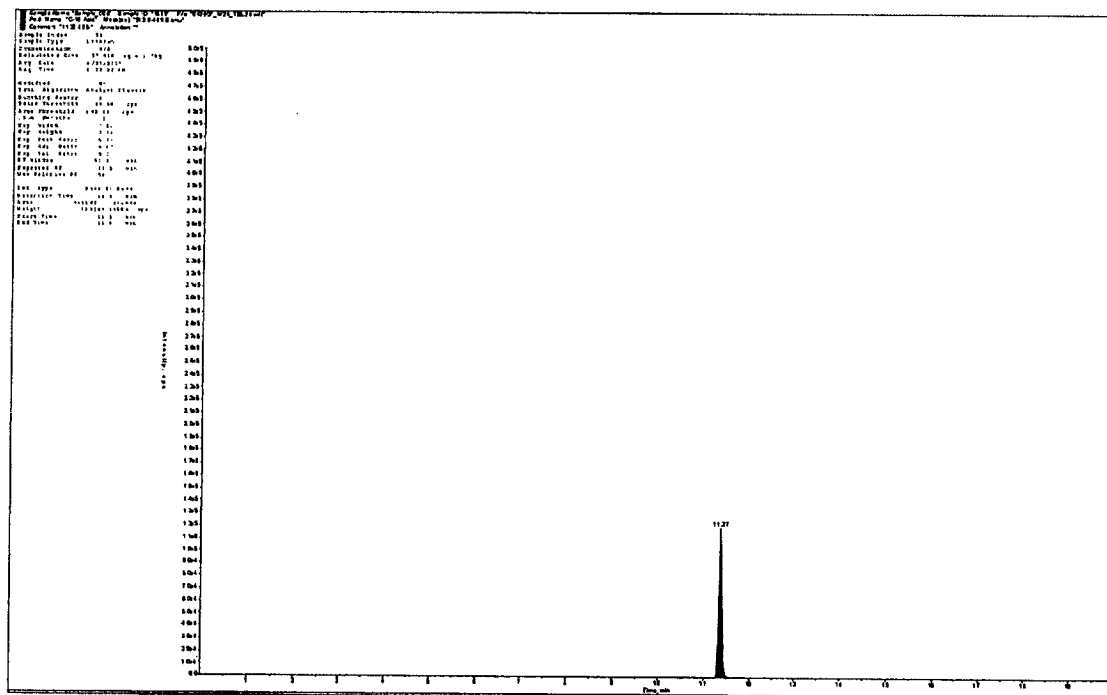


Figure 103. Representative ion chromatogram for PFDA in the soil extract from a Month 24 live soil treated with 200 mg/kgC by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

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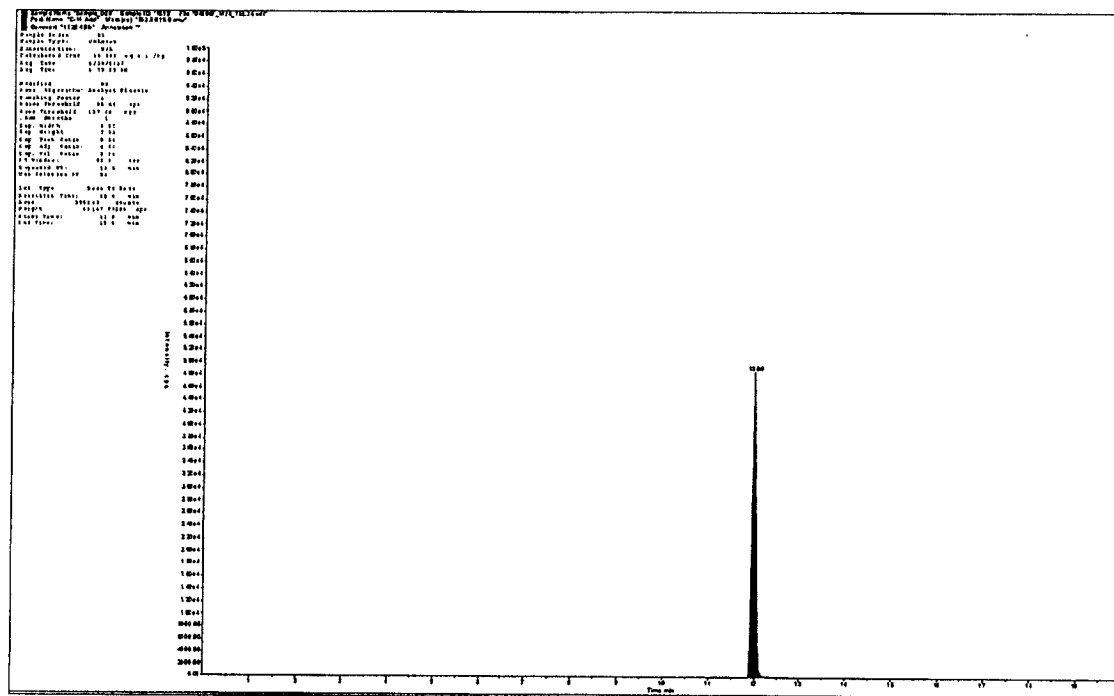


Figure 104. Representative ion chromatogram for PFUA in the soil extract from a Month 24 live soil treated with 200 mg/kg [ ] by LC/MS/MS.

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

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**Appendix I**

Measured Concentration of Selected Analytes ( $\mu\text{g/kg}$  Soil Dry Weight)

Company Sanitized. Does not contain TSCA CBI.

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*Wildlife International, Ltd.*

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**Measured Concentrations of PFOA ( $\mu\text{g/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | 17.8           | <LOQ           | 21.7             | <LOQ           |
|                  | Week 2                 | 19.1           | <LOQ           | 22.7             | <LOQ           |
|                  |                        | 32.0           | <LOQ           | 26.8             | <LOQ           |
|                  | Week 4                 | 36.5           | <LOQ           | 23.9             | <LOQ           |
|                  |                        | 57.8           | 2.0            | 51.5             | <LOQ           |
|                  | Month 2                | 61.4           | <LOQ           | 40.3             | <LOQ           |
|                  |                        | 122.1          | 2.4            | 70.0             | <LOQ           |
|                  | Month 4                | 150.0          | <LOQ           | 73.3             | <LOQ           |
|                  |                        | 269.7          | 2.2            | 114.7            | 2.5            |
|                  | Month 6                | 373.8          | <LOQ           | 133.5            | <LOQ           |
|                  |                        | 376.4          | 4.9            | 148.6            | 2.8            |
|                  | Month 9                | 441.1          | <LOQ           | 104.7            | <LOQ           |
|                  |                        | 487.0          | 7.8            |                  |                |
|                  | Month 12               | 558.6          | <LOQ           |                  |                |
|                  |                        | 367.7          | <LOQ           |                  |                |
|                  | Month 15               | 344.1          | <LOQ           |                  |                |
|                  |                        | 340.1          |                |                  |                |
|                  | Month 18               | 362.6          |                |                  |                |
|                  |                        | 410.7          |                |                  |                |
|                  | Month 24               | 328.7          |                |                  |                |
|                  |                        | 365.9          |                |                  |                |
|                  |                        | 329.1          |                |                  |                |

LOD = limit of detection (0.206  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Number 112E-108

**Measured Concentrations of PFOA ( $\mu\text{g/kg}$ )  
in Soils Treated with( )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | 15.4           | <LOQ           | 14.7             | <LOQ           |
|                  |                        | 15.1           | <LOQ           | 15.1             | <LOQ           |
|                  | Week 2                 | 17.8           | <LOQ           | 18.8             | <LOQ           |
|                  |                        | 18.0           | <LOQ           | 18.1             | <LOQ           |
|                  | Week 4                 | 21.7           | <LOQ           | 20.2             | <LOQ           |
|                  |                        | 20.2           | <LOQ           | 22.3             | <LOQ           |
|                  | Month 2                | 31.8           | <LOQ           | 42.8             | <LOQ           |
|                  |                        | 30.3           | <LOQ           | 43.2             | <LOQ           |
|                  | Month 4                | 46.0           | 2.9            | 78.5             | 2.7            |
|                  |                        | 58.6           | <LOQ           | 61.5             | <LOQ           |
|                  | Month 6                | 74.7           | 3.2            | 117.4            | 3.6            |
|                  |                        | 74.4           | 2.3            | 91.0             | 2.4            |
|                  | Month 9                | 92.5           | 3.4            |                  |                |
|                  |                        | 69.3           | 3.3            |                  |                |
|                  | Month 12               | 103.8          | 3.0            |                  |                |
|                  |                        | 94.0           | 3.1            |                  |                |
|                  | Month 15               | 98.5           |                |                  |                |
|                  |                        | 247.9          |                |                  |                |
|                  | Month 18               | 126.9          |                |                  |                |
|                  |                        | 118.8          |                |                  |                |
|                  | Month 24               | 229.3          |                |                  |                |
|                  |                        | 207.5          |                |                  |                |

LOD = limit of detection (0.206  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Number 112E-108

**Measured Concentrations of PFOA ( $\mu\text{g/kg}$ )  
in Soils Treated with { }**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | 8.5            | <LOQ           | 9.4              | <LOQ           |
|                  |                        | 8.2            | <LOQ           | 10.9             | <LOQ           |
|                  | Week 2                 | 11.4           | <LOQ           | 14.1             | <LOQ           |
|                  |                        | 11.0           | <LOQ           | 15.4             | <LOQ           |
|                  | Week 4                 | 14.9           | <LOQ           | 19.7             | <LOQ           |
|                  |                        | 15.8           | <LOQ           | 19.8             | <LOQ           |
|                  | Month 2                | 23.2           | <LOQ           | 17.9             | <LOQ           |
|                  |                        | 25.0           | <LOQ           | 31.1             | <LOQ           |
|                  | Month 4                | 32.0           | <LOQ           | 90.0             | 2.0            |
|                  |                        | 33.1           | <LOQ           | 77.8             | <LOQ           |
|                  | Month 6                | 58.4           | <LOQ           | 99.3             | 2.2            |
|                  |                        | 52.5           | <LOQ           | 83.5             | <LOQ           |
|                  | Month 9                | 97.9           | 3.3            |                  |                |
|                  |                        | 93.7           | <LOQ           |                  |                |
|                  | Month 12               | 65.4           | <LOQ           |                  |                |
|                  |                        | 84.2           | <LOQ           |                  |                |
|                  | Month 15               | 133.1          |                |                  |                |
|                  |                        | 103.5          |                |                  |                |
|                  | Month 18               | 194.4          |                |                  |                |
|                  |                        | 155.9          |                |                  |                |
|                  | Month 24               | 196.5          |                |                  |                |
|                  |                        | 190.7          |                |                  |                |

LOD = limit of detection (0.206  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of PFOA ( $\mu\text{g/kg}$ )  
in Soils Treated with (      )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | 18.9           | <LOQ           | 20.9             | <LOQ           |
|                  |                        | 20.8           | <LOQ           | 17.7             | <LOQ           |
|                  | Week 2                 | 28.6           | <LOQ           | 26.5             | <LOQ           |
|                  |                        | 29.0           | <LOQ           | 26.8             | <LOQ           |
|                  | Week 4                 | 55.7           | 2.1            | 75.5             | <LOQ           |
|                  |                        | 54.7           | <LOQ           | 48.1             | <LOQ           |
|                  | Month 2                | 122.2          | 2.8            | 138.0            | <LOQ           |
|                  |                        | 97.7           | <LOQ           | 144.3            | <LOQ           |
|                  | Month 4                | 190.4          | 4.4            | 284.5            | 5.0            |
|                  |                        | 189.4          | <LOQ           | 302.6            | <LOQ           |
|                  | Month 6                | 264.7          | 5.6            | 327.0            | 7.6            |
|                  |                        | 250.4          | 3.0            | 347.1            | <LOQ           |
|                  | Month 9                | 288.5          | 6.2            |                  |                |
|                  |                        | 339.5          | 2.8            |                  |                |
|                  | Month 12               | 367.8          | 4.2            |                  |                |
|                  |                        | 350.0          | 2.5            |                  |                |
|                  | Month 15               | 402.3          |                |                  |                |
|                  |                        | 385.3          |                |                  |                |
|                  | Month 18               | 422.5          |                |                  |                |
|                  |                        | 446.5          |                |                  |                |
|                  | Month 24               | 530.9          |                |                  |                |
|                  |                        | 554.1          |                |                  |                |

LOD = limit of detection (0.206  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of 8-2 FTUA ( $\mu\text{g/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | 2.1            | <LOD           | <LOQ             | <LOD           |
|                  |                        | 2.5            | <LOD           | <LOQ             | <LOD           |
|                  | Week 4                 | 4.0            | <LOD           | <LOQ             | <LOD           |
|                  |                        | 3.2            | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | 6.3            | <LOD           | <LOQ             | <LOD           |
|                  |                        | 6.7            | <LOD           | <LOQ             | <LOD           |
|                  | Month 4                | 12.3           | <LOD           | <LOQ             | <LOD           |
|                  |                        | 12.7           | <LOD           | <LOQ             | <LOD           |
|                  | Month 6                | 12.1           | <LOD           | <LOQ             | <LOD           |
|                  |                        | 19.3           | <LOD           | <LOQ             | <LOD           |
|                  | Month 9                | 30.9           | <LOD           |                  |                |
|                  |                        | 19.7           | <LOD           |                  |                |
|                  | Month 12               | 6.0            | <LOD           |                  |                |
|                  |                        | 7.6            | <LOD           |                  |                |
|                  | Month 15               | 11.3           |                |                  |                |
|                  |                        | 13.5           |                |                  |                |
|                  | Month 18               | 15.6           |                |                  |                |
|                  |                        | 6.4            |                |                  |                |
|                  | Month 24               | 15.6           |                |                  |                |
|                  |                        | 32.3           |                |                  |                |

LOD = limit of detection (0.119  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of 8-2 FTUA ( $\mu\text{g/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOQ             | <LOQ           |
|                  |                        | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Month 4                | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  | Month 6                | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Month 9                | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 12               | <LOQ           | <LOD           |                  |                |
|                  |                        | <LOQ           | <LOD           |                  |                |
|                  | Month 15               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | 3.0            |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOD = limit of detection (0.119  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of 8-2 FTUA ( $\mu\text{g/kg}$ )  
in Soils Treated with {      }**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  | Month 4                | <LOD           | <LOD           | 3.9              | <LOD           |
|                  |                        | <LOD           | <LOD           | 2.2              | <LOD           |
|                  | Month 6                | <LOQ           | <LOD           | 2.3              | <LOQ           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  | Month 9                | <LOQ           | <LOD           |                  |                |
|                  |                        | <LOQ           | <LOD           |                  |                |
|                  | Month 12               | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOD = limit of detection (0.119  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of 8-2 FTUA ( $\mu\text{g/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Week 4                 | 5.9            | <LOD           | 7.7              | <LOD           |
|                  |                        | 5.0            | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | 25.2           | <LOD           | 5.6              | <LOD           |
|                  |                        | 12.3           | <LOD           | 5.5              | <LOD           |
|                  | Month 4                | 77.7           | <LOQ           | 13.0             | <LOD           |
|                  |                        | 88.9           | <LOD           | 13.0             | <LOD           |
|                  | Month 6                | 164.0          | 2.7            | 15.4             | <LOQ           |
|                  |                        | 160.4          | <LOQ           | 10.0             | <LOQ           |
|                  | Month 9                | 192.1          | 2.2            |                  |                |
|                  |                        | 161.0          | <LOQ           |                  |                |
|                  | Month 12               | 209.5          | <LOQ           |                  |                |
|                  |                        | 206.9          | <LOQ           |                  |                |
|                  | Month 15               | 225.6          |                |                  |                |
|                  |                        | 252.1          |                |                  |                |
|                  | Month 18               | 256.2          |                |                  |                |
|                  |                        | 242.7          |                |                  |                |
|                  | Month 24               | 248.5          |                |                  |                |
|                  |                        | 239.0          |                |                  |                |

LOD = limit of detection (0.119  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of 8-2 FTA ( $\mu\text{g/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | 3.8            | <LOD           | <LOD             | <LOD           |
|                  |                        | 3.7            | <LOD           | <LOQ             | <LOD           |
|                  | Week 4                 | 6.2            | <LOD           | <LOD             | <LOD           |
|                  |                        | 4.7            | <LOD           | <LOD             | <LOD           |
|                  | Month 2                | 8.6            | <LOD           | <LOD             | <LOD           |
|                  |                        | 8.5            | <LOD           | <LOD             | <LOD           |
|                  | Month 4                | 9.7            | <LOD           | <LOD             | <LOD           |
|                  |                        | 8.0            | <LOD           | <LOQ             | <LOD           |
|                  | Month 6                | 10.1           | <LOQ           | <LOQ             | <LOD           |
|                  |                        | 19.0           | <LOD           | <LOD             | <LOD           |
|                  | Month 9                | 19.7           | <LOD           |                  |                |
|                  |                        | 12.0           | <LOD           |                  |                |
|                  | Month 12               | 3.0            | <LOD           |                  |                |
|                  |                        | 4.4            | 2.0            |                  |                |
|                  | Month 15               | 4.3            |                |                  |                |
|                  |                        | 3.8            |                |                  |                |
|                  | Month 18               | 6.7            |                |                  |                |
|                  |                        | 2.9            |                |                  |                |
|                  | Month 24               | 4.7            |                |                  |                |
|                  |                        | 5.2            |                |                  |                |

LOD = limit of detection (0.503  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of 8-2 FTA ( $\mu\text{g/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 2                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 4                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 6                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 9                | <LOD           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 12               | <LOQ           | <LOD           |                  |                |
|                  |                        | 2.3            | <LOD           |                  |                |
|                  | Month 15               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 18               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOD = limit of detection (0.503  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of 8-2 FTA ( $\mu\text{g/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 4                | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  | Month 6                | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOQ             | <LOQ           |
|                  | Month 9                | <LOD           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 12               | <LOD           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 15               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 18               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOD = limit of detection (0.503  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of 8-2 FTA ( $\mu\text{g/kg}$ )  
in Soils Treated with (      )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | 5.5            | <LOD           | 6.6              | <LOD           |
|                  |                        | 4.8            | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | 18.0           | <LOD           | 2.5              | <LOD           |
|                  |                        | 13.0           | <LOD           | 2.6              | <LOD           |
|                  | Month 4                | 73.7           | <LOQ           | 6.1              | <LOD           |
|                  |                        | 75.7           | <LOD           | 5.9              | <LOD           |
|                  | Month 6                | 162.8          | 2.9            | 8.5              | <LOD           |
|                  |                        | 144.6          | <LOQ           | 5.3              | <LOQ           |
|                  | Month 9                | 163.8          | 2.8            |                  |                |
|                  |                        | 126.8          | <LOQ           |                  |                |
|                  | Month 12               | 133.2          | <LOQ           |                  |                |
|                  |                        | 140.6          | <LOQ           |                  |                |
|                  | Month 15               | 193.0          |                |                  |                |
|                  |                        | 205.7          |                |                  |                |
|                  | Month 18               | 213.7          |                |                  |                |
|                  |                        | 226.5          |                |                  |                |
|                  | Month 24               | 202.5          |                |                  |                |
|                  |                        | 221.7          |                |                  |                |

LOD = limit of detection (0.503  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of PFNA ( $\mu\text{g/kg}$ )  
in Soils Treated with ( )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | 7.0            | <LOQ           | 6.5              | <LOQ           |
|                  | Week 2                 | 7.2            | <LOQ           | 7.0              | <LOQ           |
|                  |                        | 11.5           | <LOQ           | 9.2              | <LOQ           |
|                  | Week 4                 | 12.3           | <LOQ           | 9.5              | <LOQ           |
|                  |                        | 17.6           | <LOQ           | 15.7             | <LOQ           |
|                  | Month 2                | 16.7           | <LOQ           | 13.7             | <LOQ           |
|                  |                        | 24.0           | <LOQ           | 15.4             | <LOQ           |
|                  | Month 4                | 21.5           | <LOQ           | 21.5             | <LOQ           |
|                  |                        | 28.0           | <LOQ           | 23.4             | <LOQ           |
|                  | Month 6                | 30.0           | <LOQ           | 22.4             | <LOQ           |
|                  |                        | 28.5           | <LOQ           | 30.0             | <LOQ           |
|                  | Month 9                | 30.7           | <LOQ           | 25.5             | <LOQ           |
|                  |                        | 33.2           | <LOQ           |                  |                |
|                  | Month 12               | 30.1           | <LOQ           |                  |                |
|                  |                        | 8.6            | <LOQ           |                  |                |
|                  | Month 15               | 15.7           | <LOQ           |                  |                |
|                  |                        | 23.8           |                |                  |                |
|                  | Month 18               | 26.2           |                |                  |                |
|                  |                        | 29.8           |                |                  |                |
|                  | Month 24               | 24.4           |                |                  |                |
|                  |                        | 31.0           |                |                  |                |
|                  |                        | 29.5           |                |                  |                |

LOD = limit of detection (0.124  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of PFNA ( $\mu\text{g/kg}$ )  
in Soils Treated with {      }**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Week 1                 | 5.8            | <LOQ           | 4.2              | <LOQ           |
|                  |                        | 6.0            | <LOQ           | 4.3              | <LOQ           |
|                  | Week 2                 | 5.7            | <LOD           | 5.8              | <LOQ           |
|                  |                        | 8.3            | <LOD           | 4.6              | <LOD           |
|                  | Week 4                 | 10.6           | <LOQ           | 4.3              | <LOQ           |
|                  |                        | 12.3           | <LOQ           | 5.9              | <LOQ           |
|                  | Month 2                | 18.1           | <LOQ           | 6.5              | <LOQ           |
|                  |                        | 17.2           | <LOQ           | 8.2              | <LOQ           |
|                  | Month 4                | 22.4           | <LOQ           | 12.1             | <LOQ           |
|                  |                        | 22.5           | <LOQ           | 9.3              | <LOQ           |
|                  | Month 6                | 21.2           | <LOQ           | 16.0             | <LOQ           |
|                  |                        | 20.0           | <LOQ           | 12.1             | <LOQ           |
|                  | Month 9                | 17.3           | <LOQ           |                  |                |
|                  |                        | 11.1           | <LOQ           |                  |                |
|                  | Month 12               | 19.5           | <LOQ           |                  |                |
|                  |                        | 18.4           | <LOQ           |                  |                |
|                  | Month 15               | 14.6           |                |                  |                |
|                  |                        | 25.8           |                |                  |                |
|                  | Month 18               | 20.7           |                |                  |                |
|                  |                        | 17.1           |                |                  |                |
|                  | Month 24               | 25.7           |                |                  |                |
|                  |                        | 34.7           |                |                  |                |

LOD = limit of detection (0.124  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of PFNA ( $\mu\text{g/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  | Week 1                 | 3.3            | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | 4.0            | <LOQ           | 2.4              | <LOD           |
|                  | Week 2                 | 4.6            | <LOD           | 2.7              | <LOQ           |
|                  |                        | 3.9            | <LOQ           | 3.2              | <LOD           |
|                  | Week 4                 | 6.6            | <LOQ           | 4.8              | <LOQ           |
|                  |                        | 7.7            | <LOQ           | 4.9              | <LOQ           |
|                  | Month 2                | 10.4           | <LOQ           | 3.6              | <LOQ           |
|                  |                        | 16.2           | <LOQ           | 6.6              | <LOQ           |
|                  | Month 4                | 10.6           | <LOQ           | 8.9              | <LOQ           |
|                  |                        | 13.5           | <LOD           | 9.2              | <LOQ           |
|                  | Month 6                | 8.9            | <LOQ           | 11.2             | <LOQ           |
|                  |                        | 15.9           | <LOQ           | 7.9              | <LOQ           |
|                  | Month 9                | 17.6           | <LOQ           |                  |                |
|                  |                        | 23.3           | <LOD           |                  |                |
|                  | Month 12               | 13.4           | <LOQ           |                  |                |
|                  |                        | 17.5           | <LOQ           |                  |                |
|                  | Month 15               | 23.1           |                |                  |                |
|                  |                        | 15.2           |                |                  |                |
|                  | Month 18               | 15.7           |                |                  |                |
|                  |                        | 17.7           |                |                  |                |
|                  | Month 24               | 25.3           |                |                  |                |
|                  |                        | 22.0           |                |                  |                |

LOD = limit of detection (0.124  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of PFNA ( $\mu\text{g/kg}$ )  
in Soils Treated with ( )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | 20.3           | <LOQ           | 9.5              | <LOQ           |
|                  | Week 2                 | 25.1           | <LOQ           | 7.2              | <LOQ           |
|                  |                        | 29.0           | <LOQ           | 13.1             | <LOQ           |
|                  | Week 4                 | 33.4           | <LOQ           | 13.5             | <LOQ           |
|                  |                        | 36.9           | <LOQ           | 34.9             | <LOQ           |
|                  | Month 2                | 35.2           | <LOQ           | 21.8             | <LOQ           |
|                  |                        | 62.2           | <LOQ           | 24.8             | <LOQ           |
|                  | Month 4                | 63.9           | <LOQ           | 26.6             | <LOQ           |
|                  |                        | 59.4           | <LOQ           | 28.7             | <LOQ           |
|                  | Month 6                | 61.9           | <LOQ           | 35.7             | <LOQ           |
|                  |                        | 67.9           | <LOQ           | 34.0             | <LOQ           |
|                  | Month 9                | 79.9           | <LOQ           | 36.1             | <LOQ           |
|                  |                        | 79.9           | <LOQ           |                  |                |
|                  | Month 12               | 79.5           | <LOQ           |                  |                |
|                  |                        | 71.5           | <LOQ           |                  |                |
|                  | Month 15               | 70.7           | <LOQ           |                  |                |
|                  |                        | 73.9           |                |                  |                |
|                  | Month 18               | 74.1           |                |                  |                |
|                  |                        | 79.2           |                |                  |                |
|                  | Month 24               | 80.6           |                |                  |                |
|                  |                        | 96.5           |                |                  |                |
|                  |                        | 104.2          |                |                  |                |

LOD = limit of detection (0.124  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of PFDA ( $\mu\text{g/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | 4.6            | <LOQ           | 4.8              | <LOQ           |
|                  | Week 2                 | 4.8            | <LOQ           | 5.2              | <LOQ           |
|                  |                        | 7.6            | <LOQ           | 6.9              | <LOQ           |
|                  | Week 4                 | 8.4            | <LOQ           | 7.3              | <LOQ           |
|                  |                        | 10.7           | <LOQ           | 9.3              | <LOQ           |
|                  | Month 2                | 11.9           | <LOQ           | 8.5              | <LOQ           |
|                  |                        | 18.0           | <LOQ           | 13.2             | <LOQ           |
|                  | Month 4                | 18.5           | <LOQ           | 15.0             | <LOQ           |
|                  |                        | 26.6           | <LOQ           | 25.4             | <LOQ           |
|                  | Month 6                | 28.2           | <LOQ           | 28.4             | <LOQ           |
|                  |                        | 30.4           | <LOQ           | 21.9             | <LOQ           |
|                  | Month 9                | 35.5           | <LOQ           | 19.6             | <LOQ           |
|                  |                        | 37.9           | <LOQ           |                  |                |
|                  | Month 12               | 39.3           | <LOQ           |                  |                |
|                  |                        | 9.2            | <LOQ           |                  |                |
|                  | Month 15               | 20.9           | <LOQ           |                  |                |
|                  |                        | 33.3           |                |                  |                |
|                  | Month 18               | 34.0           |                |                  |                |
|                  |                        | 48.1           |                |                  |                |
|                  | Month 24               | 36.5           |                |                  |                |
|                  |                        | 50.7           |                |                  |                |
|                  |                        | 44.3           |                |                  |                |

LOD = limit of detection (0.114  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of PFDA ( $\mu\text{g/kg}$ )  
in Soils Treated with (      )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | 3.4            | <LOQ           | 3.7              | <LOQ           |
|                  |                        | 3.7            | <LOQ           | 3.7              | <LOQ           |
|                  | Week 2                 | 4.7            | <LOQ           | 5.4              | <LOQ           |
|                  |                        | 5.2            | <LOQ           | 4.7              | <LOQ           |
|                  | Week 4                 | 6.2            | <LOQ           | 6.5              | <LOQ           |
|                  |                        | 6.2            | <LOQ           | 6.7              | <LOQ           |
|                  | Month 2                | 9.9            | <LOQ           | 11.0             | <LOQ           |
|                  |                        | 10.1           | <LOQ           | 10.7             | <LOQ           |
|                  | Month 4                | 14.6           | 2.0            | 17.4             | <LOQ           |
|                  |                        | 16.4           | <LOQ           | 14.2             | <LOQ           |
|                  | Month 6                | 17.3           | <LOQ           | 21.0             | <LOQ           |
|                  |                        | 17.6           | <LOQ           | 17.5             | <LOQ           |
|                  | Month 9                | 16.6           | <LOQ           |                  |                |
|                  |                        | 12.4           | 2.1            |                  |                |
|                  | Month 12               | 19.7           | <LOQ           |                  |                |
|                  |                        | 18.6           | <LOQ           |                  |                |
|                  | Month 15               | 14.6           |                |                  |                |
|                  |                        | 27.7           |                |                  |                |
|                  | Month 18               | 22.0           |                |                  |                |
|                  |                        | 21.4           |                |                  |                |
|                  | Month 24               | 45.4           |                |                  |                |
|                  |                        | 48.5           |                |                  |                |

LOD = limit of detection (0.114  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of PFDA ( $\mu\text{g}/\text{kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | 2.1            | <LOQ           | 2.4              | <LOQ           |
|                  | Week 2                 | 2.9            | <LOQ           | 3.1              | <LOQ           |
|                  |                        | 3.0            | <LOQ           | 3.6              | <LOQ           |
|                  | Week 4                 | 4.4            | <LOQ           | 5.4              | <LOQ           |
|                  |                        | 4.8            | <LOQ           | 5.6              | <LOQ           |
|                  | Month 2                | 8.1            | <LOQ           | 4.8              | <LOQ           |
|                  |                        | 9.2            | <LOQ           | 8.7              | <LOQ           |
|                  | Month 4                | 8.4            | <LOQ           | 12.9             | <LOQ           |
|                  |                        | 9.8            | <LOQ           | 13.2             | <LOQ           |
|                  | Month 6                | 9.3            | <LOQ           | 14.6             | <LOQ           |
|                  |                        | 12.5           | <LOQ           | 12.2             | <LOQ           |
|                  | Month 9                | 17.1           | <LOQ           |                  |                |
|                  |                        | 19.7           | <LOD           |                  |                |
|                  | Month 12               | 12.9           | <LOQ           |                  |                |
|                  |                        | 16.1           | <LOQ           |                  |                |
|                  | Month 15               | 26.3           |                |                  |                |
|                  |                        | 15.3           |                |                  |                |
|                  | Month 18               | 23.3           |                |                  |                |
|                  |                        | 20.7           |                |                  |                |
|                  | Month 24               | 37.6           |                |                  |                |
|                  |                        | 36.8           |                |                  |                |

LOD = limit of detection (0.114  $\mu\text{g}/\text{kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g}/\text{kg}$ )

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**Measured Concentrations of PFDA ( $\mu\text{g/kg}$ )  
in Soils Treated with [                      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | 4.5            | <LOQ           | 5.3              | <LOQ           |
|                  |                        | 5.4            | <LOQ           | 4.5              | <LOQ           |
|                  | Week 2                 | 8.1            | <LOQ           | 7.5              | <LOQ           |
|                  |                        | 8.3            | <LOQ           | 7.8              | <LOQ           |
|                  | Week 4                 | 15.6           | <LOQ           | 20.9             | <LOQ           |
|                  |                        | 15.6           | <LOQ           | 11.5             | <LOQ           |
|                  | Month 2                | 34.3           | 2.1            | 21.4             | <LOQ           |
|                  |                        | 29.8           | <LOQ           | 22.9             | <LOQ           |
|                  | Month 4                | 43.5           | 2.6            | 33.7             | <LOQ           |
|                  |                        | 50.4           | <LOQ           | 39.3             | <LOQ           |
|                  | Month 6                | 52.3           | 3.1            | 47.0             | 2.7            |
|                  |                        | 68.8           | 3.1            | 41.0             | <LOQ           |
|                  | Month 9                | 66.7           | 2.9            |                  |                |
|                  |                        | 57.2           | 2.3            |                  |                |
|                  | Month 12               | 62.0           | 2.3            |                  |                |
|                  |                        | 69.8           | 2.0            |                  |                |
|                  | Month 15               | 62.9           |                |                  |                |
|                  |                        | 66.0           |                |                  |                |
|                  | Month 18               | 81.4           |                |                  |                |
|                  |                        | 77.9           |                |                  |                |
|                  | Month 24               | 86.7           |                |                  |                |
|                  |                        | 89.6           |                |                  |                |

LOD = limit of detection (0.114  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of PFUA ( $\mu\text{g/kg}$ )  
in Soils Treated with**

| Soil Type | Sample Interval | Aerobic |         | Anaerobic |         |
|-----------|-----------------|---------|---------|-----------|---------|
|           |                 | Live    | Sterile | Live      | Sterile |
| Ultisol   | Day 0           | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|           |                 | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|           | Week 1          | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|           |                 | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|           | Week 2          | 3.0     | <LOQ    | 2.7       | <LOQ    |
|           |                 | 3.3     | <LOQ    | 2.6       | <LOQ    |
|           | Week 4          | 5.1     | <LOQ    | 4.1       | <LOQ    |
|           |                 | 4.7     | <LOQ    | 3.9       | <LOQ    |
|           | Month 2         | 8.5     | <LOQ    | 6.9       | <LOQ    |
|           |                 | 8.0     | <LOQ    | 8.2       | <LOQ    |
|           | Month 4         | 13.2    | <LOQ    | 15.5      | <LOQ    |
|           |                 | 15.0    | <LOQ    | 13.1      | <LOQ    |
|           | Month 6         | 16.0    | <LOQ    | 18.2      | <LOQ    |
|           |                 | 16.4    | <LOQ    | 17.6      | <LOQ    |
|           | Month 9         | 18.8    | <LOQ    |           |         |
|           |                 | 17.0    | <LOQ    |           |         |
|           | Month 12        | 3.6     | <LOQ    |           |         |
|           |                 | 10.5    | <LOQ    |           |         |
|           | Month 15        | 15.1    |         |           |         |
|           |                 | 15.5    |         |           |         |
|           | Month 18        | 19.2    |         |           |         |
|           |                 | 16.1    |         |           |         |
|           | Month 24        | 22.5    |         |           |         |
|           |                 | 22.7    |         |           |         |

LOD = limit of detection ( $0.128 \mu\text{g/kg}$ )LOQ = limit of quantitation ( $2.0 \mu\text{g/kg}$ )

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**Measured Concentrations of PFUA ( $\mu\text{g/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  | Week 2                 | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Week 4                 | 2.1            | <LOD           | <LOQ             | <LOD           |
|                  |                        | 2.7            | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 2                | 2.7            | <LOQ           | 2.0              | <LOQ           |
|                  |                        | 6.0            | <LOQ           | 2.5              | <LOD           |
|                  | Month 4                | 5.7            | <LOD           | 3.5              | <LOD           |
|                  |                        | 10.0           | <LOQ           | 6.0              | <LOQ           |
|                  | Month 6                | 10.8           | <LOD           | 4.7              | <LOQ           |
|                  |                        | 9.5            | <LOQ           | 6.8              | <LOQ           |
|                  | Month 9                | 9.6            | <LOQ           | 5.5              | <LOD           |
|                  |                        | 8.2            | <LOQ           |                  |                |
|                  | Month 12               | 4.6            | <LOQ           |                  |                |
|                  |                        | 8.8            | <LOQ           |                  |                |
|                  | Month 15               | 8.6            | <LOQ           |                  |                |
|                  |                        | 6.1            |                |                  |                |
|                  | Month 18               | 11.6           |                |                  |                |
|                  |                        | 10.4           |                |                  |                |
|                  | Month 24               | 9.2            |                |                  |                |
|                  |                        | 14.5           |                |                  |                |
|                  |                        | 21.3           |                |                  |                |

LOD = limit of detection (0.128  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of PFUA ( $\mu\text{g/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOD           |
|                  | Week 2                 | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  | Week 4                 | 2.0            | <LOD           | <LOQ             | <LOD           |
|                  |                        | 2.3            | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | 4.6            | <LOD           | <LOQ             | <LOQ           |
|                  |                        | 6.1            | <LOD           | 3.0              | <LOD           |
|                  | Month 4                | 4.1            | <LOQ           | 3.1              | <LOD           |
|                  |                        | 6.2            | <LOD           | 3.3              | <LOD           |
|                  | Month 6                | 3.2            | <LOD           | 4.5              | <LOQ           |
|                  |                        | 6.2            | <LOQ           | 3.5              | <LOQ           |
|                  | Month 9                | 7.3            | <LOQ           |                  |                |
|                  |                        | 11.3           | <LOD           |                  |                |
|                  | Month 12               | 7.6            | <LOQ           |                  |                |
|                  |                        | 9.2            | <LOQ           |                  |                |
|                  | Month 15               | 13.5           |                |                  |                |
|                  |                        | 5.8            |                |                  |                |
|                  | Month 18               | 7.0            |                |                  |                |
|                  |                        | 7.2            |                |                  |                |
|                  | Month 24               | 14.4           |                |                  |                |
|                  |                        | 10.1           |                |                  |                |

LOD = limit of detection (0.128  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of PFUA ( $\mu\text{g/kg}$ )  
in Soils Treated with**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOQ           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOQ           | <LOD             | <LOD           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOD           |
|                  |                        | 2.4            | <LOQ           | <LOQ             | <LOD           |
|                  | Week 2                 | 3.9            | <LOD           | 3.4              | <LOD           |
|                  |                        | 4.3            | <LOD           | 3.5              | <LOQ           |
|                  | Week 4                 | 7.1            | <LOD           | 9.6              | <LOQ           |
|                  |                        | 6.0            | <LOD           | 6.3              | <LOD           |
|                  | Month 2                | 19.0           | <LOQ           | 14.1             | <LOQ           |
|                  |                        | 19.8           | <LOQ           | 14.2             | <LOQ           |
|                  | Month 4                | 18.7           | <LOQ           | 17.1             | <LOQ           |
|                  |                        | 18.8           | <LOQ           | 19.1             | <LOD           |
|                  | Month 6                | 20.8           | <LOQ           | 22.2             | <LOQ           |
|                  |                        | 28.0           | <LOQ           | 21.1             | <LOQ           |
|                  | Month 9                | 29.4           | <LOQ           |                  |                |
|                  |                        | 28.2           | <LOQ           |                  |                |
|                  | Month 12               | 25.9           | <LOQ           |                  |                |
|                  |                        | 29.3           | <LOQ           |                  |                |
|                  | Month 15               | 26.1           |                |                  |                |
|                  |                        | 25.7           |                |                  |                |
|                  | Month 18               | 34.9           |                |                  |                |
|                  |                        | 33.0           |                |                  |                |
|                  | Month 24               | 40.5           |                |                  |                |
|                  |                        | 45.3           |                |                  |                |

LOD = limit of detection (0.128  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 2                | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Month 4                | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Month 6                | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Month 9                | <LOQ           | <LOD           |                  |                |
|                  |                        | <LOQ           | <LOD           |                  |                |
|                  | Month 12               | <LOQ           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |

LOD = limit of detection (22.3  $\mu\text{g/kg}$ )LOQ = limit of quantitation (100  $\mu\text{g/kg}$ )

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**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/kg}$ )  
in Soils Treated with { }**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 2                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 4                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 6                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 9                | <LOD           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 12               | <LOD           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 15               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 18               | <LOD           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |

LOD = limit of detection (22.3  $\mu\text{g/kg}$ )LOQ = limit of quantitation (100  $\mu\text{g/kg}$ )

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**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 2                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 4                | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 6                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 9                | <LOD           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 12               | <LOD           |                |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 15               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 18               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |

LOD = limit of detection (22.3  $\mu\text{g/kg}$ )LOQ = limit of quantitation (100  $\mu\text{g/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/kg}$ )  
in Soils Treated with { }**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Month 2                | 174            | <LOD           | <LOQ             | <LOQ           |
|                  |                        | 125            | <LOD           | <LOQ             | <LOD           |
|                  | Month 4                | 148            | <LOQ           | <LOQ             | <LOD           |
|                  |                        | 138            | <LOD           | <LOQ             | <LOD           |
|                  | Month 6                | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | 140            | <LOD           | <LOQ             | <LOD           |
|                  | Month 9                | 100            | <LOD           |                  |                |
|                  |                        | <LOQ           | <LOD           |                  |                |
|                  | Month 12               | 131            | <LOD           |                  |                |
|                  |                        | 165            | <LOD           |                  |                |
|                  | Month 15               | 173            |                |                  |                |
|                  |                        | 121            |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOD = limit of detection (22.3  $\mu\text{g/kg}$ )LOQ = limit of quantitation (100  $\mu\text{g/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/L}$ )  
in Headspace Gases from Chambers Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 2                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 4                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 2                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 4                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 6                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 9                | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 12               | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (12.5  $\mu\text{g/L}$  of headspace)

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**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/L}$ )  
in Headspace Gases from Chambers Treated with [**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 2                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 4                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 2                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 4                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 6                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 9                | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 12               | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (12.5  $\mu\text{g/L}$  of headspace)

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/L}$ )  
in Headspace Gases from Chambers Treated with [**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 2                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 4                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 2                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 4                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 6                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 9                | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 12               | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (12.5  $\mu\text{g/L}$  of headspace)

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of 8-2 FTOH (µg/L)  
in Headspace Gases from Chambers Treated with [ ]**

| Soil Type  | Sample Interval | Aerobic |         | Anaerobic |         |
|------------|-----------------|---------|---------|-----------|---------|
|            |                 | Live    | Sterile | Live      | Sterile |
| Incentisol | Day 0           | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            |                 | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            | Week 1          | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            |                 | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            | Week 2          | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            |                 | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            | Week 4          | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            |                 | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            | Month 2         | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            |                 | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            | Month 4         | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            |                 | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            | Month 6         | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            |                 | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|            | Month 9         | <LOQ    | <LOQ    |           |         |
|            |                 | <LOQ    | <LOQ    |           |         |
|            | Month 12        | <LOQ    | <LOQ    |           |         |
|            |                 | <LOQ    | <LOQ    |           |         |
|            | Month 15        | <LOQ    |         |           |         |
|            |                 | <LOQ    |         |           |         |
|            | Month 18        | <LOQ    |         |           |         |
|            |                 | <LOQ    |         |           |         |
|            | Month 24        | <LOQ    |         |           |         |
|            |                 | <LOQ    |         |           |         |

LOQ = limit of quantitation (12.5 µg/L of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Number 112E-108

Measured Concentrations of 7-2 s FTOH ( $\mu\text{g/kg}$ )  
in Soils Treated with [ ]

| Soil Type | Sample Interval | Aerobic |         | Anaerobic |         |
|-----------|-----------------|---------|---------|-----------|---------|
|           |                 | Live    | Sterile | Live      | Sterile |
| Ultisol   | Day 0           | <LOQ    |         |           |         |
|           |                 | <LOQ    |         |           |         |
|           | Month 2         | <LOQ    |         |           |         |
|           |                 | <LOQ    |         |           |         |
|           | Month 6         | <LOQ    |         |           |         |
|           |                 | 133.0   |         |           |         |
|           | Month 9         | 166.1   |         |           |         |
|           |                 | <LOQ    |         |           |         |
|           | Month 12        | <LOQ    |         |           |         |
|           |                 | <LOQ    |         |           |         |
|           | Month 15        | <LOQ    |         |           |         |
|           |                 | 115.6   |         |           |         |
|           | Month 18        | <LOQ    |         |           |         |
|           |                 | <LOQ    |         |           |         |
|           | Month 24        | <LOQ    |         |           |         |
|           |                 | <LOQ    |         |           |         |

LOQ = limit of quantitation (100  $\mu\text{g/kg}$ )

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH (µg/kg)  
in Soils Treated with(      )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 6                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 9                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 12               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (100 µg/kg)

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH ( $\mu\text{g/kg}$ )  
in Soils Treated with C }**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 6                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 9                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 12               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (100  $\mu\text{g/kg}$ )

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH ( $\mu\text{g/kg}$ )  
in Soils Treated with (      )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 6                | 278.3          |                |                  |                |
|                  |                        | 278.3          |                |                  |                |
|                  | Month 9                | 192.8          |                |                  |                |
|                  |                        | 464.2          |                |                  |                |
|                  | Month 12               | 193.0          |                |                  |                |
|                  |                        | 118.9          |                |                  |                |
|                  | Month 15               | 173.2          |                |                  |                |
|                  |                        | 182.2          |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (100  $\mu\text{g/kg}$ )

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ( $\mu\text{g/kg}$ )  
in Soils Treated with (      )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | 6.6            |                |                  |                |
|                  |                        | 9.1            |                |                  |                |
|                  | Month 6                | 16.3           |                |                  |                |
|                  |                        | 21.4           |                |                  |                |
|                  | Month 9                | 31.3           |                |                  |                |
|                  |                        | 28.7           |                |                  |                |
|                  | Month 12               | 41.7           |                |                  |                |
|                  |                        | 33.4           |                |                  |                |
|                  | Month 15               | 34.1           |                |                  |                |
|                  |                        | 40.1           |                |                  |                |
|                  | Month 18               | 27.8           |                |                  |                |
|                  |                        | 17.0           |                |                  |                |
|                  | Month 24               | 54.3           |                |                  |                |
|                  |                        | 56.2           |                |                  |                |

LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ( $\mu\text{g}/\text{kg}$ )  
in Soils Treated with [                      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 6                | 2.4            |                |                  |                |
|                  |                        | 2.7            |                |                  |                |
|                  | Month 9                | 2.7            |                |                  |                |
|                  |                        | 2.9            |                |                  |                |
|                  | Month 12               | 5.0            |                |                  |                |
|                  |                        | 4.8            |                |                  |                |
|                  | Month 15               | 6.6            |                |                  |                |
|                  |                        | 9.0            |                |                  |                |
|                  | Month 18               | 3.5            |                |                  |                |
|                  |                        | 3.4            |                |                  |                |
|                  | Month 24               | 8.9            |                |                  |                |
|                  |                        | 6.6            |                |                  |                |

LOQ = limit of quantitation (2.0  $\mu\text{g}/\text{kg}$ )

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ( $\mu\text{g/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 6                | 3.2            |                |                  |                |
|                  |                        | 2.5            |                |                  |                |
|                  | Month 9                | 3.2            |                |                  |                |
|                  |                        | 2.5            |                |                  |                |
|                  | Month 12               | 4.9            |                |                  |                |
|                  |                        | 6.1            |                |                  |                |
|                  | Month 15               | 7.6            |                |                  |                |
|                  |                        | 8.9            |                |                  |                |
|                  | Month 18               | 8.1            |                |                  |                |
|                  |                        | 6.4            |                |                  |                |
|                  | Month 24               | 6.6            |                |                  |                |
|                  |                        | 7.3            |                |                  |                |

LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ( $\mu\text{g/kg}$ )  
in Soils Treated with(      )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Inceptisol       | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | 16.7           |                |                  |                |
|                  |                        | 9.6            |                |                  |                |
|                  | Month 6                | 67.7           |                |                  |                |
|                  |                        | 81.6           |                |                  |                |
|                  | Month 9                | 128.3          |                |                  |                |
|                  |                        | 153.2          |                |                  |                |
|                  | Month 12               | 277.0          |                |                  |                |
|                  |                        | 246.2          |                |                  |                |
|                  | Month 15               | 260.7          |                |                  |                |
|                  |                        | 289.7          |                |                  |                |
|                  | Month 18               | 282.3          |                |                  |                |
|                  |                        | 212.2          |                |                  |                |
|                  | Month 24               | 355.2          |                |                  |                |
|                  |                        | 321.9          |                |                  |                |

LOQ = limit of quantitation ( $2.0 \mu\text{g/kg}$ )

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |                  |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              | <i>Anaerobic</i> |
| Ultisol          | Day 0                  | <LOQ                      | <LOQ             |                             | 9.5 95%          |
|                  |                        | <LOQ                      | <LOQ             |                             | 9.2 92%          |
|                  | Week 1                 | <LOQ                      | <LOQ             | 9.5 95%                     | 10.5 105%        |
|                  |                        | <LOQ                      | <LOQ             | 7.8 78%                     | 11.3 113%        |
|                  | Week 2                 | <LOQ                      | <LOQ             | 8.6 86%                     | 9.2 92%          |
|                  |                        | <LOQ                      | <LOQ             | 9.1 91%                     | 9.8 98%          |
|                  | Week 4                 | <LOQ                      | <LOQ             | 9.2 92%                     | 9.3 93%          |
|                  |                        | <LOQ                      | <LOQ             | 9.2 92%                     | 9.0 90%          |
|                  | Month 2                | <LOQ                      | <LOQ             | 10.4 104%                   | 11.4 114%        |
|                  |                        | <LOQ                      | <LOQ             | 10.3 103%                   | 10.8 108%        |
|                  | Month 4                | <LOQ                      | <LOQ             | 12.0 120%                   | 11.4 114%        |
|                  |                        | <LOQ                      | <LOQ             | 11.4 114%                   | 11.3 113%        |
|                  | Month 6                | <LOQ                      | <LOQ             | 10.6 106%                   | 11.2 112%        |
|                  |                        | <LOQ                      | <LOQ             | 10.4 104%                   | 11.5 115%        |
|                  | Month 9                | <LOQ                      |                  | 9.2 92%                     |                  |
|                  |                        | <LOQ                      |                  | 10.0 100%                   |                  |
|                  | Month 12               | <LOQ                      |                  | 7.4 74%                     |                  |
|                  |                        | <LOQ                      |                  | 6.8 68%                     |                  |
|                  | Month 15               | <LOQ                      |                  |                             |                  |
|                  | Month 18               | <LOQ                      |                  |                             |                  |
|                  | Month 24               | <LOQ                      |                  |                             |                  |

LOD = limit of detection (0.206  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| Soil Type | Sample Interval | Untreated Controls |           | Fortified Recoveries |      |           |      |
|-----------|-----------------|--------------------|-----------|----------------------|------|-----------|------|
|           |                 | Aerobic            | Anaerobic | Aerobic              |      | Anaerobic |      |
| Mollisol  | Day 0           | <LOD               | <LOD      | 8.9                  | 89%  | 9.3       | 93%  |
|           |                 | <LOD               | <LOD      | 9.3                  | 93%  | 10.1      | 101% |
|           | Week 1          | <LOD               | <LOD      | 9.7                  | 97%  | 8.5       | 85%  |
|           |                 | <LOD               | <LOQ      | 10.0                 | 100% | 9.6       | 96%  |
|           | Week 2          | <LOD               | <LOD      | 8.8                  | 88%  | 8.5       | 85%  |
|           |                 | <LOD               | <LOD      | 9.4                  | 94%  | 8.9       | 89%  |
|           | Week 4          | <LOQ               | <LOD      | 9.1                  | 91%  | 9.5       | 95%  |
|           |                 | <LOQ               | <LOD      | 9.0                  | 90%  | 9.9       | 99%  |
|           | Month 2         | <LOD               | <LOD      | 10.7                 | 107% | 12.2      | 122% |
|           |                 | <LOD               | <LOD      | 11.2                 | 112% | 10.9      | 109% |
|           | Month 4         | <LOQ               | <LOD      | 13.2                 | 132% | 14.0      | 140% |
|           |                 | <LOD               | <LOD      | 12.1                 | 121% | 13.9      | 139% |
|           | Month 6         | <LOQ               | <LOD      | 13.1                 | 131% | 14.5      | 145% |
|           |                 | <LOQ               | <LOD      | 12.0                 | 120% | 14.3      | 143% |
|           | Month 9         | <LOQ               |           | 11.4                 | 114% |           |      |
|           |                 | <LOD               |           | 11.6                 | 116% |           |      |
|           | Month 12        | <LOD               |           | 9.2                  | 92%  |           |      |
|           |                 | <LOD               |           | 10.4                 | 104% |           |      |
|           | Month 15        | <LOD               |           |                      |      |           |      |
|           | Month 18        | <LOD               |           |                      |      |           |      |
|           | Month 24        | <LOQ               |           |                      |      |           |      |

LOD = limit of detection (0.206  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 9.2                         | 92%  | 9.2              | 92%  |
|                  |                        | <LOD                      | <LOD             | 8.3                         | 83%  | 8.2              | 82%  |
|                  | Week 1                 | <LOD                      | <LOD             | 8.9                         | 89%  | 8.7              | 87%  |
|                  |                        | <LOD                      | <LOD             | 10.0                        | 100% | 9.3              | 93%  |
|                  | Week 2                 | <LOD                      | <LOD             | 9.9                         | 99%  | 9.6              | 96%  |
|                  |                        | <LOD                      | <LOD             | 9.4                         | 94%  | 10.0             | 100% |
|                  | Week 4                 | <LOD                      | <LOD             | 10.0                        | 100% | 10.6             | 106% |
|                  |                        | <LOD                      | <LOD             | 10.1                        | 101% | 10.4             | 104% |
|                  | Month 2                | <LOD                      | <LOD             | 11.0                        | 110% | 10.4             | 104% |
|                  |                        | <LOD                      | <LOD             | 10.7                        | 107% | 10.7             | 107% |
|                  | Month 4                | <LOQ                      | <LOD             | 10.8                        | 108% | 11.1             | 111% |
|                  |                        | <LOQ                      | <LOD             | 11.5                        | 115% | 10.9             | 109% |
|                  | Month 6                | <LOD                      | <LOD             | 11.0                        | 110% | 10.5             | 105% |
|                  |                        | <LOD                      | <LOD             | 11.1                        | 111% | 11.2             | 112% |
|                  | Month 9                | <LOD                      |                  | 11.5                        | 115% |                  |      |
|                  |                        | <LOD                      |                  | 12.5                        | 125% |                  |      |
|                  | Month 12               | <LOD                      |                  | 9.2                         | 92%  |                  |      |
|                  |                        | <LOD                      |                  | 9.3                         | 93%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.206  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Incentisol       | Day 0                  | <LOQ                      | <LOQ             | 10.4                        | 104% | 9.7              | 97%  |
|                  |                        | <LOQ                      | <LOQ             | 10.5                        | 105% | 9.4              | 94%  |
|                  | Week 1                 | <LOQ                      | <LOQ             | 12.9                        | 129% | 10.9             | 109% |
|                  |                        | <LOQ                      | <LOQ             | 10.1                        | 101% | 9.8              | 98%  |
|                  | Week 2                 | <LOQ                      | <LOQ             | 10.6                        | 106% | 10.8             | 108% |
|                  |                        | <LOQ                      | <LOQ             | 10.9                        | 109% | 10.5             | 105% |
|                  | Week 4                 | <LOQ                      | <LOQ             | 12.4                        | 124% | 10.7             | 107% |
|                  |                        | <LOQ                      | <LOQ             | 11.2                        | 112% | 10.9             | 109% |
|                  | Month 2                | <LOQ                      | <LOQ             | 11.3                        | 113% | 11.9             | 119% |
|                  |                        | <LOQ                      | <LOQ             | 11.7                        | 117% | 11.1             | 111% |
|                  | Month 4                | <LOQ                      | <LOQ             | 13.4                        | 134% | 10.6             | 106% |
|                  |                        | <LOQ                      | <LOQ             | 10.8                        | 108% | 11.5             | 115% |
|                  | Month 6                | <LOQ                      | <LOQ             | 12.1                        | 121% | 11.3             | 113% |
|                  |                        | <LOQ                      | <LOQ             | 10.6                        | 106% | 11.6             | 116% |
|                  | Month 9                | <LOQ                      |                  | 14.5                        | 145% |                  |      |
|                  |                        | <LOQ                      |                  | 12.4                        | 124% |                  |      |
|                  | Month 12               | <LOQ                      |                  | 9.6                         | 96%  |                  |      |
|                  |                        | <LOQ                      |                  | 9.6                         | 96%  |                  |      |
|                  | Month 15               | <LOQ                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOQ                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOQ                      |                  |                             |      |                  |      |

LOD = limit of detection (0.206  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |                  |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              | <i>Anaerobic</i> |
| Ultisol          | Day 0                  | <LOQ                      | <LOD             |                             | 8.0 80%          |
|                  |                        | <LOD                      | <LOD             |                             | 7.4 74%          |
|                  | Week 1                 | <LOD                      | <LOD             | 7.2 72%                     | 7.7 77%          |
|                  |                        | <LOD                      | <LOD             | 6.5 65%                     | 8.7 87%          |
|                  | Week 2                 | <LOD                      | <LOD             | 7.7 77%                     | 8.4 84%          |
|                  |                        | <LOD                      | <LOD             | 7.9 79%                     | 8.2 82%          |
|                  | Week 4                 | <LOD                      | <LOD             | 6.9 69%                     | 8.2 82%          |
|                  |                        | <LOD                      | <LOD             | 6.9 69%                     | 7.9 79%          |
|                  | Month 2                | <LOD                      | <LOD             | 7.2 72%                     | 9.3 93%          |
|                  |                        | <LOD                      | <LOD             | 7.2 72%                     | 7.6 76%          |
|                  | Month 4                | <LOD                      | <LOD             | 8.9 89%                     | 8.2 82%          |
|                  |                        | <LOD                      | <LOD             | 8.0 80%                     | 8.0 80%          |
|                  | Month 6                | <LOD                      | <LOD             | 6.5 65%                     | 6.5 65%          |
|                  |                        | <LOD                      | <LOD             | 7.3 73%                     | 7.0 70%          |
|                  | Month 9                | <LOD                      |                  | 2.9 29%                     |                  |
|                  |                        | <LOD                      |                  | 5.4 54%                     |                  |
|                  | Month 12               | <LOD                      |                  | 5.1 51%                     |                  |
|                  |                        | <LOD                      |                  | 4.0 40%                     |                  |
|                  | Month 15               | <LOD                      |                  |                             |                  |
|                  | Month 18               | <LOD                      |                  |                             |                  |
|                  | Month 24               | <LOD                      |                  |                             |                  |

LOD = limit of detection (0.119  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| Soil Type | Sample Interval | Untreated Controls |           | Fortified Recoveries |      |           |      |
|-----------|-----------------|--------------------|-----------|----------------------|------|-----------|------|
|           |                 | Aerobic            | Anaerobic | Aerobic              |      | Anaerobic |      |
| Mollisol  | Day 0           | <LOD               | <LOD      | 9.2                  | 92%  | 7.3       | 73%  |
|           |                 | <LOD               | <LOD      | 9.0                  | 90%  | 8.8       | 88%  |
|           | Week 1          | <LOD               | <LOQ      | 8.1                  | 81%  | 7.7       | 77%  |
|           |                 | <LOD               | <LOD      | 8.5                  | 85%  | 8.7       | 87%  |
|           | Week 2          | <LOD               | <LOD      | 9.1                  | 91%  | 7.7       | 77%  |
|           |                 | <LOD               | <LOD      | 9.5                  | 95%  | 9.8       | 98%  |
|           | Week 4          | <LOD               | <LOD      | 9.0                  | 90%  | 8.0       | 80%  |
|           |                 | <LOD               | <LOD      | 9.1                  | 91%  | 8.0       | 80%  |
|           | Month 2         | <LOD               | <LOD      | 8.8                  | 88%  | 9.7       | 97%  |
|           |                 | <LOD               | <LOD      | 8.7                  | 87%  | 7.8       | 78%  |
|           | Month 4         | <LOD               | <LOD      | 10.0                 | 100% | 9.9       | 99%  |
|           |                 | <LOD               | <LOD      | 9.4                  | 94%  | 10.7      | 107% |
|           | Month 6         | <LOD               | <LOD      | 10.2                 | 102% | 10.0      | 100% |
|           |                 | <LOD               | <LOD      | 8.2                  | 82%  | 8.5       | 85%  |
|           | Month 9         | <LOD               |           | 7.8                  | 78%  |           |      |
|           |                 | <LOD               |           | 9.0                  | 90%  |           |      |
|           | Month 12        | <LOD               |           | 5.9                  | 59%  |           |      |
|           |                 | <LOD               |           | 6.3                  | 63%  |           |      |
|           | Month 15        | <LOD               |           |                      |      |           |      |
|           | Month 18        | <LOD               |           |                      |      |           |      |
|           | Month 24        | <LOD               |           |                      |      |           |      |

LOD = limit of detection (0.119  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ( $\mu\text{g}/\text{kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 8.4                         | 84%  | 8.9              | 89%  |
|                  |                        | <LOD                      | <LOD             | 7.7                         | 77%  | 7.5              | 75%  |
|                  | Week 1                 | <LOD                      | <LOD             | 8.6                         | 86%  | 9.3              | 93%  |
|                  |                        | <LOD                      | <LOD             | 9.8                         | 98%  | 9.5              | 95%  |
|                  | Week 2                 | <LOD                      | <LOD             | 10.5                        | 105% | 9.2              | 92%  |
|                  |                        | <LOD                      | <LOD             | 7.6                         | 76%  | 8.9              | 89%  |
|                  | Week 4                 | <LOD                      | <LOD             | 7.5                         | 75%  | 8.6              | 86%  |
|                  |                        | <LOD                      | <LOD             | 9.2                         | 92%  | 9.4              | 94%  |
|                  | Month 2                | <LOD                      | <LOD             | 9.6                         | 96%  | 10.9             | 109% |
|                  |                        | <LOD                      | <LOD             | 9.1                         | 91%  | 10.8             | 108% |
|                  | Month 4                | <LOD                      | <LOD             | 6.6                         | 66%  | 8.1              | 81%  |
|                  |                        | <LOD                      | <LOD             | 9.0                         | 90%  | 8.3              | 83%  |
|                  | Month 6                | <LOD                      | <LOD             | 8.4                         | 84%  | 10.3             | 103% |
|                  |                        | <LOD                      | <LOD             | 9.0                         | 90%  | 8.3              | 83%  |
|                  | Month 9                | <LOD                      |                  | 8.0                         | 80%  |                  |      |
|                  |                        | <LOD                      |                  | 11.1                        | 111% |                  |      |
|                  | Month 12               | <LOD                      |                  | 6.2                         | 62%  |                  |      |
|                  |                        | <LOD                      |                  | 6.7                         | 67%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.119  $\mu\text{g}/\text{kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g}/\text{kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |     |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|-----|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |     |
| Incentisol       | Day 0                  | <LOD                      | <LOD             | 11.0                        | 110% | 7.9              | 79% |
|                  |                        | <LOD                      | <LOD             | 9.6                         | 96%  | 8.1              | 81% |
|                  | Week 1                 | <LOD                      | <LOD             | 10.8                        | 108% | 8.3              | 83% |
|                  |                        | <LOD                      | <LOD             | 8.3                         | 83%  | 7.5              | 75% |
|                  | Week 2                 | <LOD                      | <LOD             | 8.8                         | 88%  | 8.5              | 85% |
|                  |                        | <LOD                      | <LOD             | 9.7                         | 97%  | 7.8              | 78% |
|                  | Week 4                 | <LOD                      | <LOD             | 9.4                         | 94%  | 7.7              | 77% |
|                  |                        | <LOD                      | <LOD             | 7.9                         | 79%  | 8.2              | 82% |
|                  | Month 2                | <LOD                      | <LOD             | 8.0                         | 80%  | 7.6              | 76% |
|                  |                        | <LOD                      | <LOD             | 8.9                         | 89%  | 8.8              | 88% |
|                  | Month 4                | <LOD                      | <LOD             | 10.1                        | 101% | 6.6              | 66% |
|                  |                        | <LOD                      | <LOD             | 8.1                         | 81%  | 7.0              | 70% |
|                  | Month 6                | <LOD                      | <LOD             | 7.0                         | 70%  | 6.1              | 61% |
|                  |                        | <LOD                      | <LOD             | 6.8                         | 68%  | 7.1              | 71% |
|                  | Month 9                | <LOD                      |                  | 7.4                         | 74%  |                  |     |
|                  |                        | <LOD                      |                  | 6.4                         | 64%  |                  |     |
|                  | Month 12               | <LOD                      |                  | 5.3                         | 53%  |                  |     |
|                  |                        | <LOD                      |                  | 5.2                         | 52%  |                  |     |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |     |

LOD = limit of detection (0.119  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108, 109, 110

**Measured Concentrations of 8-2 FTA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |                  |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              | <i>Anaerobic</i> |
| Ultisol          | Day 0                  | <LOD                      | <LOD             |                             | 6.7 67%          |
|                  |                        | <LOD                      | <LOD             |                             | 6.6 66%          |
|                  | Week 1                 | <LOD                      | <LOD             | 6.1 61%                     | 7.0 70%          |
|                  |                        | <LOD                      | <LOD             | 5.8 58%                     | 6.9 69%          |
|                  | Week 2                 | <LOD                      | <LOD             | 6.2 62%                     | 6.1 61%          |
|                  |                        | <LOD                      | <LOD             | 6.9 69%                     | 6.5 65%          |
|                  | Week 4                 | <LOD                      | <LOD             | 5.4 54%                     | 5.3 53%          |
|                  |                        | <LOD                      | <LOD             | 5.5 55%                     | 6.3 63%          |
|                  | Month 2                | <LOD                      | <LOD             | 5.4 54%                     | 7.2 72%          |
|                  |                        | <LOD                      | <LOD             | 5.3 53%                     | 5.1 51%          |
|                  | Month 4                | <LOD                      | <LOD             | 3.3 33%                     | 4.8 48%          |
|                  |                        | <LOD                      | <LOD             | 2.4 24%                     | 4.6 46%          |
|                  | Month 6                | <LOD                      | <LOD             | 3.4 34%                     | 3.5 35%          |
|                  |                        | <LOD                      | <LOD             | 3.7 37%                     | 3.2 32%          |
|                  | Month 9                | <LOD                      |                  | (1.4)                       |                  |
|                  |                        | <LOD                      |                  | (1.4)                       |                  |
|                  | Month 12               | <LOQ                      |                  | 4.1 41%                     |                  |
|                  |                        | <LOQ                      |                  | (1.7)                       |                  |
|                  | Month 15               | <LOD                      |                  |                             |                  |
|                  | Month 18               | <LOD                      |                  |                             |                  |
|                  | Month 24               | <LOD                      |                  |                             |                  |

LOD = limit of detection (0.503  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )Values in parentheses are <LOQ and  $\geq$  LOD

Company Sanitized. Does not contain TSCA CBI.

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| Soil Type | Sample Interval | Untreated Controls |           | Fortified Recoveries |     |           |     |
|-----------|-----------------|--------------------|-----------|----------------------|-----|-----------|-----|
|           |                 | Aerobic            | Anaerobic | Aerobic              |     | Anaerobic |     |
| Mollisol  | Day 0           | <LOD               | <LOD      | 8.7                  | 87% | 7.0       | 70% |
|           |                 | <LOD               | <LOD      | 9.0                  | 90% | 8.7       | 87% |
|           | Week 1          | 2.7                | <LOD      | 8.4                  | 84% | 7.1       | 71% |
|           |                 | <LOD               | <LOD      | 9.0                  | 90% | 7.6       | 76% |
|           | Week 2          | <LOD               | <LOD      | 9.0                  | 90% | 6.4       | 64% |
|           |                 | <LOD               | <LOD      | 8.8                  | 88% | 8.3       | 83% |
|           | Week 4          | <LOQ               | <LOD      | 8.3                  | 83% | 6.3       | 63% |
|           |                 | <LOD               | <LOD      | 8.1                  | 81% | 7.0       | 70% |
|           | Month 2         | <LOD               | <LOD      | 7.8                  | 78% | 8.0       | 80% |
|           |                 | <LOD               | <LOD      | 7.9                  | 79% | 7.1       | 71% |
|           | Month 4         | <LOD               | <LOD      | 8.4                  | 84% | 5.8       | 58% |
|           |                 | <LOD               | <LOD      | 6.9                  | 69% | 6.5       | 65% |
|           | Month 6         | <LOD               | <LOD      | 6.4                  | 64% | 5.7       | 57% |
|           |                 | <LOD               | <LOD      | 6.2                  | 62% | 5.2       | 52% |
|           | Month 9         | <LOD               |           | 5.0                  | 50% |           |     |
|           |                 | <LOD               |           | 6.2                  | 62% |           |     |
|           | Month 12        | <LOD               |           | 2.3                  | 23% |           |     |
|           |                 | <LOQ               |           | (1.7)                |     |           |     |
|           | Month 15        | <LOD               |           |                      |     |           |     |
|           | Month 18        | <LOD               |           |                      |     |           |     |
|           | Month 24        | <LOD               |           |                      |     |           |     |

LOD = limit of detection (0.503  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )Values in parentheses are <LOQ and  $\geq$  LOD

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |     |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|-----|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |     |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 7.8                         | 78%  | 8.8              | 88% |
|                  |                        | <LOD                      | <LOD             | 7.9                         | 79%  | 6.7              | 67% |
|                  | Week 1                 | <LOD                      | <LOD             | 7.8                         | 78%  | 8.5              | 85% |
|                  |                        | <LOD                      | <LOD             | 8.4                         | 84%  | 8.4              | 84% |
|                  | Week 2                 | <LOD                      | <LOD             | 10.6                        | 106% | 8.4              | 84% |
|                  |                        | <LOD                      | <LOD             | 8.7                         | 87%  | 8.1              | 81% |
|                  | Week 4                 | <LOD                      | <LOD             | 6.8                         | 68%  | 7.7              | 77% |
|                  |                        | <LOD                      | <LOD             | 8.4                         | 84%  | 8.3              | 83% |
|                  | Month 2                | <LOD                      | <LOD             | 7.5                         | 75%  | 8.8              | 88% |
|                  |                        | <LOD                      | <LOD             | 7.0                         | 70%  | 8.3              | 83% |
|                  | Month 4                | <LOD                      | <LOD             | 4.2                         | 42%  | 6.7              | 67% |
|                  |                        | <LOD                      | <LOD             | 6.7                         | 67%  | 6.6              | 66% |
|                  | Month 6                | <LOD                      | <LOQ             | 6.0                         | 60%  | 7.3              | 73% |
|                  |                        | <LOD                      | <LOQ             | 6.6                         | 66%  | 7.0              | 70% |
|                  | Month 9                | <LOD                      |                  | 5.1                         | 51%  |                  |     |
|                  |                        | <LOD                      |                  | 7.7                         | 77%  |                  |     |
|                  | Month 12               | <LOD                      |                  | 4.0                         | 40%  |                  |     |
|                  |                        | <LOD                      |                  | 3.7                         | 37%  |                  |     |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 24               | <LOQ                      |                  |                             |      |                  |     |

LOD = limit of detection (0.503  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Values in parentheses are &lt;LOQ and &gt;=LOD

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |     |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|-----|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |     |
| Incentisol       | Day 0                  | <LOD                      | <LOD             | 10.7                        | 107% | 7.8              | 78% |
|                  |                        | <LOD                      | <LOD             | 9.6                         | 96%  | 7.2              | 72% |
|                  | Week 1                 | <LOD                      | <LOD             | 9.8                         | 98%  | 7.0              | 70% |
|                  |                        | <LOD                      | <LOD             | 7.6                         | 76%  | 6.7              | 67% |
|                  | Week 2                 | <LOD                      | <LOD             | 7.0                         | 70%  | 7.2              | 72% |
|                  |                        | <LOD                      | <LOD             | 8.4                         | 84%  | 7.6              | 76% |
|                  | Week 4                 | <LOQ                      | <LOD             | 7.1                         | 71%  | 5.9              | 59% |
|                  |                        | <LOD                      | <LOD             | 6.3                         | 63%  | 6.6              | 66% |
|                  | Month 2                | <LOD                      | <LOD             | 5.5                         | 55%  | 4.8              | 48% |
|                  |                        | <LOD                      | <LOD             | 5.8                         | 58%  | 6.3              | 63% |
|                  | Month 4                | <LOD                      | <LOD             | 5.3                         | 53%  | 3.6              | 36% |
|                  |                        | <LOD                      | <LOD             | 4.5                         | 45%  | 3.4              | 34% |
|                  | Month 6                | <LOD                      | <LOD             | 4.3                         | 43%  | 2.6              | 26% |
|                  |                        | <LOD                      | <LOD             | 3.7                         | 37%  | 3.5              | 35% |
|                  | Month 9                | <LOQ                      |                  | 3.4                         | 34%  |                  |     |
|                  |                        | <LOQ                      |                  | 3.4                         | 34%  |                  |     |
|                  | Month 12               | <LOQ                      |                  | 2.1                         | 21%  |                  |     |
|                  |                        | <LOD                      |                  | (1.8)                       |      |                  |     |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 24               | <LOQ                      |                  |                             |      |                  |     |

LOD = limit of detection (0.503  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )Values in parentheses are <LOQ and  $\geq$ LOD

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |                  |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              | <i>Anaerobic</i> |
| Ultisol          | Day 0                  | <LOQ                      | <LOQ             |                             | 10.0 100%        |
|                  |                        | <LOQ                      | <LOQ             |                             | 9.9 99%          |
|                  | Week 1                 | <LOQ                      | <LOQ             | 9.4 94%                     | 9.9 99%          |
|                  |                        | <LOQ                      | <LOQ             | 7.8 78%                     | 10.7 107%        |
|                  | Week 2                 | <LOQ                      | <LOQ             | 9.7 97%                     | 9.7 97%          |
|                  |                        | <LOQ                      | <LOQ             | 9.8 98%                     | 10.3 103%        |
|                  | Week 4                 | <LOQ                      | <LOQ             | 9.5 95%                     | 10.3 103%        |
|                  |                        | <LOQ                      | <LOQ             | 9.8 98%                     | 9.6 96%          |
|                  | Month 2                | <LOQ                      | <LOQ             | 10.4 104%                   | 11.2 112%        |
|                  |                        | <LOQ                      | <LOQ             | 10.1 101%                   | 11.0 110%        |
|                  | Month 4                | <LOQ                      | <LOQ             | 11.4 114%                   | 11.6 116%        |
|                  |                        | <LOQ                      | <LOQ             | 11.4 114%                   | 11.7 117%        |
|                  | Month 6                | <LOQ                      | <LOQ             | 10.3 103%                   | 10.8 108%        |
|                  |                        | <LOQ                      | <LOQ             | 10.6 106%                   | 11.6 116%        |
|                  | Month 9                | <LOQ                      |                  | 7.0 70%                     |                  |
|                  |                        | <LOQ                      |                  | 10.3 103%                   |                  |
|                  | Month 12               | <LOQ                      |                  | 7.9 79%                     |                  |
|                  |                        | <LOQ                      |                  | 6.7 67%                     |                  |
|                  | Month 15               | <LOQ                      |                  |                             |                  |
|                  | Month 18               | <LOQ                      |                  |                             |                  |
|                  | Month 24               | <LOQ                      |                  |                             |                  |

LOD = limit of detection (0.124  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| Soil Type | Sample Interval | Untreated Controls |           | Fortified Recoveries |      |           |      |
|-----------|-----------------|--------------------|-----------|----------------------|------|-----------|------|
|           |                 | Aerobic            | Anaerobic | Aerobic              |      | Anaerobic |      |
| Mollisol  | Day 0           | <LOD               | <LOD      | 9.4                  | 94%  | 9.6       | 96%  |
|           |                 | <LOD               | <LOD      | 9.6                  | 96%  | 10.1      | 101% |
|           | Week 1          | <LOD               | <LOQ      | 9.7                  | 97%  | 8.9       | 89%  |
|           |                 | <LOD               | <LOD      | 9.7                  | 97%  | 9.8       | 98%  |
|           | Week 2          | <LOD               | <LOD      | 9.5                  | 95%  | 9.6       | 96%  |
|           |                 | <LOD               | <LOD      | 9.9                  | 99%  | 9.9       | 99%  |
|           | Week 4          | <LOD               | <LOD      | 10.2                 | 102% | 9.3       | 93%  |
|           |                 | <LOQ               | <LOD      | 8.6                  | 86%  | 9.8       | 98%  |
|           | Month 2         | <LOD               | <LOD      | 10.7                 | 107% | 10.7      | 107% |
|           |                 | <LOD               | <LOD      | 10.6                 | 106% | 10.1      | 101% |
|           | Month 4         | <LOD               | <LOD      | 12.2                 | 122% | 11.6      | 116% |
|           |                 | <LOD               | <LOD      | 11.9                 | 119% | 12.8      | 128% |
|           | Month 6         | <LOD               | <LOD      | 12.0                 | 120% | 12.2      | 122% |
|           |                 | <LOD               | <LOD      | 11.7                 | 117% | 11.9      | 119% |
|           | Month 9         | <LOQ               |           | 10.0                 | 100% |           |      |
|           |                 | <LOQ               |           | 11.2                 | 112% |           |      |
|           | Month 12        | <LOD               |           | 8.1                  | 81%  |           |      |
|           |                 | <LOD               |           | 8.3                  | 83%  |           |      |
|           | Month 15        | <LOD               |           |                      |      |           |      |
|           | Month 18        | <LOD               |           |                      |      |           |      |
|           | Month 24        | <LOD               |           |                      |      |           |      |

LOD = limit of detection (0.124  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 9.8                         | 98%  | 9.7              | 97%  |
|                  |                        | <LOD                      | <LOD             | 9.3                         | 93%  | 8.1              | 81%  |
|                  | Week 1                 | <LOD                      | <LOD             | 9.4                         | 94%  | 9.4              | 94%  |
|                  |                        | <LOD                      | <LOD             | 11.2                        | 112% | 10.1             | 101% |
|                  | Week 2                 | <LOD                      | <LOD             | 10.3                        | 103% | 9.8              | 98%  |
|                  |                        | <LOD                      | <LOD             | 9.1                         | 91%  | 10.1             | 101% |
|                  | Week 4                 | <LOD                      | <LOD             | 10.3                        | 103% | 10.3             | 103% |
|                  |                        | <LOD                      | <LOD             | 10.7                        | 107% | 10.0             | 100% |
|                  | Month 2                | <LOD                      | <LOD             | 11.3                        | 113% | 11.0             | 110% |
|                  |                        | <LOD                      | <LOD             | 11.0                        | 110% | 11.0             | 110% |
|                  | Month 4                | <LOD                      | <LOD             | 10.0                        | 100% | 10.7             | 107% |
|                  |                        | <LOD                      | <LOD             | 11.4                        | 114% | 10.7             | 107% |
|                  | Month 6                | <LOQ                      | <LOQ             | 10.8                        | 108% | 11.5             | 115% |
|                  |                        | <LOQ                      | <LOQ             | 11.4                        | 114% | 10.2             | 102% |
|                  | Month 9                | <LOQ                      |                  | 11.3                        | 113% |                  |      |
|                  |                        | <LOQ                      |                  | 12.3                        | 123% |                  |      |
|                  | Month 12               | <LOQ                      |                  | 8.7                         | 87%  |                  |      |
|                  |                        | <LOQ                      |                  | 8.6                         | 86%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.124  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Incentisol       | Day 0                  | <LOQ                      | <LOD             | 12.4                        | 124% | 10.2             | 102% |
|                  |                        | <LOQ                      | <LOD             | 11.6                        | 116% | 10.0             | 100% |
|                  | Week 1                 | <LOD                      | <LOD             | 13.0                        | 130% | 10.8             | 108% |
|                  |                        | <LOD                      | <LOD             | 10.6                        | 106% | 9.8              | 98%  |
|                  | Week 2                 | <LOQ                      | <LOQ             | 10.7                        | 107% | 10.3             | 103% |
|                  |                        | <LOQ                      | <LOQ             | 10.7                        | 107% | 10.2             | 102% |
|                  | Week 4                 | <LOQ                      | <LOQ             | 12.5                        | 125% | 10.1             | 101% |
|                  |                        | <LOD                      | <LOQ             | 10.7                        | 107% | 10.7             | 107% |
|                  | Month 2                | <LOQ                      | <LOQ             | 11.2                        | 112% | 11.1             | 111% |
|                  |                        | <LOD                      | <LOD             | 11.9                        | 119% | 11.1             | 111% |
|                  | Month 4                | <LOQ                      | <LOQ             | 14.0                        | 140% | 11.0             | 110% |
|                  |                        | <LOQ                      | <LOQ             | 10.5                        | 105% | 10.8             | 108% |
|                  | Month 6                | <LOQ                      | <LOQ             | 10.4                        | 104% | 10.1             | 101% |
|                  |                        | <LOQ                      | <LOQ             | 10.0                        | 100% | 10.8             | 108% |
|                  | Month 9                | <LOQ                      |                  | 13.0                        | 130% |                  |      |
|                  |                        | <LOQ                      |                  | 10.9                        | 109% |                  |      |
|                  | Month 12               | <LOQ                      |                  | 8.9                         | 89%  |                  |      |
|                  |                        | <LOQ                      |                  | 8.8                         | 88%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOQ                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.124  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108, 109, 110

**Measured Concentrations of PFDA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |                  |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              | <i>Anaerobic</i> |
| Ultisol          | Day 0                  | <LOQ                      | <LOQ             |                             | 9.2 92%          |
|                  |                        | <LOQ                      | <LOQ             |                             | 9.1 91%          |
|                  | Week 1                 | <LOQ                      | <LOQ             | 9.3 93%                     | 9.0 90%          |
|                  |                        | <LOQ                      | <LOQ             | 7.4 74%                     | 9.7 97%          |
|                  | Week 2                 | <LOQ                      | <LOQ             | 8.9 89%                     | 9.4 94%          |
|                  |                        | <LOQ                      | <LOQ             | 8.6 86%                     | 9.2 92%          |
|                  | Week 4                 | <LOQ                      | <LOQ             | 8.8 88%                     | 9.3 93%          |
|                  |                        | <LOQ                      | <LOQ             | 8.9 89%                     | 8.0 80%          |
|                  | Month 2                | <LOQ                      | <LOQ             | 9.4 94%                     | 10.4 104%        |
|                  |                        | <LOQ                      | <LOQ             | 9.3 93%                     | 10.2 102%        |
|                  | Month 4                | <LOQ                      | <LOQ             | 10.9 109%                   | 11.0 110%        |
|                  |                        | <LOQ                      | <LOQ             | 10.9 109%                   | 10.9 109%        |
|                  | Month 6                | <LOD                      | <LOQ             | 9.6 96%                     | 9.6 96%          |
|                  |                        | <LOQ                      | <LOQ             | 10.0 100%                   | 10.4 104%        |
|                  | Month 9                | <LOQ                      |                  | 5.2 52%                     |                  |
|                  |                        | <LOQ                      |                  | 9.5 95%                     |                  |
|                  | Month 12               | <LOQ                      |                  | 8.4 84%                     |                  |
|                  |                        | <LOQ                      |                  | 7.0 70%                     |                  |
|                  | Month 15               | <LOD                      |                  |                             |                  |
|                  | Month 18               | <LOD                      |                  |                             |                  |
|                  | Month 24               | <LOQ                      |                  |                             |                  |

LOD = limit of detection (0.114  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Mollisol         | Day 0                  | <LOQ                      | <LOQ             | 10.0                        | 100% | 9.2              | 92%  |
|                  |                        | <LOQ                      | <LOQ             | 10.0                        | 100% | 9.9              | 99%  |
|                  | Week 1                 | <LOD                      | <LOQ             | 9.8                         | 98%  | 8.2              | 82%  |
|                  |                        | <LOD                      | <LOD             | 10.4                        | 104% | 9.5              | 95%  |
|                  | Week 2                 | <LOD                      | <LOD             | 9.7                         | 97%  | 9.2              | 92%  |
|                  |                        | <LOD                      | <LOD             | 10.1                        | 101% | 9.3              | 93%  |
|                  | Week 4                 | <LOQ                      | <LOD             | 9.8                         | 98%  | 9.0              | 90%  |
|                  |                        | <LOQ                      | <LOD             | 8.1                         | 81%  | 9.0              | 90%  |
|                  | Month 2                | <LOD                      | <LOD             | 9.9                         | 99%  | 10.4             | 104% |
|                  |                        | <LOD                      | <LOD             | 9.7                         | 97%  | 9.2              | 92%  |
|                  | Month 4                | <LOD                      | <LOD             | 11.7                        | 117% | 11.4             | 114% |
|                  |                        | <LOD                      | <LOD             | 10.9                        | 109% | 12.1             | 121% |
|                  | Month 6                | <LOD                      | <LOD             | 12.1                        | 121% | 11.2             | 112% |
|                  |                        | <LOD                      | <LOD             | 11.2                        | 112% | 10.9             | 109% |
|                  | Month 9                | <LOQ                      |                  | 9.2                         | 92%  |                  |      |
|                  |                        | <LOQ                      |                  | 10.2                        | 102% |                  |      |
|                  | Month 12               | <LOD                      |                  | 7.6                         | 76%  |                  |      |
|                  |                        | <LOD                      |                  | 8.0                         | 80%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOQ                      |                  |                             |      |                  |      |

LOD = limit of detection (0.114  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 9.3                         | 93%  | 9.2              | 92%  |
|                  |                        | <LOD                      | <LOD             | 9.3                         | 93%  | 7.4              | 74%  |
|                  | Week 1                 | <LOD                      | <LOD             | 9.4                         | 94%  | 8.7              | 87%  |
|                  |                        | <LOD                      | <LOD             | 11.0                        | 110% | 9.3              | 93%  |
|                  | Week 2                 | <LOD                      | <LOD             | 10.1                        | 101% | 9.0              | 90%  |
|                  |                        | <LOD                      | <LOD             | 8.6                         | 86%  | 9.5              | 95%  |
|                  | Week 4                 | <LOD                      | <LOD             | 9.0                         | 90%  | 9.7              | 97%  |
|                  |                        | <LOD                      | <LOD             | 10.5                        | 105% | 9.6              | 96%  |
|                  | Month 2                | <LOD                      | <LOD             | 11.9                        | 119% | 11.3             | 113% |
|                  |                        | <LOD                      | <LOD             | 11.2                        | 112% | 11.4             | 114% |
|                  | Month 4                | <LOD                      | <LOD             | 9.3                         | 93%  | 9.0              | 90%  |
|                  |                        | <LOD                      | <LOD             | 10.9                        | 109% | 9.6              | 96%  |
|                  | Month 6                | <LOD                      | <LOD             | 10.7                        | 107% | 11.6             | 116% |
|                  |                        | <LOD                      | <LOQ             | 11.2                        | 112% | 8.6              | 86%  |
|                  | Month 9                | <LOD                      |                  | 10.9                        | 109% |                  |      |
|                  |                        | <LOD                      |                  | 13.3                        | 133% |                  |      |
|                  | Month 12               | <LOQ                      |                  | 9.2                         | 92%  |                  |      |
|                  |                        | <LOD                      |                  | 9.3                         | 93%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.114  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Incentisol       | Day 0                  | <LOQ                      | <LOQ             | 13.9                        | 139% | 9.9              | 99%  |
|                  |                        | <LOQ                      | <LOQ             | 12.4                        | 124% | 9.7              | 97%  |
|                  | Week 1                 | <LOQ                      | <LOQ             | 14.6                        | 146% | 10.7             | 107% |
|                  |                        | <LOQ                      | <LOQ             | 11.6                        | 116% | 9.6              | 96%  |
|                  | Week 2                 | <LOQ                      | <LOQ             | 11.3                        | 113% | 10.8             | 108% |
|                  |                        | <LOQ                      | <LOQ             | 11.6                        | 116% | 10.5             | 105% |
|                  | Week 4                 | <LOQ                      | <LOQ             | 12.1                        | 121% | 10.1             | 101% |
|                  |                        | <LOQ                      | <LOQ             | 11.5                        | 115% | 10.7             | 107% |
|                  | Month 2                | <LOQ                      | <LOQ             | 12.0                        | 120% | 11.8             | 118% |
|                  |                        | <LOQ                      | <LOQ             | 13.3                        | 133% | 12.2             | 122% |
|                  | Month 4                | <LOQ                      | <LOQ             | 14.1                        | 141% | 10.8             | 108% |
|                  |                        | <LOQ                      | <LOQ             | 10.8                        | 108% | 11.6             | 116% |
|                  | Month 6                | <LOQ                      | <LOQ             | 10.7                        | 107% | 9.6              | 96%  |
|                  |                        | <LOQ                      | <LOQ             | 9.2                         | 92%  | 10.6             | 106% |
|                  | Month 9                | <LOQ                      |                  | 12.8                        | 128% |                  |      |
|                  |                        | <LOQ                      |                  | 10.9                        | 109% |                  |      |
|                  | Month 12               | <LOQ                      |                  | 9.5                         | 95%  |                  |      |
|                  |                        | <LOQ                      |                  | 9.2                         | 92%  |                  |      |
|                  | Month 15               | <LOQ                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOQ                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOQ                      |                  |                             |      |                  |      |

LOD = limit of detection (0.114  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| Soil Type | Sample Interval | Untreated Controls |           | Fortified Recoveries |           |
|-----------|-----------------|--------------------|-----------|----------------------|-----------|
|           |                 | Aerobic            | Anaerobic | Aerobic              | Anaerobic |
| Ultisol   | Day 0           | <LOQ               | <LOQ      |                      | 8.5 85%   |
|           |                 | <LOQ               | <LOQ      |                      | 8.8 88%   |
|           | Week 1          | <LOQ               | <LOQ      | 8.5 85%              | 8.5 85%   |
|           |                 | <LOQ               | <LOQ      | 6.9 69%              | 8.4 84%   |
|           | Week 2          | <LOQ               | <LOQ      | 8.2 82%              | 8.8 88%   |
|           |                 | <LOQ               | <LOQ      | 8.2 82%              | 8.6 86%   |
|           | Week 4          | <LOQ               | <LOQ      | 7.6 76%              | 9.1 91%   |
|           |                 | <LOQ               | <LOQ      | 7.8 78%              | 7.0 70%   |
|           | Month 2         | <LOQ               | <LOQ      | 8.6 86%              | 9.8 98%   |
|           |                 | <LOQ               | <LOQ      | 7.4 74%              | 9.5 95%   |
|           | Month 4         | <LOQ               | <LOQ      | 10.2 102%            | 9.4 94%   |
|           |                 | <LOQ               | <LOQ      | 10.1 101%            | 9.5 95%   |
|           | Month 6         | <LOD               | <LOQ      | 9.2 92%              | 8.8 88%   |
|           |                 | <LOQ               | <LOQ      | 9.3 93%              | 9.9 99%   |
|           | Month 9         | <LOQ               |           | 4.1 41%              |           |
|           |                 | <LOQ               |           | 8.4 84%              |           |
|           | Month 12        | <LOQ               |           | 7.2 72%              |           |
|           |                 | <LOQ               |           | 6.2 62%              |           |
|           | Month 15        | <LOQ               |           |                      |           |
|           | Month 18        | <LOD               |           |                      |           |
|           | Month 24        | <LOQ               |           |                      |           |

LOD = limit of detection (0.128  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |     |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|-----|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |     |
| Mollisol         | Day 0                  | <LOQ                      | <LOQ             | 9.5                         | 95%  | 8.2              | 82% |
|                  |                        | <LOQ                      | <LOQ             | 9.6                         | 96%  | 8.6              | 86% |
|                  | Week 1                 | <LOD                      | <LOQ             | 8.7                         | 87%  | 6.7              | 67% |
|                  |                        | <LOD                      | <LOD             | 9.3                         | 93%  | 7.6              | 76% |
|                  | Week 2                 | <LOD                      | <LOD             | 9.0                         | 90%  | 6.3              | 63% |
|                  |                        | <LOD                      | <LOD             | 9.2                         | 92%  | 7.1              | 71% |
|                  | Week 4                 | <LOD                      | <LOD             | 8.7                         | 87%  | 6.3              | 63% |
|                  |                        | <LOD                      | <LOD             | 6.9                         | 69%  | 8.0              | 80% |
|                  | Month 2                | <LOD                      | <LOD             | 8.4                         | 84%  | 8.5              | 83% |
|                  |                        | <LOD                      | <LOD             | 8.4                         | 84%  | 7.5              | 75% |
|                  | Month 4                | <LOD                      | <LOD             | 10.1                        | 101% | 9.6              | 96% |
|                  |                        | <LOD                      | <LOD             | 10.1                        | 101% | 9.4              | 94% |
|                  | Month 6                | <LOQ                      | <LOD             | 9.5                         | 95%  | 9.8              | 98% |
|                  |                        | <LOQ                      | <LOD             | 8.7                         | 87%  | 7.9              | 79% |
|                  | Month 9                | <LOQ                      |                  | 7.4                         | 74%  |                  |     |
|                  |                        | <LOQ                      |                  | 8.8                         | 88%  |                  |     |
|                  | Month 12               | <LOD                      |                  | 6.1                         | 61%  |                  |     |
|                  |                        | <LOD                      |                  | 6.3                         | 63%  |                  |     |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |     |

LOD = limit of detection (0.128  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |     |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|-----|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |     |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 9.2                         | 92%  | 8.3              | 83% |
|                  |                        | <LOD                      | <LOD             | 8.7                         | 87%  | 6.1              | 61% |
|                  | Week 1                 | <LOD                      | <LOD             | 9.2                         | 92%  | 8.3              | 83% |
|                  |                        | <LOD                      | <LOD             | 10.9                        | 109% | 8.6              | 86% |
|                  | Week 2                 | <LOD                      | <LOD             | 9.4                         | 94%  | 7.9              | 79% |
|                  |                        | <LOD                      | <LOD             | 8.0                         | 80%  | 7.9              | 79% |
|                  | Week 4                 | <LOD                      | <LOD             | 7.7                         | 77%  | 7.0              | 70% |
|                  |                        | <LOD                      | <LOD             | 9.4                         | 94%  | 7.6              | 76% |
|                  | Month 2                | <LOD                      | <LOD             | 10.3                        | 103% | 8.8              | 88% |
|                  |                        | <LOD                      | <LOD             | 9.7                         | 97%  | 9.9              | 99% |
|                  | Month 4                | <LOD                      | <LOD             | 7.5                         | 75%  | 7.4              | 74% |
|                  |                        | <LOD                      | <LOD             | 8.9                         | 89%  | 7.2              | 72% |
|                  | Month 6                | <LOD                      | <LOQ             | 8.9                         | 89%  | 9.5              | 95% |
|                  |                        | <LOD                      | <LOQ             | 9.3                         | 93%  | 6.7              | 67% |
|                  | Month 9                | <LOD                      |                  | 8.6                         | 86%  |                  |     |
|                  |                        | <LOD                      |                  | 12.2                        | 122% |                  |     |
|                  | Month 12               | <LOQ                      |                  | 8.7                         | 87%  |                  |     |
|                  |                        | <LOQ                      |                  | 8.8                         | 88%  |                  |     |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |     |

LOD = limit of detection (0.128  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Incentisol       | Day 0                  | <LOQ                      | <LOD             | 12.0                        | 120% | 7.9              | 79%  |
|                  |                        | <LOQ                      | <LOD             | 11.2                        | 112% | 7.4              | 74%  |
|                  | Week 1                 | <LOD                      | <LOD             | 12.5                        | 125% | 7.9              | 79%  |
|                  |                        | <LOD                      | <LOD             | 10.1                        | 101% | 7.4              | 74%  |
|                  | Week 2                 | <LOD                      | <LOD             | 9.2                         | 92%  | 7.4              | 74%  |
|                  |                        | <LOD                      | <LOD             | 10.3                        | 103% | 8.7              | 87%  |
|                  | Week 4                 | <LOD                      | <LOD             | 9.8                         | 98%  | 8.0              | 80%  |
|                  |                        | <LOD                      | <LOD             | 8.9                         | 89%  | 8.5              | 85%  |
|                  | Month 2                | <LOD                      | <LOD             | 10.4                        | 104% | 8.7              | 87%  |
|                  |                        | <LOD                      | <LOD             | 11.7                        | 117% | 10.3             | 103% |
|                  | Month 4                | <LOD                      | <LOD             | 12.2                        | 122% | 6.9              | 69%  |
|                  |                        | <LOD                      | <LOD             | 8.8                         | 88%  | 7.3              | 73%  |
|                  | Month 6                | <LOQ                      | <LOQ             | 8.2                         | 82%  | 7.0              | 70%  |
|                  |                        | <LOQ                      | <LOQ             | 8.3                         | 83%  | 8.5              | 85%  |
|                  | Month 9                | <LOQ                      |                  | 9.9                         | 99%  |                  |      |
|                  |                        | <LOQ                      |                  | 8.2                         | 82%  |                  |      |
|                  | Month 12               | <LOQ                      |                  | 7.4                         | 74%  |                  |      |
|                  |                        | <LOQ                      |                  | 6.9                         | 69%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.128  $\mu\text{g/kg}$ )LOQ = limit of quantitation (2.0  $\mu\text{g/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Ultisol          | Day 0                  | <LOD                      | <LOD             | 289                         | 115% | 291              | 116% |
|                  |                        | <LOD                      | <LOD             | 283                         | 113% | 288              | 115% |
|                  | Week 1                 | <LOD                      | <LOD             | 244                         | 97%  | 220              | 88%  |
|                  |                        | <LOD                      | <LOD             | 247                         | 99%  | 258              | 103% |
|                  | Week 2                 | <LOD                      | <LOD             | 210                         | 84%  |                  |      |
|                  |                        | <LOD                      | <LOD             | 208                         | 83%  | 249              | 99%  |
|                  | Week 4                 | <LOD                      | <LOD             | 165                         | 66%  | 181              | 72%  |
|                  |                        | <LOD                      | <LOD             | 147                         | 59%  | 179              | 71%  |
|                  | Month 2                | <LOD                      | <LOD             | 102                         | 41%  | 155              | 62%  |
|                  |                        | <LOD                      | <LOD             | ( 98 )                      | 39%  | 165              | 66%  |
|                  | Month 4                | <LOD                      | <LOD             | ( 45 )                      | 18%  | 117              | 47%  |
|                  |                        | <LOD                      | <LOD             | ( 53 )                      | 21%  | ( 87 )           | 33%  |
|                  | Month 6                | <LOD                      | <LOD             | ( 41 )                      | 16%  | ( 54 )           | 22%  |
|                  |                        | <LOD                      | <LOD             | <LOD                        | 0%   | ( 68 )           | 27%  |
|                  | Month 9                | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  |                        | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  | Month 12               | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  |                        | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (22.3  $\mu\text{g/kg}$ )LOQ = limit of quantitation (100  $\mu\text{g/kg}$ )Values in parentheses are <LOQ and  $\geq$  LOD

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Mollisol         | Day 0                  | <LOD                      | <LOD             | 299                         | 120% | 266              | 106% |
|                  |                        | <LOD                      | <LOD             |                             |      | 279              | 112% |
|                  | Week 1                 | <LOD                      | <LOD             | 261                         | 104% | 244              | 98%  |
|                  |                        | <LOD                      | <LOD             | 213                         | 85%  | 273              | 109% |
|                  | Week 2                 | <LOD                      | <LOD             | 217                         | 87%  | 257              | 103% |
|                  |                        | <LOD                      | <LOD             | 194                         | 78%  | 243              | 97%  |
|                  | Week 4                 | <LOD                      | <LOD             | 112                         | 45%  | 191              | 77%  |
|                  |                        | <LOD                      | <LOD             | 119                         | 48%  | 192              | 77%  |
|                  | Month 2                | <LOD                      | <LOD             | ( 51 )                      | 21%  | ( 99 )           | 40%  |
|                  |                        | <LOD                      | <LOD             | ( 63 )                      | 25%  | 162              | 65%  |
|                  | Month 4                | <LOD                      | <LOD             | <LOD                        | 0%   | ( 70 )           | 28%  |
|                  |                        | <LOD                      | <LOD             | ( 32 )                      | 13%  | ( 46 )           | 18%  |
|                  | Month 6                | <LOD                      | <LOD             | <LOD                        | 0%   | ( 36 )           | 14%  |
|                  |                        | <LOD                      | <LOD             | <LOD                        | 0%   | <LOD             | 0%   |
|                  | Month 9                | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  |                        | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  | Month 12               | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  |                        | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (22.3  $\mu\text{g/kg}$ )LOQ = limit of quantitation (100  $\mu\text{g/kg}$ )Values in parentheses are <LOQ and  $\geq$ LOD

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Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 307                         | 123% | 267              | 107% |
|                  |                        | <LOD                      | <LOD             | 245                         | 98%  | 254              | 102% |
|                  | Week 1                 | <LOD                      | <LOD             | 210                         | 84%  | 215              | 86%  |
|                  |                        | <LOD                      | <LOD             | 143                         | 57%  | 203              | 81%  |
|                  | Week 2                 | <LOD                      | <LOD             | 156                         | 62%  | 205              | 82%  |
|                  |                        | <LOD                      | <LOD             | 142                         | 57%  | 161              | 64%  |
|                  | Week 4                 | <LOD                      | <LOD             | 117                         | 47%  | 127              | 51%  |
|                  |                        | <LOD                      | <LOD             | 112                         | 45%  | 143              | 57%  |
|                  | Month 2                | <LOD                      | <LOD             | ( 75 )                      | 30%  | ( 81 )           | 33%  |
|                  |                        | <LOD                      | <LOD             | ( 79 )                      | 32%  | ( 62 )           | 25%  |
|                  | Month 4                | <LOD                      | <LOD             | ( 54 )                      | 22%  | ( 50 )           | 20%  |
|                  |                        | <LOD                      | <LOD             | ( 51 )                      | 21%  | ( 37 )           | 15%  |
|                  | Month 6                | <LOD                      | <LOD             | <LOD                        | 0%   | <LOD             | 0%   |
|                  |                        | <LOD                      | <LOD             | ( 29 )                      | 12%  | <LOD             | 0%   |
|                  | Month 9                | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  |                        | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  | Month 12               | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  |                        | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (22.3  $\mu\text{g/kg}$ )LOQ = limit of quantitation (100  $\mu\text{g/kg}$ )Values in parentheses are <LOQ and  $\geq$ LOD

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Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

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Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Incentisol       | Day 0                  | <LOD                      | <LOD             | 285                         | 114% | 287              | 115% |
|                  |                        | <LOD                      | <LOD             | 262                         | 105% | 285              | 114% |
|                  | Week 1                 | <LOD                      | <LOD             | 267                         | 107% | 258              | 103% |
|                  |                        | <LOD                      | <LOD             | 285                         | 114% | 260              | 104% |
|                  | Week 2                 | <LOD                      | <LOD             | 245                         | 98%  | 237              | 95%  |
|                  |                        | <LOD                      | <LOD             | 234                         | 94%  | 235              | 94%  |
|                  | Week 4                 | <LOD                      | <LOD             | 218                         | 87%  | 230              | 92%  |
|                  |                        | <LOD                      | <LOD             | 284                         | 114% | 219              | 87%  |
|                  | Month 2                | <LOD                      | <LOD             | 201                         | 81%  | 134              | 54%  |
|                  |                        | <LOD                      | <LOD             | 200                         | 80%  | 165              | 66%  |
|                  | Month 4                | <LOD                      | <LOD             | 157                         | 63%  | 106              | 42%  |
|                  |                        | <LOD                      | <LOD             | 186                         | 74%  | 106              | 42%  |
|                  | Month 6                | <LOD                      | <LOD             | ( 86 )                      | 34%  | ( 42 )           | 17%  |
|                  |                        | <LOD                      | <LOD             | ( 85 )                      | 34%  | ( 37 )           | 15%  |
|                  | Month 9                | <LOD                      |                  | ( 55 )                      | 22%  |                  |      |
|                  |                        | <LOD                      |                  | 115                         | 46%  |                  |      |
|                  | Month 12               | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  |                        | <LOD                      |                  | <LOD                        | 0%   |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (22.3  $\mu\text{g/kg}$ )LOQ = limit of quantitation (100  $\mu\text{g/kg}$ )Values in parentheses are <LOQ and  $\geq$  LOD

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH (µg/L)  
in Headspace Gases from Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Soils</i> |                  |
|------------------|------------------------|---------------------------|------------------|------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>         | <i>Anaerobic</i> |
| Ultisol          | Day 0                  | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 1                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 2                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 4                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 2                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 4                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 6                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 9                | <LOQ                      |                  | <LOQ                   |                  |
|                  |                        | <LOQ                      |                  | <LOQ                   |                  |
|                  | Month 12               | <LOQ                      |                  | <LOQ                   |                  |
|                  |                        | <LOQ                      |                  | <LOQ                   |                  |
|                  | Month 15               | <LOQ                      |                  |                        |                  |
|                  | Month 18               | <LOQ                      |                  |                        |                  |
|                  | Month 24               | <LOQ                      |                  |                        |                  |

LOQ = limit of quantitation (12.5 µg/L of headspace)

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/L}$ )  
in Headspace Gases from Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Soils</i> |                  |
|------------------|------------------------|---------------------------|------------------|------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>         | <i>Anaerobic</i> |
| Mollisol         | Day 0                  | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 1                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 2                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 4                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 2                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 4                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 6                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 9                | <LOQ                      |                  | <LOQ                   |                  |
|                  |                        | <LOQ                      |                  | <LOQ                   |                  |
|                  | Month 12               | <LOQ                      |                  | <LOQ                   |                  |
|                  |                        | <LOQ                      |                  | <LOQ                   |                  |
|                  | Month 15               | <LOQ                      |                  |                        |                  |
|                  | Month 18               | <LOQ                      |                  |                        |                  |
|                  | Month 24               | <LOQ                      |                  |                        |                  |

LOQ = limit of quantitation (12.5  $\mu\text{g/L}$  of headspace)

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH (µg/L)  
in Headspace Gases from Untreated and Fortified Soils**

| Soil Type | Sample Interval | Untreated Controls |           | Fortified Soils |           |
|-----------|-----------------|--------------------|-----------|-----------------|-----------|
|           |                 | Aerobic            | Anaerobic | Aerobic         | Anaerobic |
| Alfisol   | Day 0           | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Week 1          | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Week 2          | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Week 4          | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Month 2         | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Month 4         | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Month 6         | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Month 9         | <LOQ               |           | <LOQ            |           |
|           |                 | <LOQ               |           | <LOQ            |           |
|           | Month 12        | <LOQ               |           | <LOQ            |           |
|           |                 | <LOQ               |           | <LOQ            |           |
|           | Month 15        | <LOQ               |           |                 |           |
|           | Month 18        | <LOQ               |           |                 |           |
|           | Month 24        | <LOQ               |           |                 |           |

LOQ = limit of quantitation (12.5 µg/L of headspace)

Company Sanitized. Does not contain TSCA CBI.

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{g/L}$ )  
in Headspace Gases from Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Soils</i> |                  |
|------------------|------------------------|---------------------------|------------------|------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>         | <i>Anaerobic</i> |
| Incentisol       | Day 0                  | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 1                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 2                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 4                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 2                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 4                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 6                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 9                | <LOQ                      |                  | <LOQ                   |                  |
|                  |                        | <LOQ                      |                  | <LOQ                   |                  |
|                  | Month 12               | <LOQ                      |                  | <LOQ                   |                  |
|                  |                        | <LOQ                      |                  | <LOQ                   |                  |
|                  | Month 15               | <LOQ                      |                  |                        |                  |
|                  | Month 18               | <LOQ                      |                  |                        |                  |
|                  | Month 24               | <LOQ                      |                  |                        |                  |

LOQ = limit of quantitation (12.5  $\mu\text{g/L}$  of headspace)

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**Appendix II**

Measured Concentration of Selected Analytes ( $\mu\text{mol/kg}$  Soil Dry Weight)

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**Measured Concentrations of PFOA ( $\mu\text{mol/kg}$ )  
in Soils Treated with (      )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | 0.043          | <LOQ           | 0.053            | <LOQ           |
|                  |                        | 0.046          | <LOQ           | 0.055            | <LOQ           |
|                  | Week 2                 | 0.077          | <LOQ           | 0.065            | <LOQ           |
|                  |                        | 0.088          | <LOQ           | 0.058            | <LOQ           |
|                  | Week 4                 | 0.140          | 0.005          | 0.124            | <LOQ           |
|                  |                        | 0.148          | <LOQ           | 0.097            | <LOQ           |
|                  | Month 2                | 0.295          | 0.006          | 0.169            | <LOQ           |
|                  |                        | 0.362          | <LOQ           | 0.177            | <LOQ           |
|                  | Month 4                | 0.651          | 0.005          | 0.277            | 0.006          |
|                  |                        | 0.903          | <LOQ           | 0.322            | <LOQ           |
|                  | Month 6                | 0.909          | 0.012          | 0.359            | 0.007          |
|                  |                        | 1.065          | <LOQ           | 0.253            | <LOQ           |
|                  | Month 9                | 1.176          | 0.019          |                  |                |
|                  |                        | 1.349          | <LOQ           |                  |                |
|                  | Month 12               | 0.888          | <LOQ           |                  |                |
|                  |                        | 0.831          | <LOQ           |                  |                |
|                  | Month 15               | 0.821          |                |                  |                |
|                  |                        | 0.876          |                |                  |                |
|                  | Month 18               | 0.992          |                |                  |                |
|                  |                        | 0.794          |                |                  |                |
|                  | Month 24               | 0.884          |                |                  |                |
|                  |                        | 0.795          |                |                  |                |

LOD = limit of detection (0.0005  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0048  $\mu\text{mol/kg}$ )

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**Measured Concentrations of PFOA ( $\mu\text{mol/kg}$ )  
in Soils Treated with ( )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | 0.037          | <LOQ           | 0.035            | <LOQ           |
|                  |                        | 0.036          | <LOQ           | 0.036            | <LOQ           |
|                  | Week 2                 | 0.043          | <LOQ           | 0.045            | <LOQ           |
|                  |                        | 0.044          | <LOQ           | 0.044            | <LOQ           |
|                  | Week 4                 | 0.052          | <LOQ           | 0.049            | <LOQ           |
|                  |                        | 0.049          | <LOQ           | 0.054            | <LOQ           |
|                  | Month 2                | 0.077          | <LOQ           | 0.103            | <LOQ           |
|                  |                        | 0.073          | <LOQ           | 0.104            | <LOQ           |
|                  | Month 4                | 0.111          | 0.007          | 0.189            | 0.006          |
|                  |                        | 0.142          | <LOQ           | 0.149            | <LOQ           |
|                  | Month 6                | 0.180          | 0.008          | 0.284            | 0.009          |
|                  |                        | 0.180          | 0.006          | 0.220            | 0.006          |
|                  | Month 9                | 0.223          | 0.008          |                  |                |
|                  |                        | 0.167          | 0.008          |                  |                |
|                  | Month 12               | 0.251          | 0.007          |                  |                |
|                  |                        | 0.227          | 0.008          |                  |                |
|                  | Month 15               | 0.238          |                |                  |                |
|                  |                        | 0.599          |                |                  |                |
|                  | Month 18               | 0.307          |                |                  |                |
|                  |                        | 0.287          |                |                  |                |
|                  | Month 24               | 0.554          |                |                  |                |
|                  |                        | 0.501          |                |                  |                |

LOD = limit of detection (0.0005  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0048  $\mu\text{mol/kg}$ )

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**Measured Concentrations of PFOA ( $\mu\text{mol/kg}$ )  
in Soils Treated with C ]**

| Soil Type | Sample Interval | Aerobic |         | Anaerobic |         |
|-----------|-----------------|---------|---------|-----------|---------|
|           |                 | Live    | Sterile | Live      | Sterile |
| Alfisol   | Day 0           | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|           |                 | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|           | Week 1          | 0.020   | <LOQ    | 0.023     | <LOQ    |
|           |                 | 0.020   | <LOQ    | 0.026     | <LOQ    |
|           | Week 2          | 0.027   | <LOQ    | 0.034     | <LOQ    |
|           |                 | 0.026   | <LOQ    | 0.037     | <LOQ    |
|           | Week 4          | 0.036   | <LOQ    | 0.048     | <LOQ    |
|           |                 | 0.038   | <LOQ    | 0.048     | <LOQ    |
|           | Month 2         | 0.056   | <LOQ    | 0.043     | <LOQ    |
|           |                 | 0.060   | <LOQ    | 0.075     | <LOQ    |
|           | Month 4         | 0.077   | <LOQ    | 0.217     | 0.005   |
|           |                 | 0.080   | <LOQ    | 0.188     | <LOQ    |
|           | Month 6         | 0.141   | <LOQ    | 0.240     | 0.005   |
|           |                 | 0.127   | <LOQ    | 0.202     | <LOQ    |
|           | Month 9         | 0.236   | 0.008   |           |         |
|           |                 | 0.226   | <LOQ    |           |         |
|           | Month 12        | 0.158   | <LOQ    |           |         |
|           |                 | 0.203   | <LOQ    |           |         |
|           | Month 15        | 0.321   |         |           |         |
|           |                 | 0.250   |         |           |         |
|           | Month 18        | 0.469   |         |           |         |
|           |                 | 0.376   |         |           |         |
|           | Month 24        | 0.475   |         |           |         |
|           |                 | 0.460   |         |           |         |

LOD = limit of detection (0.0005  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0048  $\mu\text{mol/kg}$ )

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**Measured Concentrations of PFOA ( $\mu\text{mol/kg}$ )  
in Soils Treated with (      )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | 0.046          | <LOQ           | 0.050            | <LOQ           |
|                  |                        | 0.050          | <LOQ           | 0.043            | <LOQ           |
|                  | Week 2                 | 0.069          | <LOQ           | 0.064            | <LOQ           |
|                  |                        | 0.070          | <LOQ           | 0.065            | <LOQ           |
|                  | Week 4                 | 0.135          | 0.005          | 0.182            | <LOQ           |
|                  |                        | 0.132          | <LOQ           | 0.116            | <LOQ           |
|                  | Month 2                | 0.295          | 0.007          | 0.333            | <LOQ           |
|                  |                        | 0.236          | <LOQ           | 0.349            | <LOQ           |
|                  | Month 4                | 0.460          | 0.011          | 0.687            | 0.012          |
|                  |                        | 0.457          | <LOQ           | 0.731            | <LOQ           |
|                  | Month 6                | 0.639          | 0.013          | 0.790            | 0.018          |
|                  |                        | 0.605          | 0.007          | 0.838            | <LOQ           |
|                  | Month 9                | 0.697          | 0.015          |                  |                |
|                  |                        | 0.820          | 0.007          |                  |                |
|                  | Month 12               | 0.888          | 0.010          |                  |                |
|                  |                        | 0.845          | 0.006          |                  |                |
|                  | Month 15               | 0.972          |                |                  |                |
|                  |                        | 0.930          |                |                  |                |
|                  | Month 18               | 1.020          |                |                  |                |
|                  |                        | 1.078          |                |                  |                |
|                  | Month 24               | 1.282          |                |                  |                |
|                  |                        | 1.338          |                |                  |                |

LOD = limit of detection (0.0005  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0048  $\mu\text{mol/kg}$ )

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**Measured Concentrations of 8-2 FTUA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [                      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | 0.005          | <LOD           | <LOQ             | <LOD           |
|                  |                        | 0.006          | <LOD           | <LOQ             | <LOD           |
|                  | Week 4                 | 0.009          | <LOD           | <LOQ             | <LOD           |
|                  |                        | 0.007          | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | 0.014          | <LOD           | <LOQ             | <LOD           |
|                  |                        | 0.015          | <LOD           | <LOQ             | <LOD           |
|                  | Month 4                | 0.027          | <LOD           | <LOQ             | <LOD           |
|                  |                        | 0.028          | <LOD           | <LOQ             | <LOD           |
|                  | Month 6                | 0.026          | <LOD           | <LOQ             | <LOD           |
|                  |                        | 0.042          | <LOD           | <LOQ             | <LOD           |
|                  | Month 9                | 0.067          | <LOD           |                  |                |
|                  |                        | 0.043          | <LOD           |                  |                |
|                  | Month 12               | 0.013          | <LOD           |                  |                |
|                  |                        | 0.017          | <LOD           |                  |                |
|                  | Month 15               | 0.025          |                |                  |                |
|                  |                        | 0.029          |                |                  |                |
|                  | Month 18               | 0.034          |                |                  |                |
|                  |                        | 0.014          |                |                  |                |
|                  | Month 24               | 0.034          |                |                  |                |
|                  |                        | 0.071          |                |                  |                |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0044  $\mu\text{mol/kg}$ )

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**Measured Concentrations of 8-2 FTUA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Week 1                 | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOQ             | <LOQ           |
|                  | Week 2                 | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Month 4                | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  | Month 6                | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Month 9                | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 12               | <LOQ           | <LOD           |                  |                |
|                  |                        | <LOQ           | <LOD           |                  |                |
|                  | Month 15               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | 0.007          |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0044  $\mu\text{mol/kg}$ )

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**Measured Concentrations of 8-2 FTUA ( $\mu\text{mol/kg}$ )  
in Soils Treated with{ }**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  | Month 4                | <LOD           | <LOD           | 0.008            | <LOD           |
|                  |                        | <LOD           | <LOD           | 0.005            | <LOD           |
|                  | Month 6                | <LOQ           | <LOD           | 0.005            | <LOQ           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  | Month 9                | <LOQ           | <LOD           |                  |                |
|                  |                        | <LOQ           | <LOD           |                  |                |
|                  | Month 12               | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0044  $\mu\text{mol/kg}$ )

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**Measured Concentrations of 8-2 FTUA ( $\mu\text{mol/kg}$ )  
in Soils Treated with { }**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Week 4                 | 0.013          | <LOD           | 0.017            | <LOD           |
|                  |                        | 0.011          | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | 0.055          | <LOD           | 0.012            | <LOD           |
|                  |                        | 0.027          | <LOD           | 0.012            | <LOD           |
|                  | Month 4                | 0.170          | <LOQ           | 0.028            | <LOD           |
|                  |                        | 0.194          | <LOD           | 0.028            | <LOD           |
|                  | Month 6                | 0.358          | 0.006          | 0.034            | <LOQ           |
|                  |                        | 0.350          | <LOQ           | 0.022            | <LOQ           |
|                  | Month 9                | 0.419          | 0.005          |                  |                |
|                  |                        | 0.352          | <LOQ           |                  |                |
|                  | Month 12               | 0.457          | <LOQ           |                  |                |
|                  |                        | 0.452          | <LOQ           |                  |                |
|                  | Month 15               | 0.492          |                |                  |                |
|                  |                        | 0.550          |                |                  |                |
|                  | Month 18               | 0.559          |                |                  |                |
|                  |                        | 0.530          |                |                  |                |
|                  | Month 24               | 0.542          |                |                  |                |
|                  |                        | 0.522          |                |                  |                |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0044  $\mu\text{mol/kg}$ )

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**Measured Concentrations of 8-2 FTA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | 0.008          | <LOD           | <LOD             | <LOD           |
|                  |                        | 0.008          | <LOD           | <LOQ             | <LOD           |
|                  | Week 4                 | 0.013          | <LOD           | <LOD             | <LOD           |
|                  |                        | 0.010          | <LOD           | <LOD             | <LOD           |
|                  | Month 2                | 0.018          | <LOD           | <LOD             | <LOD           |
|                  |                        | 0.018          | <LOD           | <LOD             | <LOD           |
|                  | Month 4                | 0.020          | <LOD           | <LOD             | <LOD           |
|                  |                        | 0.017          | <LOD           | <LOQ             | <LOD           |
|                  | Month 6                | 0.021          | <LOQ           | <LOQ             | <LOD           |
|                  |                        | 0.040          | <LOD           | <LOD             | <LOD           |
|                  | Month 9                | 0.041          | <LOD           |                  |                |
|                  |                        | 0.025          | <LOD           |                  |                |
|                  | Month 12               | 0.006          | <LOD           |                  |                |
|                  |                        | 0.009          | 0.004          |                  |                |
|                  | Month 15               | 0.009          |                |                  |                |
|                  |                        | 0.008          |                |                  |                |
|                  | Month 18               | 0.014          |                |                  |                |
|                  |                        | 0.006          |                |                  |                |
|                  | Month 24               | 0.010          |                |                  |                |
|                  |                        | 0.011          |                |                  |                |

LOD = limit of detection (0.0011  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0042  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Number 112E-108

**Measured Concentrations of 8-2 FTA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 2                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 4                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 6                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 9                | <LOD           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 12               | <LOQ           | <LOD           |                  |                |
|                  |                        | 0.005          | <LOD           |                  |                |
|                  | Month 15               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 18               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOD = limit of detection (0.0011  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0042  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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Project Number 112E-108

**Measured Concentrations of 8-2 FTA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 4                | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  | Month 6                | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOQ             | <LOQ           |
|                  | Month 9                | <LOD           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 12               | <LOD           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 15               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 18               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOD = limit of detection (0.0011  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0042  $\mu\text{mol/kg}$ )

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**Measured Concentrations of 8-2 FTA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | 0.011          | <LOD           | 0.014            | <LOD           |
|                  |                        | 0.010          | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | 0.038          | <LOD           | 0.005            | <LOD           |
|                  |                        | 0.027          | <LOD           | 0.005            | <LOD           |
|                  | Month 4                | 0.154          | <LOQ           | 0.013            | <LOD           |
|                  |                        | 0.158          | <LOD           | 0.012            | <LOD           |
|                  | Month 6                | 0.341          | 0.006          | 0.018            | <LOD           |
|                  |                        | 0.302          | <LOQ           | 0.011            | <LOQ           |
|                  | Month 9                | 0.343          | 0.006          |                  |                |
|                  |                        | 0.265          | <LOQ           |                  |                |
|                  | Month 12               | 0.279          | <LOQ           |                  |                |
|                  |                        | 0.294          | <LOQ           |                  |                |
|                  | Month 15               | 0.404          |                |                  |                |
|                  |                        | 0.430          |                |                  |                |
|                  | Month 18               | 0.447          |                |                  |                |
|                  |                        | 0.474          |                |                  |                |
|                  | Month 24               | 0.423          |                |                  |                |
|                  |                        | 0.464          |                |                  |                |

LOD = limit of detection (0.0011  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0042  $\mu\text{mol/kg}$ )

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**Measured Concentrations of PFNA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [      ]**

| Soil Type | Sample Interval | Aerobic |         | Anaerobic |         |
|-----------|-----------------|---------|---------|-----------|---------|
|           |                 | Live    | Sterile | Live      | Sterile |
| Ultisol   | Day 0           | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|           | Week 1          | <LOQ    | <LOQ    | <LOQ      | <LOQ    |
|           |                 | 0.015   | <LOQ    | 0.014     | <LOQ    |
|           | Week 2          | 0.016   | <LOQ    | 0.015     | <LOQ    |
|           |                 | 0.025   | <LOQ    | 0.020     | <LOQ    |
|           | Week 4          | 0.026   | <LOQ    | 0.020     | <LOQ    |
|           |                 | 0.038   | <LOQ    | 0.034     | <LOQ    |
|           | Month 2         | 0.036   | <LOQ    | 0.029     | <LOQ    |
|           |                 | 0.052   | <LOQ    | 0.033     | <LOQ    |
|           | Month 4         | 0.046   | <LOQ    | 0.046     | <LOQ    |
|           |                 | 0.060   | <LOQ    | 0.050     | <LOQ    |
|           | Month 6         | 0.065   | <LOQ    | 0.048     | <LOQ    |
|           |                 | 0.061   | <LOQ    | 0.065     | <LOQ    |
|           | Month 9         | 0.066   | <LOQ    | 0.055     | <LOQ    |
|           |                 | 0.072   | <LOQ    |           |         |
|           | Month 12        | 0.065   | <LOQ    |           |         |
|           |                 | 0.018   | <LOQ    |           |         |
|           | Month 15        | 0.034   | <LOQ    |           |         |
|           |                 | 0.051   |         |           |         |
|           | Month 18        | 0.057   |         |           |         |
|           |                 | 0.064   |         |           |         |
|           | Month 24        | 0.053   |         |           |         |
|           |                 | 0.067   |         |           |         |
|           |                 | 0.064   |         |           |         |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0043  $\mu\text{mol/kg}$ )

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**Measured Concentrations of PFNA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [                      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  | Week 1                 | 0.013          | <LOQ           | 0.009            | <LOQ           |
|                  |                        | 0.013          | <LOQ           | 0.009            | <LOQ           |
|                  | Week 2                 | 0.012          | <LOD           | 0.013            | <LOQ           |
|                  |                        | 0.018          | <LOD           | 0.010            | <LOD           |
|                  | Week 4                 | 0.023          | <LOQ           | 0.009            | <LOQ           |
|                  |                        | 0.026          | <LOQ           | 0.013            | <LOQ           |
|                  | Month 2                | 0.039          | <LOQ           | 0.014            | <LOQ           |
|                  |                        | 0.037          | <LOQ           | 0.018            | <LOQ           |
|                  | Month 4                | 0.048          | <LOQ           | 0.026            | <LOQ           |
|                  |                        | 0.048          | <LOQ           | 0.020            | <LOQ           |
|                  | Month 6                | 0.046          | <LOQ           | 0.034            | <LOQ           |
|                  |                        | 0.043          | <LOQ           | 0.026            | <LOQ           |
|                  | Month 9                | 0.037          | <LOQ           |                  |                |
|                  |                        | 0.024          | <LOQ           |                  |                |
|                  | Month 12               | 0.042          | <LOQ           |                  |                |
|                  |                        | 0.040          | <LOQ           |                  |                |
|                  | Month 15               | 0.031          |                |                  |                |
|                  |                        | 0.056          |                |                  |                |
|                  | Month 18               | 0.045          |                |                  |                |
|                  |                        | 0.037          |                |                  |                |
|                  | Month 24               | 0.055          |                |                  |                |
|                  |                        | 0.075          |                |                  |                |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0043  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of PFNA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [ ]**

| Soil Type | Sample Interval | Aerobic |         | Anaerobic |         |
|-----------|-----------------|---------|---------|-----------|---------|
|           |                 | Live    | Sterile | Live      | Sterile |
| Alfisol   | Day 0           | <LOQ    | <LOD    | <LOQ      | <LOQ    |
|           |                 | <LOQ    | <LOD    | <LOQ      | <LOQ    |
|           | Week 1          | 0.007   | <LOQ    | <LOQ      | <LOQ    |
|           |                 | 0.009   | <LOQ    | 0.005     | <LOD    |
|           | Week 2          | 0.010   | <LOD    | 0.006     | <LOQ    |
|           |                 | 0.008   | <LOQ    | 0.007     | <LOD    |
|           | Week 4          | 0.014   | <LOQ    | 0.010     | <LOQ    |
|           |                 | 0.017   | <LOQ    | 0.010     | <LOQ    |
|           | Month 2         | 0.022   | <LOQ    | 0.008     | <LOQ    |
|           |                 | 0.035   | <LOQ    | 0.014     | <LOQ    |
|           | Month 4         | 0.023   | <LOQ    | 0.019     | <LOQ    |
|           |                 | 0.029   | <LOD    | 0.020     | <LOQ    |
|           | Month 6         | 0.019   | <LOQ    | 0.024     | <LOQ    |
|           |                 | 0.034   | <LOQ    | 0.017     | <LOQ    |
|           | Month 9         | 0.038   | <LOQ    |           |         |
|           |                 | 0.050   | <LOD    |           |         |
|           | Month 12        | 0.029   | <LOQ    |           |         |
|           |                 | 0.038   | <LOQ    |           |         |
|           | Month 15        | 0.050   |         |           |         |
|           |                 | 0.033   |         |           |         |
|           | Month 18        | 0.034   |         |           |         |
|           |                 | 0.038   |         |           |         |
|           | Month 24        | 0.054   |         |           |         |
|           |                 | 0.047   |         |           |         |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0043  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of PFNA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | 0.044          | <LOQ           | 0.021            | <LOQ           |
|                  |                        | 0.054          | <LOQ           | 0.016            | <LOQ           |
|                  | Week 2                 | 0.062          | <LOQ           | 0.028            | <LOQ           |
|                  |                        | 0.072          | <LOQ           | 0.029            | <LOQ           |
|                  | Week 4                 | 0.079          | <LOQ           | 0.075            | <LOQ           |
|                  |                        | 0.076          | <LOQ           | 0.047            | <LOQ           |
|                  | Month 2                | 0.134          | <LOQ           | 0.053            | <LOQ           |
|                  |                        | 0.138          | <LOQ           | 0.057            | <LOQ           |
|                  | Month 4                | 0.128          | <LOQ           | 0.062            | <LOQ           |
|                  |                        | 0.133          | <LOQ           | 0.077            | <LOQ           |
|                  | Month 6                | 0.146          | <LOQ           | 0.073            | <LOQ           |
|                  |                        | 0.172          | <LOQ           | 0.078            | <LOQ           |
|                  | Month 9                | 0.172          | <LOQ           |                  |                |
|                  |                        | 0.171          | <LOQ           |                  |                |
|                  | Month 12               | 0.154          | <LOQ           |                  |                |
|                  |                        | 0.152          | <LOQ           |                  |                |
|                  | Month 15               | 0.159          |                |                  |                |
|                  |                        | 0.160          |                |                  |                |
|                  | Month 18               | 0.171          |                |                  |                |
|                  |                        | 0.174          |                |                  |                |
|                  | Month 24               | 0.208          |                |                  |                |
|                  |                        | 0.224          |                |                  |                |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0043  $\mu\text{mol/kg}$ )

Friday, October 12, 2007

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of PFDA ( $\mu\text{mol/kg}$ )  
in Soils Treated with (      )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | 0.009          | <LOQ           | 0.009            | <LOQ           |
|                  | Week 2                 | 0.009          | <LOQ           | 0.010            | <LOQ           |
|                  |                        | 0.015          | <LOQ           | 0.013            | <LOQ           |
|                  | Week 4                 | 0.016          | <LOQ           | 0.014            | <LOQ           |
|                  |                        | 0.021          | <LOQ           | 0.018            | <LOQ           |
|                  | Month 2                | 0.023          | <LOQ           | 0.016            | <LOQ           |
|                  |                        | 0.035          | <LOQ           | 0.026            | <LOQ           |
|                  | Month 4                | 0.036          | <LOQ           | 0.029            | <LOQ           |
|                  |                        | 0.052          | <LOQ           | 0.049            | <LOQ           |
|                  | Month 6                | 0.055          | <LOQ           | 0.055            | <LOQ           |
|                  |                        | 0.059          | <LOQ           | 0.043            | <LOQ           |
|                  | Month 9                | 0.069          | <LOQ           | 0.038            | <LOQ           |
|                  |                        | 0.074          | <LOQ           |                  |                |
|                  | Month 12               | 0.076          | <LOQ           |                  |                |
|                  |                        | 0.018          | <LOQ           |                  |                |
|                  | Month 15               | 0.041          | <LOQ           |                  |                |
|                  |                        | 0.065          |                |                  |                |
|                  | Month 18               | 0.066          |                |                  |                |
|                  |                        | 0.093          |                |                  |                |
|                  | Month 24               | 0.071          |                |                  |                |
|                  |                        | 0.099          |                |                  |                |
|                  |                        | 0.086          |                |                  |                |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0039  $\mu\text{mol/kg}$ )

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

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*Wildlife International, Ltd.*

Project Number 112E-108

**Measured Concentrations of PFDA ( $\mu\text{mol/kg}$ )  
in Soils Treated with(      )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | 0.007          | <LOQ           | 0.007            | <LOQ           |
|                  |                        | 0.007          | <LOQ           | 0.007            | <LOQ           |
|                  | Week 2                 | 0.009          | <LOQ           | 0.010            | <LOQ           |
|                  |                        | 0.010          | <LOQ           | 0.009            | <LOQ           |
|                  | Week 4                 | 0.012          | <LOQ           | 0.013            | <LOQ           |
|                  |                        | 0.012          | <LOQ           | 0.013            | <LOQ           |
|                  | Month 2                | 0.019          | <LOQ           | 0.021            | <LOQ           |
|                  |                        | 0.020          | <LOQ           | 0.021            | <LOQ           |
|                  | Month 4                | 0.028          | 0.004          | 0.034            | <LOQ           |
|                  |                        | 0.032          | <LOQ           | 0.028            | <LOQ           |
|                  | Month 6                | 0.034          | <LOQ           | 0.041            | <LOQ           |
|                  |                        | 0.034          | <LOQ           | 0.034            | <LOQ           |
|                  | Month 9                | 0.032          | <LOQ           |                  |                |
|                  |                        | 0.024          | 0.004          |                  |                |
|                  | Month 12               | 0.038          | <LOQ           |                  |                |
|                  |                        | 0.036          | <LOQ           |                  |                |
|                  | Month 15               | 0.028          |                |                  |                |
|                  |                        | 0.054          |                |                  |                |
|                  | Month 18               | 0.043          |                |                  |                |
|                  |                        | 0.042          |                |                  |                |
|                  | Month 24               | 0.088          |                |                  |                |
|                  |                        | 0.094          |                |                  |                |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0039  $\mu\text{mol/kg}$ )

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Number 112E-108

**Measured Concentrations of PFDA ( $\mu\text{mol/kg}$ )  
in Soils Treated with ( )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | 0.004          | <LOQ           | 0.005            | <LOQ           |
|                  | Week 2                 | 0.006          | <LOQ           | 0.006            | <LOQ           |
|                  |                        | 0.006          | <LOQ           | 0.007            | <LOQ           |
|                  | Week 4                 | 0.009          | <LOQ           | 0.011            | <LOQ           |
|                  |                        | 0.009          | <LOQ           | 0.011            | <LOQ           |
|                  | Month 2                | 0.016          | <LOQ           | 0.009            | <LOQ           |
|                  |                        | 0.018          | <LOQ           | 0.017            | <LOQ           |
|                  | Month 4                | 0.016          | <LOQ           | 0.025            | <LOQ           |
|                  |                        | 0.019          | <LOQ           | 0.026            | <LOQ           |
|                  | Month 6                | 0.018          | <LOQ           | 0.028            | <LOQ           |
|                  |                        | 0.024          | <LOQ           | 0.024            | <LOQ           |
|                  | Month 9                | 0.033          | <LOQ           |                  |                |
|                  |                        | 0.038          | <LOQ           |                  |                |
|                  | Month 12               | 0.025          | <LOQ           |                  |                |
|                  |                        | 0.031          | <LOQ           |                  |                |
|                  | Month 15               | 0.051          |                |                  |                |
|                  |                        | 0.030          |                |                  |                |
|                  | Month 18               | 0.045          |                |                  |                |
|                  |                        | 0.040          |                |                  |                |
|                  | Month 24               | 0.073          |                |                  |                |
|                  |                        | 0.071          |                |                  |                |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0039  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of PFDA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | 0.009          | <LOQ           | 0.010            | <LOQ           |
|                  |                        | 0.010          | <LOQ           | 0.009            | <LOQ           |
|                  | Week 2                 | 0.016          | <LOQ           | 0.015            | <LOQ           |
|                  |                        | 0.016          | <LOQ           | 0.015            | <LOQ           |
|                  | Week 4                 | 0.030          | <LOQ           | 0.041            | <LOQ           |
|                  |                        | 0.030          | <LOQ           | 0.022            | <LOQ           |
|                  | Month 2                | 0.067          | 0.004          | 0.042            | <LOQ           |
|                  |                        | 0.058          | <LOQ           | 0.045            | <LOQ           |
|                  | Month 4                | 0.085          | 0.005          | 0.065            | <LOQ           |
|                  |                        | 0.098          | <LOQ           | 0.076            | <LOQ           |
|                  | Month 6                | 0.102          | 0.006          | 0.091            | 0.005          |
|                  |                        | 0.134          | 0.006          | 0.080            | <LOQ           |
|                  | Month 9                | 0.130          | 0.006          |                  |                |
|                  |                        | 0.111          | 0.005          |                  |                |
|                  | Month 12               | 0.121          | 0.004          |                  |                |
|                  |                        | 0.136          | 0.004          |                  |                |
|                  | Month 15               | 0.122          |                |                  |                |
|                  |                        | 0.128          |                |                  |                |
|                  | Month 18               | 0.158          |                |                  |                |
|                  |                        | 0.151          |                |                  |                |
|                  | Month 24               | 0.169          |                |                  |                |
|                  |                        | 0.174          |                |                  |                |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0039  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of PFUA ( $\mu\text{mol/kg}$ )  
in Soils Treated with (      )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 2                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | 0.005          | <LOQ           | 0.005            | <LOQ           |
|                  | Week 4                 | 0.006          | <LOQ           | 0.005            | <LOQ           |
|                  |                        | 0.009          | <LOQ           | 0.007            | <LOQ           |
|                  | Month 2                | 0.008          | <LOQ           | 0.007            | <LOQ           |
|                  |                        | 0.015          | <LOQ           | 0.012            | <LOQ           |
|                  | Month 4                | 0.014          | <LOQ           | 0.015            | <LOQ           |
|                  |                        | 0.023          | <LOQ           | 0.027            | <LOQ           |
|                  | Month 6                | 0.027          | <LOQ           | 0.023            | <LOQ           |
|                  |                        | 0.028          | <LOQ           | 0.032            | <LOQ           |
|                  | Month 9                | 0.029          | <LOQ           | 0.031            | <LOQ           |
|                  |                        | 0.033          | <LOQ           |                  |                |
|                  | Month 12               | 0.030          | <LOQ           |                  |                |
|                  |                        | 0.006          | <LOQ           |                  |                |
|                  | Month 15               | 0.019          | <LOQ           |                  |                |
|                  |                        | 0.027          |                |                  |                |
|                  | Month 18               | 0.028          |                |                  |                |
|                  |                        | 0.034          |                |                  |                |
|                  | Month 24               | 0.029          |                |                  |                |
|                  |                        | 0.040          |                |                  |                |
|                  |                        | 0.040          |                |                  |                |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0036  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of PFUA ( $\mu\text{mol/kg}$ )  
in Soils Treated with**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  | Week 2                 | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | 0.004          | <LOD           | <LOQ             | <LOD           |
|                  | Week 4                 | 0.005          | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | 0.005          | <LOQ           | 0.004            | <LOQ           |
|                  | Month 2                | 0.011          | <LOQ           | 0.004            | <LOD           |
|                  |                        | 0.010          | <LOD           | 0.006            | <LOD           |
|                  | Month 4                | 0.018          | <LOQ           | 0.011            | <LOQ           |
|                  |                        | 0.019          | <LOD           | 0.008            | <LOQ           |
|                  | Month 6                | 0.017          | <LOQ           | 0.012            | <LOQ           |
|                  |                        | 0.017          | <LOQ           | 0.010            | <LOD           |
|                  | Month 9                | 0.015          | <LOQ           |                  |                |
|                  |                        | 0.008          | <LOQ           |                  |                |
|                  | Month 12               | 0.016          | <LOQ           |                  |                |
|                  |                        | 0.015          | <LOQ           |                  |                |
|                  | Month 15               | 0.011          |                |                  |                |
|                  |                        | 0.020          |                |                  |                |
|                  | Month 18               | 0.018          |                |                  |                |
|                  |                        | 0.016          |                |                  |                |
|                  | Month 24               | 0.026          |                |                  |                |
|                  |                        | 0.038          |                |                  |                |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0036  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of PFUA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOD           |
|                  | Week 2                 | <LOQ           | <LOQ           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  | Week 4                 | <LOQ           | <LOD           | <LOQ             | <LOQ           |
|                  |                        | 0.004          | <LOD           | <LOQ             | <LOD           |
|                  | Month 2                | 0.004          | <LOD           | <LOQ             | <LOD           |
|                  |                        | 0.008          | <LOD           | <LOQ             | <LOQ           |
|                  | Month 4                | 0.011          | <LOD           | 0.005            | <LOD           |
|                  |                        | 0.007          | <LOQ           | 0.005            | <LOD           |
|                  | Month 6                | 0.011          | <LOD           | 0.006            | <LOD           |
|                  |                        | 0.006          | <LOD           | 0.008            | <LOQ           |
|                  | Month 9                | 0.011          | <LOQ           | 0.006            | <LOQ           |
|                  |                        | 0.013          | <LOQ           |                  |                |
|                  | Month 12               | 0.020          | <LOD           |                  |                |
|                  |                        | 0.014          | <LOQ           |                  |                |
|                  | Month 15               | 0.016          | <LOQ           |                  |                |
|                  |                        | 0.024          |                |                  |                |
|                  | Month 18               | 0.010          |                |                  |                |
|                  |                        | 0.012          |                |                  |                |
|                  | Month 24               | 0.013          |                |                  |                |
|                  |                        | 0.025          |                |                  |                |
|                  |                        | 0.018          |                |                  |                |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0036  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of PFUA ( $\mu\text{mol/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOQ           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOQ           | <LOD             | <LOD           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOD           |
|                  |                        | 0.004          | <LOQ           | <LOQ             | <LOD           |
|                  | Week 2                 | 0.007          | <LOD           | 0.006            | <LOD           |
|                  |                        | 0.008          | <LOD           | 0.006            | <LOQ           |
|                  | Week 4                 | 0.013          | <LOD           | 0.017            | <LOQ           |
|                  |                        | 0.011          | <LOD           | 0.011            | <LOD           |
|                  | Month 2                | 0.034          | <LOQ           | 0.025            | <LOQ           |
|                  |                        | 0.035          | <LOQ           | 0.025            | <LOQ           |
|                  | Month 4                | 0.033          | <LOQ           | 0.030            | <LOQ           |
|                  |                        | 0.033          | <LOQ           | 0.034            | <LOD           |
|                  | Month 6                | 0.037          | <LOQ           | 0.039            | <LOQ           |
|                  |                        | 0.050          | <LOQ           | 0.037            | <LOQ           |
|                  | Month 9                | 0.052          | <LOQ           |                  |                |
|                  |                        | 0.050          | <LOQ           |                  |                |
|                  | Month 12               | 0.046          | <LOQ           |                  |                |
|                  |                        | 0.052          | <LOQ           |                  |                |
|                  | Month 15               | 0.046          |                |                  |                |
|                  |                        | 0.045          |                |                  |                |
|                  | Month 18               | 0.062          |                |                  |                |
|                  |                        | 0.058          |                |                  |                |
|                  | Month 24               | 0.072          |                |                  |                |
|                  |                        | 0.080          |                |                  |                |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0036  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 2                | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Month 4                | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Month 6                | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Month 9                | <LOQ           | <LOD           |                  |                |
|                  |                        | <LOQ           | <LOD           |                  |                |
|                  | Month 12               | <LOQ           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |

LOD = limit of detection (0.048  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.216  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 2                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 4                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 6                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 9                | <LOD           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 12               | <LOD           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 15               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 18               | <LOD           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |

LOD = limit of detection (0.048  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.216  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/kg}$ )  
in Soils Treated with [                      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 2                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 4                | <LOD           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 6                | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Month 9                | <LOD           | <LOD           |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 12               | <LOD           |                |                  |                |
|                  |                        | <LOD           | <LOD           |                  |                |
|                  | Month 15               | <LOD           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |
|                  | Month 18               | <LOD           |                |                  |                |
|                  | Month 24               | <LOD           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  |                        | <LOD           |                |                  |                |

LOD = limit of detection (0.048  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.216  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 1                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 2                 | <LOD           | <LOD           | <LOD             | <LOD           |
|                  |                        | <LOD           | <LOD           | <LOD             | <LOD           |
|                  | Week 4                 | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | <LOQ           | <LOD           | <LOD             | <LOD           |
|                  | Month 2                | 0.374          | <LOD           | <LOQ             | <LOQ           |
|                  |                        | 0.269          | <LOD           | <LOQ             | <LOD           |
|                  | Month 4                | 0.319          | <LOQ           | <LOQ             | <LOD           |
|                  |                        | 0.297          | <LOD           | <LOQ             | <LOD           |
|                  | Month 6                | <LOQ           | <LOD           | <LOQ             | <LOD           |
|                  |                        | 0.302          | <LOD           | <LOQ             | <LOD           |
|                  | Month 9                | 0.216          | <LOD           |                  |                |
|                  |                        | <LOQ           | <LOD           |                  |                |
|                  | Month 12               | 0.282          | <LOD           |                  |                |
|                  |                        | 0.356          | <LOD           |                  |                |
|                  | Month 15               | 0.374          |                |                  |                |
|                  |                        | 0.261          |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOD = limit of detection (0.048  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.216  $\mu\text{mol/kg}$ )

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Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/L}$ )  
in Headspace Gases from Chambers Treated with [**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 2                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 4                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 2                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 4                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 6                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 9                | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 12               | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (0.027  $\mu\text{mol/L}$  of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Number 112E-108

**Measured Concentrations, of 8-2 FTOH ( $\mu\text{mol/L}$ )  
in Headspace Gases from Chambers Treated with (     )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 2                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 4                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 2                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 4                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 6                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 9                | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 12               | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (0.027  $\mu\text{mol/L}$  of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/L}$ )  
in Headspace Gases from Chambers Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 2                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 4                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 2                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 4                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 6                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 9                | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 12               | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (0.027  $\mu\text{mol/L}$  of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/L}$ )  
in Headspace Gases from Chambers Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Incentisol       | Day 0                  | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 1                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 2                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Week 4                 | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 2                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 4                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 6                | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  |                        | <LOQ           | <LOQ           | <LOQ             | <LOQ           |
|                  | Month 9                | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 12               | <LOQ           | <LOQ           |                  |                |
|                  |                        | <LOQ           | <LOQ           |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (0.027  $\mu\text{mol/L}$  of headspace)

Monday, October 15, 2007

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH ( $\mu\text{mol/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 6                | <LOQ           |                |                  |                |
|                  |                        | 0.321          |                |                  |                |
|                  | Month 9                | 0.401          |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 12               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | 0.279          |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (0.24  $\mu\text{mol/kg}$ )

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH ( $\mu\text{mol/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 6                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 9                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 12               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (0.24  $\mu\text{mol/kg}$ )

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 7-2 s FTOH ( $\mu\text{mol/kg}$ )  
in Soils Treated with ( )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 6                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 9                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 12               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 15               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (0.24  $\mu\text{mol/kg}$ )

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Number 112E-108

Measured Concentrations of 7-2 s FTOH ( $\mu\text{mol/kg}$ )  
in Soils Treated with [ ]

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Inceptisol       | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 6                | 0.672          |                |                  |                |
|                  |                        | 0.672          |                |                  |                |
|                  | Month 9                | 0.466          |                |                  |                |
|                  |                        | 1.121          |                |                  |                |
|                  | Month 12               | 0.466          |                |                  |                |
|                  |                        | 0.287          |                |                  |                |
|                  | Month 15               | 0.418          |                |                  |                |
|                  |                        | 0.440          |                |                  |                |
|                  | Month 18               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 24               | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |

LOQ = limit of quantitation (0.24  $\mu\text{mol/kg}$ )

Thursday, November 08, 2007

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ( $\mu\text{mol/kg}$ )  
in Soils Treated with[      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Ultisol          | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | 0.015          |                |                  |                |
|                  |                        | 0.021          |                |                  |                |
|                  | Month 6                | 0.037          |                |                  |                |
|                  |                        | 0.048          |                |                  |                |
|                  | Month 9                | 0.071          |                |                  |                |
|                  |                        | 0.065          |                |                  |                |
|                  | Month 12               | 0.094          |                |                  |                |
|                  |                        | 0.076          |                |                  |                |
|                  | Month 15               | 0.077          |                |                  |                |
|                  |                        | 0.091          |                |                  |                |
|                  | Month 18               | 0.063          |                |                  |                |
|                  |                        | 0.038          |                |                  |                |
|                  | Month 24               | 0.123          |                |                  |                |
|                  |                        | 0.127          |                |                  |                |

LOQ = limit of quantitation (0.0045  $\mu\text{mol/kg}$ )

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ( $\mu\text{mol/kg}$ )  
in Soils Treated with [      ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Mollisol         | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 6                | 0.005          |                |                  |                |
|                  |                        | 0.006          |                |                  |                |
|                  | Month 9                | 0.006          |                |                  |                |
|                  |                        | 0.006          |                |                  |                |
|                  | Month 12               | 0.011          |                |                  |                |
|                  |                        | 0.011          |                |                  |                |
|                  | Month 15               | 0.015          |                |                  |                |
|                  |                        | 0.020          |                |                  |                |
|                  | Month 18               | 0.008          |                |                  |                |
|                  |                        | 0.008          |                |                  |                |
|                  | Month 24               | 0.020          |                |                  |                |
|                  |                        | 0.015          |                |                  |                |

LOQ = limit of quantitation (0.0045  $\mu\text{mol/kg}$ )

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ( $\mu\text{mol/kg}$ )  
in Soils Treated with ( )**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Alfisol          | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 6                | 0.007          |                |                  |                |
|                  |                        | 0.006          |                |                  |                |
|                  | Month 9                | 0.007          |                |                  |                |
|                  |                        | 0.006          |                |                  |                |
|                  | Month 12               | 0.011          |                |                  |                |
|                  |                        | 0.014          |                |                  |                |
|                  | Month 15               | 0.017          |                |                  |                |
|                  |                        | 0.020          |                |                  |                |
|                  | Month 18               | 0.018          |                |                  |                |
|                  |                        | 0.015          |                |                  |                |
|                  | Month 24               | 0.015          |                |                  |                |
|                  |                        | 0.016          |                |                  |                |

LOQ = limit of quantitation (0.0045  $\mu\text{mol/kg}$ )

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Number 112E-108

**Measured Concentrations of 7-3 Acid ( $\mu\text{mol/kg}$ )  
in Soils Treated with [ ]**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Aerobic</i> |                | <i>Anaerobic</i> |                |
|------------------|------------------------|----------------|----------------|------------------|----------------|
|                  |                        | <i>Live</i>    | <i>Sterile</i> | <i>Live</i>      | <i>Sterile</i> |
| Inceptisol       | Day 0                  | <LOQ           |                |                  |                |
|                  |                        | <LOQ           |                |                  |                |
|                  | Month 2                | 0.038          |                |                  |                |
|                  |                        | 0.022          |                |                  |                |
|                  | Month 6                | 0.153          |                |                  |                |
|                  |                        | 0.185          |                |                  |                |
|                  | Month 9                | 0.290          |                |                  |                |
|                  |                        | 0.347          |                |                  |                |
|                  | Month 12               | 0.626          |                |                  |                |
|                  |                        | 0.557          |                |                  |                |
|                  | Month 15               | 0.590          |                |                  |                |
|                  |                        | 0.655          |                |                  |                |
|                  | Month 18               | 0.638          |                |                  |                |
|                  |                        | 0.480          |                |                  |                |
|                  | Month 24               | 0.803          |                |                  |                |
|                  |                        | 0.728          |                |                  |                |

LOQ = limit of quantitation (0.0045  $\mu\text{mol/kg}$ )

Wednesday, March 12, 2008

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Ultisol          | Day 0                  | <LOQ                      | <LOQ             |                             |      | 0.023            | 95%  |
|                  |                        | <LOQ                      | <LOQ             |                             |      | 0.022            | 92%  |
|                  | Week 1                 | <LOQ                      | <LOQ             | 0.023                       | 95%  | 0.025            | 105% |
|                  |                        | <LOQ                      | <LOQ             | 0.019                       | 78%  | 0.027            | 113% |
|                  | Week 2                 | <LOQ                      | <LOQ             | 0.021                       | 86%  | 0.022            | 92%  |
|                  |                        | <LOQ                      | <LOQ             | 0.022                       | 91%  | 0.024            | 98%  |
|                  | Week 4                 | <LOQ                      | <LOQ             | 0.022                       | 92%  | 0.023            | 93%  |
|                  |                        | <LOQ                      | <LOQ             | 0.022                       | 92%  | 0.022            | 90%  |
|                  | Month 2                | <LOQ                      | <LOQ             | 0.025                       | 104% | 0.027            | 114% |
|                  |                        | <LOQ                      | <LOQ             | 0.025                       | 103% | 0.026            | 108% |
|                  | Month 4                | <LOQ                      | <LOQ             | 0.029                       | 120% | 0.027            | 114% |
|                  |                        | <LOQ                      | <LOQ             | 0.028                       | 114% | 0.027            | 113% |
|                  | Month 6                | <LOQ                      | <LOQ             | 0.026                       | 106% | 0.027            | 112% |
|                  |                        | <LOQ                      | <LOQ             | 0.025                       | 104% | 0.028            | 115% |
|                  | Month 9                | <LOQ                      |                  | 0.022                       | 92%  |                  |      |
|                  |                        | <LOQ                      |                  | 0.024                       | 100% |                  |      |
|                  | Month 12               | <LOQ                      |                  | 0.018                       | 74%  |                  |      |
|                  |                        | <LOQ                      |                  | 0.017                       | 68%  |                  |      |
|                  | Month 15               | <LOQ                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOQ                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOQ                      |                  |                             |      |                  |      |

LOD = limit of detection (0.0005  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0048  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Mollisol         | Day 0                  | <LOD                      | <LOD             | 0.022                       | 89%  | 0.023            | 93%  |
|                  |                        | <LOD                      | <LOD             | 0.022                       | 93%  | 0.024            | 101% |
|                  | Week 1                 | <LOD                      | <LOD             | 0.023                       | 97%  | 0.020            | 85%  |
|                  |                        | <LOD                      | <LOQ             | 0.024                       | 100% | 0.023            | 96%  |
|                  | Week 2                 | <LOD                      | <LOD             | 0.021                       | 88%  | 0.020            | 85%  |
|                  |                        | <LOD                      | <LOD             | 0.023                       | 94%  | 0.021            | 89%  |
|                  | Week 4                 | <LOQ                      | <LOD             | 0.022                       | 91%  | 0.023            | 95%  |
|                  |                        | <LOQ                      | <LOD             | 0.022                       | 90%  | 0.024            | 99%  |
|                  | Month 2                | <LOD                      | <LOD             | 0.026                       | 107% | 0.030            | 122% |
|                  |                        | <LOD                      | <LOD             | 0.027                       | 112% | 0.026            | 109% |
|                  | Month 4                | <LOQ                      | <LOD             | 0.032                       | 132% | 0.034            | 140% |
|                  |                        | <LOD                      | <LOD             | 0.029                       | 121% | 0.034            | 139% |
|                  | Month 6                | <LOQ                      | <LOD             | 0.032                       | 131% | 0.035            | 145% |
|                  |                        | <LOQ                      | <LOD             | 0.029                       | 120% | 0.035            | 143% |
|                  | Month 9                | <LOQ                      |                  | 0.028                       | 114% |                  |      |
|                  |                        | <LOD                      |                  | 0.028                       | 116% |                  |      |
|                  | Month 12               | <LOD                      |                  | 0.022                       | 92%  |                  |      |
|                  |                        | <LOD                      |                  | 0.025                       | 104% |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOQ                      |                  |                             |      |                  |      |

LOD = limit of detection (0.0005  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0048  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 0.022                       | 92%  | 0.022            | 92%  |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 83%  | 0.020            | 82%  |
|                  | Week 1                 | <LOD                      | <LOD             | 0.022                       | 89%  | 0.021            | 87%  |
|                  |                        | <LOD                      | <LOD             | 0.024                       | 100% | 0.022            | 93%  |
|                  | Week 2                 | <LOD                      | <LOD             | 0.024                       | 99%  | 0.023            | 96%  |
|                  |                        | <LOD                      | <LOD             | 0.023                       | 94%  | 0.024            | 100% |
|                  | Week 4                 | <LOD                      | <LOD             | 0.024                       | 100% | 0.025            | 106% |
|                  |                        | <LOD                      | <LOD             | 0.024                       | 101% | 0.025            | 104% |
|                  | Month 2                | <LOD                      | <LOD             | 0.026                       | 110% | 0.025            | 104% |
|                  |                        | <LOD                      | <LOD             | 0.026                       | 107% | 0.026            | 107% |
|                  | Month 4                | <LOQ                      | <LOD             | 0.026                       | 108% | 0.027            | 111% |
|                  |                        | <LOQ                      | <LOD             | 0.028                       | 115% | 0.026            | 109% |
|                  | Month 6                | <LOD                      | <LOD             | 0.027                       | 110% | 0.025            | 105% |
|                  |                        | <LOD                      | <LOD             | 0.027                       | 111% | 0.027            | 112% |
|                  | Month 9                | <LOD                      |                  | 0.028                       | 115% |                  |      |
|                  |                        | <LOD                      |                  | 0.030                       | 125% |                  |      |
|                  | Month 12               | <LOD                      |                  | 0.022                       | 92%  |                  |      |
|                  |                        | <LOD                      |                  | 0.022                       | 93%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.0005  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0048  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFOA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| Soil Type  | Sample Interval | Untreated Controls |           | Fortified Recoveries |      |           |      |
|------------|-----------------|--------------------|-----------|----------------------|------|-----------|------|
|            |                 | Aerobic            | Anaerobic | Aerobic              |      | Anaerobic |      |
| Incentisol | Day 0           | <LOQ               | <LOQ      | 0.025                | 104% | 0.023     | 97%  |
|            |                 | <LOQ               | <LOQ      | 0.025                | 105% | 0.023     | 94%  |
|            | Week 1          | <LOQ               | <LOQ      | 0.031                | 129% | 0.026     | 109% |
|            |                 | <LOQ               | <LOQ      | 0.024                | 101% | 0.024     | 98%  |
|            | Week 2          | <LOQ               | <LOQ      | 0.026                | 106% | 0.026     | 108% |
|            |                 | <LOQ               | <LOQ      | 0.026                | 109% | 0.025     | 105% |
|            | Week 4          | <LOQ               | <LOQ      | 0.030                | 124% | 0.026     | 107% |
|            |                 | <LOQ               | <LOQ      | 0.027                | 112% | 0.026     | 109% |
|            | Month 2         | <LOQ               | <LOQ      | 0.027                | 113% | 0.029     | 119% |
|            |                 | <LOQ               | <LOQ      | 0.028                | 117% | 0.027     | 111% |
|            | Month 4         | <LOQ               | <LOQ      | 0.032                | 134% | 0.026     | 106% |
|            |                 | <LOQ               | <LOQ      | 0.026                | 108% | 0.028     | 115% |
|            | Month 6         | <LOQ               | <LOQ      | 0.029                | 121% | 0.027     | 113% |
|            |                 | <LOQ               | <LOQ      | 0.026                | 106% | 0.028     | 116% |
|            | Month 9         | <LOQ               |           | 0.035                | 145% |           |      |
|            |                 | <LOQ               |           | 0.030                | 124% |           |      |
|            | Month 12        | <LOQ               |           | 0.023                | 96%  |           |      |
|            |                 | <LOQ               |           | 0.023                | 96%  |           |      |
|            | Month 15        | <LOQ               |           |                      |      |           |      |
|            | Month 18        | <LOQ               |           |                      |      |           |      |
|            | Month 24        | <LOQ               |           |                      |      |           |      |

LOD = limit of detection (0.0005  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0048  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |                  |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              | <i>Anaerobic</i> |
| Ultisol          | Day 0                  | <LOQ                      | <LOD             |                             | 0.017 80%        |
|                  |                        | <LOD                      | <LOD             |                             | 0.016 74%        |
|                  | Week 1                 | <LOD                      | <LOD             | 0.016 72%                   | 0.017 77%        |
|                  |                        | <LOD                      | <LOD             | 0.014 65%                   | 0.019 87%        |
|                  | Week 2                 | <LOD                      | <LOD             | 0.017 77%                   | 0.018 84%        |
|                  |                        | <LOD                      | <LOD             | 0.017 79%                   | 0.018 82%        |
|                  | Week 4                 | <LOD                      | <LOD             | 0.015 69%                   | 0.018 82%        |
|                  |                        | <LOD                      | <LOD             | 0.015 69%                   | 0.017 79%        |
|                  | Month 2                | <LOD                      | <LOD             | 0.016 72%                   | 0.020 93%        |
|                  |                        | <LOD                      | <LOD             | 0.016 72%                   | 0.017 76%        |
|                  | Month 4                | <LOD                      | <LOD             | 0.019 89%                   | 0.018 82%        |
|                  |                        | <LOD                      | <LOD             | 0.017 80%                   | 0.017 80%        |
|                  | Month 6                | <LOD                      | <LOD             | 0.014 65%                   | 0.014 65%        |
|                  |                        | <LOD                      | <LOD             | 0.016 73%                   | 0.015 70%        |
|                  | Month 9                | <LOD                      |                  | 0.006 29%                   |                  |
|                  |                        | <LOD                      |                  | 0.012 54%                   |                  |
|                  | Month 12               | <LOD                      |                  | 0.011 51%                   |                  |
|                  |                        | <LOD                      |                  | 0.009 40%                   |                  |
|                  | Month 15               | <LOD                      |                  |                             |                  |
|                  | Month 18               | <LOD                      |                  |                             |                  |
|                  | Month 24               | <LOD                      |                  |                             |                  |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0044  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Mollisol         | Day 0                  | <LOD                      | <LOD             | 0.020                       | 92%  | 0.016            | 73%  |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 90%  | 0.019            | 88%  |
|                  | Week 1                 | <LOD                      | <LOQ             | 0.018                       | 81%  | 0.017            | 77%  |
|                  |                        | <LOD                      | <LOD             | 0.019                       | 85%  | 0.019            | 87%  |
|                  | Week 2                 | <LOD                      | <LOD             | 0.020                       | 91%  | 0.017            | 77%  |
|                  |                        | <LOD                      | <LOD             | 0.021                       | 95%  | 0.021            | 98%  |
|                  | Week 4                 | <LOD                      | <LOD             | 0.020                       | 90%  | 0.018            | 80%  |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 91%  | 0.018            | 80%  |
|                  | Month 2                | <LOD                      | <LOD             | 0.019                       | 88%  | 0.021            | 97%  |
|                  |                        | <LOD                      | <LOD             | 0.019                       | 87%  | 0.017            | 78%  |
|                  | Month 4                | <LOD                      | <LOD             | 0.022                       | 100% | 0.022            | 99%  |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 94%  | 0.023            | 107% |
|                  | Month 6                | <LOD                      | <LOD             | 0.022                       | 102% | 0.022            | 100% |
|                  |                        | <LOD                      | <LOD             | 0.018                       | 82%  | 0.019            | 85%  |
|                  | Month 9                | <LOD                      |                  | 0.017                       | 78%  |                  |      |
|                  |                        | <LOD                      |                  | 0.020                       | 90%  |                  |      |
|                  | Month 12               | <LOD                      |                  | 0.013                       | 59%  |                  |      |
|                  |                        | <LOD                      |                  | 0.014                       | 63%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0044  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 0.018                       | 84%  | 0.020            | 89%  |
|                  |                        | <LOD                      | <LOD             | 0.017                       | 77%  | 0.016            | 75%  |
|                  | Week 1                 | <LOD                      | <LOD             | 0.019                       | 86%  | 0.020            | 93%  |
|                  |                        | <LOD                      | <LOD             | 0.021                       | 98%  | 0.021            | 95%  |
|                  | Week 2                 | <LOD                      | <LOD             | 0.023                       | 105% | 0.020            | 92%  |
|                  |                        | <LOD                      | <LOD             | 0.017                       | 76%  | 0.019            | 89%  |
|                  | Week 4                 | <LOD                      | <LOD             | 0.016                       | 75%  | 0.019            | 86%  |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 92%  | 0.020            | 94%  |
|                  | Month 2                | <LOD                      | <LOD             | 0.021                       | 96%  | 0.024            | 109% |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 91%  | 0.024            | 108% |
|                  | Month 4                | <LOD                      | <LOD             | 0.014                       | 66%  | 0.018            | 81%  |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 90%  | 0.018            | 83%  |
|                  | Month 6                | <LOD                      | <LOD             | 0.018                       | 84%  | 0.023            | 103% |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 90%  | 0.018            | 83%  |
|                  | Month 9                | <LOD                      |                  | 0.018                       | 80%  |                  |      |
|                  |                        | <LOD                      |                  | 0.024                       | 111% |                  |      |
|                  | Month 12               | <LOD                      |                  | 0.014                       | 62%  |                  |      |
|                  |                        | <LOD                      |                  | 0.015                       | 67%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0044  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTUA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |     |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|-----|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |     |
| Incentisol       | Day 0                  | <LOD                      | <LOD             | 0.024                       | 110% | 0.017            | 79% |
|                  |                        | <LOD                      | <LOD             | 0.021                       | 96%  | 0.018            | 81% |
|                  | Week 1                 | <LOD                      | <LOD             | 0.024                       | 108% | 0.018            | 83% |
|                  |                        | <LOD                      | <LOD             | 0.018                       | 83%  | 0.016            | 75% |
|                  | Week 2                 | <LOD                      | <LOD             | 0.019                       | 88%  | 0.019            | 85% |
|                  |                        | <LOD                      | <LOD             | 0.021                       | 97%  | 0.017            | 78% |
|                  | Week 4                 | <LOD                      | <LOD             | 0.020                       | 94%  | 0.017            | 77% |
|                  |                        | <LOD                      | <LOD             | 0.017                       | 79%  | 0.018            | 82% |
|                  | Month 2                | <LOD                      | <LOD             | 0.018                       | 80%  | 0.017            | 76% |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 89%  | 0.019            | 88% |
|                  | Month 4                | <LOD                      | <LOD             | 0.022                       | 101% | 0.014            | 66% |
|                  |                        | <LOD                      | <LOD             | 0.018                       | 81%  | 0.015            | 70% |
|                  | Month 6                | <LOD                      | <LOD             | 0.015                       | 70%  | 0.013            | 61% |
|                  |                        | <LOD                      | <LOD             | 0.015                       | 68%  | 0.016            | 71% |
|                  | Month 9                | <LOD                      |                  | 0.016                       | 74%  |                  |     |
|                  |                        | <LOD                      |                  | 0.014                       | 64%  |                  |     |
|                  | Month 12               | <LOD                      |                  | 0.012                       | 53%  |                  |     |
|                  |                        | <LOD                      |                  | 0.011                       | 52%  |                  |     |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |     |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0044  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |                  |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              | <i>Anaerobic</i> |
| Ultisol          | Day 0                  | <LOD                      | <LOD             |                             | 0.014 67%        |
|                  |                        | <LOD                      | <LOD             |                             | 0.014 66%        |
|                  | Week 1                 | <LOD                      | <LOD             | 0.013 61%                   | 0.015 70%        |
|                  |                        | <LOD                      | <LOD             | 0.012 58%                   | 0.015 69%        |
|                  | Week 2                 | <LOD                      | <LOD             | 0.013 62%                   | 0.013 61%        |
|                  |                        | <LOD                      | <LOD             | 0.014 69%                   | 0.014 65%        |
|                  | Week 4                 | <LOD                      | <LOD             | 0.011 54%                   | 0.011 53%        |
|                  |                        | <LOD                      | <LOD             | 0.011 55%                   | 0.013 63%        |
|                  | Month 2                | <LOD                      | <LOD             | 0.011 54%                   | 0.015 72%        |
|                  |                        | <LOD                      | <LOD             | 0.011 53%                   | 0.011 51%        |
|                  | Month 4                | <LOD                      | <LOD             | 0.007 33%                   | 0.010 48%        |
|                  |                        | <LOD                      | <LOD             | 0.005 24%                   | 0.010 46%        |
|                  | Month 6                | <LOD                      | <LOD             | 0.007 34%                   | 0.007 35%        |
|                  |                        | <LOD                      | <LOD             | 0.008 37%                   | 0.007 32%        |
|                  | Month 9                | <LOD                      |                  | <LOQ                        |                  |
|                  |                        | <LOD                      |                  | <LOQ                        |                  |
|                  | Month 12               | <LOQ                      |                  | 0.009 41%                   |                  |
|                  |                        | <LOQ                      |                  | <LOQ                        |                  |
|                  | Month 15               | <LOD                      |                  |                             |                  |
|                  | Month 18               | <LOD                      |                  |                             |                  |
|                  | Month 24               | <LOD                      |                  |                             |                  |

LOD = limit of detection (0.0011  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0042  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| Soil Type | Sample Interval | Untreated Controls |           | Fortified Recoveries |     |           |     |
|-----------|-----------------|--------------------|-----------|----------------------|-----|-----------|-----|
|           |                 | Aerobic            | Anaerobic | Aerobic              |     | Anaerobic |     |
| Mollisol  | Day 0           | <LOD               | <LOD      | 0.018                | 87% | 0.015     | 70% |
|           |                 | <LOD               | <LOD      | 0.019                | 90% | 0.018     | 87% |
|           | Week 1          | 0.006              | <LOD      | 0.018                | 84% | 0.015     | 71% |
|           |                 | <LOD               | <LOD      | 0.019                | 90% | 0.016     | 76% |
|           | Week 2          | <LOD               | <LOD      | 0.019                | 90% | 0.013     | 64% |
|           |                 | <LOD               | <LOD      | 0.018                | 88% | 0.017     | 83% |
|           | Week 4          | <LOQ               | <LOD      | 0.017                | 83% | 0.013     | 63% |
|           |                 | <LOD               | <LOD      | 0.017                | 81% | 0.015     | 70% |
|           | Month 2         | <LOD               | <LOD      | 0.016                | 78% | 0.017     | 80% |
|           |                 | <LOD               | <LOD      | 0.017                | 79% | 0.015     | 71% |
|           | Month 4         | <LOD               | <LOD      | 0.017                | 84% | 0.012     | 58% |
|           |                 | <LOD               | <LOD      | 0.014                | 69% | 0.014     | 65% |
|           | Month 6         | <LOD               | <LOD      | 0.013                | 64% | 0.012     | 57% |
|           |                 | <LOD               | <LOD      | 0.013                | 62% | 0.011     | 52% |
|           | Month 9         | <LOD               |           | 0.010                | 50% |           |     |
|           |                 | <LOD               |           | 0.013                | 62% |           |     |
|           | Month 12        | <LOD               |           | 0.005                | 23% |           |     |
|           |                 | <LOQ               |           | <LOQ                 |     |           |     |
|           | Month 15        | <LOD               |           |                      |     |           |     |
|           | Month 18        | <LOD               |           |                      |     |           |     |
|           | Month 24        | <LOD               |           |                      |     |           |     |

LOD = limit of detection (0.0011  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0042  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |     |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|-----|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |     |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 0.016                       | 78%  | 0.018            | 88% |
|                  |                        | <LOD                      | <LOD             | 0.017                       | 79%  | 0.014            | 67% |
|                  | Week 1                 | <LOD                      | <LOD             | 0.016                       | 78%  | 0.018            | 83% |
|                  |                        | <LOD                      | <LOD             | 0.018                       | 84%  | 0.018            | 84% |
|                  | Week 2                 | <LOD                      | <LOD             | 0.022                       | 106% | 0.018            | 84% |
|                  |                        | <LOD                      | <LOD             | 0.018                       | 87%  | 0.017            | 81% |
|                  | Week 4                 | <LOD                      | <LOD             | 0.014                       | 68%  | 0.016            | 77% |
|                  |                        | <LOD                      | <LOD             | 0.017                       | 84%  | 0.017            | 83% |
|                  | Month 2                | <LOD                      | <LOD             | 0.016                       | 73%  | 0.018            | 88% |
|                  |                        | <LOD                      | <LOD             | 0.015                       | 70%  | 0.017            | 83% |
|                  | Month 4                | <LOD                      | <LOD             | 0.009                       | 42%  | 0.014            | 67% |
|                  |                        | <LOD                      | <LOD             | 0.014                       | 67%  | 0.014            | 66% |
|                  | Month 6                | <LOD                      | <LOQ             | 0.013                       | 60%  | 0.015            | 73% |
|                  |                        | <LOD                      | <LOQ             | 0.014                       | 66%  | 0.015            | 70% |
|                  | Month 9                | <LOD                      |                  | 0.011                       | 51%  |                  |     |
|                  |                        | <LOD                      |                  | 0.016                       | 77%  |                  |     |
|                  | Month 12               | <LOD                      |                  | 0.008                       | 40%  |                  |     |
|                  |                        | <LOD                      |                  | 0.008                       | 37%  |                  |     |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 24               | <LOQ                      |                  |                             |      |                  |     |

LOD = limit of detection (0.0011  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0042  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |     |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|-----|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |     |
| Incentisol       | Day 0                  | <LOD                      | <LOD             | 0.022                       | 107% | 0.016            | 78% |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 96%  | 0.015            | 72% |
|                  | Week 1                 | <LOD                      | <LOD             | 0.020                       | 98%  | 0.015            | 70% |
|                  |                        | <LOD                      | <LOD             | 0.016                       | 76%  | 0.014            | 67% |
|                  | Week 2                 | <LOD                      | <LOD             | 0.015                       | 70%  | 0.015            | 72% |
|                  |                        | <LOD                      | <LOD             | 0.018                       | 84%  | 0.016            | 76% |
|                  | Week 4                 | <LOQ                      | <LOD             | 0.015                       | 71%  | 0.012            | 59% |
|                  |                        | <LOD                      | <LOD             | 0.013                       | 63%  | 0.014            | 66% |
|                  | Month 2                | <LOD                      | <LOD             | 0.011                       | 55%  | 0.010            | 48% |
|                  |                        | <LOD                      | <LOD             | 0.012                       | 58%  | 0.013            | 63% |
|                  | Month 4                | <LOD                      | <LOD             | 0.011                       | 53%  | 0.008            | 36% |
|                  |                        | <LOD                      | <LOD             | 0.009                       | 45%  | 0.007            | 34% |
|                  | Month 6                | <LOD                      | <LOD             | 0.009                       | 43%  | 0.005            | 26% |
|                  |                        | <LOD                      | <LOD             | 0.008                       | 37%  | 0.007            | 35% |
|                  | Month 9                | <LOQ                      |                  | 0.007                       | 34%  |                  |     |
|                  |                        | <LOQ                      |                  | 0.007                       | 34%  |                  |     |
|                  | Month 12               | <LOQ                      |                  | 0.004                       | 21%  |                  |     |
|                  |                        | <LOD                      |                  | <LOQ                        |      |                  |     |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 24               | <LOQ                      |                  |                             |      |                  |     |

LOD = limit of detection (0.0011  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0042  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |                  |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              | <i>Anaerobic</i> |
| Ultisol          | Day 0                  | <LOQ                      | <LOQ             |                             | 0.022 100%       |
|                  |                        | <LOQ                      | <LOQ             |                             | 0.021 99%        |
|                  | Week 1                 | <LOQ                      | <LOQ             | 0.020 94%                   | 0.021 99%        |
|                  |                        | <LOQ                      | <LOQ             | 0.017 78%                   | 0.023 107%       |
|                  | Week 2                 | <LOQ                      | <LOQ             | 0.021 97%                   | 0.021 97%        |
|                  |                        | <LOQ                      | <LOQ             | 0.021 98%                   | 0.022 103%       |
|                  | Week 4                 | <LOQ                      | <LOQ             | 0.021 95%                   | 0.022 103%       |
|                  |                        | <LOQ                      | <LOQ             | 0.021 98%                   | 0.021 96%        |
|                  | Month 2                | <LOQ                      | <LOQ             | 0.022 104%                  | 0.024 112%       |
|                  |                        | <LOQ                      | <LOQ             | 0.022 101%                  | 0.024 110%       |
|                  | Month 4                | <LOQ                      | <LOQ             | 0.024 114%                  | 0.025 116%       |
|                  |                        | <LOQ                      | <LOQ             | 0.024 114%                  | 0.025 117%       |
|                  | Month 6                | <LOQ                      | <LOQ             | 0.022 103%                  | 0.023 108%       |
|                  |                        | <LOQ                      | <LOQ             | 0.023 106%                  | 0.025 116%       |
|                  | Month 9                | <LOQ                      |                  | 0.015 70%                   |                  |
|                  |                        | <LOQ                      |                  | 0.022 103%                  |                  |
|                  | Month 12               | <LOQ                      |                  | 0.017 79%                   |                  |
|                  |                        | <LOQ                      |                  | 0.014 67%                   |                  |
|                  | Month 15               | <LOQ                      |                  |                             |                  |
|                  | Month 18               | <LOQ                      |                  |                             |                  |
|                  | Month 24               | <LOQ                      |                  |                             |                  |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0043  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Mollisol         | Day 0                  | <LOD                      | <LOD             | 0.020                       | 94%  | 0.021            | 96%  |
|                  |                        | <LOD                      | <LOD             | 0.021                       | 96%  | 0.022            | 101% |
|                  | Week 1                 | <LOD                      | <LOQ             | 0.021                       | 97%  | 0.019            | 89%  |
|                  |                        | <LOD                      | <LOD             | 0.021                       | 97%  | 0.021            | 98%  |
|                  | Week 2                 | <LOD                      | <LOD             | 0.021                       | 95%  | 0.021            | 96%  |
|                  |                        | <LOD                      | <LOD             | 0.021                       | 99%  | 0.021            | 99%  |
|                  | Week 4                 | <LOD                      | <LOD             | 0.022                       | 102% | 0.020            | 93%  |
|                  |                        | <LOQ                      | <LOD             | 0.018                       | 86%  | 0.021            | 98%  |
|                  | Month 2                | <LOD                      | <LOD             | 0.023                       | 107% | 0.023            | 107% |
|                  |                        | <LOD                      | <LOD             | 0.023                       | 106% | 0.022            | 101% |
|                  | Month 4                | <LOD                      | <LOD             | 0.026                       | 122% | 0.025            | 116% |
|                  |                        | <LOD                      | <LOD             | 0.026                       | 119% | 0.028            | 128% |
|                  | Month 6                | <LOD                      | <LOD             | 0.026                       | 120% | 0.026            | 122% |
|                  |                        | <LOD                      | <LOD             | 0.025                       | 117% | 0.026            | 119% |
|                  | Month 9                | <LOQ                      |                  | 0.022                       | 100% |                  |      |
|                  |                        | <LOQ                      |                  | 0.024                       | 112% |                  |      |
|                  | Month 12               | <LOD                      |                  | 0.017                       | 81%  |                  |      |
|                  |                        | <LOD                      |                  | 0.018                       | 83%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )  
 LOQ = limit of quantitation (0.0043  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 0.021                       | 98%  | 0.021            | 97%  |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 93%  | 0.017            | 81%  |
|                  | Week 1                 | <LOD                      | <LOD             | 0.020                       | 94%  | 0.020            | 94%  |
|                  |                        | <LOD                      | <LOD             | 0.024                       | 112% | 0.022            | 101% |
|                  | Week 2                 | <LOD                      | <LOD             | 0.022                       | 103% | 0.021            | 98%  |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 91%  | 0.022            | 101% |
|                  | Week 4                 | <LOD                      | <LOD             | 0.022                       | 103% | 0.022            | 103% |
|                  |                        | <LOD                      | <LOD             | 0.023                       | 107% | 0.022            | 100% |
|                  | Month 2                | <LOD                      | <LOD             | 0.024                       | 113% | 0.024            | 110% |
|                  |                        | <LOD                      | <LOD             | 0.024                       | 110% | 0.024            | 110% |
|                  | Month 4                | <LOD                      | <LOD             | 0.022                       | 100% | 0.023            | 107% |
|                  |                        | <LOD                      | <LOD             | 0.025                       | 114% | 0.023            | 107% |
|                  | Month 6                | <LOQ                      | <LOQ             | 0.023                       | 108% | 0.025            | 115% |
|                  |                        | <LOQ                      | <LOQ             | 0.025                       | 114% | 0.022            | 102% |
|                  | Month 9                | <LOQ                      |                  | 0.024                       | 113% |                  |      |
|                  |                        | <LOQ                      |                  | 0.026                       | 123% |                  |      |
|                  | Month 12               | <LOQ                      |                  | 0.019                       | 87%  |                  |      |
|                  |                        | <LOQ                      |                  | 0.018                       | 86%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0043  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFNA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Incentisol       | Day 0                  | <LOQ                      | <LOD             | 0.027                       | 124% | 0.022            | 102% |
|                  |                        | <LOQ                      | <LOD             | 0.025                       | 116% | 0.022            | 100% |
|                  | Week 1                 | <LOD                      | <LOD             | 0.028                       | 130% | 0.023            | 108% |
|                  |                        | <LOD                      | <LOD             | 0.023                       | 106% | 0.021            | 98%  |
|                  | Week 2                 | <LOQ                      | <LOQ             | 0.023                       | 107% | 0.022            | 103% |
|                  |                        | <LOQ                      | <LOQ             | 0.023                       | 107% | 0.022            | 102% |
|                  | Week 4                 | <LOQ                      | <LOQ             | 0.027                       | 125% | 0.022            | 101% |
|                  |                        | <LOD                      | <LOQ             | 0.023                       | 107% | 0.023            | 107% |
|                  | Month 2                | <LOQ                      | <LOQ             | 0.024                       | 112% | 0.024            | 111% |
|                  |                        | <LOD                      | <LOD             | 0.026                       | 119% | 0.024            | 111% |
|                  | Month 4                | <LOQ                      | <LOQ             | 0.030                       | 140% | 0.024            | 110% |
|                  |                        | <LOQ                      | <LOQ             | 0.023                       | 105% | 0.023            | 108% |
|                  | Month 6                | <LOQ                      | <LOQ             | 0.022                       | 104% | 0.022            | 101% |
|                  |                        | <LOQ                      | <LOQ             | 0.021                       | 100% | 0.023            | 108% |
|                  | Month 9                | <LOQ                      |                  | 0.028                       | 130% |                  |      |
|                  |                        | <LOQ                      |                  | 0.023                       | 109% |                  |      |
|                  | Month 12               | <LOQ                      |                  | 0.019                       | 89%  |                  |      |
|                  |                        | <LOQ                      |                  | 0.019                       | 88%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOQ                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.0003  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0043  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |                  |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              | <i>Anaerobic</i> |
| Ultisol          | Day 0                  | <LOQ                      | <LOQ             |                             | 0.018 92%        |
|                  |                        | <LOQ                      | <LOQ             |                             | 0.018 91%        |
|                  | Week 1                 | <LOQ                      | <LOQ             | 0.018 93%                   | 0.018 90%        |
|                  |                        | <LOQ                      | <LOQ             | 0.014 74%                   | 0.019 97%        |
|                  | Week 2                 | <LOQ                      | <LOQ             | 0.017 89%                   | 0.018 94%        |
|                  |                        | <LOQ                      | <LOQ             | 0.017 86%                   | 0.018 92%        |
|                  | Week 4                 | <LOQ                      | <LOQ             | 0.017 88%                   | 0.018 93%        |
|                  |                        | <LOQ                      | <LOQ             | 0.017 89%                   | 0.016 80%        |
|                  | Month 2                | <LOQ                      | <LOQ             | 0.018 94%                   | 0.020 104%       |
|                  |                        | <LOQ                      | <LOQ             | 0.018 93%                   | 0.020 102%       |
|                  | Month 4                | <LOQ                      | <LOQ             | 0.021 109%                  | 0.021 110%       |
|                  |                        | <LOQ                      | <LOQ             | 0.021 109%                  | 0.021 109%       |
|                  | Month 6                | <LOQ                      | <LOQ             | 0.019 96%                   | 0.019 96%        |
|                  |                        | <LOQ                      | <LOQ             | 0.019 100%                  | 0.020 104%       |
|                  | Month 9                | <LOQ                      |                  | 0.010 52%                   |                  |
|                  |                        | <LOQ                      |                  | 0.018 93%                   |                  |
|                  | Month 12               | <LOQ                      |                  | 0.016 84%                   |                  |
|                  |                        | <LOQ                      |                  | 0.014 70%                   |                  |
|                  | Month 15               | <LOQ                      |                  |                             |                  |
|                  | Month 18               | <LOQ                      |                  |                             |                  |
|                  | Month 24               | <LOQ                      |                  |                             |                  |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0039  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| Soil Type | Sample Interval | Untreated Controls |           | Fortified Recoveries |      |           |      |
|-----------|-----------------|--------------------|-----------|----------------------|------|-----------|------|
|           |                 | Aerobic            | Anaerobic | Aerobic              |      | Anaerobic |      |
| Mollisol  | Day 0           | <LOQ               | <LOQ      | 0.019                | 100% | 0.018     | 92%  |
|           |                 | <LOQ               | <LOQ      | 0.019                | 100% | 0.019     | 99%  |
|           | Week 1          | <LOD               | <LOQ      | 0.019                | 98%  | 0.016     | 82%  |
|           |                 | <LOD               | <LOD      | 0.020                | 104% | 0.018     | 93%  |
|           | Week 2          | <LOD               | <LOD      | 0.019                | 97%  | 0.018     | 92%  |
|           |                 | <LOD               | <LOD      | 0.020                | 101% | 0.018     | 93%  |
|           | Week 4          | <LOQ               | <LOD      | 0.019                | 98%  | 0.017     | 90%  |
|           |                 | <LOQ               | <LOD      | 0.016                | 81%  | 0.018     | 90%  |
|           | Month 2         | <LOD               | <LOD      | 0.019                | 99%  | 0.020     | 104% |
|           |                 | <LOD               | <LOD      | 0.019                | 97%  | 0.018     | 92%  |
|           | Month 4         | <LOD               | <LOD      | 0.023                | 117% | 0.022     | 114% |
|           |                 | <LOD               | <LOD      | 0.021                | 109% | 0.024     | 121% |
|           | Month 6         | <LOD               | <LOD      | 0.024                | 121% | 0.022     | 112% |
|           |                 | <LOD               | <LOD      | 0.022                | 112% | 0.021     | 109% |
|           | Month 9         | <LOQ               |           | 0.018                | 92%  |           |      |
|           |                 | <LOQ               |           | 0.020                | 102% |           |      |
|           | Month 12        | <LOD               |           | 0.015                | 76%  |           |      |
|           |                 | <LOD               |           | 0.016                | 80%  |           |      |
|           | Month 15        | <LOD               |           |                      |      |           |      |
|           | Month 18        | <LOD               |           |                      |      |           |      |
|           | Month 24        | <LOQ               |           |                      |      |           |      |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0039  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 0.018                       | 93%  | 0.018            | 92%  |
|                  |                        | <LOD                      | <LOD             | 0.018                       | 93%  | 0.014            | 74%  |
|                  | Week 1                 | <LOD                      | <LOD             | 0.018                       | 94%  | 0.017            | 87%  |
|                  |                        | <LOD                      | <LOD             | 0.021                       | 110% | 0.018            | 93%  |
|                  | Week 2                 | <LOD                      | <LOD             | 0.020                       | 101% | 0.018            | 90%  |
|                  |                        | <LOD                      | <LOD             | 0.017                       | 86%  | 0.019            | 95%  |
|                  | Week 4                 | <LOD                      | <LOD             | 0.018                       | 90%  | 0.019            | 97%  |
|                  |                        | <LOD                      | <LOD             | 0.020                       | 105% | 0.019            | 96%  |
|                  | Month 2                | <LOD                      | <LOD             | 0.023                       | 119% | 0.022            | 113% |
|                  |                        | <LOD                      | <LOD             | 0.022                       | 112% | 0.022            | 114% |
|                  | Month 4                | <LOD                      | <LOD             | 0.018                       | 93%  | 0.018            | 90%  |
|                  |                        | <LOD                      | <LOD             | 0.021                       | 109% | 0.019            | 96%  |
|                  | Month 6                | <LOD                      | <LOD             | 0.021                       | 107% | 0.023            | 116% |
|                  |                        | <LOD                      | <LOQ             | 0.022                       | 112% | 0.017            | 86%  |
|                  | Month 9                | <LOD                      |                  | 0.021                       | 109% |                  |      |
|                  |                        | <LOD                      |                  | 0.026                       | 133% |                  |      |
|                  | Month 12               | <LOQ                      |                  | 0.018                       | 92%  |                  |      |
|                  |                        | <LOD                      |                  | 0.018                       | 93%  |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0039  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFDA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Incentisol       | Day 0                  | <LOQ                      | <LOQ             | 0.027                       | 139% | 0.019            | 99%  |
|                  |                        | <LOQ                      | <LOQ             | 0.024                       | 124% | 0.019            | 97%  |
|                  | Week 1                 | <LOQ                      | <LOQ             | 0.028                       | 146% | 0.021            | 107% |
|                  |                        | <LOQ                      | <LOQ             | 0.023                       | 116% | 0.019            | 96%  |
|                  | Week 2                 | <LOQ                      | <LOQ             | 0.022                       | 113% | 0.021            | 108% |
|                  |                        | <LOQ                      | <LOQ             | 0.022                       | 116% | 0.020            | 105% |
|                  | Week 4                 | <LOQ                      | <LOQ             | 0.024                       | 121% | 0.020            | 101% |
|                  |                        | <LOQ                      | <LOQ             | 0.022                       | 115% | 0.021            | 107% |
|                  | Month 2                | <LOQ                      | <LOQ             | 0.023                       | 120% | 0.023            | 118% |
|                  |                        | <LOQ                      | <LOQ             | 0.026                       | 133% | 0.024            | 122% |
|                  | Month 4                | <LOQ                      | <LOQ             | 0.027                       | 141% | 0.021            | 108% |
|                  |                        | <LOQ                      | <LOQ             | 0.021                       | 108% | 0.023            | 116% |
|                  | Month 6                | <LOQ                      | <LOQ             | 0.021                       | 107% | 0.019            | 96%  |
|                  |                        | <LOQ                      | <LOQ             | 0.018                       | 92%  | 0.021            | 106% |
|                  | Month 9                | <LOQ                      |                  | 0.025                       | 128% |                  |      |
|                  |                        | <LOQ                      |                  | 0.021                       | 109% |                  |      |
|                  | Month 12               | <LOQ                      |                  | 0.018                       | 93%  |                  |      |
|                  |                        | <LOQ                      |                  | 0.018                       | 92%  |                  |      |
|                  | Month 15               | <LOQ                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOQ                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOQ                      |                  |                             |      |                  |      |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0039  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |                  |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              | <i>Anaerobic</i> |
| Ultisol          | Day 0                  | <LOQ                      | <LOQ             |                             | 0.015 85%        |
|                  |                        | <LOQ                      | <LOQ             |                             | 0.016 88%        |
|                  | Week 1                 | <LOQ                      | <LOQ             | 0.015 85%                   | 0.015 85%        |
|                  |                        | <LOQ                      | <LOQ             | 0.012 69%                   | 0.015 84%        |
|                  | Week 2                 | <LOQ                      | <LOQ             | 0.015 82%                   | 0.016 88%        |
|                  |                        | <LOQ                      | <LOQ             | 0.014 82%                   | 0.015 86%        |
|                  | Week 4                 | <LOQ                      | <LOQ             | 0.013 76%                   | 0.016 91%        |
|                  |                        | <LOQ                      | <LOQ             | 0.014 78%                   | 0.012 70%        |
|                  | Month 2                | <LOQ                      | <LOQ             | 0.015 86%                   | 0.017 98%        |
|                  |                        | <LOQ                      | <LOQ             | 0.013 74%                   | 0.017 95%        |
|                  | Month 4                | <LOQ                      | <LOQ             | 0.018 102%                  | 0.017 94%        |
|                  |                        | <LOQ                      | <LOQ             | 0.018 101%                  | 0.017 95%        |
|                  | Month 6                | <LOD                      | <LOQ             | 0.016 92%                   | 0.016 88%        |
|                  |                        | <LOQ                      | <LOQ             | 0.017 93%                   | 0.018 99%        |
|                  | Month 9                | <LOQ                      |                  | 0.007 41%                   |                  |
|                  |                        | <LOQ                      |                  | 0.015 84%                   |                  |
|                  | Month 12               | <LOQ                      |                  | 0.013 72%                   |                  |
|                  |                        | <LOQ                      |                  | 0.011 62%                   |                  |
|                  | Month 15               | <LOQ                      |                  |                             |                  |
|                  | Month 18               | <LOD                      |                  |                             |                  |
|                  | Month 24               | <LOQ                      |                  |                             |                  |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0036  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |     |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|-----|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |     |
| Mollisol         | Day 0                  | <LOQ                      | <LOQ             | 0.017                       | 95%  | 0.015            | 82% |
|                  |                        | <LOQ                      | <LOQ             | 0.017                       | 96%  | 0.015            | 86% |
|                  | Week 1                 | <LOD                      | <LOQ             | 0.015                       | 87%  | 0.012            | 67% |
|                  |                        | <LOD                      | <LOD             | 0.017                       | 93%  | 0.014            | 76% |
|                  | Week 2                 | <LOD                      | <LOD             | 0.016                       | 90%  | 0.011            | 63% |
|                  |                        | <LOD                      | <LOD             | 0.016                       | 92%  | 0.013            | 71% |
|                  | Week 4                 | <LOD                      | <LOD             | 0.015                       | 87%  | 0.011            | 63% |
|                  |                        | <LOD                      | <LOD             | 0.012                       | 69%  | 0.014            | 80% |
|                  | Month 2                | <LOD                      | <LOD             | 0.015                       | 84%  | 0.015            | 85% |
|                  |                        | <LOD                      | <LOD             | 0.015                       | 84%  | 0.013            | 75% |
|                  | Month 4                | <LOD                      | <LOD             | 0.018                       | 101% | 0.017            | 96% |
|                  |                        | <LOD                      | <LOD             | 0.018                       | 101% | 0.017            | 94% |
|                  | Month 6                | <LOQ                      | <LOD             | 0.017                       | 95%  | 0.017            | 98% |
|                  |                        | <LOQ                      | <LOD             | 0.015                       | 87%  | 0.014            | 79% |
|                  | Month 9                | <LOQ                      |                  | 0.013                       | 74%  |                  |     |
|                  |                        | <LOQ                      |                  | 0.016                       | 88%  |                  |     |
|                  | Month 12               | <LOD                      |                  | 0.011                       | 61%  |                  |     |
|                  |                        | <LOD                      |                  | 0.011                       | 63%  |                  |     |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |     |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0036  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |     |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|-----|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |     |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 0.016                       | 92%  | 0.015            | 83% |
|                  |                        | <LOD                      | <LOD             | 0.016                       | 87%  | 0.011            | 61% |
|                  | Week 1                 | <LOD                      | <LOD             | 0.016                       | 92%  | 0.015            | 83% |
|                  |                        | <LOD                      | <LOD             | 0.019                       | 109% | 0.015            | 86% |
|                  | Week 2                 | <LOD                      | <LOD             | 0.017                       | 94%  | 0.014            | 79% |
|                  |                        | <LOD                      | <LOD             | 0.014                       | 80%  | 0.014            | 79% |
|                  | Week 4                 | <LOD                      | <LOD             | 0.014                       | 77%  | 0.012            | 70% |
|                  |                        | <LOD                      | <LOD             | 0.017                       | 94%  | 0.013            | 76% |
|                  | Month 2                | <LOD                      | <LOD             | 0.018                       | 103% | 0.016            | 88% |
|                  |                        | <LOD                      | <LOD             | 0.017                       | 97%  | 0.017            | 99% |
|                  | Month 4                | <LOD                      | <LOD             | 0.013                       | 73%  | 0.013            | 74% |
|                  |                        | <LOD                      | <LOD             | 0.016                       | 89%  | 0.013            | 72% |
|                  | Month 6                | <LOD                      | <LOQ             | 0.016                       | 89%  | 0.017            | 93% |
|                  |                        | <LOD                      | <LOQ             | 0.016                       | 93%  | 0.012            | 67% |
|                  | Month 9                | <LOD                      |                  | 0.015                       | 86%  |                  |     |
|                  |                        | <LOD                      |                  | 0.022                       | 122% |                  |     |
|                  | Month 12               | <LOQ                      |                  | 0.016                       | 87%  |                  |     |
|                  |                        | <LOQ                      |                  | 0.016                       | 88%  |                  |     |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |     |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |     |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0036  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of PFUA ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |                  |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              | <i>Anaerobic</i> |
| Incentisol       | Day 0                  | <LOQ                      | <LOD             | 0.021                       | 120%             |
|                  |                        | <LOQ                      | <LOD             | 0.020                       | 112%             |
|                  | Week 1                 | <LOD                      | <LOD             | 0.022                       | 125%             |
|                  |                        | <LOD                      | <LOD             | 0.018                       | 101%             |
|                  | Week 2                 | <LOD                      | <LOD             | 0.016                       | 92%              |
|                  |                        | <LOD                      | <LOD             | 0.018                       | 103%             |
|                  | Week 4                 | <LOD                      | <LOD             | 0.017                       | 98%              |
|                  |                        | <LOD                      | <LOD             | 0.016                       | 89%              |
|                  | Month 2                | <LOD                      | <LOD             | 0.018                       | 104%             |
|                  |                        | <LOD                      | <LOD             | 0.021                       | 117%             |
|                  | Month 4                | <LOD                      | <LOD             | 0.022                       | 122%             |
|                  |                        | <LOD                      | <LOD             | 0.016                       | 88%              |
|                  | Month 6                | <LOQ                      | <LOQ             | 0.014                       | 82%              |
|                  |                        | <LOQ                      | <LOQ             | 0.015                       | 83%              |
|                  | Month 9                | <LOQ                      |                  | 0.018                       | 99%              |
|                  |                        | <LOQ                      |                  | 0.015                       | 82%              |
|                  | Month 12               | <LOQ                      |                  | 0.013                       | 74%              |
|                  |                        | <LOQ                      |                  | 0.012                       | 69%              |
|                  | Month 15               | <LOD                      |                  |                             |                  |
|                  | Month 18               | <LOD                      |                  |                             |                  |
|                  | Month 24               | <LOD                      |                  |                             |                  |

LOD = limit of detection (0.0002  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.0036  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Ultisol          | Day 0                  | <LOD                      | <LOD             | 0.622                       | 115% | 0.627            | 116% |
|                  |                        | <LOD                      | <LOD             | 0.609                       | 113% | 0.621            | 115% |
|                  | Week 1                 | <LOD                      | <LOD             | 0.525                       | 97%  | 0.475            | 88%  |
|                  |                        | <LOD                      | <LOD             | 0.531                       | 99%  | 0.555            | 103% |
|                  | Week 2                 | <LOD                      | <LOD             | 0.452                       | 84%  |                  |      |
|                  |                        | <LOD                      | <LOD             | 0.448                       | 83%  | 0.536            | 99%  |
|                  | Week 4                 | <LOD                      | <LOD             | 0.356                       | 66%  | 0.390            | 72%  |
|                  |                        | <LOD                      | <LOD             | 0.317                       | 59%  | 0.385            | 71%  |
|                  | Month 2                | <LOD                      | <LOD             | 0.220                       | 41%  | 0.334            | 62%  |
|                  |                        | <LOD                      | <LOD             | <LOQ                        | 39%  | 0.356            | 66%  |
|                  | Month 4                | <LOD                      | <LOD             | <LOQ                        | 18%  | 0.253            | 47%  |
|                  |                        | <LOD                      | <LOD             | <LOQ                        | 21%  | <LOQ             | 35%  |
|                  | Month 6                | <LOD                      | <LOD             | <LOQ                        | 16%  | <LOQ             | 22%  |
|                  |                        | <LOD                      | <LOD             | <LOQ                        | 9%   | <LOQ             | 27%  |
|                  | Month 9                | <LOD                      |                  | <LOQ                        | 9%   |                  |      |
|                  |                        | <LOD                      |                  | <LOQ                        | 0%   |                  |      |
|                  | Month 12               | <LOD                      |                  | <LOQ                        | 0%   |                  |      |
|                  |                        | <LOD                      |                  | <LOQ                        | 0%   |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.048  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.216  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

*Wildlife International, Ltd.*

Project No.: 112E-108

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*Wildlife International, Ltd.*

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Mollisol         | Day 0                  | <LOD                      | <LOD             | 0.645                       | 120% | 0.574            | 106% |
|                  |                        | <LOD                      | <LOD             |                             |      | 0.602            | 112% |
|                  | Week 1                 | <LOD                      | <LOD             | 0.562                       | 104% | 0.526            | 98%  |
|                  |                        | <LOD                      | <LOD             | 0.459                       | 85%  | 0.589            | 109% |
|                  | Week 2                 | <LOD                      | <LOD             | 0.469                       | 87%  | 0.554            | 103% |
|                  |                        | <LOD                      | <LOD             | 0.419                       | 78%  | 0.524            | 97%  |
|                  | Week 4                 | <LOD                      | <LOD             | 0.241                       | 45%  | 0.412            | 77%  |
|                  |                        | <LOD                      | <LOD             | 0.256                       | 48%  | 0.413            | 77%  |
|                  | Month 2                | <LOD                      | <LOD             | <LOQ                        | 21%  | <LOQ             | 40%  |
|                  |                        | <LOD                      | <LOD             | <LOQ                        | 25%  | 0.349            | 65%  |
|                  | Month 4                | <LOD                      | <LOD             | <LOQ                        | 7%   | <LOQ             | 28%  |
|                  |                        | <LOD                      | <LOD             | <LOQ                        | 13%  | <LOQ             | 18%  |
|                  | Month 6                | <LOD                      | <LOD             | <LOQ                        | 3%   | <LOQ             | 14%  |
|                  |                        | <LOD                      | <LOD             | <LOQ                        | 4%   | <LOQ             | 6%   |
|                  | Month 9                | <LOD                      |                  | <LOQ                        | 0%   |                  |      |
|                  |                        | <LOD                      |                  | <LOQ                        | 3%   |                  |      |
|                  | Month 12               | <LOD                      |                  | <LOQ                        | 0%   |                  |      |
|                  |                        | <LOD                      |                  | <LOQ                        | 0%   |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.048  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.216  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108, 109, 110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Recoveries</i> |      |                  |      |
|------------------|------------------------|---------------------------|------------------|-----------------------------|------|------------------|------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>              |      | <i>Anaerobic</i> |      |
| Alfisol          | Day 0                  | <LOD                      | <LOD             | 0.662                       | 123% | 0.574            | 107% |
|                  |                        | <LOD                      | <LOD             | 0.527                       | 98%  | 0.548            | 102% |
|                  | Week 1                 | <LOD                      | <LOD             | 0.453                       | 84%  | 0.462            | 86%  |
|                  |                        | <LOD                      | <LOD             | 0.309                       | 57%  | 0.437            | 81%  |
|                  | Week 2                 | <LOD                      | <LOD             | 0.336                       | 62%  | 0.441            | 82%  |
|                  |                        | <LOD                      | <LOD             | 0.307                       | 57%  | 0.347            | 64%  |
|                  | Week 4                 | <LOD                      | <LOD             | 0.252                       | 47%  | 0.274            | 51%  |
|                  |                        | <LOD                      | <LOD             | 0.241                       | 45%  | 0.308            | 57%  |
|                  | Month 2                | <LOD                      | <LOD             | <LOQ                        | 30%  | <LOQ             | 33%  |
|                  |                        | <LOD                      | <LOD             | <LOQ                        | 32%  | <LOQ             | 23%  |
|                  | Month 4                | <LOD                      | <LOD             | <LOQ                        | 22%  | <LOQ             | 20%  |
|                  |                        | <LOD                      | <LOD             | <LOQ                        | 21%  | <LOQ             | 15%  |
|                  | Month 6                | <LOD                      | <LOD             | <LOQ                        | 5%   | <LOQ             | 4%   |
|                  |                        | <LOD                      | <LOD             | <LOQ                        | 12%  | <LOQ             | 7%   |
|                  | Month 9                | <LOD                      |                  | <LOQ                        | 4%   |                  |      |
|                  |                        | <LOD                      |                  | <LOQ                        | 7%   |                  |      |
|                  | Month 12               | <LOD                      |                  | <LOQ                        | 0%   |                  |      |
|                  |                        | <LOD                      |                  | <LOQ                        | 0%   |                  |      |
|                  | Month 15               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 18               | <LOD                      |                  |                             |      |                  |      |
|                  | Month 24               | <LOD                      |                  |                             |      |                  |      |

LOD = limit of detection (0.048  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.216  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/kg}$ )  
in Untreated and Fortified Soils**

| Soil Type  | Sample Interval | Untreated Controls |           | Fortified Recoveries |      |           |      |
|------------|-----------------|--------------------|-----------|----------------------|------|-----------|------|
|            |                 | Aerobic            | Anaerobic | Aerobic              |      | Anaerobic |      |
| Incentisol | Day 0           | <LOD               | <LOD      | 0.613                | 114% | 0.619     | 113% |
|            |                 | <LOD               | <LOD      | 0.565                | 105% | 0.613     | 114% |
|            | Week 1          | <LOD               | <LOD      | 0.575                | 107% | 0.555     | 103% |
|            |                 | <LOD               | <LOD      | 0.613                | 114% | 0.560     | 104% |
|            | Week 2          | <LOD               | <LOD      | 0.529                | 98%  | 0.511     | 95%  |
|            |                 | <LOD               | <LOD      | 0.505                | 94%  | 0.507     | 94%  |
|            | Week 4          | <LOD               | <LOD      | 0.470                | 87%  | 0.495     | 92%  |
|            |                 | <LOD               | <LOD      | 0.612                | 114% | 0.471     | 87%  |
|            | Month 2         | <LOD               | <LOD      | 0.434                | 81%  | 0.289     | 54%  |
|            |                 | <LOD               | <LOD      | 0.430                | 80%  | 0.356     | 66%  |
|            | Month 4         | <LOD               | <LOD      | 0.338                | 63%  | 0.228     | 42%  |
|            |                 | <LOD               | <LOD      | 0.401                | 74%  | 0.228     | 42%  |
|            | Month 6         | <LOD               | <LOD      | <LOQ                 | 34%  | <LOQ      | 17%  |
|            |                 | <LOD               | <LOD      | <LOQ                 | 34%  | <LOQ      | 15%  |
|            | Month 9         | <LOD               |           | <LOQ                 | 22%  |           |      |
|            |                 | <LOD               |           | 0.248                | 46%  |           |      |
|            | Month 12        | <LOD               |           | <LOQ                 | 0%   |           |      |
|            |                 | <LOD               |           | <LOQ                 | 0%   |           |      |
|            | Month 15        | <LOD               |           |                      |      |           |      |
|            | Month 18        | <LOD               |           |                      |      |           |      |
|            | Month 24        | <LOD               |           |                      |      |           |      |

LOD = limit of detection (0.048  $\mu\text{mol/kg}$ )LOQ = limit of quantitation (0.216  $\mu\text{mol/kg}$ )

Company Sanitized. Does not contain TSCA CBI.

**Wildlife International, Ltd.**

Project No.: 112E-108

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/L}$ )  
in Headspace Gases from Untreated and Fortified Soils**

| Soil Type | Sample Interval | Untreated Controls |           | Fortified Soils |           |
|-----------|-----------------|--------------------|-----------|-----------------|-----------|
|           |                 | Aerobic            | Anaerobic | Aerobic         | Anaerobic |
| Ultisol   | Day 0           | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Week 1          | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Week 2          | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Week 4          | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Month 2         | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Month 4         | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Month 6         | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|           | Month 9         | <LOQ               |           | <LOQ            |           |
|           |                 | <LOQ               |           | <LOQ            |           |
|           | Month 12        | <LOQ               |           | <LOQ            |           |
|           |                 | <LOQ               |           | <LOQ            |           |
|           | Month 15        | <LOQ               |           |                 |           |
|           | Month 18        | <LOQ               |           |                 |           |
|           | Month 24        | <LOQ               |           |                 |           |

LOQ = limit of quantitation (0.027  $\mu\text{mol/L}$  of headspace)

Company Sanitized. Does not contain TSCA CBI.

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/L}$ )  
in Headspace Gases from Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Soils</i> |                  |
|------------------|------------------------|---------------------------|------------------|------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>         | <i>Anaerobic</i> |
| Mollisol         | Day 0                  | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 1                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 2                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 4                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 2                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 4                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 6                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 9                | <LOQ                      |                  | <LOQ                   |                  |
|                  |                        | <LOQ                      |                  | <LOQ                   |                  |
|                  | Month 12               | <LOQ                      |                  | <LOQ                   |                  |
|                  |                        | <LOQ                      |                  | <LOQ                   |                  |
|                  | Month 15               | <LOQ                      |                  |                        |                  |
|                  | Month 18               | <LOQ                      |                  |                        |                  |
|                  | Month 24               | <LOQ                      |                  |                        |                  |

LOQ = limit of quantitation (0.027  $\mu\text{mol/L}$  of headspace)

Company Sanitized. Does not contain TSCA CBI.

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**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/L}$ )  
in Headspace Gases from Untreated and Fortified Soils**

| <i>Soil Type</i> | <i>Sample Interval</i> | <i>Untreated Controls</i> |                  | <i>Fortified Soils</i> |                  |
|------------------|------------------------|---------------------------|------------------|------------------------|------------------|
|                  |                        | <i>Aerobic</i>            | <i>Anaerobic</i> | <i>Aerobic</i>         | <i>Anaerobic</i> |
| Alfisol          | Day 0                  | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 1                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 2                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Week 4                 | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 2                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 4                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 6                | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  |                        | <LOQ                      | <LOQ             | <LOQ                   | <LOQ             |
|                  | Month 9                | <LOQ                      |                  | <LOQ                   |                  |
|                  |                        | <LOQ                      |                  | <LOQ                   |                  |
|                  | Month 12               | <LOQ                      |                  | <LOQ                   |                  |
|                  |                        | <LOQ                      |                  | <LOQ                   |                  |
|                  | Month 15               | <LOQ                      |                  |                        |                  |
|                  | Month 18               | <LOQ                      |                  |                        |                  |
|                  | Month 24               | <LOQ                      |                  |                        |                  |

LOQ = limit of quantitation (0.027  $\mu\text{mol/L}$  of headspace)

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**Wildlife International, Ltd.**

Project Numbers 112E-108,109,110

**Measured Concentrations of 8-2 FTOH ( $\mu\text{mol/L}$ )  
in Headspace Gases from Untreated and Fortified Soils**

| Soil Type  | Sample Interval | Untreated Controls |           | Fortified Soils |           |
|------------|-----------------|--------------------|-----------|-----------------|-----------|
|            |                 | Aerobic            | Anaerobic | Aerobic         | Anaerobic |
| Incentisol | Day 0           | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            | Week 1          | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            | Week 2          | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            | Week 4          | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            | Month 2         | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            | Month 4         | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            | Month 6         | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            |                 | <LOQ               | <LOQ      | <LOQ            | <LOQ      |
|            | Month 9         | <LOQ               |           | <LOQ            |           |
|            |                 | <LOQ               |           | <LOQ            |           |
|            | Month 12        | <LOQ               |           | <LOQ            |           |
|            |                 | <LOQ               |           | <LOQ            |           |
|            | Month 15        | <LOQ               |           |                 |           |
|            | Month 18        | <LOQ               |           |                 |           |
|            | Month 24        | <LOQ               |           |                 |           |

LOQ = limit of quantitation (0.027  $\mu\text{mol/L}$  of headspace)

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**Appendix III****Example Calculations****A. Standard Curves by Linear Regression**

Standard curves were prepared by plotting the ratio of analyte concentration ( $\mu\text{g/L} = \text{ng/mL}$ ) of 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA, PFUA, 7-2 sFTOH and 7-3 Acid to the internal standard concentration (0.75 ng/mL 2-13C PFOA for 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA, PFUA and 7-3 Acid and 100 ng/mL HDFFD for 8-2 FTOH and 7-2 sFTOH) in solutions with known concentrations on the abscissa and the respective peak area responses on the ordinate. Weighted regression ( $1/x$ ) was applied to analysis of the data to determine the equation with respect to the abscissa as shown below:

$$A = [m \times (C/C_i) + b] \times A_i$$

where A = analyte area  
 $A_i$  = internal standard area  
 m = slope  
 C = analyte concentration (ng/mL)  
 $C_i$  = internal standard concentration (ng/mL)  
 b = intercept

Concentrations of analytes in the final solutions of processed samples, just prior to injection, were calculated using a rearrangement of the above equation:

$$C = \frac{C_i \times (A/A_i) - b}{m}$$

**B. Residue Concentrations of 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA, PFUA, 7-2 sFTOH and 7-3 Acid in Soil Extracts**

Residue concentrations ( $\mu\text{g/kg}$ ) of 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA, PFUA, 7-2 sFTOH and 7-3 Acid in soil extracts were determined using the following equation:

$$\text{Sample Concentration in } \mu\text{g/kg} = \frac{(C) \times (V_e) \times (V_{f1}) \times (V_{f2})}{(W) \times (V_{i1}) \times (V_{i2})}$$

where C = Concentration (ng/mL) as determined above  
 $V_e$  = Extraction volume (125 mL)  
 $V_{i1}$  = First initial volume (mL)  
 $V_{i2}$  = Second initial volume (if required)  
 $V_{f1}$  = First final volume (mL)  
 $V_{f2}$  = Second final volume (mL)  
 W = Weight of sample (25 g dry weight).

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Residue concentrations ( $\mu\text{mol/kg}$ ) of 8-2 FTOH, 8-2 FTA, 8-2 FTUA, PFOA, PFNA, PFDA, PFUA, 7-2 sFTOH and 7-3 Acid in soil extracts were determined using the following equation:

$$\text{Sample Concentration in } \mu\text{mol/kg} = C \times \text{molecular weight } (\mu\text{mol}/\mu\text{g})$$

where  $C$  = Sample concentration ( $\mu\text{g/kg}$ ) as determined above

C. Procedural Recoveries in Fortified Controls

Procedural recoveries were calculated for fortified control samples prepared in each test condition at known concentrations in 8-2 FTOH (250  $\mu\text{g/kg}$ ), 8-2 FTA (10.00  $\mu\text{g/kg}$ ), 8-2 FTUA (10.00  $\mu\text{g/kg}$ ), PFOA (10.00  $\mu\text{g/kg}$ ), PFNA (10.00  $\mu\text{g/kg}$ ), PFDA (10.00  $\mu\text{g/kg}$ ) and PFUA (10.00  $\mu\text{g/kg}$ ). Percent recoveries of the each analyte were determined to provide confirmation that the method was performing adequately. Percent recoveries were determined by dividing the concentration of the analyte recovered in the fortified sample by the nominal concentration added as shown below:

$$\text{Percent Recovery} = \frac{\mu\text{g/kg Found}}{\mu\text{g/kg Added}} \times 100\%$$

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**Appendix IV****Duration of Incubation**

| <b>Sampling<br/>Interval</b> | <b>Actual Days of Incubation</b> |                   |                |                 |
|------------------------------|----------------------------------|-------------------|----------------|-----------------|
|                              | <b>Alfisol</b>                   | <b>Inceptisol</b> | <b>Ultisol</b> | <b>Mollisol</b> |
| Day 0                        | 0                                | 0                 | 0              | 0               |
| Week 1                       | 7                                | 7                 | 7              | 7               |
| Week 2                       | 14                               | 14                | 14             | 14              |
| Week 4                       | 28                               | 28                | 28             | 28              |
| Month 2                      | 63                               | 63                | 56             | 56              |
| Month 4                      | 119                              | 119               | 119            | 119             |
| Month 6                      | 182                              | 182               | 182            | 182             |
| Month 9                      | 273                              | 273               | 273            | 273             |
| Month 12                     | 365                              | 365               | 364            | 364             |
| Month 15                     | 462                              | 462               | 462            | 462             |
| Month 18                     | 546                              | 546               | 553            | 553             |
| Month 24                     | 728                              | 728               | 728            | 728             |